

**From:** Presidio Trust Resident Advisory [mailto:noreply=presidiotrust.gov@mail138.atl221.rsgsv.net] **On Behalf Of** Presidio Trust Resident Advisory  
**Sent:** Friday, April 20, 2018 3:40 PM  
**Subject:** Soil Vapor Intrusion Investigation Results - Units 127A, 128A and 129B Riley Avenue

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Dear Resident of Riley Avenue,

The Presidio Trust (Trust) is providing the attached Tables 1 and 2 summarizing analytical results of the recent soil vapor intrusion investigations conducted in Residential Units 127A, 128A, and 129B. The tables are being provided as a follow up to the email sent on April 12, 2018. The following provides an explanation of the information presented in the tables and how it relates to the points made in the April 12<sup>th</sup> email.

How to read the analytical results tables:

[Table 1](#) – Sub-Slab and Soil Vapor Analytical Results – samples were collected from existing probes installed in the concrete basement of each unit.

- Grey rows present general information on the location, sampling date, and sample identification.
- Blue rows indicate the analyzed chemical and laboratory test method.
- Orange rows show the type of sample and the units the results are presented in.
- Light Green and Dark Green rows represent the current and anticipated future residential screening levels for Riley Avenue, respectively.
- Reported chemical concentrations that exceed the current or future residential screening levels are in bold.
- Non-detect results identified as “less than” (i.e., <2.5) indicate that the chemical is not present (i.e., not detected) at a concentration greater than the laboratory reporting limit.

[Table 2](#) – Indoor and Ambient/Outdoor Air Analytical Results – indoor air samples were collected in the basement, kitchen, sun room and bedroom at units 127A, 128A and 129B and ambient/outdoor samples from outdoor locations in the vicinity of each building.

- Grey, Blue, and Orange rows present similar information as in Table 1.
- Light Green rows represent the indoor air residential screening levels for Riley Avenue, there are no established residential screening levels for outdoor air.
- Similar to Table 1, reported constituent concentrations that exceed the indoor air residential screening levels are in bold.
- Non-detect results identified as “less than” (i.e., <2.5) indicate that the chemical is not present (i.e., not detected) at a concentration greater than the laboratory reporting limit.

Where to find the information referenced in the April 12, 2018 email:

- *Sub-slab/soil vapor results from 128A and 129B were non-detect for contaminants of concern.*
  - See Table 1, data associated with Unit 128A and 129B
- *Sub-slab/soil vapor results from 127A remain below current screening criteria.*
  - See Table 1, data associated with Unit 127A
- *Indoor air quality is better than outdoor air quality.*
  - See Table 2, indoor air sample detected concentrations shown in the top of the table are lower than the detected outdoor air sample concentrations shown in the bottom of the table for each chemical.
- *Indoor air sampling results indicated the presence of contaminants of concern (primarily total petroleum hydrocarbons (TPH) diesel, TPH gas, and Benzene) at levels above screening criteria. Impacts to indoor air appear to be a result of outdoor air affected by the nearby roadways and not soil vapor intrusion. For more information about this, please see attached [EPA Near Roadway Air Pollution](#) and [ATSDR Benzene factsheets](#).”*
  - See Table 2, benzene concentrations are provided in ppbv to help put Riley Avenue data in the context of the provided factsheets.

Please see below for definitions and background information for the terms used in the description above and in the attached Tables 1 and 2.

- Sub-Slab/Soil Vapor Current Residential Screening Levels = Regional Water Quality Control Board (RWQCB) Residential Sub-Slab/Soil Vapor Environmental Screening Levels (ESLs) (February 2016) – represent the current chemical levels which are not expected to result in indoor air impacts above indoor air ESLs in a residential scenario.

- Sub-Slab/Soil Vapor Anticipated Future Residential Screening Level – this is the screening level the RWQCB has recommended the Presidio Trust use to identify potential risks of soil vapor intrusion.
- Indoor Air Residential Screening Levels = RWQCB Residential Indoor Air Environmental Screening Levels (ESLs) (February 2016) – represent the current indoor air chemical levels (i.e., concentrations) which do not pose a threat to human health.
- Micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) and parts-per-billion by volume (ppb or ppbv) –  $\mu\text{g}/\text{m}^3$  and ppbv are the units typically used for chemical concentrations in air presented by documents produced by regulatory agencies. The attached tables present benzene concentrations in both  $\mu\text{g}/\text{m}^3$  and ppbv to aid you during your review of the provided Public Health Statement on benzene.
- Non-detect values – Concentrations that are identified as “less than” (i.e., <2.5) indicate that the chemical is not present (i.e., not detected) at a concentration greater than the laboratory reporting limit. The laboratory reporting limit is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Because we realize that these technical results can be difficult to understand, we intend to provide a verbal explanation as well as an update on the ambient air sampling completed earlier this week in a community meeting we’re planning for mid-May. Please stay tuned for a meeting invitation with more details. If you have any questions, please contact me at 415-561-5421 or [nlarssen@presidiotrust.gov](mailto:nlarssen@presidiotrust.gov).

Sincerely,

Nina Larssen  
Remediation Program Manager  
The Presidio Trust

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