Geo-Logic ASSOCIATES

December 18, 2020
Project PA20.1041.00

Matt Zaheri
Stevens Creek Chrysler Jeep
4100 Stevens Creek Boulevard
San Jose, California 95129

Subject: Analytical Sampling and Testing, Stevens Creek Chrysler Jeep, 4100 Stevens Creek Boulevard, San Jose, California

Dear Mr. Zaheri,

This letter presents the results of our analytical sampling and testing at the existing Stevens Creek Chrysler Jeep dealership located at 4100 Stevens Creek Boulevard, in San Jose, California.

PROPOSED PROJECT

The proposed improvements include the construction of a new building in the existing asphalt concrete pavement area to the east of the existing service building, a new entrance driveway, exterior flatwork area, retaining walls, and underground utilities. As a part of the project review and approval, the City of San Jose has requested soil samples be collected in the upper 6 to 12 inches below ground surface and the samples be analyzed for concentration of organochlorine pesticides, arsenic, and lead.

SCOPE OF SERVICES

The objective of our services was to collect soil samples from the project area and perform laboratory analytical testing to determine, if detected, concentration level of organochlorine pesticides, arsenic, and lead in the samples. The scope of services performed by our staff is discussed below.

1. Collected three soil samples from the project area, between depths of 6 and 12 inches below ground surface.

2. Submitted the collected samples to a State certified laboratory for analytical testing.

3. Reviewed the analytical test results.

4. Prepared this letter summarizing our findings, conclusion, and recommendations.

SAMPLING ACTIVITIES

On November 23, 2020, our representative collected three soil samples (ES#1, ES#2, and ES#3) at the locations approximately shown on the attached Figure 1, Sample Location Map. At each

sampling location, an electric jackhammer was used to excavate to the desired sample depth and to break up the soil to facilitate collection. The soil samples were collected using decontaminated, stainless steel hand shovel, by scooping soil directly into new, laboratory-provided containers. After collection, each sample container was sealed, labeled, and placed in a cooler. The samples were picked up by the analytical laboratory, BC Laboratories, the same day with completed chain-of-custody documentation outlining sampling date, time, sample condition, and requested analytical methods. The sampling equipment was cleaned between holes using Liquinox and distilled water.

LABORATORY ANALYSIS

The following Environmental Protection Agency (EPA) tests were performed on the collected samples.

Test/Sample	ES#1	ES#2	ES#3
Lead and Arsenic (EPA 6010B)	X	X	X
Organochlorine Pesticides (EPA 8081A)	X	X	X

All analyses were completed within the respective holding times as required by the analytical method, and the results are discussed below. Chain-of-custody documentation is attached with this letter.

FINDINGS

The test results are summarized in the attached Table 1 except for "non-detected" constituents (i.e. concentration levels of constituents are below the detection levels of the laboratory equipment used). The test results were compared to the following government published screening levels.

- United States Environmental Protection Agency (USEPA) Regional Screening Levels, November 2020, for industrial soil exposure.

- California Department of Toxic Substances Control, Office of Human Health and Ecological Risk Assessment, Note 3, June 2020.

Analytical Results for Arsenic and Lead

Each of the three samples was analyzed for total concentrations of lead and arsenic. As shown on the attached Table 1, the concentrations of arsenic are above the USEPA RSL for industrial soil and DTSC HERO screening level. However, these levels are below the background level of 11 mg/km for soils in the San Francisco Bay Area.[1]

[1] Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, a thesis Submitted to the faculty of San Francisco State University in partial fulfillment of the requirements for the degree Master of Science in Geosciences, by Dylan Jacques Duverge, December 2011.

The concentrations of lead are below the USEPA RSL for industrial soil and DTSC HERO screening level.

Analytical Results for Organochlorine Pesticides

The measured concentrations of DDD, DDE, and DDT in the three samples are below the USEPA RSL for commercial/industrial shallow soil exposure. No other pesticide constituents were detected in the three samples.

RECOMMENDATIONS

Based on the results of our analytical testing, it is our opinion the detected concentrations of the tested constituents are generally below the screening levels and background arsenic level cited in this letter.

LIMITATIONS

In preparing the findings and professional opinions presented in this letter, Geo-Logic Associates (GLA) has endeavored to follow generally accepted principles and practices of the geotechnical and environmental engineering professions in the area and at the time our services were performed. No warranty, express or implied, is provided.

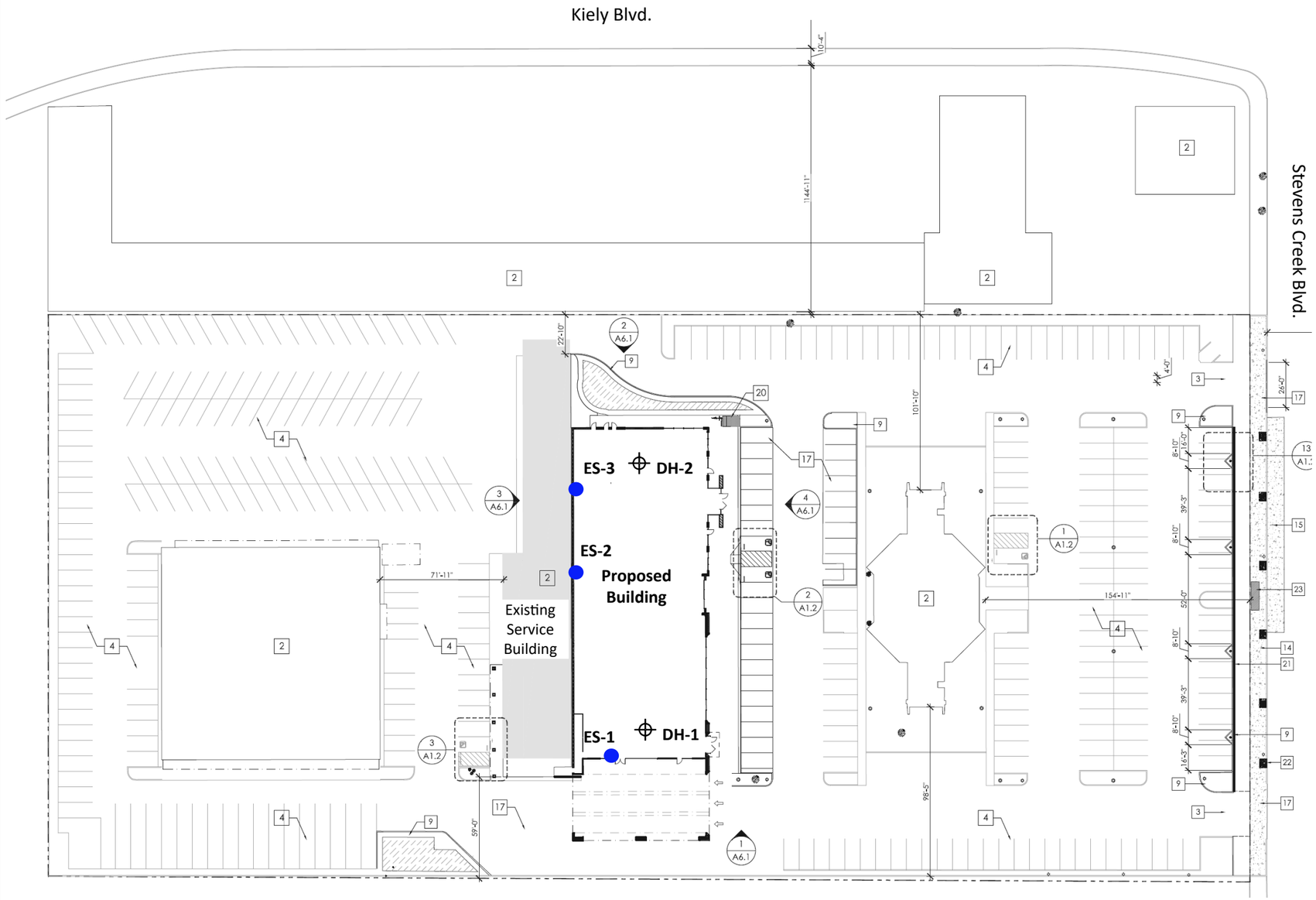
Sincerely,

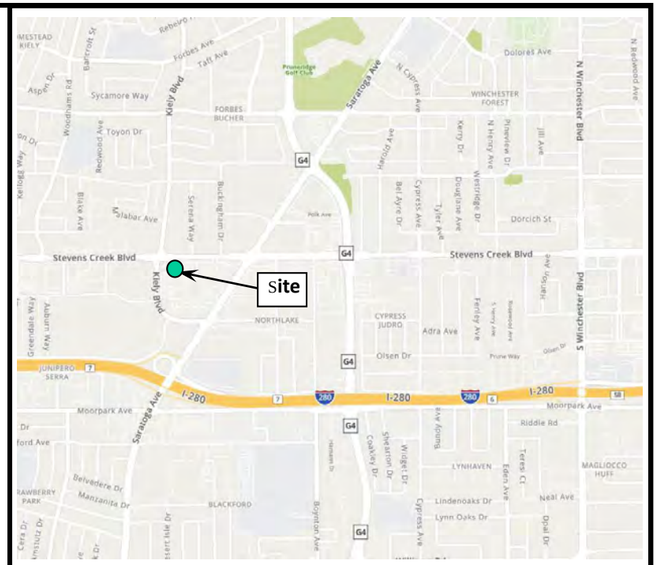
Geo-Logic Associates

Francesca Senes, GIT
Staff Professional

Chalerm (Beeson) Liang
GE 2031
Supervising Geotechnical Engineer

Attachments: Figure 1, Sample Location Map
Table 1, Summary of Analytical Test Results
Chain-of-custody





Vicinity Map (No Scale)

Legend

DH-2 Number & approximate location of exploratory drill hole

ES-3 Number and approximate location of environmental sample

Base

Sheet A1.2, New Site Plan & Existing Lighting Plan, Stevens Creek CDR+J Tenant Improvement, 4100 Stevens Creek Blvd., San Jose, CA 95129, prepared by Habitec, latest revision dated 6/30/2020.

Approximate Scale (feet)

0 100

Geo-Logic ASSOCIATES	16055 Caputo Drive, Suite D Morgan Hill, California 95037 Phone (408) 778-2818 Fax (408) 779-6879	Drafted By: Date: Checked By: Revision:	**SITE PLAN** Stevens Creek Chrysler Jeep 4100 Stevens Creek Boulevard San Jose, California

FIGURE 1

PROJECT PA20.1041

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TABLE 1: SUMMARY OF ANALYTICAL TEST RESULTS

Constituent	Screening Levels		SAMPLE I.D.		
	US EPA RSL[4] Industrial Soil	DTSC HERO[5] Commercial/Industrial Soil, Cancer Endpoint	ES#1	ES#2	ES#3
Arsenic[2]	3	0.36	6.1	8.2	5.6
Lead	800	80[6]	23	25	22
4,4 DDD	2.5	---	0.0026	0.0093	0.036
4,4 DDE	9.3	---	0.068	0.09	0.059
4,4 DDT	8.5	---	0.014	0.069	0.19

Notes:

1. Samples collected on November 23, 2020.
2. Background concentration for arsenic in the San Francisco Bay Area is 11 mg/Kg.
3. All units are in milligrams per kilogram (mg/kg).
4. U.S. Environmental Protection Agency Regional Screening Levels, November 2020.
5. California Department of Toxic Substances Control, Office of Human Health and Ecological Risk Asessments Note 3, June 2020.
6. DTSC HERO Note 3, June 2020, screening level for residential soil.

BC LABORATORIES, INC.

Chain of Custody Form

Page ____ of ____

Report To:
Client: Geo-Logic Associates
Attn: Francesca Senes
Street Address: 16055 Caputo Dr. Suite D
City, State, Zip: Morgan Hill, CA 95037
Phone: (530) 955-5023 Fax:
Email: FSENES@GEO-LOGIC.COM
Work Order #: 20-34647

Project #: PA20.1041.00
Project Name: Stevens Creek Chrysler Jeep
Sampler(s): FS.

Analysis Requested

Please refer to the back of this page for completion instructions and method legend.

Sample #	Description	Date Sampled	Time Sampled	Pesticides	Lead	Arsenic	Soil	Sludge	Drinking Water	Ground Waater	Waste Water	Other	Notes
-1	#1	11/23/20	13:37	/	/	/	/						
-2	#2	11/23/20	13:40	/	/	/	/						
-3	#3	11/23/20	13:47	/	/	/	/						

Comments:

Result Request **Surcharge
☒ STD (10 Days) ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

CHK BY: GSO
DISTRIBUTION: ~~WA~~ ~~SUB~~ ~~BT~~ SUM
SUB OUT ☐

Billing ☒ Same as above
Client:
Address:
City: State: Zip:
Attn:
P.O. #:

EDF Required? Geotracker ☐ Yes ☒ No
Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)
System # (Needed for EDT)

	Date	Time		Date	Time
1. Relinquished By: Francesca Senes	11/23/20	1409	1. Received By: [signature] PBW3	11/23/20	1409
2. Relinquished By: [signature] BCLVIA GSO	11/23/20	1655	2. Received By: [signature]	~~11-23~~ 11-24-20	0951
3. Relinquished By			3. Received By		