BUILDING DEMOLITION & SITE GRADING 2202 Soquel Avenue, Santa Cruz, CA

PROJECT #23TI-064

Volume #02 Plans - Specifications - Scope - Photographs - Other CUPCCAA Supporting Docs



COUNTY OF SANTA CRUZ, CALIFORNIA GENERAL SERVICES DEPARTMENT December 15, 2023 Date Prepared

> PROPOSALS DUE: Thursday, January 25, 2024 – 2:30 P.M.

PRE-BID CONFERENCE: Thursday, January 11, 2024 - 11:00 A.M.

LOCATION: Harbor Vet Building 2022 Soquel Avenue Santa Cruz, CA 95062

For use in connection with Santa Cruz County standards and the 2019 California Building Code.

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This CUPCCAA Project is supported by specific documents enumerated in the "Table of Contents" below:

- A. Engineered Drawings -
- B. Technical Specifications Not Applicable
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- D. Existing Condition Photographs
- E. Scope of Work
- F. Preliminary / Milestone Project Schedule Not Applicable
- G. Other Documents

Project Scope of Work:

The County, as a core milestone in the development and delivery of a project, did conduct a site assessment and in conjunction met with the occupants of the facility and/or space to discuss the needs, wants, and expectations. From this site meeting discussion, the **"scope of work"** was drafted and refined to aid the Bidder in understanding parameters of the project and establishing the Bid to execute the expected work.

Project Supplemental Conditions:

These are project clarifications that help the Contractor to gain comfort with the site conditions and support the project intent. The Supplemental Conditions are weighted equally in significance to that of the County General Conditions Terms & Conditions and project Specifications.

Project Existing Condition Photographs:

The County has provided existing condition photographs in advance of a site visit for the purpose of formulating questions to focus observations during the mandatory pre-bid site visit. This will better prepare the Contractor to identify, mitigate, and manage their risk as well that of the county.

Preliminary / Milestone Project Schedule:

The County has prepared either a "**Preliminary or Milestone Project Schedule**". This schedule shall be considered by the Bidder to establish expected duration to execute the work. At the "**Notice of Award**" (NOA) the Bidder will be asked to begin preparing the "**Baseline Project Schedule**" for formal submission and review by the County. This Schedule will be submitted and reviewed within the first ten (10) days of receiving the NOA.



ENGINEERED DRAWINGS

EXHIBIT "A"





- 1. ALL WORK ON THE WATER SYSTEM MUST BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST VERSION OF CITY OF SANTA CRUZ WATER DEPT (SCWD) STANDARD SPECIFICATIONS.
- 2. A MINIMUM OF 2 WORKING DAYS NOTICE SHALL BE GIVEN TO THE SCWD BEFORE CONSTRUCTION ON ANY PORTION OF THE WATER SYSTEM. OBTAIN ALL APPLICABLE WATER SYSTEM PERMITS AT THE SCWD. CALL 831-420-5210 FOR INFORMATION AND TO SCHEDULE WATER SERVICE, FIRE HYDRANT AND BACKFLOW ASSEMBLY INSPECTIONS
- MINIMUM SEPARATIONS FROM OTHER PARALLEL AND CROSSING UTILITIES MUST BE MAINTAINED PER CURRENT STANDARD TECHINICAL SPECIFICATIONS.
- 4. UTILITY LOCATIONS ARE APPROXIMATE. VERIFICATION OF ACTUAL UTILITIES AND LOCATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. CALL UNDERGROUND SERVICE ALERT AT LEAST TWO WORKING DAYS BEFORE DIGGING AT 800-227-2600.
- 5. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO WORKING DAYS NOTICE TO SCWD FOR INSPECTION OF SERVICES THAT ARE TO BE RETIRED, MODIFIED OR RELOCATED. CONTRACTOR SHALL EXPOSE CORPORATION STOPS FOR SCWD STAFF TO OPERATE. AN ACTIVE WATER METER MAY BE RELOCATED UP TO 8' HORIZONTALLY USING THE PIPE FREEZE METHOD OR BY TEMPORARILY CLOSING THE CORPORATION STOP. RETIRED METER BOXES ARE TO BE REMOVED BY CONTRACTOR AND ALL SIDEWALK & PAVING RESTORED. SERVICE LINES SHALL NOT BE CRIMPED AS A METHOD OF RETIREMENT OR SERVICE LINE MODIFICATION OR RELOCATION.
- 6. APPROVAL BY THE SCWD FOR THE FIRE SERVICE INSTALLATION SHALL BE FOR THE SERVICE LINE LOCATION AND THE CONNECTION TO THE CITY WATER SYSTEM. THE FIRE SERVICE SIZE AND DESIGN APPROVAL ARE THE RESPONSIBILITY OF THE LOCAL FIRE PROTECTION AGENCY.
- 7. TEMPORARY REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY INSTALLATION(S) PER SCWD STANDARDS ARE REQUIRED FOR ALL CONSTUCTION WATER USE.

Central Fire Protection District (CFPD)

- 1. THESE PLANS ARE IN COMPLIANCE WITH CALIFORNIA BUILDING AND FIRE CODES (2010) AS AMENDED BY THE CFPD.
- 2. THE PROPOSED STRUCTURE SHALL BE SPRINKLERED AS OUTLINED IN THE 2010 CALIFORNIA BUILDING
- 3. THE FIRE FLOW REQUIREMENT FOR THE SUBJECT PROPERTY IS 1,500 GALLONS PER MINUTE.
- 4. AVAILABLE FIRE FLOW FOR THE SUBJECT PROPERTY IS 1,186 GALLONS PER MINUTE (FLOW AT 20 PSI IS 5.563 GPM
- 5. AN UNDERGROUND FIRE PROTECTION SYSTEM WORKING DRAWING MUST BE PREPARED BY THE DESIGNER/INSTALLER. WORKING DRAWINGS SHALL COMPLY WITH THE DISTRICT UNDERGROUND FIRE PROTECTION SYSTEM INSTALLATION POLICY HANDOUT
- 6. BUILDING SHALL BE PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM COMPLYING WITH THE EDITION OF NFPA 13 CURRENTLY ADOPTED IN CHAPTER 35 OF THE CALIFORNIA BUILDING CODE.
- 7. THE FDC SHALL BE LABELED WITH THE ADDRESS OF THE BUILDING THAT IT SERVES, WITH 2" PEAL AND STICK PLASTIC REFLECTIVE NUMBERS.
- 10. ROOF COVERINGS TO BE NO LESS THAN CLASS "B" RATED ROOF.
- 11. NEW/UPGRADED HYDRANTS, WATER STORAGE TANKS, AND/OR UPGRADED ROADWAYS SHALL BE INSTALLED PRIOR TO AND DURING TIME OF CONSTRUCTION. 12. DESIGNER/INSTALLER SHALL SUBMIT TWO (2) SETS OF PLANS, CALCULATIONS, AND CUT SHEETS FOR THE
- AUTOMATIC SPRINKLER SYSTEM TO THE CFPD AGENCY FOR APPROVAL. INSTALLATION SHALL FOLLOW THE CFPD GUIDE SHEET. CUT SHEETS SHALL INCLUDE, BUT NOT BE LIMITED TO PIPING, VALVES, GAUGES AND SPRINKLER HEADS.
- 13. THE JOB COPIES OF THE BUILDING AND FIRE SYSTEMS PLANS AND PERMITS MUST BE ON-SITE DURING INSPECTIONS.
- 14. THE SUBMITTER, DESIGNER AND INSTALLER CERTIFY THAT THESE PLANS AND DETAILS COMPLY WITH APPLICABLE SPECIFICATIONS, STANDARDS, CODES AND ORDINANCES, AGREE THAT THEY ARE SOLELY RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE SPECIFICATIONS, STANDARDS, CODES AND ORDINANCES AND FURTHER AGREE TO CORRECT ANY DEFICIENCIES NOTED BY THE CENTRAL FIRE PROTECTION DISTRICT REVIEW, SUBSEQUENT REVIEW, INSPECTION OR OTHER SOURCE, AND, TO HOLD HARMLESS AND WITHOUT PREJUDICE. THE REVIEWER AND REVIEWING AGENCY
- 15. INSTALL 1" (MIN.) PVC CONDUIT FROM THE RISER ROOM TO THE DOUBLE BACK CHECK ASSEMBLY AT THE STREET TO ALLOW FOR MONITORING OF THE TAMPER SWITCHES.

Sanitary Sewer Notes

- ALL SANITARY SEWER WORK SHALL CONFORM TO PART 4. "SANITARY SEWER DESIGN," OF THE SANTA CRUZ COUNTY DESIGN CRITERIA.
- 2. PIPE MATERIAL SHALL BE PVC SDR 26 OR EQUAL.
- 3. TRENCH BACKFILL SHALL BE PER SCCO FIGURES SS-2A, AND SS-2B.
- 4. BACK FLOW PREVENTION DEVICES SHALL BE INSTALLED ON ALL LATERALS WHERE THE FINISHED FLOOR ELEVATION IS LESS THAN ONE FOOT ABOVE THE RIM ELEVATION OF THE NEAREST UPSTREAM MANHOLE OR CLEAN OUT. THE VALVES SHALL BE LOCATED IN SUCH A WAY AS TO PREVENT ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF SEWAGE RELEASED THROUGH THE DEVICE, AS NOTED ON FIGURE
- 5. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.
- 6. ALL LATERAL CLEANOUTS SHALL BE OUTSIDE OF THE PUBLIC RIGHT OF WAY.
- INSULATED COPPER WIRE (NO. 10) SHALL BE PLACED ALONG TOP OF ALL GRAVITY AND FORCE MAINS. THE WIRE SHALL RUN BETWEEN MANHOLES, CLEANOUTS, OR OTHER APPROPRIATE FACILITIES, BROUGHT TO THE SURFACE AND BOLTED OR OTHERWISE SECURELY AFFIXED TO THE MANHOLE OR CLEANOUT COVER OR OTHER APPROPRIATE METAL STRUCTURE.
- SANITARY SEWER MANHOLES, SUBJECT TO SURFACE OR STORM WATER, SHALL HAVE WATER-TIGHT LIDS. REFER TO SCCO FIGURES SS23 & SS24 FOR SANITARY SEWER MANHOLE FRAME & COVER DETAILS.
- THE EXISTING SEWER LATERALS MUST BE PROPERLY ABANDONED AT THE PROPERTY LINE (INCLUDING INSPECTION BY SANTA CRUZ COUNTY SANITATION DISTRICT) PRIOR TO ISSUANCE OF DEMOLITION PERMIT OR RELOCATION OR DISCONNECTION OF STRUCTURE. AN ABANDONMENT PERMIT FOR DISCONNECTION MUST BE OBTAINED FROM THE DISTRICT.
- 10. ALL SANITARY SEWERS WITHIN THE ROADWAY OR UNDER CURB, GUTTER OR SIDEWALK SHALL BE IN PLACE, VIDEOTAPED, AND APPROVED FOR ACCEPTANCE PRIOR TO PLACING THE PERMANENT PAVING ON SAID ROADWAY OR PLACING ANY CURB, GUTTER OR SIDEWALK THEREON.
- FOLLOWING THE SUCCESSFUL COMPLETION OF CLEANING AND TESTING, ALL SANITARY SEWER MAINS 11. WHICH ARE TO BE COUNTY_MAINTAINED, OR PRIVATE LINES AT THE DISCRETION OF THE PUBLIC WORKS INSPECTOR, SHALL FIRST BE FLUSHED, THEN VIDEO-RECORDED AT THE DEVELOPER'S EXPENSE ON DVD IN A MICROSOFT WINDOWS MEDIA PLAYER COMPATIBLE FORMAT. SAID VIDEO-RECORDING AND ACCOMPANYING REPORT SHALL BE SUBMITTED TO THE SANITATION DISTRICT FOR REVIEW AND APPROVAL PRIOR TO THE ACCEPTANCE OF THE PROJECT AND ANY ASSOCIATED SIGN_OFFS FOR BUILDING OCCUPANCY. THE CONTRACTOR SHALL REFER TO PART 4, "SANITARY SEWER DESIGN" OF THE DESIGN CRITERIA FOR SPECIFICATIONS ON PIPE LAYING, PIPELINE TESTING AND ALLOWABLE DESIGN TOLERANCES.

Storm Drainage Notes

- 1. ALL CATCH BASINS AND DRAIN BOXES SHALL HAVE MARKINGS STATING: "NO DUMPING DRAINS TO BAY", OR OTHER EQUIVALENT MESSAGE.
- 2. ALL "NDS" #101 AREA DRAINS SHALL HAVE 6" "NDS" ATRIUM GRATE

PG&E Note

1. RELOCATE (E) PGE METER PER PLANS PREPARED BY PGE



GEOTECHNICAL INVESTIGATION FEASIBILITY PHASE

FOR 2202 SOQUEL AVENUE SANTA CRUZ, SANTA CRUZ COUNTY, CALIFORNIA

PREPARED FOR COUNTY OF SANTA CRUZ GENERAL SERVICES DEPARTMENT PROJECT NO. 21-173-SC



PREPARED BY

BUTANO GEOTECHNICAL ENGINEERING, INC. AUGUST 2021



BUTANO GEOTECHNICAL ENGINEERING, INC. 231 GREEN VALLEY ROAD, SUITE E, FREEDOM, CALIFORNIA 95019 PHONE: 831.724.2612 WWW.BUTANOGEOTECH.COM

August 4, 2021 Project No. 21-173-SC

County of Santa Cruz General Services Department 701 Ocean Street, Room 330 Santa Cruz, CA 95060

ATTENTION: Thomas Fakner

SUBJECT: GEOTECHNICAL INVESTIGATION - FEASIBILITY PHASE Proposed Commercial Construction 2202 Soquel Avenue Santa Cruz, Santa Cruz County, California

Dear Mr. Fakner:

In accordance with your authorization, we have completed a geotechnical investigation for the subject project. This report summarizes the findings and discussions from our field exploration, laboratory testing, and engineering analysis. It is a pleasure being associated with you on this project. If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office.

Sincerely,



1.0 INTRODUCTION

This report presents the results of our feasibility level geotechnical investigation for the proposed commercial construction at 2202 Soquel Avenue in unincorporated Santa Cruz, Santa Cruz, California.

The purpose of our investigation is to provide geotechnical data from our field and laboratory investigation and discuss the geologic and geotechnical restraints at the site.

This work included site reconnaissance, subsurface exploration, soil sampling, laboratory testing, engineering analyses, and preparation of this report. The scope of services for this investigation is outlined in our agreement dated February 26, 2021, and purchase order dated April 15, 2021.

The recommendations contained in this report are subject to the limitations presented in Section 8.0 of this report. The Association of Engineering Firms Practicing the Geosciences has produced a pamphlet for your information titled *Important Information About Your Geotechnical Report*. This pamphlet has been included with the copies of your report.

2.0 PROJECT DESCRIPTION

Based on our discussions with the client, it is our understanding that the project consists of demolishing the existing structure and constructing a new two-story structure with underground parking.

3.0 FIELD EXPLORATION AND LABORATORY TESTING PROGRAMS

Our field exploration program included drilling, logging, and interval sampling of a total of nine borings. Borings B1 through B8 were advanced on May 4, 2021 and July 20, 2021 with a truck mounted drill rig advanced using 6-inch diameter solid stem augers. Boring B9 was advanced on July 22, 2021 with a truck mounted drill rig using 8-inch diameter hollow stem augers. Details of the field exploration program, including the Boring Logs and the Key to the Logs, are presented in Appendix B, Figures B-3 through B-12b.

Representative samples obtained during the field investigation were taken to the laboratory for testing. Laboratory tests were used to determine physical and engineering properties of the in-situ soils. Details of the laboratory testing program are presented in Appendix C. Test results are presented on the Boring Logs and in Appendix C.

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4.0 SITE DESCRIPTION

4.1 Location

The project site is located south of Highway 101 in unincorporated Santa Cruz, Santa Cruz County, California. The site location is shown on the Site Location Plan, Appendix B, Figure B-1.

4.2 <u>Surface Conditions</u>

The parcel is approximately 1.5 acres in size and has been developed. There is a relatively new structure on the eastern 2/3 of the parcel which houses the Psychiatric Health Facility. There is an existing one-story structure on the western side of the parcel, which is referred to as the Harbor Vet Building. The western portion of the parcel is the subject project area.

The southern portion of the parcel has been steeply cut into a sandstone hillside. The western edge of the parcel is separated from the adjacent parking lot by a retaining wall. The northern edge of the parcel is separated from Soquel Avenue by a retaining wall. The Harbor Vet Building is still standing, and the remaining areas consist of paved driveways and parking. The paved area slopes gently to the north.

4.3 <u>Subsurface Conditions</u>

The site is geologically mapped as being underlain by alluvium and purisima formation. The native earth material encountered during our investigation is consistent with the geologic mapping.

A total of nine borings were advanced for this phase of the project. In addition to the borings, our firm observed the cut-slope on the southern portion of the parcel.

The borings generally encountered three units. Non-engineered fill was encountered in all of the borings. The fill prism is generally thin (several feet thick) on the southern edge of the project and then increases to approximately 14 feet on the northwestern edge of the proposed building. Purisima formation sandstone directly underlies the non-engineered fill in the southern portion of the site (Boring 1 and Boring 5). The sandstone is very dense, weathered, and friable.

Alluvium was encountered below the non-engineered fill in Boring 2 to Boring 4 and Boring 6 to Boring 9. The thickness of the alluvium thickens as you go to the

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northwest (alignment of Arana Gulch). The alluvium generally consists of soft to firm lean clay, sandy lean clay, clayey sand, and silty sand. The silty sand is loose. At the northwest corner of the proposed structure the depth to purisima formation bedrock is approximately 46 feet below existing grade.

Our firm measured groundwater in Boring 4 at12 feet, Boring 6 at18 feet, Boring 7 at18 feet, and Boring 8 at16 feet. Groundwater was encountered in Boring 9 but not accurately recorded. Groundwater was not encountered in Boring 1 through Boring 3 and B5.

Complete soil profiles are presented on the Boring Logs, Appendix B, Figures B-4 through B-12b. The boring locations are shown on the Boring Site Plan, Figure B-2.

5.0 GEOTECHNICAL HAZARDS

5.1 <u>General</u>

In our opinion the geotechnical hazards that could potentially affect the proposed project are:

- Intense seismic shaking
- Collateral seismic hazards
- Liquefaction and Lateral Spreading

5.1.1 Intense Seismic Shaking

The hazard of intense seismic shaking is present throughout central California. Intense seismic shaking may occur at the site during the design lifetime of the proposed structure from an earthquake along one of the regions many faults. Generally, the intensity of shaking will increase the closer the site is to the epicenter of an earthquake; however, seismic shaking is a complex phenomenon and may be modified by local topography and soil conditions. The transmission of earthquake vibrations from the ground into the structure may cause structural damage.

The County of Santa Cruz has adopted the seismic provisions set forth in the 2019 California Building Code to address seismic shaking. The seismic provisions in the 2019 CBC are minimum load requirements for the seismic design for the proposed structure. The provisions set forth in the 2019 CBC will not prevent structural and nonstructural damage from direct fault ground

surface rupture, coseismic ground cracking, liquefaction and lateral spreading, seismically induced differential compaction, seismically induced landsliding, or seismically induced inundation.

Table 1 has been constructed based on the 2019 CBC requirements as adopted from the ASCE 7-16 provisions for the seismic design of proposed structures built in liquefiable areas. The Site Class has been determined based on our field investigation and laboratory testing. The soil underlying the site is a Type S_F (potentially liquefiable) soil, but the structure has a short period. Due to the short period of the structure it is appropriate to analyze the site as being underlain by Type S_D with respect to ground shaking. Specific analysis and recommendations with respect to liquefaction are provided in section 5.1.3 and the recommendation section of this report.

Table 1. Seismic Design Parameters

| Ss | S ₁ | Site Class | Fa | Fv | Sds | S _{D1} | Fpga | РСАм | Risk Category | Seismic Design Category |
|-------|----------------|---------------|-----|-------|-------|-----------------|------|-------|------------------|-------------------------------|
| 1.722 | 0.663 | D | 1.0 | Null* | 1.148 | Null | 1.1 | 0.794 | II | Null* |

Design Coordinates - Latitude: 36.9831655 Longitude: -121.9943625 *Site specific analysis required for site class D and building structures having a period within the velocity domain of the design response spectrum (T_s <T<=T_L).

5.1.2 Collateral Seismic Hazards

In addition to intense seismic shaking, other seismic hazards that may have an adverse effect to the site and/or the structure are: fault ground surface rupture, coseismic ground cracking, seismically induced liquefaction and lateral spreading, seismically induced differential compaction, seismically induced landsliding, and seismically induced inundation (tsunami and seiche). In our opinion, the potential for collateral seismic hazards to affect the site and to damage the proposed structure is low except for liquefaction and lateral spreading. See section 5.1.3 for a detailed discussion on liquefaction and lateral spreading.

5.1.3 Liquefaction and Lateral Spreading

Liquefaction is a mechanism of ground failure resulting from increased pore pressures during undrained cyclical shearing of saturated cohesionless soils. The excess pore water pressure causes the effective stress and shear resistance to drop, producing a liquefied soil state. In general terms, when loose, saturated, coarse-grained soils (cohesionless soils) are subjected to earthquake shaking (cyclical shearing) the water pressure (pore pressure) increases. If the water cannot escape fast enough (undrained) stress is transferred from the soil skeleton to the pore water, reducing the grain to grain contact (effective stress); thus reducing the soil strength (shear resistance). If this reduction is great enough, the soil deforms and is said to liquefy. Ultimately, sands and non-plastic silts consolidate when subjected to repeated liquefaction.

The site was analyzed for liquefaction potential utilizing the data in the most recent publications of the NCEER Workshop and SP 117 implementations. The analysis was performed for existing grade elevations using a peak ground acceleration of 0.722 g and a magnitude 7.9 earthquake. A groundwater elevation of 14 feet below existing grade was used for the liquefaction analysis. This groundwater elevation was based on a review of the soil profile and estimations of winter conditions.

The associated hazards related to liquefaction are:

- Loss of bearing capacity.
- Lateral spreading.
- Ground settlement.
- Surface manifestations of underlying liquefaction.

A liquefaction analysis was conducted on the borings. The lowest estimated factor of safety against liquefaction using the NCEER method was 0.16. Due to the low factor of safety the site should be mitigated for the hazards of liquefaction.

Loss of Bearing Capacity

Liquefaction can cause loss of bearing capacity in stable strata located above the liquefied zone. The loss of bearing capacity has historically resulted in large translational and rotational failures. There are no recognized analytical methods to evaluate the loss of bearing capacity at

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this time. The liquefiable zone is potentially thick, up to 10 to 15 feet thick in some locations, and relatively shallow (if a basement is constructed). We anticipate that the probability for loss of bearing capacity to occur at the site is moderate to high unless the soil is improved.

Lateral Spreading

Lateral spreading occurs when a liquefied soil mass fails toward an open slope face or fails on an inclined plane. The site is in an area that slopes gently to the northeast, which is the historical location of Arana Gulch. Therefore, the potential for lateral spreading to occur is considered moderate to high unless the soil is improved.

Ground Settlement

The liquefied soil profile may settle as the result of a seismic event. This occurs as the soil grains are shaken into a slightly denser arrangement. Because sites rarely have homogeneous soil profiles, this often results in differential settlement, also known as differential compaction. The probability of ground settlement to occur at the site due to a seismic event is high.

Volumetric reconsolidation strains of 3 percent were calculated based on cyclic stress ratio of 0.44 and fines adjusted blow counts of 7. The maximum settlement using a 15 feet thick liquefiable layer is 5 ½ inches. Differential settlements will be on the order of 5 ½ inches. The differential settlement matches the calculated settlement because some portions of the proposed structure are located directly on purisima formation sandstone and will not liquefy and other portions of the structure are located on alluvium.

Surface Manifestations of Underlying Liquefaction

Boils and ground fissures may occur through the top non-liquefiable soil from liquefaction of the underlying soil layers. Our evaluation of the potential for surface manifestations was conducted using a 2 feet thick non-liquefiable surface layer and a 15 feet thick liquefiable layer. Based on our calculations, the potential for surface manifestations is moderate to high.

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6.0 DISCUSSIONS AND CONCLUSIONS

The proposed building envelope is underlain by varying soil/rock conditions. The southern portion of the site is underlain by minimal non-engineered fill and then purisima formation sandstone. The non-engineered fill prism thickens as one goes to the north (towards Soquel Avenue) and was recorded to be up to 14 feet deep. In the northern portion of the project there is alluvium below the non-engineered fill. The alluvium consists of soft to firm lean clay and loose silty sand. The silty sand has the potential to liquefy and laterally spread. This is a significant geologic hazard which requires mitigation.

The boring logs and cross-sections are presented in Appendix B. Based on our investigation, the bedrock slopes towards the northwest at a gradient of approximately 100 percent. Therefore, the northwestern edge of the structure is underlain by significantly more alluvium than the northeast corner. Our investigation was constrained by the existing building. We recommend that additional borings be advanced within the footprint of the existing Old Harbor Vet Building so our firm can map the depth of alluvium in more detail.

In our opinion, the most feasible mitigation strategy is to improve the alluvium underlying the proposed development. Typical soil improvement methods include compaction grouting and soil mixing. Once the soil is improved, to a specified parameter the hazard of liquefaction and lateral spreading will be considered low. Typically, a conventional shallow foundation can then be constructed.

Other considerations include over-excavation of the non-engineered fill and placement of engineered fill to design grade.

REFERENCES

ASTM International (2016). *Annual Book of ASTM Standards, Section Four, Construction*. Volume 4.08, Soil and Rock (I): D 430 - D 5611.

ASTM International (2016). *Annual Book of ASTM Standards, Section Four, Construction.* Volume 4.09, Soil and Rock (II): D 5714 - Latest.

Cochrane, G.R., Johnson, S.Y., Dartnell, P., Greene, H.G., Erdey, M.D., Dieter, B.E., Golden, N.E., Hartwell, S.R., Ritchie, A.C., Kvitek, R.G., Maier, K.L., Endris, C.A., Davenport, C.W., Watt, J.T., Sliter, R.W., Finlayson, D.P., and Krigsman, L.M., 2016, California State Waters Map Series—offshore of Aptos, California, U.S. Geological Survey, Open-File Report OF-2016-1025, 1:24,000

APPENDIX B

FIELD EXPLORATION PROGRAM

| Field Exploration Procedures | Page B-1 |
|------------------------------|---------------------------|
| Site Location Plan | Figure B-1 |
| Boring Site Plan | Figure B-2 |
| Key to the Logs | Figure B-3 |
| Logs of the Borings | Figures B-4 through B-12b |
| Cross-Sections | Figures B-13 and B-14 |

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FIELD EXPLORATION PROCEDURES

Subsurface conditions were explored by advancing nine borings below existing grade. The borings were advanced using six-inch diameter solid stem augers or 8-inch hollow stem augers on a truck mounted drill rig. The Key to The Logs and the Logs of the Boring are included in Appendix B, Figures B-3 through B-12b. The approximate locations of the borings are shown on the Boring Site Plan, Figure B-2. The borings were located in the field by tape measurements from known landmarks. Their locations as shown are therefore within the accuracy of such measurement.

The soils encountered in the borings were continuously logged in the field by a representative of Butano Geotechnical Engineering, Inc. Bulk and relatively undisturbed soil samples for identification and laboratory testing were obtained in the field. These soils were classified based on field observations and laboratory tests. The classifications are accordance with the Unified Soil Classification System (USCS: Figure B-3).

Two geologic cross-sections based on the topographic map of the site and our field investigation. They are shown on Figures B-13 and B-14





| | | | | KEY | TOI | LOGS | S | | | | | |
|-----------------------------------|------------------|----------------------------|----------------------|-------------|---------------|------------|----------------|-----------------|-----------------------|-----------------------|-------------------------------------|----------------------------|
| | | UNI | FIED SOI | l Ci | LASSI | FICA' | TION | SYS | STEM | | | |
| P | RIMAF | RY DIVISION | NS | | GRC SYM | DUP BOL | | | SECO | NDAR | Y DIVISION | IS |
| | | | CI EAN CRA | VELS | G | W | Well g | raded g | ravels, g | gravel-s | and mixtures, | little or no fines |
| | GF More | than half of | (Less than 5% | fines) | G | Р | Poor | ly grade | ed grave | els, grav fi | vel-sand mixtu | res, little or no |
| COARSE GRAINED | the co is lar | ger than the | GRAVE | L | G | М | Silty | gravels | , gravel | -sand-si | ilt mixtures, no | on-plastic fines |
| SOILS | INC | 5. 4 sieve | WITH FIN | IES | G | С | Clay | ey grav | els, grav | vel-sand | d-clay mixture | s, plastic fines |
| More than half of the material is | | | CLEAN SA | NDS | SV | W | W | ell grad | ed sand | s, grave | elly sands, little | e or no fines |
| larger than the No. 200 sieve | More the co | than half of | (Less than 5% | fines) | S | Р | Poo | orly grad | ded sand | ds, grav | elly sands, litt | le or no fines |
| | is sma | aller than the | SAND | | SI | М | S | silty sar | nds, sano | d-silt m | ixtures, non-p | lastic fines |
| | No | o. 4 sieve | WITH FIN | IES | S | С | | Clayey | sands, s | and-cla | y mixtures, pl | astic fines |
| | | | | | М | L | Inor | ganic s sand | ilts and s or clay | very fir /ey silts | ne sands, silty with slight pl | or clayey fine asticity |
| FINE | | SILTS AN Liquid limit | D CLAYS less than 50 | | C | L | Inorga | nic clay s | /s of lov andy cla | v to me iys, silt | dium plasticity y clays, lean cl | y, gravelly clays, ays |
| SOILS | | - | | | 0 | L | Org | ganic si | lts and o | organic | silty clays of l | ow plasticity |
| More than half of the material is | | | | | М | Н | Inorga | nic silts | s, micac silt | eous or y soils, | diatomacaceo elastic silts | us fine sandy or |
| smaller than the No. 200 sieve |] | SILTS AN Liquid limit g | D CLAYS |) | C | Н | | Inorg | anic cla | ys of hi | gh plasticity, f | at clays |
| | | 1 0 | | | 0 | Н | Orga | nic clay | s of me | dium to | high plasticit | y, organic silts |
| HIG | HLYO | ORGANIC SO | DILS | | Р | 't | | Р | eat and | other hi | ighly organic s | oils |
| | | | GRAIN | 1 | SIZE | | LIMIT | S | | | | |
| | | | SAND | | | | GRA | VEL | | | | |
| SILT AND CLA | ΑY | FINE | MEDIUM | COA | RSE | FI | NE | COA | RSE | С | OBBLES | BOULDERS |
| | No. 20 | 00 No. 4 | 40 No. 1 US | 10 STANE | No. 4 DARD | SIEVE | 3/4 in SIZE | 1. | 3 in | | 12 | in. |
| ρει ατινε | DEN | ISITV | | C | ONSIS | TENC | ۲V | | | MO | ISTURE C | |
| SAND AND GRA | VEL | BLOWS/FT* | S | ILT AN | ID CLA | Y | BLOW | /S/FT* | | C | | ORY |
| VERY LOOSE | | 0 - 4 | | VERY | SOFT | | 0 - | - 2 | | L | М | OIST |
| LOOSE | | 4 - 10 | | SC |)FT | | 2 - | - 4 | | A Y | SATU | JRATED |
| MEDIUM DENS | E | 10 - 30 | | FI | RM | | 4 - | - 8 | | c | Γ | DRY |
| DENSE | | 30 - 50 | | ST | IFF | | 8 - | 16 | | A | D | AMP |
| VERY DENSE | | OVER 50 | | VERY | STIFF | | 16 - | - 32 | | Ν | ١ | VET |
| 4 X 1 A 1 4 . . | 10 | | | HA | RD | 1.2/2 : | OVE | R 32 | | D | SATU | JRATED |
| * Number of blows of 14 | 40 pound | I hammer falling | 30 inches to driv | ve a 2 inc | ch O.D. (| 1 3/8 in | ch I.D.) s | plit spo | on (AST | M D-158 | 56). | 1 |
| | | BUTANO | GEOTECHN | ICAL | ENGIN | EERI | NG, IN | C. | | | | FIGURE |
| | | | | | | | | | | | | B-3 |

| | | | | LOG OF EXP | LORATORY | BORI | NG | | | | | | | |
|----------------------------------|-----------------|------------|------------|--|---------------------------------|------------|-------------------|------------------|----------------|--------------|------------------|----------------------|-------------|---------------|
| Proj Proj | ect No. ect: | .: | 21- 220 | 173-SC)2 Soquel | Boring: Location: | | B 1 | | | | | | | |
| Date Logg | : ged By | : | Ma GB | y 4, 2021 | Elevation: Method of Drillin | ıg: | 6 incl truck | n diame mount | eter so | lid stei | n auge | er, | | |
| (; | e | ed | | 2" Ring Sample 2.5" Ring Terzaghi Split Sample Spoon Sample | Bulk Sample | oot | | (pcf) | ent (%) | ndex | ó fines) | l _u (psf) | Atte Lir | rberg nits |
| Depth (ft. | Soil Type | Undisturbe | Bulk | Perched Water ∑ Static Water ∑ Water Er Table Table During I Change in Soil Gradation or Minor Classification Change in Classification Description | ncountered Y Drilling | Blows / Fc | N_{60} | Dry Density | Moisture Conte | Expansion Ir | Particle Size (% | Unconfined - g | L.L. | .I.q |
| | SM (FILL) | | | Grayish brown Silty SAND, medium dense trace gravel (FILL) | , damp, | 19 | 15 | | 18.9 | | | | | |
| - <u>-</u> - 5 | BR | | | Grayish brown purisma formation sandston | e, | 19 | 15 | | 29.3 | | | | | |
| medium dense, weathered, friable | | | | | | | | | | | | | | |
| -10- - — | | | | very dense | | 50/6" | N/A | | 30.2 | | | | | |
| | | | | Boring terminated at a depth of 10 1/2 feet. No groundwater encountered during drilling | g. | | | | | | | | | |
| - 15- | | | | | | | | | | | | | | |
| - 20- | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| - 25- - 25- | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| - 30- | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | <u> </u> | <u> </u> | BUTANO GEOTECHNIC | AL ENGINEERIN | NG, IN | С. | | L | | | • | FIG B | URE -4 |

| | | | | LOG OF EX | EXPLORATORY | BORI | NG | | | | | | | |
|----------|----------------------|----------|----------|---|----------------------------|----------|----------|---------|----------|----------|-----------|----------------------|-------------|---------------|
| Proj | ect No | .: | 21- | 173-SC | Boring: | | B2 | | | | | | | |
| Proj | ect: | | 220 | 02 Soquel | Location: | | | | | | | | | |
| | | | | | Elevation: | | | | | | | | | |
| Date | : | | Ma | y 4, 2021 | Method of Drillin | ng: | 6 incl | n diam | eter so | lid ster | m auge | er, | | |
| Log | ged By | : | GB | | | 1 | truck | mount | ed | | 1 | | | |
| t.) | be | bed | | 2" Ring 2.5" Ring Terzaghi Spl Sample Sample Spoon Samp | lit Bulk le Sample | loot | | / (pcf) | tent (%) | Index | % fines) | q _u (psf) | Atte Lir | rberg nits |
| Depth (f | Soil Ty _l | Indistur | Bulk | Perched Water \searrow Static Water \sum WateTableTableDurin | r Encountered The prilling | lows / F | N_{60} | Density | ure Con | ansion | le Size (| nfined - | j | I. |
| | | C | | Change in Soil Gradation or Min Classification Change in Classi Description | nor fication | В | | Dry | Moist | Exp | Particl | Unco | L.J | P. |
| | SM (FILL) | | | 2 inches of AC, 14 inches of AB Grayish brown Silty SAND with gravel, | medium dense, | 37 | 13 | | 15.7 | | | | | |
| | | | | damp (FILL) | | 20 | 16 | | 22.3 | | | | | |
| - 5 | | | | | | 28 | 24 | | 22.3 | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | 19 | 15 | | 27.5 | | | | | |
| | | | | encountered cobble sized clast at 10 feet | (FILL) | | | | | | | | | |
| | | | | | | | | | | | | | | |
| - 15- | SC | | | Dark brown Clayey SAND, loose, wet (A | Alluvium) | 5 | 4 | | 52.5 | | | | | |
| | | | | | | | | | | | | | | |
| | BR | | 1 | Gray purisima formation sandstone, very | dense, | 50/6" | N/A | | 29.3 | | | | | |
| | | | | weathered, fine grained | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| - 25- | | |] | | | 50/6" | N/A | | 29.7 | | | | | |
| | | | | Boring terminated at a depth of 26 feet. No groundwater encountered during drill | ling. | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| - 35- | | | | | | | | | | | | | | |
| | | <u>I</u> | <u> </u> | BUTANO GEOTECHN | IICAL ENGINEERI | NG, IN | C. | | <u>I</u> | <u> </u> | <u> </u> | <u> </u> | FIG B | URE -5 |
| | | | | | | | | | | | | | | |

| Project No. 21-173-SC Boring: B3 Project 2020 Sopul Location: Headmin: Date: May 4, 2021 Method of Drilling: 6 inch diameter solid stem auger. Togged By: CB Tock mounted Image: Solid Stample Method of Drilling: Sinch diameter solid stem auger. Togged By: CB CB Tock mounted Image: Solid Stample Method of Drilling: Image: Solid Stample Method Stample <t< th=""><th></th><th></th><th></th><th></th><th>LC</th><th>G OF EXP</th><th>LORA</th><th>FORY I</th><th>BORI</th><th>NG</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<> | | | | | LC | G OF EXP | LORA | FORY I | BORI | NG | | | | | | | |
|--|---------------|----------------|----------|------------|---|--|---------------------------------|----------------|-----------|-----------------|-------------------|---------------|-----------|-----------------|----------------------|-------------|---------------|
| Date: May 4, 2021 Method of Drilling: 6 inch diameter solates area mager. Logged By: GB 23° Ring [] 23° Ring [] 10° 23° Ring [] <td< td=""><td>Proj Proj</td><td>ect No ect:</td><td>.:</td><td>21- 220</td><td>173-SC 2 Soquel</td><td></td><td>Boring: Location Elevatio</td><td>n: n:</td><td></td><td>B3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | Proj Proj | ect No ect: | .: | 21- 220 | 173-SC 2 Soquel | | Boring: Location Elevatio | n: n: | | B3 | | | | | | | |
| Oppose Participation Constraints Constraints Constraints Attechenge Stample Sample | Date Log | : ged By | : | Ma GB | y 4, 2021 | | Method | of Drillin | g: | 6 incl truck | n diame mounte | eter so ed | lid stei | m auge | er, | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | t.) | be | bed | | 2" Ring Sample 2.5" Ring Sample | Terzaghi Split Spoon Sample | \square | Bulk Sample | loot | | / (pcf) | tent (%) | Index | % fines) | q _u (psf) | Atte Lir | rberg nits |
| SM 3 inches AC, 10 inches AB 24 20 20 1 1 1 SM Gray Sitly SAND with trace gravel, medium dense, damp 501° N/A 1 | Depth (1 | Soil Ty | Undistur | Bulk | Perched Water Change in Soil G Classification Change Den | r ♀ Water E During I radation or Minor hange in Classifica scription | ncountered Drilling ation | Y | Blows / F | N_{60} | Dry Density | Moisture Con | Expansion | Particle Size (| Unconfined - | L.L. | P.I. |
| 5 011° NA 0 0 0 1 1 Auger refusal on nubble at a depth of 5 1/2 feet. 1 | | SM (FILL) | | | 3 inches AC, 10 inches AB Gray Silty SAND with trace damp | gravel, mediur | n dense, | | 24 | 20 | | | | | | | |
| Auger refusal on rubble at a depth of 5 1/2 feet. No groundwater encountered during drilling. 10- 10- 10- 10- 10- 10- 10- 10- | - 5- | | | | | | | | 50/1" | N/A | | | | | | | |
| BUTANO GEOTECHNICAL ENGINEERING, INC. FIGURE B-6 | - $ -$ | | | | Auger refusal on rubble at a No groundwater encountered | depth of 5 1/2 I during drilling | feet. g. | | | | | | | | | | |
| | | - <u> </u> | - | | BUTANO C | BEOTECHNIC | AL ENG | INEERIN | IG, IN | С. | | | • | - <u> </u> | | FIG B | URE -6 |

| | LOG OF EXPLORATOR | RY BOR | ING | | | | | | | |
|------------------------------------|--|----------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--------------|---------------|
| Project No.: Project: | 21-173-SCBoring:2202 SoquelLocation:Elevation: | | B4 (1 | of 2) | | | | | | |
| Date: Logged By: | GB Method of Di | rilling: | 6 incl truck | n diame mount | eter so ed | lid stei | m auge | r, | | |
| t.) De | 2" Ring Sample 2.5" Ring Sample Terzaghi Split Spoon Sample Bulk Sample | le jo | | í (pcf) | tent (%) | Index | % fines) | q _u (psf) | Atter Lir | rberg nits |
| Depth (f Soil Ty Undistur | [™] / _{Table} [™] / _{Table} [™] / _{Table} [™] / _{Table} [™] / _{Water} [™] / _{During} [™] / _{Du} | - Blows / F | N_{60} | Dry Density | Moisture Con | Expansion | Particle Size (| Unconfined - | L.L. | P.I. |
| - — SM - —(FILL) - — - 5— | Gray Silty SAND, loose, damp (FILL) | | | | | | | | | |
| | | 8 | 6 | | 18.5 | | | | | |
| sc - 15- | Gray Clayey SAND, loose, saturated (Alluvium) | 6 | 4 | | 37.9 | | | | | |
| - 20- sc | Dark gray Clayey SAND with seams of silty sand, | 6 | 4 | | 35.6 | | | | | |
| - 25- - SM | Gray Silty SAND, medium dense | 13 | 10 | | 36.1 | | | | | |
| CL - 35- | Blueish gray Sandy Lean CLAY, stiff | 35 | 8 | | 31.6 | | | | | |
| | BUTANO GEOTECHNICAL ENGINER | ERING, IN | C. | | | | | | FIG B- | URE •7a |

| Project No.: 21-173-SC Boring: B4 (2 of 2) Project : 2202 Soquel Location: Elevation: Date: May 4, 2021 Method of Drilling: 6 inch diameter solid stem auger, truck mounted Logged By: GB Change in Soli 25° Ring 25° Ring Sample Sample Bulk Bulk or CL CL Sample 25° Ring Change in Soli Change in Soli Crange in Soli Ordalisation or Minor Change in Soli Change in Soli Crange in Soli Ordalisation or Minor Main Image of the second s | | | | | LOG OF E | XPLORATORY | BORI | ING | | | | | | | |
|--|--|------|----------|------------|--|---|-----------|-----------------|------------------|---------------|-----------|-----------------|----------------------|-------------|---------------|
| Date: May 4, 2021 Method of Drilling: 6 inch diameter solid stem auger, truck mounted GB GB GB GB GB GB GB GB | Project N Project: | No.: | | 21- 220 | 173-SC D2 Soquel | Boring: Location: Elevation: | | B4 (2 | 2 of 2) | | | | | | |
| integration | Date: Logged l | By: | | Ma GB | y 4, 2021 | Method of Drillir | ıg: | 6 incl truck | h diame mount | eter so ed | lid ste | m auge | er, | | |
| question h | ît.) De | , . | bed | | 2" Ring 2.5" Ring Terzaghi S Sample Sample Sample Spoon Sam | plit Bulk ple Sample | Toot | | y (pcf) | tent (%) | Index | % fines) | q _u (psf) | Atte Liı | rberg nits |
| CL Straight drilled from 35 feet to 51 feet | Depth () Soil Tv | | Undistur | Bulk | Perched Water ∑ Static Water ∑ Water ∑ Table Table Dur Change in Soil Gradation or M Classification Description | ter Encountered ring Drilling linor sification | Blows / I | N_{60} | Dry Densit; | Moisture Con | Expansion | Particle Size (| Unconfined - | L.L. | P.I. |
| | CI | R | | | Straight drilled from 35 feet to 51 feet Gray purisima formation sandstone Boring terminated at a depth of 52 feet. Groundwater encountered at a depth of | 12 feet during drilling | | | | 39.3 | | | | | |
| | - <u></u> - 70- | | | | BUTANO GEOTECH | NICAL ENGINEERIN | NG, IN | C. | | | | | | FIG | URE |

| | | LOG OF | EXPLORATORY | BORI | NG | | | | | | | |
|---|------------|---|--|-----------|-----------------|------------------|---------------|-------------|------------------|----------------------|--------------|---------------|
| Project No.: Project: | 21- 220 | -173-SC 02 Soquel | Boring: Location: Elevation: | | B5 | | | | | | | |
| Date: Logged By: | Jul GE | y 20, 2021 3 | Method of Drillin | ng: | 6 incl truck | n diame mount | eter so ed | lid ster | n auge | r, | | |
| t.) be | 201 | 2" Ring Sample 2.5" Ring Terzag Sample Spoon | sample Bulk | oot | | (pcf) | ent (%) | ndex | % fines) | q _u (psf) | Atter Lir | rberg nits |
| Depth (fi Soil Ty _F | Bulk | Perched Water ∑ Static Water ∑ Table Table Change in Soil Classification Change in Description | Water Encountered During Drilling or Minor Classification | Blows / F | N ₆₀ | Dry Density | Moisture Cont | Expansion I | Particle Size (9 | Unconfined - | L.L. | P.I. |
| - — SM - —(FILL) - — | | 2 inches AC over 6 inches AB Grayish brown Silty SAND, mediur trace gravel (FILL) | n dense, damp, | 38 | 34 | | 17.2 | | | | | |
| | | | | 9 | 7 | | 11.1 | | | | | |
| - 10- BR BR | | Grayish brown purisma formation sa medium dense, weathered, friable | andstone, | - 50/5" | NA | | 30.9 | | | | | |
| - 15- | | | | 50/4" | NA | | 27.2 | | | | | |
| - 20- - 20- - 25- | | Boring terminated at a depth of 16 f No groundwater encountered during | feet. 9 drilling. | | | | | | | | | |
| | | BUTANO GEOTE | CHNICAL ENGINEERI | NG, IN | C. | | | | | | FIG B | URE -8 |

| | LOG OF EXPLORATORY | BOR | ING | | | | | | | |
|--|--|-----------|-----------------|------------------|---------------|-------------|------------------|----------------------|-------------|---------------|
| Project No.: 21-17 Project: 2202 | 3-SC Boring: Soquel Location: Elevation: | | B6 | | | | | | | |
| Date: July 2 Logged By: EJ | 20, 2021 Method of Drilli | ng: | 6 incl truck | h diame mount | eter so ed | lid ster | m auge | er, | | |
| bed | 2" Ring Sample 2.5" Ring Sample Terzaghi Split Spoon Sample Bulk Sample | oot | | (pcf) | ent (%) | index | % fines) | q _u (psf) | Atte Lir | rberg nits |
| Depth (f) Soil Tyr Undisturt Bulk | Perched Water Static Water Water Water Encountered Y Fable Table During Drilling hange in Soil Gradation or Minor lassification Change in Classification Description | Blows / F | N ₆₀ | Dry Density | Moisture Cont | Expansion I | Particle Size (9 | Unconfined - | T.L. | P.I. |
| SM (FILL) (FILL) (FILL) (FILL) | inches of AC, 5 inches of AB rayish brown Silty SAND, medium dense, damp, ace gravel (FILL) | 16 | 13 | | 23.8 | | | | | |
| | edium dense | 16 | 13 | | 18.6 | | | | | |
| | rown Silty SAND, very loose, wet Alluvium) | 4 | 3 | | 27.0 | | | | | |
| - 15- SC - BI | lack Clayey SAND/ Sandy Lean CLAY, firm 🗸 | 7 | 5 | | 24.2 | | | | | |
| 20- BR GI | rayish brown purisma formation sandstone, | 50/3" | | | 53.0 | | | | | |
| Ba Ba - 25- the | oring terminated at a depth of 21 1/2 feet. roundwater measured at a depth of 18 feet at e conclusion of drilling. | | | | | | | | | |
| | BUTANO GEOTECHNICAL ENGINEERI | NG, IN | C. | | | | | | FIG B | URE -9 |

| | | | LOG OF EX | XPLORATO | RY BC | ORI | NG | | | | | | | |
|---------------------------------------|-----------|------------|--|---|-----------|------------|-----------------|------------------|---------------|-------------|------------------|----------------------|--------------|---------------|
| Project No.: Project: | | 21- 220 | 173-SC 2 Soquel | Boring: Location: Elevation: | | | B7 | | | | | | | |
| Date: Logged By: | | July EJ | y 20, 2021 | Method of I | Drilling: | | 6 incł truck | n diame mount | eter so ed | lid ster | m auge | er, | | |
| e . | ed | | 2" Ring Sample 2.5" Ring Terzaghi Sp Spoon Sample Spoon Samp | plit Bulk ple Sam | c ple | oot | | (pcf) | ent (%) | ndex | ó fines) | ł _u (psf) | Atter Lir | rberg nits |
| Depth (ft Soil Typ | Undisturb | Bulk | Perched Water ↓ Static Water ↓ Water ↓ Table ↓ Duri Change in Soil ↓ ↓ Gradation or Mic Classification ↓ Change in Class Description ↓ ↓ | er Encountered ng Drilling nor ification | | Blows / Fe | N_{60} | Dry Density | Moisture Cont | Expansion I | Particle Size (9 | Unconfined - 0 | T.L. | .I.q |
| - — SM - —(FILL) - — | | | 4 inches of AC over 6 inches of AB Grayish brown Silty SAND, loose, damp trace gravel (FILL) | p, | | 19 | 15 | | 24.7 | | | | | |
| - 5 · · · · · · · · · · · · · · · · · | | | loose, with gravel and cobble from 6 to | 10 feet | | 12 | 9 | | 10.1 | | | | | |
| - 1 0- | | | | | | 2 | 1 | | 11.3 | | | | | |
| - 1 5 - SM - | | | Brown Silty SAND, very loose, wet (Alluvium) | Ā | | 6 | 5 | | 19.8 | | 31 | | | |
| - 2 0 - | | | | | | | | | | | | | | |
| - 25- BR | Τ | | Grayish brown purisma formation sands medium dense, weathered, friable | tone, | 50 | 0/1" | | | 34.6 | | | | | |
| | | | Boring terminated at a depth of 26 feet. Groundwater measured at a depth of 18 the conclusion of drilling. | feet at | | | | | | | | | | |
| | | | BUTANO GEOTECHN | NICAL ENGINE | ERING | , INO | C . | | | | | | FIG B- | URE ·10 |

| | | | LOG OF EXI | PLORATORY | BOR | ING | | | | | | | |
|----------------------------------|---------|------|--|----------------------------------|----------|-------------------|---------|----------|----------|-----------|----------------------|-------------|---------------|
| Project No.: | | 21- | 173-SC | Boring: | | B8 (1 | of 2) | | | | | | |
| Project: | | 220 |)2 Soquel | Location: | | | | | | | | | |
| Date: | | Inb | v 20 2021 | Method of Drillir | 10. | 6 incl | n diam | eter so | lid ster | n allge | r | | |
| Logged By: | | EJ | 5 20, 2021 | | -8. | truck | mount | ed | na stor | in uuge | -, | | |
| t.) De | bed | | 2" Ring Sample 2.5" Ring Terzaghi Split Spoon Sample | Bulk Sample | oot | | (pcf) | ent (%) | Index | % fines) | q _u (psf) | Atte Lir | rberg nits |
| Jepth (f Soil Ty _I | ndistur | Bulk | Perched Water 💥 Static Water 💆 Water I Table Table During | Encountered T Drilling | lows / F | N_{60} | Density | are Cont | ansion] | e Size (' | - paulu | i | |
| | D | | Change in Soil Gradation or Mino Classification Change in Classifi Description | r cation | B | | Dry | Moistı | Exp | Particl | Uncor | L.I | P.1 |
| - — SM - —(FILL) - — | | | 3 inches of AC over 5 inches of AB Grayish brown Silty SAND, medium dens trace gravel (FILL) | e, damp, | 25 | 21 | | 24.2 | | | | | |
| - 5 | | | | | 23 | 19 | | 6.1 | | | | | |
| | | | | | | | | | | | | | |
| - 10 | | | | | 19 | 15 | | 21.1 | | | | | |
| | | | | | | | | | | | | | |
| - 15- CL | Π | | Black Lean CLAY, firm, very moist (Alluvium) | Ā | 9 | 7 | | 23.3 | | | | | |
| SC | | | Clayey SAND, medium dense | | 13 | 10 | | 75.4 | | | | | |
| - 25- | | | | | | | | | | | | | |
| | | | Black Silty SAND, medium dense, saturat | ed | 13 | 12 | | 28.0 | | 14 | | | |
| | | | BUTANO GEOTECHNI | CAL ENGINEERIN | NG, IN | C. | | | | | | FIG B- | URE 11a |

| LOG OF EXPLORATORY BORING | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|--------------------------|--|---|--|-----------------|------------|--------------|-----------|---------------|------------|--|----------------|------|--|-------|-----------|-------|-----------|------------------------|--------------|---------------|
| Project No.: Project: | | 21-173-SC 2202 Soquel | | Boring: Location: Elevation: | | B8 (2 of 2) | | | | | | | | | | | | | | | | |
| Date: Logged By: | | Jul <u>y</u> EJ | y 20, 2021 | Method of Drillir | 6 inch diameter solid stem auger, truck mounted | | | | | | | | | | | | | | | | | |
| Depth (ft.) Soil Type IIndistmhed | bed | Bulk | | | | | | | | | | 2" Ring Sample 2.5" Ring Terzaghi Split Spoon Sample | Bulk Sample | Foot | | (pcf) | itent (%) | Index | (% fines) | . q _u (psf) | Atter Lir | rberg nits |
| | Undistur | | Perched Water Water Water I Static Water V Water I Table Table During Change in Soil Gradation or Mino Classification Change in Classific Description | ater Encountered uring Drilling Minor assification | Blows /] | N ₆₀ | Dry Densit | Moisture Cor | Expansion | Particle Size | Unconfined | L.L. | P.I. | | | | | | | | | |
| | | | Black Lean CLAY, firm, saturated | | 6 | 6 | | 20.6 | | | | | | | | | | | | | | |
| - 4 5 - | | | | | | | | | | | | | | | | | | | | | | |
| - — - 50- - — BR | | | Gray purisima formation sandstone | | | | | 18.5 | | | | | | | | | | | | | | |
| | | | Boring terminated at a depth of 50 feet. Groundwater encountered at a depth of 16 drilling. | feet during | | | | | | | | | | | | | | | | | | |
| BUTANO GEOTECHNICAL ENGINEERING, INC. | | | | | | | | | | FIG B- | URE 11b | | | | | | | | | | | |

| LOG OF EXPLORATORY BORING | | | | | | | | | | | | | | | | | | |
|---|-----------|---|--|---|--|----------------------|----------------|-----------------|---|-------------|------------|-------|----------|----------------------|-------------|---------------|--|--|
| Project No.: Project: Date: Logged By: | | 21-173-SC 2202 Soquel | | | Boring Locati Elevat | | | | | B9 (1 of 2) | | | | | | | | |
| | | Jul JC | y 22, 2021 | | Method of Drilling: | | | ıg: | 8 inch diameter solid stem auger, truck mounted | | | | | | | | | |
| tt.) De | bed | | 2" Ring Sample 2.5" Ring Ter Sample Sample Sp | Terzaghi Spoon Sa | i Split ample | \square | Bulk Sample | loot | | (pcf) | tent (%) | Index | % fines) | q _u (psf) | Atte Lir | rberg nits | | |
| Depth (f Soil Tyj | Undisturl | Perched Water Static Water Water Encountered Table Table During Drilling Change in Soil Gradation or Minor Classification Description | Blows/ | N_{60} | Dry Density | Moisture Con | Expansion | Particle Size (| Unconfined - | L.L. | Ρ.Γ. | | | | | | | |
| - SM (FILI | | | 3 inches of A Grayish brow trace gravel (straight drille 50 feet. | C over 5 inch yn Silty SANI FILL) ed from the su | nes of AB D, mdium d urface to a d | lense, d lepth of | lamp, | 5 feet | | | | | | | | | | |
| BUTANO GEOTECHNICAL ENGINEERING, INC. | | | | | | | | | | FIG B- | URE 12a | | | | | | | |

| LOG OF EXPLORATORY BORING | | | | | | | | | | | | |
|--|--------------------------|--|------------------------------------|---|-------------|--------------|---------------------|---------------|--------------|------------------------|-------------|---------------|
| Project No.: Project: Dete: | 21-173-SC 2202 Soquel | | Boring: Location: Elevation: | | B9 (2 of 2) | | | | | | | |
| Logged By: | JC | y 22, 2021 | | 8 inch diameter hollow stem auger, truck mounted | | | | | | | | |
| ft.) pe bed | | 2" Ring Sample 2.5" Ring Sample Terzaghi Split Spoon Sample Bulk Sample Perched Water Table Static Water Table Water Encountered During Drilling ¥ Change in Soil Classification Gradation or Minor Change in Classification Description | Bulk Sample | oot | | (pcf) | itent (%) | Index | (% fines) | · q _u (psf) | Atte Lir | rberg nits |
| Depth (Soil Ty Undistur | Bulk | | Blows / | N_{60} | Dry Densit | Moisture Cor | Expansion | Particle Size | Unconfined - | L.L. | .I.q | |
| | | Gray purisima formation sandstone | | 50/4" | | | 26.2 <u>31.1</u> | | | | | |
| | | Boring terminated at a depth of 52 1/2 feet Groundwater was sealed out during drilling not recorded. | g and | | | | | | | | | |
| BUTANO GEOTECHNICAL ENGINEERING, INC. FI | | | | | | | | | | FIG B- | URE 12b | |





APPENDIX C

LABORATORY TESTING PROGRAM

Laboratory Testing Procedures

Page C-1

Particle Size Analysis

Figures C-1 to C-4

August 4, 2021 Project No. 21-173-SC Page C-1

LABORATORY TESTING PROCEDURES

Classification

Soils were classified according to the Unified Soil Classification System in accordance with ASTM D 2487 and D 2488. Moisture content and density determinations were made for representative samples in accordance with ASTM D 2216. Results of moisture density determinations, together with classifications, are shown on the Boring Logs, Figures B-3 through B-12b.

Particle Size Analysis

Four sieves were performed on representative sample in accordance with ASTM C 117 and C 136. The grain size distributions from the results of the particle size analyses are shown on Figures C-1 through C-4.










SUPPLEMENTAL CONDITIONS

EXHIBIT "C"



SUPPLEMENTAL & SPECIAL CONDITIONS PROJECT 23TI-064

The Supplemental Conditions enumerated below shall be applicable to the noted Project above and shall be enforced by County Facilities Maintenance & Project Operations with the support of County Risk Management and Counsel.

- 1. Contractor (Bidder) <u>MUST</u> ensure ALL Workers onsite are wearing Safety PP&E which will include Hardhats, orange or bright green safety vests, steel toed shows, jeans or other applicable work pants, appropriate work shirt preferably with the Contractor name written on said shirt, safety glasses, and safety gloves, and ear protection when applicable.
- Contractor (Bidder) <u>MUST</u> abide by COVID 19 Compliance regulations if and when enforced. If enforced, while walking to and from the work site or outside the work site during the day said Contractor shall ensure all Crew have and wear proper face coverings. While in the work zone area Contractor can remove face coverings if Contractor policy permits. (Applicable to Interior Remodel or Renovation Projects)
- 3. The successful Contractor (Bidder) <u>is required</u> to obtain and submit a "Payment & Performance" Bond for 100% of the project Bid Value. A "Performance Bond" is required if the value of the project exceeds \$10,000. A "Payment Bond" is required if the value of the project exceeds \$25,000. Payment and Performance Bonds are required to be submitted with the Bid. These will be requested of the apparent successful Bidder during Post Bid proceedings.
- 4. This project will be registered with the Department of Industrial Relations (DIR) and assigned a DIR # if the project value exceeds \$25,000. County General Services Department (GSD) will issue that # to the successful Contractor (Bidder).
- 5. Contractor (Bidder) shall start work at 8:00 am and cleanup the work site daily beginning at 3:30 pm. Contractor (Bidder) shall be offsite by 4:00pm unless authorized to work overtime. *Project Work Hours can be deviated if the Sponsoring Department and End Users agree on the work schedule change proposed by the Contractor (Bidder).*
- 6. Materials and equipment shall be staged accordingly as discussed with the Sponsoring Department.
- 7. Contractor (Bidder) shall define the required staging and laydown area(s) required for the duration of the project. Area shall be adequately delineated, and proper signage installed if applicable.
- 8. The successful Contractor (Bidder) **SHALL** collaborate with **ALL** applicable County Departments and Representatives to include Facilities Maintenance & Project Operations.
- 9. Contractor (Bidder) shall maintain a safe site and comply with OSHA Regulations.



County of Santa Cruz GENERAL SERVICES DEPARTMENT

FACILITIES MAINTENANCE & PROJECT OPERATIONS 1110 EMELINE AVENUE, SANTA CRUZ, CA 95060-4073

- 10. Contractor (Bidder) is obligated to comply with applicable building codes and county ordinances.
- 11. Contractor (Bidder) is responsible for the project schedule which includes a baseline, monthly progress, and look ahead schedules throughout the project duration.
- 12. Change Conditions shall be discussed in advance of Contractor (Bidder) submitting any "Proposed Change Order" to Facilities Maintenance & Project Operations. ALL "Proposed Change Orders" MUST be submitted with applicable supporting documentation.
- 13. Contractor (Bidder) shall, at appropriate project intervals, schedule Facilities Maintenance & Project Operations to conduct a trades specific building inspection ensuring means & methods performance meets code requirements. These observations are equivalent to a typical inspection activity from the Agency Having Jurisdiction for enforcement of applicable codes.
- 14. Facilities Maintenance & Project Operations will inspect the quality and progress of the Contractor (Bidder) work at irregular intervals.
- 15. Contractor (Bidder) shall use the County "Progress Payment Schedule of Values" when submitting for payment. Payments can be submitted at agreed upon intervals during the Applications project. Progress Payment MUST be submitted to GSDFacilities@santacruzcountyca.gov with copy to Kristine Conley at Kristine.conley@santacruzcountyca.gov and prior to submitting a formal Progress Payment Application the Contractor (Bidder) shall submit a "Pencil Draft" copy to the assigned Facilities Maintenance & Project Operations Building Project Manager and Field Facilitator for review and comment.
- 16. Contractor (Bidder) is required by the County to pay both prevailing wages and ensure a "Living Wage" is paid to all who work on this project.
- 17. Contractor (Bidder) is required to submit Certified Payroll with all submitted invoices and/or payment applications.
- 18. Contractor (Bidder) will carry a current and in good standing State of California Contractors License for the work performed.
- 19. Contractor (Bidder) MUST be a registered Vendor of the County of Santa Cruz and have in possession prior to submitting a Bid or after award a Vendor #.
- 20. Contractor (Bidder) shall submit applicable certificates of insurance (COI).
- 21. Contractor (Bidder) will review and execute an Independent Contracting Agreement (ICA) when issued by County General Services Department (GSD) or be issued a Purchase Order (PO). Both bind the Contractor (Bidder) and County to the documents and terms and conditions of the project.
- 22. Project warranty on material and labor shall be extended to the County by the Contractor (Bidder) during closeout of the project. Warranty on labor and materials shall be separately defined.
- 23. Taxes (if applicable) shall be included in the Contractor (Bidder) Bid.
- 24. Facilities Maintenance & Project Operations shall provide to the Contractor a "Notice of Substantial Completion" at a time when the majority of the contracted work is completed and a "Punch List" of the work is scheduled.



25. Contractor (Bidder) before receiving "Retention" payment MUST have completed work to include "Punch Items" and formally submitted ALL closeout required materials and/or documents to include Warranty. AT such time County will issue a "Notice of Completion".

SPECIAL CONDITIONS:

- A. This is an abandoned facility on county property identified as 2202 & 2250 Soquel Ave. The property is adjacent to a high traffic commuter street as well as across the street from a school. Traffic control and any access restrictions shall be approved by the project manager and appropriate county agencies.
- B. Contractor (Bidder) will be responsible for security and housekeeping for the site.
- C. Contractor (Bidder) shall be responsible for all Storm Water Protection Protocol (SWPP) during the project.
- D. The Contractor (Bidder) will hold under their contract an Abatement Contractor in advance of any demolition work and will remove all identified hazardous materials.
- E. Contractor (Bidder) shall provide their own site Porta Toilets and adequate servicing operations for the toilets.



EXISTING CONDITION PHOTOGRAPHS

EXHIBIT "D"



EXISTING CONDITION PHOTOGRAPHS

PROJECT 23TI-064

BUILDING DEMOLITION & SITE GRADING





























SCOPING OF WORK

EXHIBIT "E"



County Of Santa Cruz GENERAL SERVICES DEPARTMENT

FACILITIES MAINTENANCE & PROJECT OPERATIONS 1110 EMELINE AVE, SANTA CRUZ, CA 95060 (831) 454-5251 or (831)454-5255

SANTA CRUZ COUNTY FACILITIES MAINTENANCE & PROJECT OPERATIONS

SCOPING DOCUMENT

BUILDING DEMOLITION & SITE GRADING 2022 Soquel Avenue, Santa Cruz, CA

PROJECT #23TI-064

December 15, 2023

*PURCHASING * ENERGY MANAGEMENT *CONSTRUCTION PROJECT MANAGEMENT *FACILITIES MAINTENANCE * FLEET SERVICES *EMERGENCY SERVICES *WAREHOUSE SERVICES *CUSTODIAL SERVICES *COUNTY FIRE SERVICES *COUNTY SAFETY



FACILITIES MAINTENANCE & PROJECTS OPERATIONS

PURPOSE:

This is the former site of the Harbor Veterinary Clinic located at 2202 Soquel Avenue, Santa Cruz, CA 95062. The building has been determined to be in poor condition and will be torn down. The lot is owned by the County of Santa Cruz, who has full site control over the property. Geological testing and environmental studies have been conducted.

The building, lot and parking are adjacent to the County of Santa Cruz Psychiatric Health Facility, which is comprised of two programs: A 16-bed, locked inpatient psychiatric unit for adults, and a 14-chair Crisis Stabilization Program for Youth and Adults who are assessed with a disposition plan developed within 24-hours of admission. Youth and Adults in the Crisis Stabilization Program are there on an involuntary hold, called a 5150. The building at 2202 Soquel will be demolished to provide space for a future use of the property, not included in the bid.

The County of Santa Cruz has developed this project Bid Package specifically in an effort to solicit qualified Contractors to review the supporting documents, participate in the Pre-Bid Job Walks, submit when applicable Pre-Bid RFI's, and compile a "Fair Market" competitive and complete Bid.

The Contractor will execute the work professionally and with an industry expected level of acceptable quality. The County of Santa Cruz submits this scoping document as a supporting document in Project 23TI-064 Bid Package.

SCOPE OF WORK:

Phase 1- Demolition

The bid shall be inclusive of the demolition of the exiting building, substructures and fencing within the building footprint. The contractor will be responsible for all entitlements, permitting, and fees associated with the demolition, with full reimbursement by the county. The bid will also include demo and disposal of all materials. The building has been tested for asbestos and hazardous materials, see attached report.

The successful bidder (Contractor) shall be responsible to disconnect, safe-off existing utilities per the Santa Cruz County Building Codes, Santa Cruz County Design Criteria (Sanitation Division & Storm Water), City of Santa Cruz Water Department Standards, and other applicable standards.

Santa Cruz County Demolition Requirements:

- All portions of the structure, including the foundation, shall be removed.
- All debris shall be removed from the lot and no debris from the demolished structure shall be visible on nearby property.
- The land shall be graded to a consistent grade, which provides adequate drainage.
- No debris shall be buried.
- No debris shall be burned.
- If connection to a public sewer exists, the building sewer shall be plugged or capped in an approved manner within 5 feet of the property line.
- All utility terminations shall be coordinated by the contractor with the utility owner and all terminations shall meet the applicable code standards. Post safe-off inspections will be conducted.
- The project shall implement best practices and other measures taken as necessary to prevent erosion.

*For codes related to Erosion Control and Sanitation abandonment see: https://www.dpw.santacruzcounty.us/Portals/19/pdfs/Design%20Crit/2022%20DESIGNCR ITERIA.pdf?ver=QjgD7YKftGKlpkn95v3 uw%3d%3d×tamp=1671064422616 *For Demolition procedures reference: https://www.santacruzcountyplanning.com/PlanningHome/BuildingSafety/Inspections/De molitionInspectionProcedures.aspx>

Phase 2 – Restoration

After Demolition the project will be required to backfill the area with approved base rock and the subgrade should be compacted to a uniform density of **95 percent of the maximum density**. The project maybe required to install Christy Boxes or other terminations for utilities at the request of the Utility. The County will utilize a separate bidding process to select a construction firm to build the new facility at a later date, subject to the availability of sufficient funding to support the full costs of the project. Base rock shall be Class 2 aggregate base to finish grade.

Bid Alternative #1 – Asphalt Paving Finish

The bidder shall provide a bid for alternate asphalt finish grade paving. The specification for asphalt concrete shall be hot mix Type A. The minimum required base course shall be 9 in of Class 2 aggregate, over 3 in of asphalt concrete. The project shall pave the project to a level finish grade.

Attachments:

- Geotech Report
- ESA Reports
- Hazardous Materials Report
- Site plans



FACILITIES MAINTENANCE & PROJECTS OPERATIONS

Contractor will upon receiving a "**Notice to Proceed**" mobilize equipment and materials necessary to perform the contracted work.

SCHEDULE:

A schedule will be furnished by the contract awardee at the start of the project.

PROJECT 22TI-057A



OTHER DOCUMENTS

EXHIBIT "G"

Adviro 1038 Leigh Ave. Suite 100A San Jose, CA 95126 Tel (408) 512-2912 info@GoAdviro.com



September 25, 2023

 Attn:
 County of Santa Cruz

 Site:
 2202 Soquel Ave., Santa Cruz, CA 95062

 Services:
 Asbestos Survey – Renovation/Demolition

 J# BAAQMD – EPA
 NESHAPS – EPA
 Cal-OSHA/OSHA

 Location:
 Whole Site

 Date:
 September 21st, 2023

#: 2309-67A-CSC

Site:







Asbestos Testing

Various samples were obtained from select building materials associated with the building suspected to contain asbestos in the areas scheduled for renovation. Those samples were submitted to an accredited laboratory for analysis and characterization service using PLM and Point Counting analytical procedures.

Page 1 of 6

Polarized Light Microscopy (PLM):

Bulk samples were analyzed in accordance with U.S. EPA "Test Method for Determination of Asbestos in Bulk Building Materials, 1993," with inclusion of area percent estimates of the sample components. The use of the McCrone Color Dispersion Staining Technique supplements the analysis when considered useful by the analyst. The samples are prepared with refractive immersion oil and are examined under Polarized Light Microscopy (PLM). The accuracy of the visual estimate method is 1%

As per the standard "...The accuracy in the determination of the presence or absence of asbestos of greater than 1 area percent asbestos is greater than 99%." ASTM committee D22.05, 1/18/88, *Standard Method of Testing for Asbestos Containing Materials by Polarized Light Microscopy*.

Point Counting (PC):

The Point Counting method is a much more accurate analytical method for determining the percent of asbestos in a particular material. The laboratory uses a muffle furnace to ash the sample and remove organic compounds. Hydrochloric acid is used to dissolve some of the non-asbestos minerals. If the Point Count Method determines that the material contains less than 1% asbestos, the material being analyzed can be treated as non-hazardous asbestos containing construction waste.



Materials Sampled

PLM Analysis

| <u>Lavers</u> | Material | <u>Color</u> | Location |
|-----------------------|---|---|--------------------|
| 7 7 | Drywall Joint Compound/Texture | White White | Walls |
| 3 3 | Vinyl Sheet Flooring Mastic | Beige Beige | Floors |
| 3 | Grout | Gray | X-Ray Room |
| 3 2 1 | Mastic Tile Underlayment | Black Beige Gray | Storage |
| 3 | Ceiling Tile | White | Lobby & X-Ray Room |
| 3 | Mastic | Brown | Bathroom |
| 3 | Cement Foundation | Gray | Foundation |
| 3 2 1 1 1 | Roofing Tar Roof Felt Coating Roof Insulation | Black Black Black White Tan | Roof |
| 3 | Roofing | Black/Red | Shed |
| 3 | Stucco | Gray | Exterior |
| 3 3 | Formica Mastic | Gray Beige | Lobby |

58 – Total Layers – PLM Analyzed

Point Count Analysis

| <u>Lavers</u> | Material | Color | Location |
|----------------|----------|-------|----------|
| 14 15 16 | Mastic | Black | Storage |

3 – Total Layers – Point Count Analyzed

| Site: | 2202 Soquel Ave., Santa Cruz, CA 95062 |
|-----------|--|
| Service: | Asbestos Survey – Reno/Demo |
| Location: | Whole Site |
| Date: | September 21 st , 2023 |
| #: | 2309-67A-CSC |

Page 2 of 6



Page 3 of 6

Asbestos Results Complete lab results attached

PACM – Presumed Asbestos-Containing Material

Regulated by EPA & OSHA

| Material | Color | Location | Approx. Amount | | | | |
|--|--|--|--|--|--|--|--|
| None Identified | | | | | | | |
| *TSI-insulation material and/or trans of demolition remain alert to notice ** transite asbestos cement piping/r transite material is friable. When it a regulated asbestos-containing ma | nsite cement pipin these materials. material can becc is intact and in g tterial (RACM). D | ng/material may remain hidden within walls and structure. During Contact ADVIRO immediately if any new suspect material is ident ome friable (RACM) when broken or damaged. If broken or damag rood condition, Category II asbestos-containing materials are not c isposal requirements and regulations still apply. | the course tified. ged considered | | | | |

ACM – Asbestos Containing Material greater than > 1%

| Regulated by EPA & OSHA | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Sample Layer Material Location Asbestos A | | | | | | | | |
| None Detected | | | | | | | | |

ACCM – Asbestos Containing Construction Material less than < 1%

Regulated by OSHA, not regulated by EPA

| Sample | Layer From PLM | Material | Location | Asbestos |
|--------|-------------------|----------|----------|-------------------------------|
| 14 | 1 | Mastic | Storage | PLM – 2% CHRYSOTILE |
| 15 | | Black | 5 | PC – 0.50% CHRYSOTILE |
| 16 | | | | *PC results are final results |



Waste Characterization of ACM

| | | <u>Cal-OSHA-OSHA</u> | | | BAAOMD-EPA | | |
|---------------------------------|-----------------------|----------------------|-----------|-------------------------|------------------------|---------------------------|----------------------------|
| Material | Estimated Quantity | IST | Surfacing | Miscellaneous /Other | RACM friable | Category I non-friable | Category II non-friable |
| None Identified & None Detected | | | | | | | |

*non-friable (Category I & II) can become friable (RACM) when removed by mechanical means. Waste recategorization is subject to review with Adviro CAC as the definition and methods for mechanical means commonly vary due to materials, conditions, tools, and scope of work.

** transite asbestos cement piping/material can become friable (RACM) when broken or damaged. If broken or damaged transite material is friable. However, abatement is not required when removed intact however handling and disposal procedures, requirements and regulations still apply.

***quantities are field estimates; total quantities must be confirmed with a contractor



Terms of Service

Asbestos

The handling, work practices, and disposal of asbestos is regulated and restricted by certain governmental agencies.

BAAQMD and EPA regulate asbestos containing materials at greater than >1%. Cal-OSHA regulates occupational exposure to asbestos at less than <1%. BAAQMD will require that all asbestos greater than >1% must be removed from the residence prior to scheduled renovation/demolition activity.

Cal-OSHA will require that the contractor performing the renovation or demolition on the structure must protect their employees from asbestos exposure in accordance with the Asbestos In Construction Standard 1529.1101.

ALL work involving asbestos should be performed by a DOSH licensed asbestos contractor.

Limitations

The inspection or testing performed maybe inherently limited in scope and nature. No guarantee is expressed or implied that all asbestos has been identified in the building or at the subject property. Inaccessible areas of the building underneath floor, behind walls, above ceilings were not inspected or subject to testing. If you have any questions, please contact ADVIRO.



Page 6 of 6

Respectfully Submitted,

Frank Valerga, Certified Environmental Consultant Advanced Environmental, LLC dba: **ADVIRO**

Certified Asbestos Consultant #14-5279 State of California Division of Occupation Safety and Health

Lead Inspector/Assessor #21965 State of California Department of Public Health

The following supporting documents are attached to this report:

- Asbestos Classifications Definitions
- Asbestos Regulators
- Laboratory Analytical Reports
- Photographs of Site and Sample Locations
- Floorplan Showing Sample Locations
- Certifications of CAC and SST Performing This Survey
- ADVIRO Insurance Information

Advíro

Asbestos Classifications Definitions

Homogenous Materials

| Homogenous | Materials sampled are representative of all correlating homogenous areas. Homogenous areas |
|------------|--|
| Materials | of material are defined by the same recurring material that may appear throughout site and |
| | are limited to one building; some materials may require additional sampling. |

Waste Characterization

| ACM | (Asbestos Containing Material) – Commercial asbestos product containing more than 1% asbestos. ACM must be disposed as hazardous waste. Note: Federal OSHA and Cal-OSHA control materials containing any amount of asbestos. |
|---------|---|
| АСВМ | (Asbestos Containing Building Material) – AHERA/ASHARA term for material containing more than 1% asbestos in or on interior structural members or other structural components. Includes covered walkways, porticos and exterior HVAC TSI. |
| ACCM | (Asbestos Containing Construction Material) – California term for a manufactured construction material containing greater than .1% (one tenth of one percent) asbestos. |
| PACM | (Presumed Asbestos Containing Material) OSHA considers all TSI and surfacing materials installed prior to1980 to be ACM unless proven otherwise. |
| Friable | Asbestos Containing Material that can be crumbled pulverized or reduced to powder by hand pressure when dry. |
| NOA | Naturally Occurring Asbestos. CARB defines as having >.25% by point counting. |
| ACM | CARB term for naturally occurring asbestos >.25% by point counting. |
| DACM | Designated Asbestos Containing Material: Floor-tile installed before 1981. |

AHERA & OSHA Asbestos Categories

(used by EPA AHERA/ASHARA and OSHA/Cal-OSHA)

| TSI | (Thermal System Insulation) - "Thermal system insulation (TSI)" means ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain. "Thermal system insulation ACM" is thermal system insulation which contains more than 1% asbestos. |
|---|---|
| Surface (usually mixed on- site at time of application) | "Surfacing material" means material that is sprayed, troweled-on or otherwise applied to surfaces (such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, and other purposes). "Surfacing ACM" means surfacing material which contains more than 1% asbestos. NOTE: OSHA/Cal-OSHA do not classify skim coat, taping mud, floor tile mastic, stucco, leveling compound, and hard wall plasters or wall texturing as surfacing. |
| Miscellaneous | All other ACM, including classify taping mud, floor tile mastic, stucco, leveling compound, and hard wall plasters or wall texturing as surfacing. |

NESHAPS Asbestos Categories

(used by Air Quality Management Districts for Renovation and Demolition)

| Category I | Cat I Non-friable Asbestos Containing Material (ACM) refers to asbestos containing packing, gaskets, resilient floor covering, Galbestos, and asphalt roofing products containing more than 1% asbestos. |
|-------------|---|
| Category II | Cat II Non-friable Asbestos-Containing Material (ACM) is any material that is not Cat I that contains greater than 1% asbestos. |
| RACM | "Regulated Asbestos-Containing Material." – Friable manufactured asbestos material (ACM) or a Category I non-friable ACM that has become friable OR a Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading OR Category II non- friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations. RACM should be removed prior to renovation or demolition. |

Advíro

Asbestos Regulators

| | EPA | | OSHA Cal-OSHA | DTSC | BAAQMD | CARB | |
|---|---|--|--|---|---|--|------------------------------------|
| | AHERA | NESHAP | | | | | |
| Facilities | Schools, K-12 public and private | All except for residential bldgs of ≤4 | All where employees are present | All in California employees are present | None concerned with waste only | All including residentials of ≤4 units | Naturally occurring asbestos |
| Trigger Amount of Asbestos | >1% | >1% | >0% | >0% | >1% | >1% | >0.25% |
| Requires Asbestos Building Survey | Yes | Yes | Yes | Yes | No | Yes | No |
| Sampling Protocol | Yes 3, 5, 7 Rule for surfacing, 3 Samples for TSI, 1 for TSI patches <6ft. or 6 sq/ft "in a manner sufficient to determine for TSI Mudded Connections and Miscellaneous Materials" | No | Yes for PACM (AHERA Protocol) | Yes for PACM (AHERA Protocol) | No | Yes (AHERA Protocol) | Yes |

| SLI | i | Analysis Repo | rt Scl | hneider 512 W. Cary S 04-353-6778 • | Laborat treet • Richmond 800-785-LABS (| ories d, Virginia (5227) • F | Global, Inc • 23220-5117 Fax 804-359-1475 |
|------------------------|-----------------------|-----------------------------------|----------------------|--|---|------------------------------------|--|
| Customer | Adviro | (4717) | | | Order #: | 53 | 33374 |
| Address: | Unit 10 San Jo | Leign Ave DOA ose, CA 95126 | | | Received Analyzed Reported | 09/ 09/ 09/ | 22/23 22/23 22/23 |
| Project: | Count | y Of Santa Cruz | Cr. 17 | | | | |
| -Location: -Number: | 2202 3 | 50quel Ave. Santa 57A | Cluz | | PO Number: | CA | 95062 |
| Method: | EPA 600/R | 2-93/116 & 40 CFR | App. E Sub. E Pt. 76 | 63 | PLM An | alysis | |
| Sample ID | Collected | Cust. ID | Location | Asbestos | Fibers | | Other Materials |
| 533374-001 | 09/21/23 | 01 | 2202 Soquel Ave | | | | |
| Layer 1: White, F | Drywall Powdery | | | No Asbestos D | etected | 8% 92% | CELLULOSE FIBER NON FIBROUS MATERIAL |
| Layer 2: White, 0 | Joint Con Granular | npound/ Texture | | No Asbestos D | etected | 100% | NON FIBROUS MATERIAL |
| Unable | to separat | e individual layers | 6. | | | | |
| 533374-002 | 09/21/23 | 02 | 2202 Soquel Ave | | | | |
| Layer 1: | Drywall | | | No Asbestos D | etected | 8% | CELLULOSE FIBER |
| White, F | Powdery | | | | | 92% | NON FIBROUS MATERIAL |
| Layer 2: White, 0 | Joint Con Granular | npound/ Texture | | No Asbestos D | Detected | 100% | NON FIBROUS MATERIAL |
| Unable | to separat | e individual layers | | | | | |
| 533374-003 | 09/21/23 | 03 | 2202 Soquel Ave | | | | |
| Layer 1: White, F | Drywall Powdery | | | No Asbestos D | etected | 8% 92% | CELLULOSE FIBER NON FIBROUS MATERIAL |
| Layer 2: White, 0 | Joint Con Granular | npound/ Texture | | No Asbestos D | etected | 100% | NON FIBROUS MATERIAL |

Unable to separate individual layers.

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic loose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.

| Project: | Count | y Of Santa Cruz | | | | | | |
|---------------------------------------|-----------------------|---------------------|-----------------------|----------------------|--------------|----------------------|--|--|
| -Location: | 2202 \$ | Soquel Ave. Santa | Cruz | | | | | |
| ^L Number: | 2309-6 | 67A | | PO Ni | imber: CA | 95062 | | |
| Method: | EPA 600/R | 8-93/116 & 40 CFR | App. E Sub. E Pt. 763 | | PLM Analysis | | | |
| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | | Other Materials | | |
| 533374-004 | 09/21/23 | 04 | 2202 Soquel Ave | | | | | |
| Layer 1: | Drywall | | | No Asbestos Detected | 8% | CELLULOSE FIBER | | |
| White, I | Powdery | | | | 92% | NON FIBROUS MATERIAL | | |
| Layer 2: | Joint Con | npound/ Texture | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | | |
| White, 0 | Granular | | | | | | | |
| Unable | to separat | e individual layers | 3 . | | | | | |
| 533374-005 | 09/21/23 | 05 | 2202 Soquel Ave | | | | | |
| Layer 1: | Drywall | | | No Asbestos Detected | 8% | CELLULOSE FIBER | | |
| White, I | Powdery | | | | 92% | NON FIBROUS MATERIAL | | |
| Layer 2: | Joint Con | npound/ Texture | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | | |
| White, 9 | Granular | | | | | | | |
| Unable | to separat | e individual lavers | 5. | | | | | |
| 533374-006 | 09/21/23 | 06 | 2202 Soquel Ave | | | | | |
| Layer 1: | Drywall | | · · | No Asbestos Detected | 8% | CELLULOSE FIBER | | |
| , White, I | Powdery | | | | 92% | NON FIBROUS MATERIAL | | |
| | | | | | | | | |
| Layer 2: | Joint Con | npound/ Texture | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | | |
| White, 9 | Granular | | | | | | | |
| Unable | to senarat | e individual lavers | | | | | | |
| 533374-007 | 09/21/23 | 07 | 2202 Soquel Ave | | | | | |
| Laver 1: | Drvwall | | • | No Asbestos Detected | 8% | CELLULOSE FIBER | | |
| White, I | Powdery | | | | 92% | NON FIBROUS MATERIAL | | |
| | | | | | | | | |
| Layer 2: White | Joint Con Granular | npound/ Texture | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | | |
| Winte, | Sidifuldi | | | | | | | |
| Unable to separate individual layers. | | | | | | | | |
| 533374-008 | 09/21/23 | 08 | 2202 Soquel Ave | | | | | |
| Layer 1: | Vinyl She | et Flrng | | No Asbestos Detected | 20% | CELLULOSE FIBER | | |
| Beige, (| Drg.Bound/I | Fibrous | | | 20% | MINERAL/GLASS WOOL | | |
| _ | | | | | 60% | NON FIBROUS MATERIAL | | |
| Sample | was inhor | nogenous, subsa | mples of each compo | nent were analyzed | separately. | | | |
| Layer 2: | Mastic | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | | |
| Beige, S | JIOC | | | | | | | |

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic lose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.

| Project: | County | y Of Santa Cruz | 0 | | | |
|-----------------------|-------------|-------------------|-----------------------|--------------------------------|------|----------------------|
| -Location: | 2202 3 | Soquel Ave. Santa | Cruz | PO Number: | CA | 95062 |
| | | | | | | 00002 |
| Method: | EPA 600/R | -93/116 & 40 CFR | App. E Sub. E Pt. 763 | PLM Anal | ysis | |
| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | | Other Materials |
| 533374-009 | 09/21/23 | 09 | 2202 Soquel Ave | | | |
| Layer 1: | Vinyl She | et Flrng | | No Asbestos Detected | 20% | CELLULOSE FIBER |
| Beige, C | Drg.Bound/F | Fibrous | | | 20% | MINERAL/GLASS WOOL |
| | | | | | 60% | NON FIBROUS MATERIAL |
| Sample | was inhor | nogenous, subsa | mples of each compo | nent were analyzed separately. | | |
| Layer 2: | Mastic | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| Beige, S | Soft | | | | | |
| | | | | | | |
| 533374-010 | 09/21/23 | 10 | 2202 Soquel Ave | | | |
| Layer 1: | Vinyl She | et Flrng | | No Asbestos Detected | 20% | CELLULOSE FIBER |
| Beige, C | Drg.Bound/F | Fibrous | | | 20% | MINERAL/GLASS WOOL |
| | | | | | 60% | NON FIBROUS MATERIAL |
| Sample | was inhor | nogenous, subsa | mples of each compo | nent were analyzed separately. | | |
| Laver 2: | Mastic | 0 | • • | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| , Beiae, S | Soft | | | | | |
| 0, | | | | | | |
| 533374-011 | 09/21/23 | 11 | X-Ray Room | | | |
| Layer 1: | Grout | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| Gray, H | ard/Granula | ar | | | | |
| | | | | | | |
| 533374-012 | 09/21/23 | 12 | X-Ray Room | | | |
| Layer 1: | Grout | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| Gray, Ha | ard/Granula | ar | | | | |
| | | | | | | |
| 533374-013 | 09/21/23 | 13 | X-Ray Room | | | |
| Layer 1: | Grout | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| Gray, H | ard/Granula | ar | | | | |
| | | | | | | |
| 533374-014 | 09/21/23 | 14 | Storage | | | |
| Layer 1: | Mastic | | | 2% CHRYSOTILE | 98% | NON FIBROUS MATERIAL |
| Black, B | ituminous | | | | | |
| , | | | | | | |
| l aver 2 [.] | Tile | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAI |
| Beide (|)rganically | Bound | | | | |
| No drav | underlavm | ent found. | | | | |
| | | | | | | |

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic loose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.

| Project: Location: | County 2202 S 2309-6 | / Of Santa Cruz Soquel Ave. Santa (S7A | Cruz | PO Nu | mber: CA | 95062 |
|----------------------------------|---|---|--------------------|----------------------|-------------------|---|
| Method: | EPA 600/R | -93/116 & /0 CER | Ann E Sub E Pt 763 | i e nu | DI M Analysis | |
| Sample ID | | | | Achastas Eihara | | Other Materials |
| 533374-015 | 09/21/23 | 15 | Storage | ASDESIOS FIDEIS | | |
| Laver 1. | Mastic | 10 | otorugo | 2% CHRYSOTILE | 98% | NON FIBROUS MATERIAL |
| Black, B | ituminous | | | | 0070 | |
| Layer 2: Gray, Ha No beige | Underlayı ard/Granula e tile found. | ment ar | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| 533374-016 | 09/21/23 | 16 | Storage | | | |
| Layer 1: Black, B | Mastic ituminous | | | 2% CHRYSOTILE | 98% | NON FIBROUS MATERIAL |
| Layer 2: Beige, C No gray | Tile Drganically I underlaym | Bound ent found. | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| 533374-017 | 09/21/23 | 17 | Lobby + X-Ray Room | | | |
| Layer 1: White, F | Ceiling Ti ibrous | le | | No Asbestos Detected | 40% 40% 20% | CELLULOSE FIBER MINERAL/GLASS WOOL NON FIBROUS MATERIAL |
| 533374-018 | 09/21/23 | 18 | Lobby + X-Ray Room | | | |
| Layer 1: White, F | Ceiling Ti ibrous | le | | No Asbestos Detected | 40% 40% 20% | CELLULOSE FIBER MINERAL/GLASS WOOL NON FIBROUS MATERIAL |
| 533374-019 | 09/21/23 | 19 | Lobby + X-Ray Room | | | |
| Layer 1: White, F | Ceiling Ti ibrous | le | | No Asbestos Detected | 40% 40% 20% | CELLULOSE FIBER MINERAL/GLASS WOOL NON FIBROUS MATERIAL |
| 533374-020 | 09/21/23 | 20 | Bathroom | | | |
| Layer 1: Brown, S | Mastic Soft | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| 533374-021 | 09/21/23 | 21 | Bathroom | | | |
| Layer 1: Brown, S | Mastic Soft | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| 533374-022 | 09/21/23 | 22 | Bathroom | | | |
| Layer 1: Brown, S | Mastic Soft | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic loose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.

| Project: | Count | y Of Santa Cruz | | | | | |
|----------------------------------|---|---------------------------------|-----------------------|------------------------|------------|---|--|
| -Location: | 2202 \$ | Soquel Ave. Santa | Cruz | | | | |
| -Number: | 2309-6 | 67A | | PO Numb | er: CA | 95062 | |
| Method: | EPA 600/R | R-93/116 & 40 CFR | App. E Sub. E Pt. 763 | PLM Analysis | | | |
| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | | Other Materials | |
| 533374-023 | 09/21/23 | 23 | Foundation | | | | |
| Layer 1: Gray, Ha | Cement F ard | Foundation | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | |
| 533374-024 | 09/21/23 | 24 | Foundation | | | | |
| Layer 1: Gray, Ha | Cement F ard | Foundation | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | |
| 533374-025 | 09/21/23 | 25 | Foundation | | | | |
| Layer 1: | Cement F | oundation | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | |
| Gray, Ha | ard | | | | | | |
| 533374-026 | 09/21/23 | 26 | Roof | | | | |
| Layer 1: Black, G No insul | Roofing Franular/Bit ation or coa | uminous/Fibrous ating found. | | No Asbestos Detected | 80% 20% | NON FIBROUS MATERIAL SYNTHETIC FIBER | |
| Sample | was inhor | nogenous, subsa | mples of each compo | nent were analyzed sep | arately. | | |
| Layer 2: | Tar | • | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | |
| Black, B | ituminous | | | | | | |
| Layer 3: | Roof Felt | | | No Asbestos Detected | 40% | MINERAL/GLASS WOOL | |
| Black, B | ituminous/I | Fibrous | | | 60% | NON FIBROUS MATERIAL | |
| 533374-027 | 09/21/23 | 27 | Roof | | | | |
| Layer 1: Black, B No insul | Roofing ituminous/l ation and ta | Fibrous ar found. | | No Asbestos Detected | 60% 40% | NON FIBROUS MATERIAL SYNTHETIC FIBER | |
| Layer 2: White, S | Coating Soft | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL | |

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic loose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.

| Project: | Count | y Of Santa Cruz | Cr | | | |
|------------|--------------|---------------------|-----------------------|---------------------------------|-------|----------------------|
| Number | 2202 3 | Soquel Ave. Santa | Ciuz | PO Number: | CA | 95062 |
| | | | | | | |
| Method: | EPA 600/R | -93/116 & 40 CFR | App. E Sub. E Pt. 763 | PLM Analy | /SIS | . |
| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | | Other Materials |
| 5333/4-028 | 09/21/23 | 28 | Root | No Aphastas Datastad | 0.00/ | |
| Layer 1: | Rooting | umineus/Fibreus | | NO ASDESIOS Delected | 60% | |
| Black, G | ranular/Bill | uminous/Fibrous | | | 40% | SYNTHETIC FIBER |
| NU CUAL | ng iounu. | | | | | |
| Sample | was inhor | nogenous, subsa | mples of each compo | nent were analyzed separately. | | |
| Layer 2: | Tar | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| Black, B | ituminous | | | | | |
| | | | | | | |
| Layer 3: | Roof Insu | Ilation | | No Asbestos Detected | 60% | CELLULOSE FIBER |
| Tan, Fib | rous | | | | 20% | MINERAL/GLASS WOOL |
| | | | | | 20% | NON FIBROUS MATERIAL |
| 533374-029 | 09/21/23 | 29 | Shed | | | |
| Layer 1: | Roofing | | | No Asbestos Detected | 20% | MINERAL/GLASS WOOL |
| Black/R | ed, Granula | ar/Bituminous/Fibro | ous | | 80% | NON FIBROUS MATERIAL |
| | | | | | | |
| Sample | was inhor | nogenous, subsa | mples of each compo | onent were analyzed separately. | | |
| 533374-030 | 09/21/23 | 30 | Shed | | | |
| Layer 1: | Roofing | | | No Asbestos Detected | 20% | MINERAL/GLASS WOOL |
| Black/Re | ed, Granula | ar/Bituminous/Fibro | ous | | 80% | NON FIBROUS MATERIAL |
| | | | | | | |
| Sample | was inhor | nogenous, subsa | mples of each compo | nent were analyzed separately. | | |
| 533374-031 | 09/21/23 | 31 | Shed | | | |
| Layer 1: | Roofing | | | No Asbestos Detected | 20% | MINERAL/GLASS WOOL |
| Black, G | Franular/Bit | uminous/Fibrous | | | 80% | NON FIBROUS MATERIAL |
| | | | | | | |
| Sample | was inhor | nogenous, subsa | mples of each compo | nent were analyzed separately. | | |
| 533374-032 | 09/21/23 | 32 | Exterior | | | |
| Layer 1: | Stucco | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| Gray, Ha | ard/Granula | ar | | | | |
| | | | | | | |
| 533374-033 | 09/21/23 | 33 | Exterior | | | |
| Layer 1: | Stucco | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| Gray, Ha | ard/Granula | ar | | | | |
| | 00/0-/ | <u></u> | | | | |
| 533374-034 | 09/21/23 | 34 | Exterior | | | |
| Layer 1: | Stucco | | | No Asbestos Detected | 100% | NON FIBROUS MATERIAL |
| Gray, Ha | ard/Granula | ar | | | | |

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic loose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.
| Project: | Count | / Of Santa Cruz | _ | | | | |
|---------------|---------------|-------------------|-----------------------|----------------------|----------------|-----------|--------------------------|
| -Location: | 2202 \$ | Soquel Ave. Santa | Cruz | | | ~ ~ ~ | 05000 |
| -Number: | 2309-6 | 57A | | PO N | umber: | CA | 95062 |
| Method: | EPA 600/R | -93/116 & 40 CFR | App. E Sub. E Pt. 763 | | PLM Ana | lysis | |
| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | ; | | Other Materials |
| 533374-035 | 09/21/23 | 35 | Lobby | | | | |
| Layer 1: | Formica | | | No Asbestos Detected | ł | 75% | CELLULOSE FIBER |
| Gray, Ha | ard/Fibrous | | | | | 25% | NON FIBROUS MATERIAL |
| | | | | | | | |
| Layer 2: | Mastic | | | No Asbestos Detected | ł | 100% | NON FIBROUS MATERIAL |
| Beige, S | Soft | | | | | | |
| | | | | | | | |
| 533374-036 | 09/21/23 | 36 | Lobby | | | | |
| Layer 1: | Formica | | | No Asbestos Detected | ł | 75% | CELLULOSE FIBER |
| Gray, Ha | ard/Fibrous | | | | | 25% | NON FIBROUS MATERIAL |
| | | | | | | | |
| Layer 2: | Mastic | | | No Asbestos Detected | ł | 100% | NON FIBROUS MATERIAL |
| Beige, S | Soft | | | | | | |
| | | | | | | | |
| 533374-037 | 09/21/23 | 37 | Lobby | | | | |
| Layer 1: | Formica | | | No Asbestos Detecteo | ł | 75% | CELLULOSE FIBER |
| Gray, Ha | ard/Fibrous | | | | | 25% | NON FIBROUS MATERIAL |
| | | | | | | | |
| Layer 2: | Mastic | | | No Asbestos Detecteo | ł | 100% | NON FIBROUS MATERIAL |
| Beige, S | Soft | | | | | | |
| | | | | | | | |
| EPA Regula | tory Limit: " | l% | | | | | |
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Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic loose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.

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| 3 business days* | | Bul | k | Wastewater | | | | alitative only) | | | |
| 5 business days* | | Hi- | Vol Filter (PM1) | 0). | Mie | cellaneous Toete | | 130.1/.4/.0 | | | |
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| advance. | | Soil Soil | | | Mold . | Analysis | USED: | | | <u> </u> | <u></u> |
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| | | 8 | 2512 Wes 04-353-67 www.sl | t Cary Street, Richr 78 • 800-785-LABS abinc.com e-l | mond, Vi (5227) mail: info | rginia 2 • Fax 8()@slabi | 3220-51 04-359-14 nc.com | 17 475 | | | | | |
| Submitting Co. | ADVIRO | , | . 1 | | Lab WO# | | | | Phone | | | | |
| 1038 Leigh Ave. | #100A | | | · · · · | Acct # | 4717 | | | Fax / Email | 408-512-2912 | <u> </u> | | ······ |
| San Jose, CA 95 | 126 | | | | **State of Collection | Californi | la se anna an stàitean an stàite agus an stàitean an stàitean an stàitean an stàitean an stàitean an stàitean a agus an stàitean an stàitea | | **Cert. | Ye: | No | | |
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| 5 business days | * | | ııĸ ∙Vol Filter (PM1 | 0) 🗖 Wastewater | | | | | ELAP 19 | 8.1/.4/.6 | | 1. 1. 1. 2 4 <i>- 1</i> . 5 6 | |
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| Schedule rush organ metals & weekend advance. | ics, multi- tests in | SIL SIL | idge il | □ □ | Silica | - XRD (NIC Analysis | OSH 7500) | TYPE | OF RESP | PIRATOR | | Others | |
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| 'Type: A=area B=l | blank P= | person | al E=excursion | ² Beginning/End of Sar | nple Perioc | ³ Pump | Calibration | in Liter | s/Minute | ⁴ Volume in L | iters [time in | min * flow | in L/min] |
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| Submitting Co. | ADVIRO | | | , | | Lab WO# | | <u>-</u> <u>-</u> <u>-</u> | | Phone | | | | | • • |
| 1038 Leigh Ave. | #100A | <u>`</u> | | | | Acct # | 4747 | | | Fax / | 408-5 | 12-2912 | | | <u></u> |
| San Jose, CA 951 | 26 | | | | | **State of | | | | **Cert. | repor | ts@goadv IXI Yes | iro.com | Semilar dar bester daring Semilar daring | |
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| 5 business days* | | HI- | Vol Filter (PM | 10) 🔲 Water,Drir | iking | Mis | cellaneou | e Toete | | | 0. 1/.4/.1 PA Inte | o rim) | | a No. 8 | |
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| * not available for all | tests | 🗖 Pai | nt | 🔲 Wipe, Cor | nposite | 🗖 Silica | - FTIR (NI | DSH 7602) | FO | R ASBI | ESTO | S AIR: | | Full (w/ oroa | is inics) |
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| advance. | | Soi Soi | l | | - | Mold / | Analysis | | USED: | | | | | | <u></u> |
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| Submitting Co. Junited Lab Work Priori Operating out in the construction of | SLC | | S 2 80 | CHNEID 2512 West 4-353-677 www.sla | ER LABORAT(Cary Street, Richm 8 • 800-785-LABS binc.com e-n | DRIES nond, Vi (5227) nail: info | GLOE rginia 2 • Fax 80 0@slabi | 3AL, IN 3220-511 94-359-14 nc.com | C. 7 75 | | | WO Label | <u></u> | |
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

| SLO | T | Analysis Rep | ort | 2512 W. 0 804-353-6 | der Lab Cary Street • Rid 778 • 800-785- | Dratorie chmond, Virgi LABS (5227) | es Global nia • 23220-5117 • Fax 804-359-1 | , Inc 7 475 |
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| | San Jo | ose, CA 95126 | | | Received | C |)9/22/23 | |
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| Layer 1: | Mastic | | | 0.50% | CHRYSOTILE | 99.50 | % NON FIBROUS | MATERIAL |
| Black, Bi | ituminous, | Homogenous | | | | | | |
| 533735-002 | 09/21/23 | 15 | Storage | | | | | |
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| 533735-003 | 09/21/23 | 16 | Storage | | | | | |
| Layer 1: | Mastic | | - | 0.50% | CHRYSOTILE | 99.50 | % NON FIBROUS | MATERIAL |
| Black, Bi | ituminous, | Homogenous | | | | | | |
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| | C ford | Ali | | | K | min | Wood | \supset |

Senhory Ali

Analyst Senhory Abdellatif

Reviewed By: Ben Wood Laboratory Director

Reporting limit: 0.25% Samples analyzed by the EPA Point Count test method. The EPA recommends that any attic loose fill vermiculite sample with a trace (<1) or greater amount of asbestos is a concern and should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other government agency endorsement. The test results apply to the sample as received.

| | | | WWW. | slabinc.com e- | 5 (5227) mail: info | • Fax 8 0@slat | 04-359-1 9inc.com | 475 | ajon Han | V:\/ es d Delive | 533\5; 9/22/20 red | 33735 023 12:45: | 00 PN N/A | |
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| hedule rush organ | ics, multi- | Siu | Idge | | | - FTIR (N | OSH 7602) | FOF | R ASBE | STOS | AIR: | TCLP / | Full (w/ org | anics) |
| metals & weekend advance. | tests in | Soi | 1 | | Mold A | Analysis | OSH 7500) | USED: | FRESP | RATOR | r | <u> </u> | Others | |
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Site Map: Asbestos Survey







National Registry of Environmental Professionals Christopher Young Executive Director





100 Technology Circle, Suite A, Anaheim, CA 92805 | 8390 Capwell Drive, Oakland, CA 94621 8000-969-3228 | www.NATECIntl.com

 Itas successfully completed the Asbestos Inspector Initial course approved by the California Division of Occupational Safety and Itealth for purposes of certification required by Title 8, Article 27, Chapter 32, Section 341.16 and the accreditation required under the Tosic Stabistances Control Act, Title 11. Conducted by M&C Environmental Training Inc., P.O. Box 6419, Courserd, California. Tel. # (510) 499 - 5646

 Course Approval Number: CA-003-05

 Location:
 Concord, California

 Examination: January 20, 2023

 Dates:
 January 18-20, 2023

 Expiration: January 20, 2024

 Director of Training: John McGinnis

 JMI M.J.Gutto

 Certificate Number

 S2009 I



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 06/21/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| PRODUCER | | CONTACT NAME: Chase Tedsen | | |
|------------------------|----------------|--|--------------------------------|---|
| Chase Tedsen (0M93504) | | PHONE (A/C, NO, EXT): 831_479_7200 | FAX (A/C, NO): 831-621-112(|) |
| Soquel | CA 95073-2428 | E-MAIL ADDRESS: Chase@TedsenAgency. | com | <u>, </u> |
| ooquoi | 0/1 00010 2420 | INSURER(S) AFFORDIN | G COVERAGE | NAIC # |
| INSURED | | INSURER A: Truck Insurance Exchar | ge | 21709 |
| | | INSURER B: Farmers Insurance Exch | ange | 21652 |
| | NTAL, LLC | INSURER C: Mid Century Insurance | Company | 21687 |
| 1038 LEIGH AVE | | INSURER D: Beazley | | 37540 |
| SAN JOSE | CA 05126 | INSURER E: Colony Specialty | | 39993 |
| SAN JUSE | OA 93120 | INSURER F: Sequoia Insurance Com | pany | 22985 |

COVERAGES

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAME ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CERTIFICATE NUMBER:

| INSR LTR | | TYPE OF INSURA | NCE | ADDTL INSD | SUBR WVD | POLICY NUMB | ER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | | LIMITS | | |
|-------------|------------|---|-------------------------|---------------|-------------|------------------------|--------------|----------------------------|----------------------------|----------------------------------|------------------|------|-----------|
| | X | COMMERCIAL GENERAL | LIABILITY | | | | | | | EACH OCCURREN | VCE | \$ | 1,000,000 |
| | | CLAIMS-MADE | OCCUR | | | | | | | DAMAGE TO REN PREMISES (Ea Oc | TED currence) | \$ | 100,000 |
| | | | | | | | | | | MED EXP (Any on | e person) | \$ | 25,000 |
| D | X | *Contractors Pollutior | n Liability | Y | Y | ENC 0004679-03 | | 06/17/23 | 06/17/24 | PERSONAL & AD | / INJURY | \$ | 1,000,000 |
| | GE | | PLIES PER: | | | | | | | GENERAL AGGRE | GATE | \$ | 2,000,000 |
| | X | POLICY PROJECT | LOC | | | | | | | PRODUCTS - COM | /IP/OP AGG | \$ | 2,000,000 |
| | | OTHER: | | | | | | | | *Contractors F | ollution L | \$ | 5,000,000 |
| | AU | TOMOBILE LIABILITY | | | | | | | | COMBINED SING (Ea accident) | LE LIMIT | \$ | 1,000,000 |
| | | ANY AUTO | | | | | | | | BODILY INJURY (F | 'er person) | \$ | |
| A | | OWNED AUTOS ONLY | SCHEDULED AUTOS | Y | Y | 606800363 | | 07/11/2022 | 07/11/2024 | BODILY INJURY (F | 'er accident) | \$ | |
| | × | HIRED AUTOS ONLY | NON-OWNED AUTOS ONLY | | | | | | | PROPERTY DAM (Per accident) | 4GE | \$ | |
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| | AN | IY PROPRIETOR/PARTNER/ | Y/N | N/A | | 014/04/00705 | | 10/07/00 | 40/07/00 | E.L. EACH ACCID | ENT | \$ | 1,000,000 |
| F | EX | CLUDED? (Mandatory in N | H) | | | QWC1183735 | | 12/27/22 | 12/27/23 | E.L. DISEASE - EA | EMPLOYEE | \$ | 1,000,000 |
| | lf y OF | res, describe under DESCRIF PERATIONS below | PTION OF | | | | | | | E.L. DISEASE - PO | LICY LIMIT | \$ | 1,000,000 |
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| CERTI | | TEHOLDER | | | | | CANCELLA | | | | | | |
| | | | | | | | SHOULD A | NY OF THE ABOVE | DESCRIBED POLICIE | S BE CANCELLED | BEFORE THE | EXF | IRATION |
| | | | | | | | DATE THE | REOF, NOTICE WILL | BE DELIVERED IN A | CCORDANCE WITH | H THE POLIC | ¢γ P | OVISIONS. |

AUTHORIZED REPRESENTATIVE Chase Tedsen Adviro 1038 Leigh Ave. Suite 100A San Jose, CA 95126 Tel (408) 512-2912 info@GoAdviro.com



| | | September 26, 2023 |
|-----------|--|--------------------|
| Attn: | County of Santa Cruz | |
| Site: | 2202 Soquel Ave., Santa Cruz, CA 95062 | |
| Service: | Lead Based Paint XRF Survey – Renovation/Demolition RRP – EPA Lead in Construction – OSHA Lead Screening Lead Bulk | |
| Location: | Whole Site | |
| Date: | September 21 st , 2023 | |
| #: | 2309-67L-CSC | |













"Federal law requires that disturb painted surfaces in homes, childcare facilities and schools, built before 1978 to be certified and follow specific work practices to prevent lead contamination." – United States Environmental Protection Agency (EPA)

This law is known as the <u>Renovate, Repair and Paint (RRP) Rule</u> and applies to all renovation/demolition work of pre 1978 homes, childcare facilities or schools disturbing six square feet or more of painted surfaces. The objective of "Lead-Safe" work practices and procedures are to protect against lead contamination in the form of paint chips and dust that could lead to subsequent poisoning and exposure concerns. All painted surfaces at these locations must be presumed Lead-Based Paint unless tested & proven otherwise.

Lead-Based Paint is defined as paint or other surface coatings that, by definition, contain lead in excess of 1.0 milligrams per square centimeter (mg/cm²) or 5,000 parts per million (ppm).

| <u> </u> | |
|--|--|
| Model: | Heuresis PB200i Lead Paint Analyzer |
| Serial Number: | 2613 |
| Date Performed: | September 21 st , 2023 |
| Start Time: | 9:00 a.m. |
| Initial # Calibration Avg.: (mg/cm ²) | 147 – 0.9 148 – 0.9 149 – 1.0 ~0.93 |
| Sample Reading #'s: | 150 – 321 |
| Final Calibration Avg.: (mg/cm ²) | 322 - 1.0 323 - 1.0 324 - 1.0 ~1.0 |

Sampling Method – EPA Approved

All results are digitally logged and encrypted by ADVIRO using EPA approved Heuresis PB200i Lead Paint Analyzer XRF technology and software. Unique XRF analyzer information and the actual XRF sample numbers recorded are provided for future research of this report, individual sample results are available upon request. For the purpose of this report only samples indicating Lead Based Pant are identified.

 Site:
 2202 Soquel Ave., Santa Cruz, CA 95062

 Service:
 Lead Survey & Lead Screening

 Location:
 Whole Site

 Date:
 September 21st, 2023

 #:
 2309-67L-CSC



Page 2 of 6

Lead Results

Only sample results indicating Lead-Based Paint (LBP) are highlighted. Sample results equal to or greater than $1.0 \text{ mg/cm}^2 = \text{LBP}$

<u>Interior</u>

| <u>LBP</u> | <u>Sample #'s</u> | <u>Reading</u> (mg/cm ²) | <u>Location</u> | <u>Substrate</u> | <u>Color Paint</u> (Top Layer) |
|------------|------------------------|---|-----------------------|------------------|-----------------------------------|
| NO | 197 – 211 | 0.0 - 0.1 | Walls – Lobby | Drywall | White |
| NO | 212 – 215 | 0.0 | Walls – Room 1 | Drywall | White |
| NO | 216 – 219 | 0.0 - 0.1 | Walls – Room 2 | Drywall | White |
| NO | 220 – 221 | 0.0 - 0.1 | Window Frame – Room 2 | Wood | White |
| NO | 222 – 225 | 0.0 - 0.1 | Walls – Room 3 | Drywall | White |
| YES | <mark>226 – 258</mark> | <mark>0.0 – 10.1</mark> | Walls – X-Ray Room | Drywall | White |
| NO | 259 – 266 | 0.1 – 0.2 | Walls – Hallway | Drywall | White |
| NO | 267 – 275 | 0.0 - 0.1 | Walls – Staff Room | Drywall | White |
| NO | 276 – 283 | 0.1 | Walls – Laundry | Drywall | White |
| NO | 284 – 288 | 0.1 | Walls – Bathroom | Drywall | White |
| NO | 289 – 296 | 0.0 - 0.1 | Walls – Storage | Drywall | White |
| NO | 297 – 318 | 0.1 | Doors/Frames | Wood/Metal | White |



<u>Exterior</u>

| <u>LBP</u> | <u>Sample #'s</u> | <u>Reading</u> (mg/cm ²) | <u>Location</u> | <u>Substrate</u> | <u>Color Paint</u> (Top Layer) | |
|------------|-------------------|---|-----------------|------------------|-----------------------------------|--|
| NO | 150 – 157 | 0.0 - 0.1 | Walls | Stucco/Wood | Beige | |
| NO | 158 – 167 | 0.1 – 0.5 | Gutters/Piping | Metal | Beige | |
| NO | 168 – 172 | 0.0 | Doors | Wood | Beige/Blue | |
| NO | 173 – 178 | 0.0 - 0.1 | Door Frames | Wood | Beige/Blue | |
| NO | 179 – 186 | 0.0 – 0.5 | Window Frames | Wood | Blue | |
| NO | 187 – 196 | 0.0 - 0.4 | Fascia/Sofit | Wood | Beige | |
| NO | 319 – 321 | 0.0 | Walls – Shed | Wood | Red | |

172 – Total Samples – XRF Analyzed

NOTE: Per EPA, ceramic tile is not subject to <u>RRP Rule</u>.

Please see attached pictures and diagram to confirm color and location of Lead-Based Paint. All other colors of paint or locations were not identified as LBP.



<u>Lead Paint Chip – OSHA</u>



Painted/coated surfaces were tested in the field using an X-Ray fluorescence (XRF) spectrum analyzer and/or sampled (paint chips) and submitted to a certified laboratory for analysis by atomic absorption spectroscopy (AAS). Lead paint samples fell into 1 of 3 types – as follows:

| Lead Types | Definition | Lead Content Standard | | | |
|------------|-------------------------------------|---|--|--|--|
| LBP | Lead-based paint (or material) | By Paint Chip: ≥0.5 weight % or ≥5,000 mg/kg | | | |
| LCM | Lead containing material (or paint) | By Paint Chip: <0.5 weight % or <5,000 mg/kg | | | |
| ND | No Lead Detected | By Paint Chip: ≤0.006 weight % or ≤60 mg/kg | | | |

LEAD PAINT CHIP RESULTS

| <u>Sample #</u> | <u>Location</u> | Lead Concentration (mg/kg) | Lead Levels |
|-----------------|--------------------------------------|-------------------------------|-------------|
| Pb-01 | Exterior Wall – Stucco | 36.7 | ND |
| Pb-02 | <mark>Exterior Window – Frame</mark> | <mark>652</mark> | LCM |
| Pb-03 | Interior Wall – Drywall | 35.3 | ND |
| Pb-04 | Interior Window – Frame | <32.5 | ND |

Findings

Paint chip sample <u>Pb-02</u> taken at <u>Exterior Window – Frame</u> indicates to be a lead containing material. Workers disturbing this material must have lead in construction training per OSHA requirements. Page 4 of 6



Page 5 of 6



Renovate Repair and Painting Rule: Childproof your home improvements https://www.epa.gov/sites/production/files/2014-09/documents/epa_con_sell_9.5.14.pdf

OSHA – Lead in Construction

Occupational Safety and Health Administration: Lead in Construction https://www.osha.gov/Publications/osha3142.pdf

Terms of Service

- ADVIRO has performed Lead Screening service and provided this report as valid evidence of Lead or Lead-based Paint in accordance with EPA guidelines.
- Further assurance and reduced liability are also provided due to this third-party, licensed, certified and fully insured reporting by ADVIRO.
- No guarantee is expressed or implied that all lead conditions or Lead-Based Paint has been identified in the home or at the subject property.
- This report makes no claim to be in accordance with any other lead inspection, assessment or testing for The U.S. Department of Housing and Urban Development (HUD), California Department of Public Health (CDPH) or Occupational Safety and Health Administration (OSHA).
- Further information of circumstances and additional sampling may be needed. Please call or email our office if there are questions or concerns.

Limitations

The inspection or testing performed maybe inherently limited in scope and nature. No guarantee is expressed or implied that all asbestos has been identified in the building or at the subject property. Inaccessible areas of the building underneath floors, behind walls, above ceilings were not inspected or subject to testing. If you have any questions, please contact ADVIRO.



Page 6 of 6

Signed off by,

Juf Valy

Frank Valerga, Certified Environmental Consultant Advanced Environmental, LLC dba: **ADVIRO**

Certified Asbestos Consultant #14-5279 State of California Division of Occupation Safety and Health

Lead Inspector/Assessor #21965 State of California Department of Public Health

The following supporting documents are attached to this report:

- Photographs of Site and Sample Locations
- Laboratory Analytical Reports
- Floorplan Showing Sample Locations
- CDPH Lead Form-8552
- Lead in Construction OSHA
- Certifications of Inspector-Assessor/Sampling Technician Performing This Survey
- ADVIRO Insurance Information







Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Kelly Muny

Manager

Reviewed By: Kelly Muncy

| Customer: Address: | Adviro (4717) 1038 Leigh Ave | | Orde | r #: | 533373 | | |
|------------------------|------------------------------------|------------------------|--------------------|--------------------|-------------------|-------------|------------|
| | Unit 100A San Jose, CA 9 | 5126 | Matrix Received | | Paint 09/22/23 | | |
| Attn: | | | | Analyzed | | 09/22/23 | |
| Project: Location: | County Of Santa 2202 Soquel Ave | i Cruz e Santa Cruz | Reported | | 09/22/23 | | |
| Number : | 2307-67L | | | PO Num | ber: | CA 95062 | |
| Sample ID Parameter | Cust. Sample ID | Location Method | Sample Date | Weight Total µg | % / Wt. | Conc. | RL* |
| 533373-001 | Pb-01 | Exterior Wall Stucco | 09/21/23 | 319 mg | | | |
| Lead | | EPA 7000B | | 11.7 µg | 0.00367 % | 36.7 mg/kg | 31.3 mg/kg |
| 533373-002 | Pb-02 | Exterior Window Frame | 09/21/23 | 337 mg | | | |
| Lead | | EPA 7000B | | 220 µg | 0.0652 % | 652 mg/kg | 29.7 mg/kg |
| 533373-003 | Pb-03 | Interior Wall Drywall | 09/21/23 | 331 mg | | | |
| Lead | | EPA 7000B | | 11.7 µg | 0.00353 % | 35.3 mg/kg | 30.2 mg/kg |
| 533373-004 | Pb-04 | Interior Window Frame | 09/21/23 | 308 mg | | | |
| Lead | | EPA 7000B | | <10.0 µg | <0.00325 % | <32.5 mg/kg | 32.5 mg/kg |

Analyst: DM 533373-09/22/23 05:00 PM

Federal Lead Paint Statute

| Location | Level | Unit |
|----------------------|-------|-------|
| Lead in paint by wt. | 0.50 | % |
| Lead in paint PPM | 5000 | mg/kg |

Minimum reporting limit: 10.0 μ g. All internal QC parameters were met. Unusual sample conditions, if any, are described. Do not reproduce this report except in full. Values are reported to three significant figures. PPM = mg/kg | PPB = μ g/kg. The test results apply to the sample as received. AIHA LAP, LLC accredited for Lead (Lab ID 100527).

| SLG | | SCH 251 804-3 | 1NEIDE 2 West Ca 353-6778 • www.slabi | R LABORATO ary Street, Richm 800-785-LABS nc.com e-n | DRIES Nond, Vir (5227) • nail: info | GLOBA rginia 2322 Fax 804-3 @slabinc. | L, INC 20-5117 359-1475 .com | 5 iela UP | 53 V:\5 | 33\533 9/22/20 1Z2E28 | x 73 3373 23 9:34:39 / 9984702811 | 4 AN 37 | |
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| Submitting Co. | 7 | | | | Lab WO# | | | Phone | 408-512 | 2912 | | | |
| ADV | IRO | | | | Acct # | 4747 | | Fax / Email | reports@ | goadviro | .com | | - |
| 038 Leigh Ave. #10 | 0A | | · ·- | | **State of | | | **Cert. Required | X | Yes | □ No . | | |
| an Jose, CA 95126 | <u> </u> | | | · | Collection | California | | Encludo m | | r enecial r | eporting or (| data packac | aesl |
| Project Name: Co | ount | 40 | 6 Sonta | Cruz | <u></u> | Specia | Instruction | | quests to | - apcolari | operang er | | <u></u> |
| Project Location: 22 | 202 | Souv | el Ave | Sarta Cruz, 1 | CA 950 | 62 | | | | | | <u>,</u> | |
| Project Number: 2 | 307- | 671 | | | . <u></u> | <u> </u> | | | · · · · · · | | | | |
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| Turn Around Tim | ne | M | atrix / Sample | Type (Select ONE) | | | Tes | sts / Analytes | <mark>i (Select A</mark> | LL that A | oply) | | <u>다른 동안</u> 같은 동안동 |
| 2 hours* | | All s | samples on for | n should be of SAME | Asbe | stos Air / Fibe | er Counts | Asbesto | s Bulk / As | sb ID | Metal | s-Total Cor | <u>1C.</u> |
| 📕 Same day* | | <u>matrix</u> | <u>type.</u> Use add | itional forms as needed | | M (NIOSH 740 | 0) | | A 600/R-93 | /116) · | | etals | |
| 1 business day* | | 🗖 Air | | Solid Solid | | | · | | alitative onl | v) | | | |
| 2 business day* | | 🗖 Aque | eous | U Waste | | M (EPA Level I | | | 198.1/.4/.6 | ,, | | | |
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| 5 business days* | | Hi-Vo | ol Filter (PM10) | Water, Drinking | | Miscellaneous Tests | | | atfield) | • | TCLP / Lead | | |
| Full TCLP (10d) | | | ol Filter (TSP) | | | | | | - | | TCLP / RCRA Metals | | |
| Weekend* | | | | | | Silica - FTIR (NIOSH 7602) | | | BESTOS | AIR: | TCLP / Full (w/ organics) | | |
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| advance. | D | ate | Time | Sample Io | dentificatio | on vrial Type ¹) | Wiped Area (ft ²) | ∖pH / Temp * | <u>Ti</u> Start | me ² Stop | Flow Start | Rate ³ | Total* Air |
| Sample # | Sam | ipled** | Sampled** | | Siug, Maio | <u>, , , , , , , , , , , , , , , , , , , </u> | | | | | | | |
| P6-01 | 9121 | 123 | <u> :27an</u> | Exterior Wall | - Stuclo | - Beige | | | | | | | · |
| Pb-02 | | | 11:30 mm | Exterior wind | ow Fran | ne - wood | - Blue | | · | | - | <u> </u> | |
| Pb - 03 | | | 11.32am | Interior Wall- | Drywall | - white | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Pb - 04 | | V | [1:33Am | Interior Wine | low Fra | me-wood. | Beige | | | | _ | | |
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| Sample return | reque | sted | Ambient tem | Chain-of-Custody docum | entation cont | Inued internally v | vithin lab.Term | a and conditions | s page 2. | | | | |

Site Map: Lead Survey



B - Bulk Sample - Lead Based Paint Detected

- No Lead Based Paint Detected

LEAD HAZARD EVALUATION REPORT

| Section 1 – Date of Lead Hazard Evaluation September 21st, 2023 | | | | | | | | | |
|--|---------------------------|----------------|---------------------|------------------|-------------------------------|--------------------------|--|--|--|
| Section 2 — Type of Lead Hazard Evaluation (Check one box only) | | | | | | | | | |
| ✓ Lead Inspection 🗧 Risk assessment 🧧 Clearance Inspection 📘 Other (specify) | | | | | | | | | |
| | | | | | | | | | |
| Section 3 — Structure Whe | re Lead Hazard Evaluatio | on V | Vas Conducted | | | | | | |
| Address [number, street, apartme | ent (if applicable)] | | City | | County | Zip Code | | | |
| 2202 Soquel Ave. | | | Santa Cruz | | Santa Cruz County | 95062 | | | |
| Construction date (year) | Type of structure | | | | Children living in structure? | | | | |
| or structure | Multi-unit building | | School or daycare | | 📃 Yes 📃 No | | | | |
| pre 1978 | Single family dwelling | | Other | | ✓ Don't Know | | | | |
| Section 4 – Owner of Struc | cture (if business/agency | , lis | st contact person) | | | | | | |
| Name | | | | Tele | phone number | | | | |
| Kristine Conley | | | | 83 | 1-247-7471 | | | | |
| Address [number, street, apartme | ent (if applicable)] | City | | | State | Zip Code | | | |
| 1110 Emeline Ave. | | | Santa Cruz | | CA | 95060 | | | |
| Section 5 – Results of Lea | d Hazard Evaluation (che | eck | all that apply) | | | - | | | |
| No lead-based paint detect | ied 🖌 Intact lead | -bas | sed paint detected | | Deteriorated lead-base | d paint detected | | | |
| No lead hazards detected | Lead-contaminated d | lust | found 📃 Lead-contar | ninat | ted soil found 🖌 Other | Lead Containing Material | | | |
| Section 6 – Individual Con | ducting Lead Hazard Eva | alua | ation | | | | | | |
| Name | | | | Telephone number | | | | | |
| Frank A. Valerga | | | | 40 | 8-512-2912 | | | | |
| Address [number, street, apartment (if applicable)] | | | City | | State | Zip Code | | | |
| 1038 Leigh Ave. #100A | | | San Jose | | СА | 95126 | | | |
| CDPH certification number | S | Signa | ature Child | | | Date | | | |
| LRC-00004234 | | September 25th | | | September 25th, 2023 | | | | |
| Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable) | | | | | | | | | |
| Daniel Alvarado LRC-00009787 | | | | | | | | | |

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;

B. Each testing method, device, and sampling procedure used;

C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health Childhood Lead Poisoning Prevention Branch Reports 850 Marina Bay Parkway, Building P, Third Floor Richmond, CA 94804-6403 Fax: (510) 620-5656

Safety & Health Fact Sheets





Division of Occupational Safety and Health Cal/OSHA Publications Unit

Lead in Construction

T8 CCR Section <u>1532.1</u> covers the requirements on lead safety in construction, and makes employers responsible for complying with those requirements. Employers can reduce the hazard from lead in construction by meeting these requirements and following industry best practices.

Why employers need to be concerned?

- Lead is highly toxic and it can cause damage to brain, kidney, reproductive system, etc.
- Lead poisoning occurs through ingestion or inhalation even at a very low level of exposure.
- The risk to families, especially children, from takehome lead, carried on employees' bodies, shoes or clothing is great.

Benefits of controlling lead exposure

Consider the alternatives to failing to protect your employees from lead exposure: fines up to \$70,000 per violation, medical removal payments to workers with high blood lead levels, and costly job shutdowns. Some companies find that following the lead exposure regulations increases their business since clients want jobs that are safe for both workers and the environment.

What do I need to do to protect my employees from lead poisoning?

Assess lead exposure

Lead can be present in a wide range of materials including paints and other coatings, lead mortars, and base metals to be welded on or treated with abrasive blasting.

- Look at the age of the building or structure, the presence of coatings and other materials that may contain lead.
- Ask the property owner for relevant information.
- Also check the MSDS' of the materials in use to see if they contain lead.

Send samples of materials to a laboratory for lead analysis. Laboratories accredited by the U.S. EPA National Lead Laboratory Accreditation Program are listed at <u>www.epa.gov/lead/pubs/nllap.htm</u>. Testing methods for lead must meet requirements of Title 8 Section <u>1532.1(d)(9)</u>.

Regularly assess the exposure level

Employers must assess the amounts of lead breathed by workers on a regular basis for each task as per Section <u>1532.1(d)</u>. This is usually done by employee breathingzone air sampling. Air sampling results are used to determine the protective measures needed as well as the type of respirator that must be worn for protection.

Have a written compliance program

Prior to starting the job, you shall establish and implement a written compliance program as per <u>1532.1(e)</u>. In addition, you need to provide a written Pre-Job Notification to the nearest Cal/OSHA office within 24 hours of start of the work. The notification can also be made online at <u>http://www.dir.ca.gov/dosh/Permits.html</u>. See Section <u>1532.1(p)</u> for details on required information and types of jobs covered.

Reduce and maintain low lead level

On all construction jobs where lead is present, the employer should reduce and maintain lead levels as low as possible by:

- <u>Housekeeping</u>. Lead dust on surfaces, especially in eating areas, must be controlled by HEPA vacuuming, wet clean-up, or other effective methods.
- Hand and face washing. Workers must have washing facilities with soap and clean water.
- <u>Training</u>. Workers must receive training on lead hazards and how to protect themselves including:
 - ▶ Requirements of Section 1532.1
 - > Nature of the operations scraping, demolition etc.
 - Respiratory protection
 - > Medical surveillance and removal
 - > Engineering controls-vacuum with HEPA filter, etc.
 - > Good work practices eat in area free of lead, etc.
 - > Let employees know of their rights to their records
 - Notify employees in writing of the blood-lead test results within 5 days of receiving the results.
- <u>Using proper respirators</u>. For certain highly hazardous tasks, called trigger tasks, special protective measures must be taken—including specified respirators—until the employer determines that worker airborne exposures to lead are below levels specified in Section <u>1532.1</u>:

Continued in next page

| Contacting Cal/OSHA Consultation Service | |
|--|---|
| Consultation Programs: | |
| http://www.dir.ca.gov/dosh/consultation.html | |
| Toll-free Number: 1-800-963-9424 | |
| Publications: <u>http://www.dir.ca.gov/dosh/puborder.asp</u> | |
| Tools: <u>http://www.dir.ca.gov/dosh/etools/etools.htm</u> | |
| Onsite Assistance Program Area Offices | |
| Central Valley: 559-445-6800 San Diego/Imperial: 619-767-2060 No. California: 916-263-0704 San Bernardino: 909-383-4567 SF/Bay Area: 510-622-2891 San Fernando Valley: 818-901-5754 Santa Fe Springs/LA/Orange: 714-562-5525 | 4 |
| | |

Note: The information provided is not meant to be either a substitute for or legal interpretation of the occupational safety and health regulations. Readers are cautioned to refer directly to Title 8 of the California Code of Regulations for detailed information regarding the regulation's scope, specifications, and exceptions and for other requirements that may be applicable to their operations.

Revised: June 2018

Level 1 trigger tasks

Any of the following with lead-containing coatings or materials: spray painting, manual demolition, manual scraping or sanding, use of heat gun, power tool cleaning with dust collection system.

<u>Minimum required respirator</u>: half-mask respirator with N-100, R-100 or P-100 filters.

Level 2 trigger tasks

Any of the following with lead-containing coatings or materials: using lead-containing mortar, lead burning, rivet busting, power tool cleaning without dust collection system, clean-up activities using dry expendable abrasives, abrasive blasting enclosure movement or removal.

<u>Minimum required respirator</u>: air-supplied hood or helmet, or loose fitting hood or helmet powered airpurifying respirator with N-100, R-100 or P-100 filters.

> Level 3 trigger tasks

Abrasive blasting, welding, cutting, or torch burning on structures where lead-containing coatings or materials are present.

<u>Minimum required respirator</u>: full-face supplied-air respirator operated in positive pressure or continuous flow mode or full-face PAPR with N-100, R-100 or P-100 filters.

The Pre-Job Notification is required for all jobs involving trigger tasks.

Providing interim protective measures

Followings are the interim protective measures required for all trigger tasks until worker airborne exposures are shown to be below levels specified in Section <u>1532.1</u>:

- Respirators, protective equipment and clothing
- Areas for clothes changing and hand washing
- Blood test for lead and zinc protoporphyrin (ZPP)
- Basic lead hazard, respirator, and safety training
- **Posting warning signs.** Section <u>1532.1(i)(6)</u> requires regulated areas with warning signs for all trigger tasks and any other tasks that may reasonably cause hazardous lead exposure at or above the Permissible Exposure Limit (PEL).
- Using special measures for exposures above PEL. When air sampling shows employee exposures above the PEL from any operation, the following controls are required in addition to those for the trigger tasks:
 - Provide respirator protection as per <u>1532.1(f)</u>
 - > Provide protective work clothing as per $\frac{1532.1(g)}{1532.1(g)}$
 - Provide changing and eating areas, and hand washing and showering facilities as per <u>1532.1(i)</u>
 - Provide medical monitoring as per <u>1532.1(j)</u>
 - Provide medical removal protection as per <u>1532.1(k)</u>
 - Employee training as per <u>1532.1(I)</u>
- Maintaining certification. On jobs at residential and public access buildings, workers exposed to lead above the PEL- and their supervisors - must receive state approved training and be certified by the California Dept. of Public Health Services (CDPH).

Information on lead worker certification: Phone: 800-597-LEAD Web: http://www.cdph.ca.gov/programs/CLPPB/

Where can I get help?

The Cal/OSHA Consultation Service helps employers at no cost. Employers can request an industrial hygienist to come to a construction job site, show how air sampling is done and assist in employee training. The Consultation Service is independent of Cal/OSHA's Enforcement Unit.

Frequently Asked Questions

Q. Before starting work on a job that involves disturbance of paint or other coatings, am I required to have a sample of the paint analyzed for lead content?

A. This is the best way to begin assessing the lead hazard at the jobsite. While not specifically required by the Cal/OSHA regulation, material sampling—combined with knowledge of the tasks being done—is the best indicator of the chance of high airborne lead levels, and can help guide the air sampling and exposure control efforts and the choice of required respirators.

Q. If I'm already doing air monitoring and protecting workers with respirators during tasks with high exposures, why do I also need to do blood lead and ZPP monitoring?

A. Blood lead and ZPP monitoring are tools that help assess workers' total exposure to lead—including through ingestion, unmonitored operations, and lead contamination in the vehicle and home. It is the most important benchmark for answering the question: "Am I protecting my workers from the hazards of lead on the job?"

Q. What should my respirator program include?

A. Your respirator program must include respirator selection, medical evaluation, fit testing, and all other required elements as per Section <u>5144</u>.

Q. How do I get started with a lead medical monitoring program and where do I find a physician to do this?

A. The Department of Public Health Occupational Lead Poisoning Prevention Program listed below can help you get started with your lead compliance program.

Resources

T8 CCR1532.1 http://www.dir.ca.gov/title8/1532_1.html

- CDPH, Occupational Lead Poisoning Prevention Program Website: <u>www.cdph.ca.gov/olppp</u> CA Toll Free: 1(866) 627-1587; Out of State: (510) 620-5740
- Painting and Decorating Contractors of America Website: <u>www.pdca.org</u> Phone: 703-383-0800
- SSPC: Society for Protective Coatings Website: www.sspc.org Phone: 412-281-2331

US EPA: Lead in Paint, Dust, and Soil Website: <u>www.epa.gov/opptintr/lead</u> Phone:1(800) 424-LEAD

OSHA: Lead in Construction

http://www.osha.gov/Publications/osha3142.pdf

http://www.osha.gov/OshDoc/data_Hurricane_Facts/lead_in_const ruction.pdf

http://www.osha.gov/OshDoc/data_Hurricane_Facts/lead_hazards _fs.pdf





National Registry of Environmental Professionals Christopher Young Executive Director



Certifications: Daniel Alvarado



NATEC International, Inc

This Card Acknowledge Daniel Alvarado

Holds Training Certification For Asbestos Building Inspector Initial Course



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 06/21/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| PRODUCER | | CONTACT NAME: Chase Tedsen | | | | | |
|------------------------|----------------|---|--------------------------------|-------|--|--|--|
| Chase Tedsen (0M93504) | | PHONE (A/C, NO, EXT): 831_479_7200 | FAX (A/C, NO): 831-621-112(|) | | | |
| Soquel | CA 95073-2428 | E-MAIL ADDRESS: Chase@TedsenAgency.com | | | | | |
| ooquoi | 0/1 00010 2420 | INSURER(S) AFFORDIN | NAIC # | | | | |
| INSURED | | INSURER A: Truck Insurance Exchange 21709 | | | | | |
| | | INSURER B: Farmers Insurance Exchange 2 | | | | | |
| | NTAL, LLC | INSURER C: Mid Century Insurance | 21687 | | | | |
| 1038 LEIGH AVE | | INSURER D: Beazley | 37540 | | | | |
| SAN JOSE | CA 05126 | INSURER E: Colony Specialty | | 39993 | | | |
| SAN JUSE | CA 93120 | INSURER F: Sequoia Insurance Com | pany | 22985 | | | |

COVERAGES

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAME ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CERTIFICATE NUMBER:

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| | | | | | | | | | | | | | М | ED EXP (Any | one person) | \$ | 25,000 |
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| | \times | POLICY | | PROJI | ECT | LOC | | | | | | | PR | ODUCTS - C | OMP/OP AGG | \$ | 2,000,000 |
| | | OTHER: | | | | | | | | | | | *C | ontractor | s Pollution L | . \$ | 5,000,000 |
| | AU | TOMOBILI | ELIAB | ILITY | | | | | | | | | CC (Ea | DMBINED SI a accident) | NGLE LIMIT | \$ | 1,000,000 |
| | | ANY AUT | 0 | _ | | | | | | | | | ВС | DILY INJUR | Y (Per person) | \$ | |
| A | | OWNED AUTOS SCHEDULED AUTOS Y Y 600 | | | 606800363 | | 07/11/2022 | 022 07/11/2024 | BODILY INJURY (Per accident) | | | \$ | | | | | |
| | X | HIRED AI ONLY | JTOS | | × | NON-OWNED AUTOS ONLY | | | | | | | PROPERTY DAMAGE (Per accident) | | \$ | | |
| | | | | | | | | | | | | | | | | \$ | |
| | | UMBRELLA LIAB OCCUR | | | | | | | | ΕA | CHOCCUR | RENCE | \$ | | | | |
| | | EXCESS | LIAB | | | CLAIMS-MADE | | | | | | | AC | GREGATE | | \$ | |
| | | DED | | RETE | ENTIC | DN \$ | | | | | | | | | | \$ | |
| | WC AN | DRKERS CO | OMPE 'ERS ' | NSAT LIABI | ION LITY | | | | | | | | × | PER STATUTE | OTHER | \$ | |
| | AN | Y PROPRIE | TOR/ | PARTI | NER/ | Y/N | N/A | | | | | | E.L. EACH ACCIDENT | | \$ | 1,000,000 | |
| F | EX | CLUDED? (| Mand | atory | in NI | к H) | | | QWC1183735 | | 12/27/22 | 12/27/23 | E.L. DISEASE - EA EMPLOYEE | | \$ | 1,000,000 | |
| | lf y OP | es, describ ERATIONS | e und below | er DES V | SCRIF | PTION OF | | | | | | | E.L. DISEASE - POLICY LIMIT | | \$ | 1,000,000 | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| DESCI | RIPTI | ON OF OP | ERATI | ONS/ | LOC | ATIONS/VEHICLE | ES (ACORD | 101, Add | itional Remarks Schedu | ile, may be at | ttached if more spa | ce is required) | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| CERTI | CERTIFICATE HOLDER CANCELLATION | | | | | | | | | | | | | | | | |
| SHOL | | | | | | | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION | | | | | | | | | | |

| CERTIFICATE HOLDER | CANCELLATION |
|--------------------|--|
| | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. |
| | AUTHORIZED REPRESENTATIVE Chase Tedsen |