



ENVIRONMENTAL HEALTH SERVICES
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October 9, 2013

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Thanh and Pham Phung
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Resident
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(Parcel #9-691-1)

Resident
2719 Martin Luther King Jr. Way
Oakland, CA 94609
(Parcel #9-691-2)

Resident
669 28th Street
Oakland, CA 94609
(Parcel #9-691-43)

Resident
2723 Martin Luther King Jr. Way
Oakland, CA 94609
(Parcel #9-691-2)

Subject: Detections of Lead in Shallow Soils on Off-site Properties for Fuel Leak Case No. RO0000145 and GeoTracker Global ID T0600101876, Shell/Auto Tech West, 2703 Martin Luther King, Jr. Way, Oakland, CA 94612

Dear Landowners and Residents:

The purpose of this correspondence is to summarize the results of investigations conducted to date for shallow lead in soils. The investigations indicate that lead is present in shallow soils (typically within in the upper one foot) at concentrations that exceed the U.S. Environmental Protection Agency (USEPA) Preliminary Remedial Goal for lead of 400 parts per million at sampling locations that are near your property or residence. The lead in shallow soil was detected as part of site investigation and cleanup activities for a fuel leak case at the former gasoline service station at 2703 Martin Luther King Jr. Way. As part of the investigation activities for the fuel leak case, Shell Oil Products US and their consultants collected shallow soil samples in the area of a former aboveground storage tank (AST) that was located in the northern corner of the property (see Attachments 1 and 2). Total petroleum hydrocarbons (TPH) as motor oil and TPH as diesel were detected in shallow soil near the former AST at concentrations up to 11,000 parts per million (ppm) and 4,500 ppm, respectively. The source of the TPH as motor oil and TPH as diesel appeared to be surface spills in the area of the former AST. Lead was also

detected in shallow soil at 2703 Martin Luther King Jr. Way at concentrations ranging from 25 up to 4,200 ppm.

In order to assess the extent of the petroleum hydrocarbons and lead in shallow soil, ACEH requested that Shell conduct additional shallow soil sampling at 2703 Martin Luther King Jr. Way and the adjacent off-site properties. During additional soil sampling in December 2010, April 2012, and April 2013, soil samples were collected on two adjacent properties (Parcel #9-691-1- which includes 663 and 665 28th Street and Parcel #9-691-2 which includes 2719-23 Martin Luther King Jr. Way). Off-site soil samples contained lead at concentrations ranging from 170 up to 10,000 ppm. The lead in the shallow off-site soils did not appear to be co-located with petroleum hydrocarbons. Furthermore, lead was detected at elevated concentrations in shallow soil samples that were collected north of the area potentially affected by spills from the above ground storage tank. The lead does not appear to be related to spills from the above ground storage tank but is likely related to regional and ambient urban sources.

Lead is a heavy metal that occurs at low levels in all soils. Natural concentrations of lead in Oakland soils prior to urbanization are generally in the range of 20 to 50 ppm. However, urban soils have been found to have higher concentrations of lead due to contributions primarily from lead-based paint and automobile emissions from combustion of leaded gasoline (lead was added to gasoline as an anti-knock ingredient prior to 1986). Recent studies show that the lead content of some urban soils may range from 100 ppm to more than 1,000 ppm (Craigmill and Harivandi, *Home Gardens and Lead*, University of California Agriculture and Natural Resources Publication 8424, September 2010). A survey of 292 soil samples collected from bare soil in Alameda County indicated that over 60% of the bare soil samples contained more than 400 ppm of lead. Elevated concentrations of lead in urban areas are often directly related to distance from highly traveled roadways and/or buildings with lead-based paint.

The USEPA conducted an assessment of lead in residential soils in the West Oakland area (USEPA, West Oakland Residential Lead Assessment Preliminary Report 10/15/09-10/28/09). The USEPA study concluded that lead levels in soil in Oakland tend to be elevated and that lead levels in urban areas commonly exceed an action level of 400 ppm. The USEPA study concludes or recommends the following:

- Ingestion of lead is the greatest risk
- Wash frequently, especially after working in your yard
- Wash any fruit or vegetables that you grow in your yards or gardens
- Wash toys that children play with outside
- Take outdoor shoes off inside
- Vacuum and clean indoor floors regularly.

We recommend that you follow the above suggested practices. Further information on lead in soil and the home is also available from the Alameda County Community Development Agency Healthy Homes Department, which can be reached at 510-567-8280 or 1-800 253-2372. .

Landowners and Residents
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If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org. Case files can be reviewed online at the following website: <http://www.acgov.org/aceh/index.htm>.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Attachments: TPHmo, TPHd, and Lead in Soil
Soil Chemical Concentration Map

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)

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(*Sent via E-mail to: perry.pineda@shell.com*)

Rodney and Janet Kwan, 1834 Alameda Ave., Alameda, CA 94501

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Emeryville, CA 94608 (*Sent via E-mail to: pschaefer@craworld.com*)

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GeoTracker, eFile

EXPLANATION

- HA-9 ▽ Hand auger location (CRA, 2013)
- B-1 ■ Soil sample location (CRA, 2013)
- HA-9 ▽ Hand auger location (CRA, 2010, 2012)
- HA-1 ○ Hand auger boring location (CRA, 2009)
- MW-1 ● Monitoring well location
- V-1 ● Soil vapor well location
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Sanitary sewer line (SAN)
- Water line (W)
- Unknown utility line (?)

ID	Date	Depth	TPHmo	TPHd	BaP	Lead
HA-9-0	4/22/2013	0	NA	NA	<1.3	NA

Notes:
 Soil sample ID, date, depth in feet below grade (fbg), and concentrations in milligrams per kilogram (mg/kg)
TPHmo = Total petroleum hydrocarbons as motor oil
TPHd = Total petroleum hydrocarbons as diesel
BaP = Benzo(a) Pyrene
NA = Not analyzed
<X = Not detected at reporting limit X
 - Results in **BOLD** equal or exceed applicable environmental screening level

ID	Date	Depth	TPHmo	TPHd	BaP	Lead
HA-21-0	4/22/2013	0	250	100	NA	350

ID	Date	Depth	TPHmo	TPHd	BaP	Lead
HA-20-0	4/22/2013	0	<5.0	<5.0	NA	170

ID	Date	Depth	TPHmo	TPHd	BaP	Lead
HA-9-0	4/22/2013	0	NA	NA	<1.3	NA

Notes:
 Soil sample ID, date, depth in feet below grade (fbg), and concentrations in milligrams per kilogram (mg/kg)
TPHmo = Total petroleum hydrocarbons as motor oil
TPHd = Total petroleum hydrocarbons as diesel
BaP = Benzo(a) Pyrene
NA = Not analyzed
<X = Not detected at reporting limit X
 - Results in **BOLD** equal or exceed applicable environmental screening level

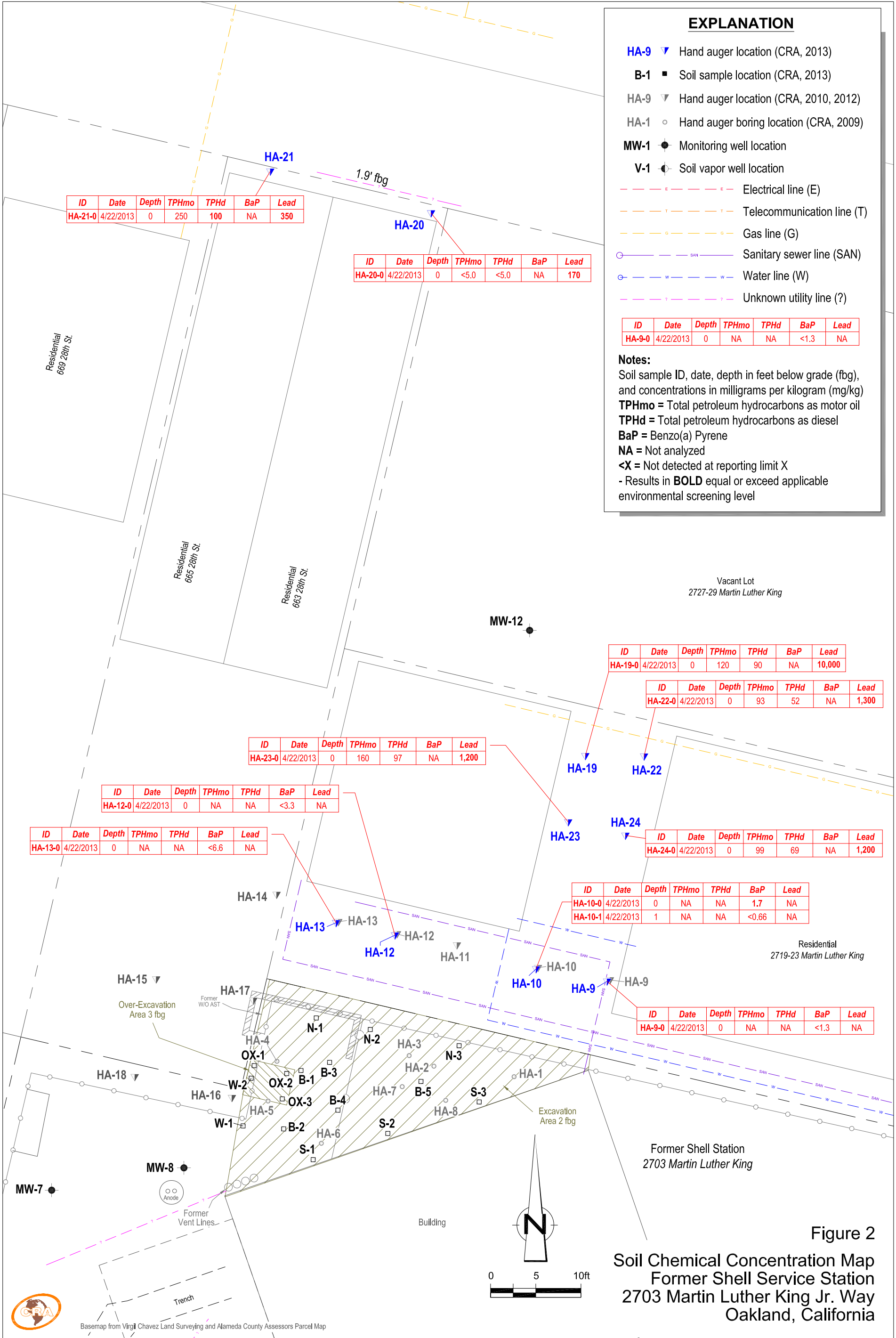


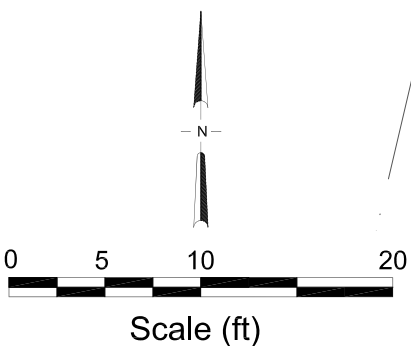
Figure 2
 Soil Chemical Concentration Map
 Former Shell Service Station
 2703 Martin Luther King Jr. Way
 Oakland, California

EXPLANATION

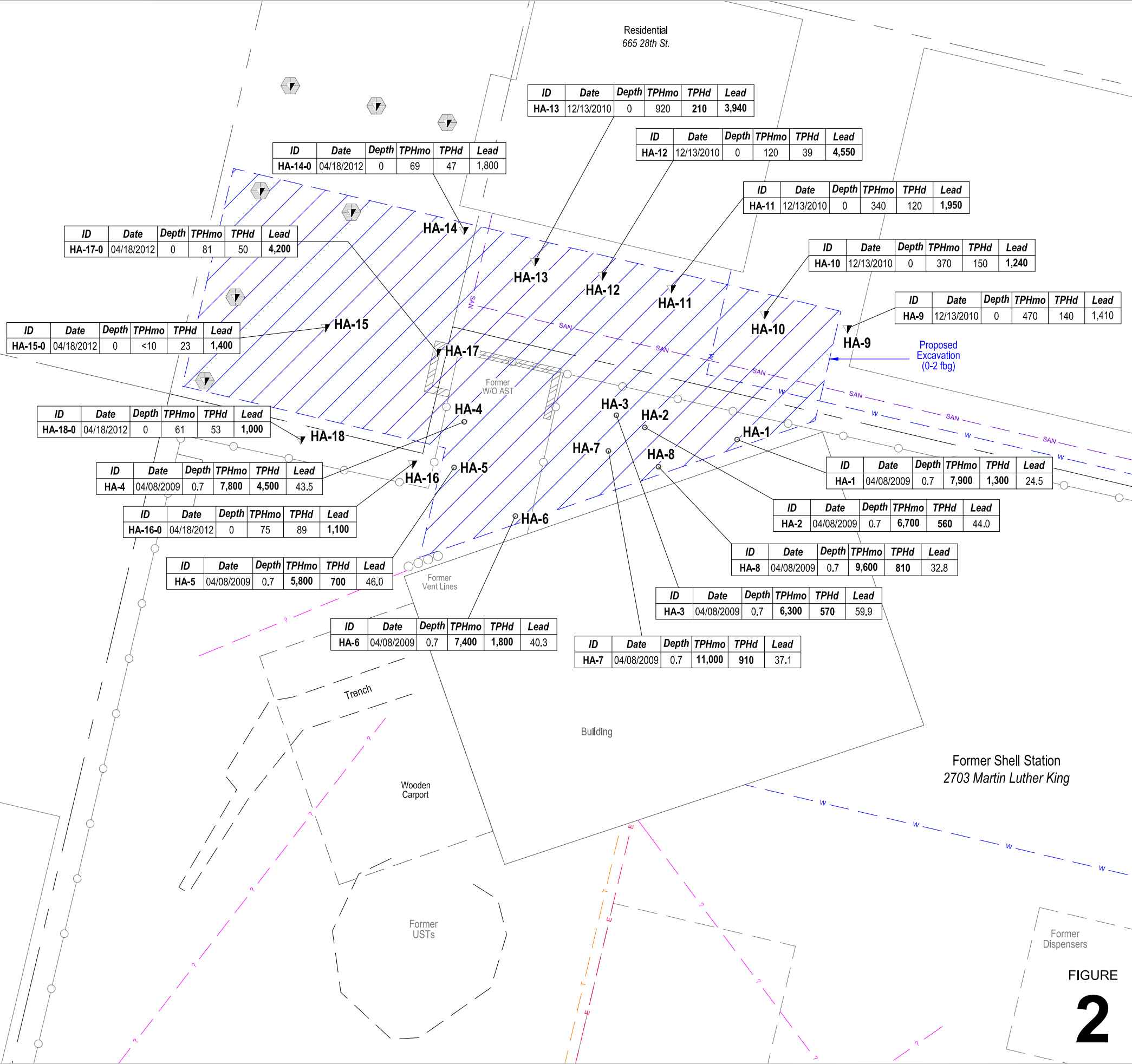
- Proposed hand auger location
- HA-9** Hand auger location (12/2010, 4/2012)
- HA-1** Hand auger boring location (4/2009)
- Sanitary sewer line (SAN)
- Water line (W)
- Unknown utility line (?)
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)

ID	Date	Depth	TPHmo	TPHd	Lead
HA-1	04/08/2009	0.7	7,900	1,300	24.5

Notes:
 Soil sample ID, date, depth in feet below grade (fbg), and concentrations in milligrams per kilogram (mg/kg)
TPHmo = Total petroleum hydrocarbons as motor oil
TPHd = Total petroleum hydrocarbons as diesel
 <X = Not detected at reporting limit X
 Results in **BOLD** equal or exceed applicable ESL



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Residential
668 27th St.

Residential
664 27th St.

Residential
665 28th St.

TPHmo, TPHd, and Lead in Soil
Concentration Map

0 - 0.7 Feet Below Grade



Former Shell Service Station
 2703 Martin Luther King Jr. Way
 Oakland, California

FIGURE
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