

October 11, 2018

*Delivered via email*

Mr. Robert Price  
San Mateo-Foster City School District  
Facilities Department  
1410 South Amphlett Blvd.  
San Mateo, California 94402  
[rprice@smfcsd.net](mailto:rprice@smfcsd.net)

Re: Change Order Request for Preliminary Endangerment Assessment  
New North Central Elementary School  
San Mateo, California

Dear Mr. Price:

Roux Associates, Inc. (Roux) has prepared this Change Order Request to San Mateo-Foster City School District (Client) for the Preliminary Endangerment Assessment (PEA) for the New North Central Elementary School, located adjacent to College Park Elementary School, between E Poplar Avenue and North Humboldt Street in San Mateo, California (Site, Figure 1). Additional budget is required to complete this PEA based on the comments and additional sampling requested by the Department of Toxic Substances Control (DTSC) during meetings and iterations of the sampling plan in June and July 2018.

Currently, the Property is subdivided into a northwestern unused area; a central storage area including two buildings and old school buses; and a southeastern parking area (Figure 2). The northwestern unused area comprises a dirt lot and one former water station valve. The central storage area contains plastic gasoline containers, paints, pesticide applicators, old buses, abandoned construction vehicles, abandoned boilers, old tires, and old electronics. The southern portion of the Property is primarily an asphalt parking area with two storm drains and access to the sewer and water lines. There is a transformer located in the eastern corner of the Property. The Property is in a mixed residential neighborhood which also contains several schools and light commercial use (with the National Guard located across Humboldt Street and a bus transportation yard across E Poplar Avenue).

#### **ADDITIONAL SAMPLING**

Roux's December 8, 2017 proposal included advancing nine soil borings at depths ranging from 1 to 5 feet below ground surface. The DTSC had requested additional borings, additional analyses, and a building sampling survey.

In accordance with comments from DTSC, the PEA work plan included eighteen soil borings from 1 to 5 feet below ground surface (bgs), and one additional soil boring location to a total depth of 10 feet bgs

<sup>1</sup> Per the County of Santa Clara records (Book 7863, Page 208), San Jose Water Company was granted a non-exclusive easement to construct, operate, and maintain an access roadway and a pipeline within APN 237-18-095 on September 20, 1967.

for the purpose of collecting a groundwater sample. DTSC also requested expanding the laboratory analysis list as follows:

Soil samples will be analyzed for:

- The United States Environmental Protection Agency (USEPA) Method 8081A for organochlorine pesticides;
- USEPA Method 8151A for organochlorine herbicides;
- USEPA Method 6010B/7000 for CAM 17 metals;
- California Air Resources Board 435 by polarized light microscopy for naturally occurring asbestos with a detection limit of 0.25%; and
- USEPA Method 8082 for polychlorinated biphenyls (PCBs).

One grab groundwater sample will be collected to evaluate the potential for impacts from a LUST case in the neighboring property, thus the groundwater will be analyzed for the following:

- USEPA Method 8260B for volatile organic compounds, and total petroleum hydrocarbons (TPH) as gasoline; and
- USEPA Method 8015B for TPH as diesel and motor oil.

In addition to the soil and groundwater samples, DTSC also requested that building samples will be collected. Roux will subcontract a hazardous materials specialist to collect building samples and analyze the building samples for the following:

- Lead based paint by USEPA Method 3050B; and
- PCBs by USEPA Method 8082.

This Change Order includes the additional labor hours to complete the additional sampling, subcontractor costs, and other direct costs associated with the PEA sampling plan.

#### **DTSC Comments on the PEA Work Plan**

DTSC completed their review of the PEA Work Plan and provided comments in their September 20, 2018 letter *Review of Preliminary Environmental Assessment Work Plan, San Mateo-Foster City School District, New North Central Elementary School, 715 Indian Avenue, San Mateo, San Mateo County (Project Code 204301)*. One of their comments specifically requested additional samples to be included during the PEA Work Plan beyond what was previously agreed upon in meetings with DTSC before the submittal of the PEA Work Plan.

Roux conducted several phone calls with DTSC to discuss the additional sampling requirement. Ms. Elizabeth Tisdale, DTSC Project Manager for the Site, stated the PEA Guidance requires a grid approach to historical building with sidewall and center points collected within the grid, and DTSC's request to collect only perimeter and center samples per historical building is a reduction to what the required sampling should be. As such, this requirement added an additional 20 soil samples to the laboratory analyses.

The 20 perimeter soil samples will be analyzed for:

- USEPA Method 8081A for organochlorine pesticides;
- USEPA Method 6010B for lead; and
- USEPA Method 8082 for polychlorinated biphenyls (PCBs).

This Change Order includes the additional labor hours to complete the *Response to Comments* letter and revisions to the PEA Work plan, and the additional costs associated with 20 additional samples associated with the revised PEA sampling plan.

#### CHANGE ORDER REQUEST

The total change order request was for an additional \$21,600. The summary of the change order is as follows:

Type	Change Order #1 Cost	Explanation
Roux Labor	\$ 6,200.00	Includes 1 extra day of sampling, plus additional regulatory negotiation based on the number of reviews between DTSC and Roux on the PEA Work Plan.
Driller	\$ 2,000.00	Driller costs include 9 extra soil borings, 1 extra day of field work, plus materials.
Laboratory	\$ 7,900.00	Laboratory breakdown included on the attached PDF.
Building Survey	\$ 5,000.00	New cost: Roux subcontractor Terracon to conduct building lead and PCB sampling.
Other Direct Costs	\$ 500.00	Includes an extra field day for vehicle, PID Rental, and sampling supplies

Further breakdown of the laboratory comparison between the original proposal and the change order is included on attached Table 1. Roux will complete this assignment on a time and materials (T&M) basis in accordance with our 2018 Fee Schedule. The total amount of this Change Order is **\$21,600**. Approval of this Change Order request will bring the total Professional Services Agreement Sum, to **\$61,600**. Once approved, the total revised budget will not be exceeded without prior approval from the Client. Roux will continue to conduct the scope of work set forth herein using the Agreement that is presently in effect between Roux and San Mateo-Foster City School District for the ongoing work at the Site, which is incorporated by reference.

#### LIMITATIONS

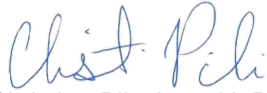
Roux has proposed what we believe is a Scope of Work consistent with the Client's goals. No investigation is thorough enough to describe all conditions of interest at a given site. If conditions were not identified during the implementation of the proposed Scope of Work, such a finding should not be construed as a guarantee of the absence of such conditions at the Site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed. Roux will not be able to report on, or accurately predict events that may change Site conditions after the investigation has been completed.

**CLOSING**

Should you have any questions or require further information regarding this Change Order Request, do not hesitate to contact Angela Liang Cutting by telephone at 415-967-6017 or by email at [acutting@rouxinc.com](mailto:acutting@rouxinc.com).

Sincerely,

**ROUX ASSOCIATES, INC.**



Christine Pilachowski, P.G.  
Senior Geologist



Angela Liang Cutting, Ph.D., P.E.  
Principal Engineer

**Attachments:**

1. Figure 1: Vicinity Map
2. Figure 2: Site Boundary
3. Figure 3: Site Plan
4. Laboratory Comparison for Preliminary Endangerment Assessment (PEA)

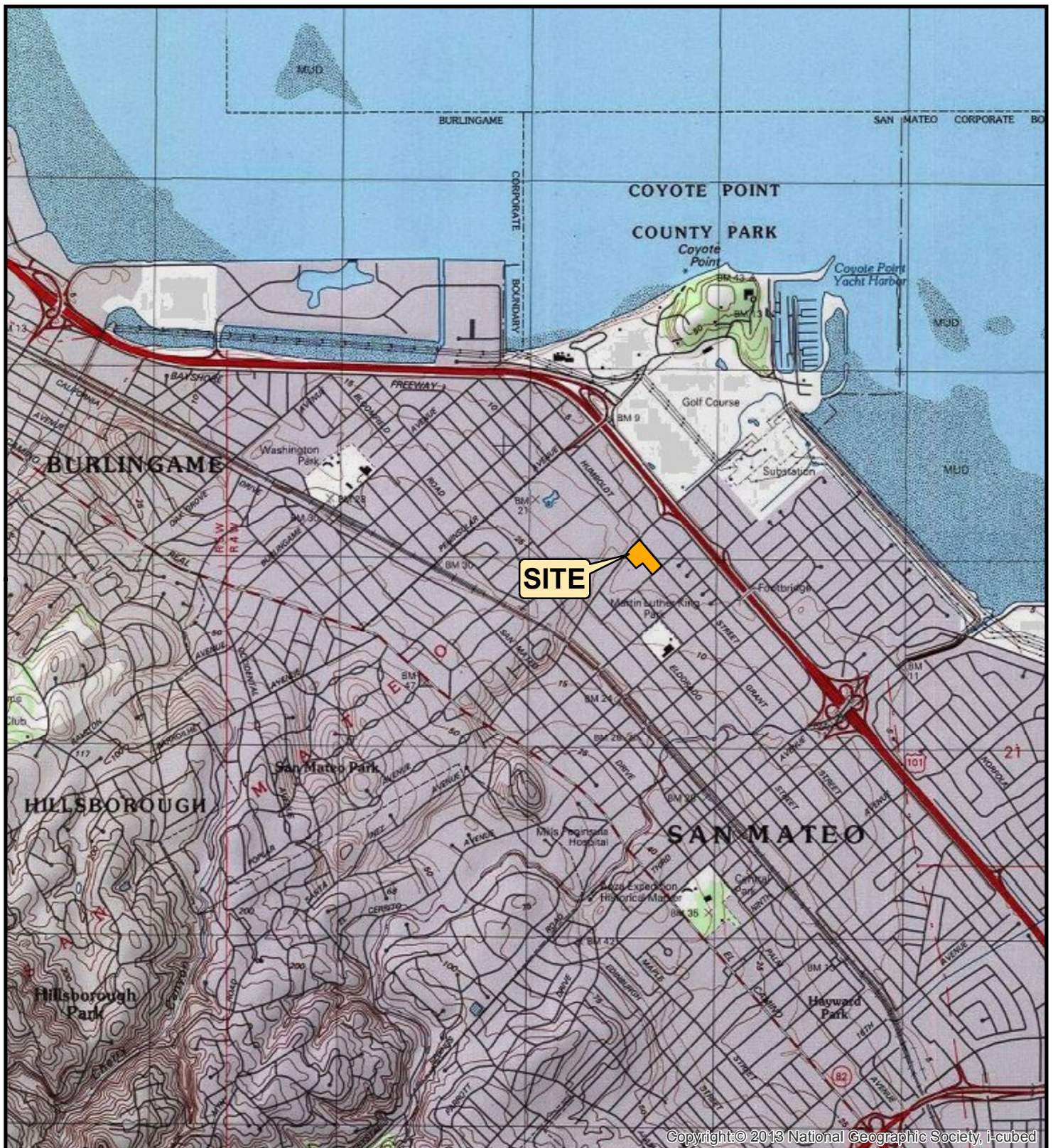


**Change Order Request**  
***San Mateo-Foster City School District, San Mateo, CA***

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**FIGURE 1**

Vicinity Map



Copyright © 2013 National Geographic Society, i-cubed

Title:

## SITE LOCATION MAP

COLLEGE PARK ELEMENTARY SCHOOL  
FUTURE DEVELOPMENT AREA  
715D INDIAN AVENUE  
SAN MATEO, CALIFORNIA

Prepared For:

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

**ROUX**

ROUX ASSOCIATES, INC.  
Environmental Consulting  
& Management

Compiled by: GM

Date: 13OCT17

FIGURE

Prepared by: GM

Scale: " = 3,000 '

1

Project Mgr: ALC

Project:

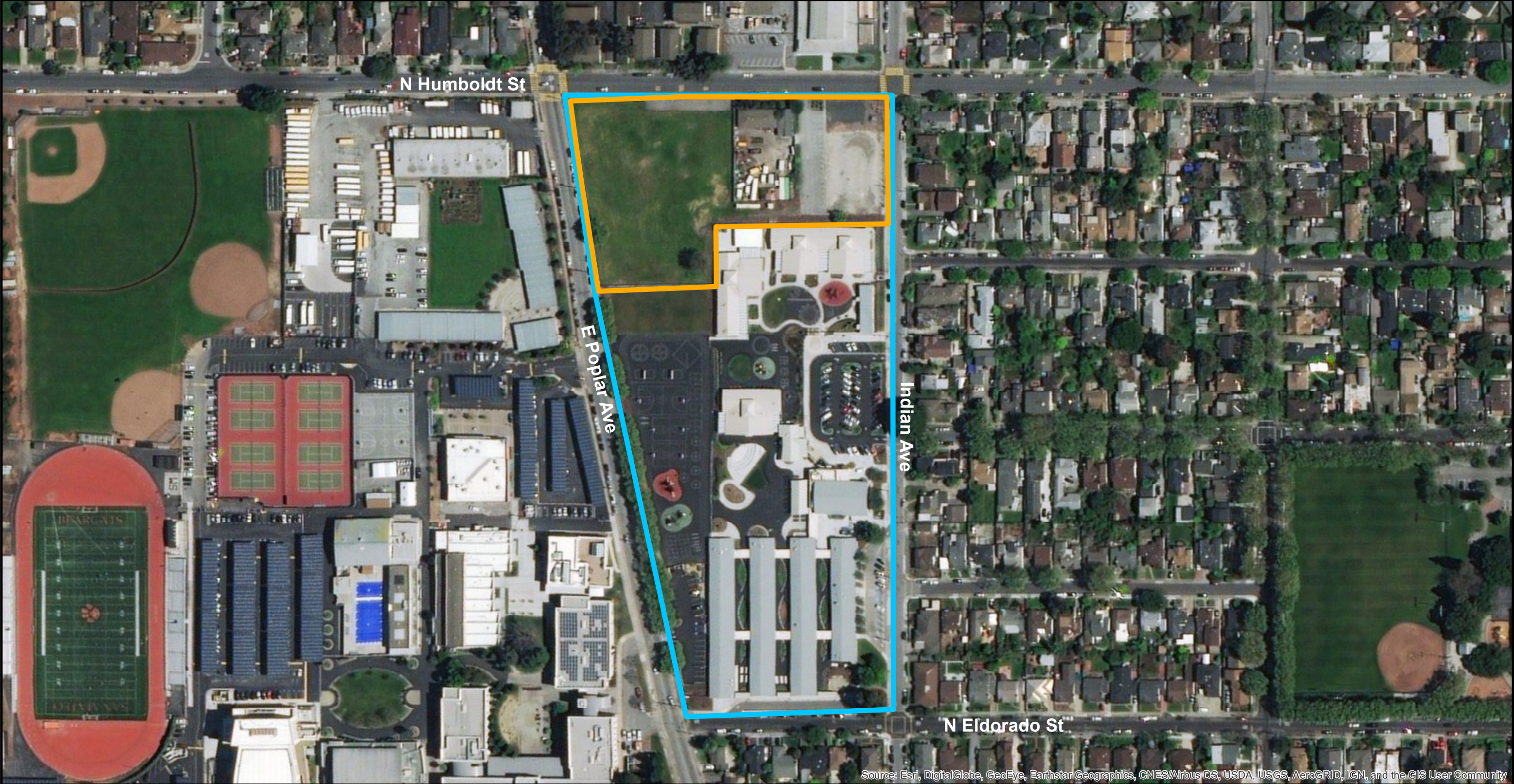
File: Figure 1 Site Location Map

1,500 0 1,500 3,000  
Feet



Site Boundary





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



SITE BOUNDARY: 715D INDIAN AVE



SCHOOL BOUNDARY: 715 INDIAN AVE




Title:

SITE BOUNDARY

FUTURE DEVELOPMENT AREA  
715D INDIAN AVE, SAN MATEO, CA

Prepared For:

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

  
ROUX ASSOCIATES, INC.  
Environmental Consulting  
& Management

Compiled by: GM

Date: 03OCT18

FIGURE

Prepared by: LM

Scale: As Shown

2

Project Mgr: ALC

Project: x8616.185.1

File: PEA\_Site\_Boundaries



Site Plan





- SITE BOUNDARY
- CURRENT BUILDING OUTLINE
- APPROXIMATE LOCATION OF HISTORIC BUILDING OUTLINE
- APPROXIMATE LOCATION OF HISTORICAL CAL WATER SERVICE STRUCTURES
- APPROXIMATE LOCATION OF GEOTECHNICAL BORING
- APPROXIMATE LOCATION OF PROPOSED SOIL BORING
- APPROXIMATE LOCATION OF LEAD BASED PAINT SAMPLE
- APPROXIMATE LOCATION OF CAULKING SAMPLE

- STRUCTURE KEY**
- 1 – WELL PUMP HOUSE
  - 2 – CONCRETE RESERVOIR (100,000 GALLONS)
  - 3 – PUMP HOUSE
  - 4 – WASH WATER SUMP (60,000 GALLONS)
  - 5 – CLARIFYING BASINS (180,000 GALLONS)
  - 6 – MIXING TANKS
  - 7 – WATER SOFTENING PLANT
  - 8 – ELEVATED WATER TOWER
  - 9 – SLUDGE BEDS

- NOTES:**
- 1. IMAGE SOURCE:
    - GOOGLE EARTH, 2018
  - 2. HISTORICAL CAL WATER SERVICE STRUCTURES & GEOTECHNICAL BORINGS SOURCE:
    - TRC, 2015. SUMMARY OF RESEARCH NORTH CENTRAL SCHOOL SITE. SEPTEMBER 9.
  - 3. HISTORICAL BUILDINGS SOURCES:
    - ENVIRONMENTAL DATABASE RESOURCES (EDR), 2017. AERIAL PHOTOS PACKAGE.
    - EDR, 2017. SANBORN MAP PACKAGE.




Title:

SITE PLAN

FUTURE DEVELOPMENT AREA  
715D INDIAN AVE, SAN MATEO, CA

Prepared For:  
SAN MATEO-FOSTER CITY SCHOOL DISTRICT

  
ROUX ASSOCIATES, INC.  
*Environmental Consulting  
& Management*

Compiled by: GM

Date: 10OCT18

FIGURE

Prepared by: GM

Scale: As Shown

3

Project Mgr: ALC

Project: x8616.185.1

File: PEA\_Proposal\_Figure\_Update



**Change Order Request**  
***San Mateo-Foster City School District, San Mateo, CA***  

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**ATTACHMENT**

Laboratory Comparison for Preliminary Endangerment Assessment (PEA)

**Table 1. Laboratory Comparison for Preliminary Endangerment Assessment (PEA),  
715 Indian Avenue, San Mateo, CA**

Original Budget

<b>Analysis</b>	<b>Method</b>	<b>TAT (days)</b>	<b>Media</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Total Cost</b>
Pesticides by 8081A	SW8081A	5	Soil	8	\$ 75.00	\$ 600.00
Herbicides by 8151A	SW8151A	5	Soil	8	\$ 145.00	\$ 1,160.00
CAM 17 Metals	SW6020	5	Soil	8	\$ 123.00	\$ 984.00
Asbestos	Abestos	5	Soil	4	\$ 500.00	\$ 2,000.00
TPH-g and VOCs by 8260B	SW8260B	5	Water	1	\$ 120.00	\$ 120.00
TPH-d and -mo by 8015M	SW8015B	5	Water	1	\$ 50.00	\$ 50.00
CAM 17 Metals	SW6020	5	Water	1	\$ 123.00	\$ 123.00
					Markup	\$ 755.55
					Total:	\$ 5,792.55

Change Order #1

<b>Analysis</b>	<b>Method</b>	<b>TAT (days)</b>	<b>Media</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Total Cost</b>
SW8081A/8082 (OC Pesticides+PCBs) ESLs	SW8081A/8082	5	Soil	35	\$ 120.00	\$ 4,200.00
ESL Clean-up for EPA 8081/82	SW3550B	2	Soil	15	\$ 110.00	\$ 1,650.00
SW8151A (Chlorinated Herbicides)	SW8151A	5	Soil	6	\$ 145.00	\$ 870.00
SW6020 (CAM 17)	SW6020	5	Soil	10	\$ 110.00	\$ 1,100.00
SW7471B (Mercury)	SW7471B	5	Soil	10	\$ 28.00	\$ 280.00
Asbestos, CARB 435, 400 Point	435 CARB	5	Soil	5	\$ 100.00	\$ 500.00
Asbestos, TEM	Abestos	5	Soil	5	\$ 200.00	\$ 1,000.00
SW6020 (Lead)	SW6020	5	Soil	20	\$ 20.00	\$ 400.00
TPH(g) & 8260 by P&T GCMS	SW8260B	5	Water	1	\$ 120.00	\$ 120.00
SW8015B (Diesel & Motor Oil)	SW8015B	5	Water	1	\$ 45.00	\$ 45.00
					Markup	\$ 1,524.75
					Total:	\$ 11,689.75