



**APPENDIX C
UPDATE – SOIL/SOLID WASTE RISK
CHARACTERIZATION AND HUMAN HEALTH
CONSTITUENTS OF CONCERN**

for

**Laboratory for Energy-related Health Research/
Old Campus Landfill Superfund Site
University of California, Davis**

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
CHHSL	California Human Health Screening Level
COC	constituent of concern
COPC	constituent of potential concern
EPC	exposure point concentration
ET	Eastern Trenches
FS	Feasibility Study
FS – Volume 1	<i>Final Feasibility Study for the University of California, Davis Areas Volume 1: Soil/Solid Waste and Soil Gas</i>
FS – Volume 2	<i>Feasibility Study for the University of California, Davis Areas Volume 2: Groundwater</i>
HHRA	Human Health Risk Assessment
HHRA – Part A	<i>Site-Wide Risk Assessment, Volume I Human Health Risk Assessment (Part A – Risk Estimate) LEHR/SCDS Environmental Restoration</i>
HHRA – Part C	<i>Site-Wide Risk Assessment, Volume I Human Health Risk Assessment (Part C – Risk Characterization for UC Davis Areas)</i>
HQ	hazard quotient
LCL	lower confidence limit
LEHR	Laboratory for Energy-related Health Research
LFU	landfill unit
MWH	Montgomery Watson Harza
OCL	Old Campus Landfill
OEHHA	Office of Environmental Health Hazard Assessment
PRG	Preliminary Remediation Goal
RSL	Regional Screening Level
QAPP	Quality Assurance Project Plan

Site	Laboratory for Energy-related Health Research/Old Campus Landfill Superfund Site
ST	Southern Trenches
UC Davis	University of California, Davis
UCL	upper confidence limit
US EPA	United States Environmental Protection Agency
WBH	Waste Burial Holes
Weiss	Weiss Associates
WRS	Wilcoxon Rank Sum

C1. Purpose and Background

This appendix supplements the soil/solid waste portion of the *Site-Wide Risk Assessment, Volume I Human Health Risk Assessment (Part C – Risk Characterization for UC Davis Areas)* (HHRA – Part C) (Brown and Caldwell, 2006). Part C of the Human Health Risk Assessment (HHRA) was performed to establish constituents of concern (COCs) for the University of California, Davis (UC Davis) Laboratory for Energy-related Health Research (LEHR)/Old Campus Landfill (OCL) Superfund Site (Site) Feasibility Study (FS). Since the publication of the HHRA – Part C, additional data have been collected, and the risk-based screening values for soil constituents have been updated. Therefore, a re-evaluation of the previously-identified soil/solid waste FS preliminary COCs was conducted, using methodology primarily based on the HHRA’s screening process (MWH, 2004; Brown and Caldwell, 2006). As a conservative measure, this re-evaluation was performed for a residential exposure scenario so COCs would not be overlooked under less conservative receptor exposure scenarios. As a result of this evaluation, new COCs were identified and some previously identified preliminary COCs were eliminated. The constituents identified as COCs in this appendix are those considered in the FS – Volume 1 for a residential land use scenario.

This HHRA – Part C supplement addresses each of the six land disposal units, as defined by the *Administrative Order on Consent for Removal Action and Remedial Investigation/Feasibility Study* issued in 1999 (US EPA, 1999) and includes (Figure C-1):

- Eastern Trenches (ET);
- Landfill Unit (LFU) No. 1;
- Landfill Unit No. 2;
- Landfill Unit No. 3;
- Southern Trenches (ST); and
- Waste Burial Holes (WBH).

The soil gas human health COCs are discussed separately in Appendix B. Groundwater FS COCs will be designated at a later date after collection and analysis of additional data (FS – Volume 2).

C2. Summary of 2006 Site-Wide Risk Assessment, Part C

The methodology used to develop the HHRA – Part C preliminary COCs is described in detail in the *Site-Wide Risk Assessment, Volume I Human Health Risk Assessment (Part A - Risk Estimate) LEHR/SCDS Environmental Restoration* (HHRA – Part A) (MWH, 2004) and in the HHRA – Part C. The steps used to identify the preliminary FS COCs in 2006 were:

1. Data sets were established for soil/solid waste in each land disposal unit. The maximum concentration of each detected constituent was then compared to its respective 2002 United States Environmental Protection Agency (US EPA) Region 9 residential soil Preliminary Remediation Goal (PRG). Exposure pathways included in the calculation of the residential soil PRGs were: ingestion of groundwater and surface water; inhalation of volatile organic compounds in soil, surface water, and groundwater; inhalation of particulates in soil; and ingestion of soil. The 2002 PRGs did not include the plant ingestion pathway in the calculation. This PRG comparison

was referred to as the Tier 1 risk assessment. Those exceeding the PRG were referred to as “List 1 constituents of potential concern (COPCs)”.

2. Exposure point concentrations (EPCs) and risk and hazard estimates were calculated for the List 1 COPCs. EPCs were defined as the lower of the 95 percent upper confidence limit (UCL) on the mean or the maximum detection for data sets considered representative for a given exposure scenario. Receptors considered during risk and hazard estimation included current and future on-Site and off-Site residents, indoor and outdoor workers, and trespassers. The exposure pathways evaluated for COPCs in soil/solid waste were:
 - Ingestion of soil;
 - Dermal contact with soil;
 - Fugitive dust inhalation;
 - External radiation;
 - Inhalation of vapors from soil and groundwater in indoor and outdoor air; and
 - Ingestion of homegrown produce.
3. Background data for each land disposal unit were statistically compared with on-Site data for each List 1 COPC. The results of this comparison were used to identify which List 1 COPCs are consistent with ambient background concentrations. COPCs consistent with on-Site background concentrations were not considered further in the risk assessment.
4. The COPCs identified for further evaluation were considered “List 2 COPCs,” which were defined as those constituents with a cancer risk above 1×10^{-6} , a non-cancer hazard quotient (HQ) above one, or a chemical that comprised more than ten percent of total risk or hazard above these limits.
5. The List 2 COPCs were then further evaluated for six characteristics in order to identify which should be proposed as COCs for the FS. These characteristics were:
 - Source(s) of the chemical and whether it was used in the past at the Site (relationship to historical operations);
 - How the constituents are distributed (spatial distribution);
 - The number of samples with concentrations greater than background concentrations and the contribution of background concentrations to risk/hazard (comparison to background data);
 - Any qualifiers or discrepancies associated with analyses (analytical bias);
 - Whether the data are representative of the area (data representativeness); and
 - Whether the risks could change over time because of changes in concentration or radioactivity (degradation and decay).

The soil/solid waste preliminary COCs designated in the HHRA – Part C are presented in Table C-1.

C3. Constituent of Concern Update Methodology

The following sections describe the methodology used to identify soil/solid waste COCs in this appendix and specifically address the selection of Site data sets, initial screening values, background values and data sets, and exposure point concentrations. An overview of the screening process is also provided.

C3.1. Site Data Sets

The data sets used in the HHRA – Part C were updated to include valid data contained in the current LEHR/OCL chemical database. These data underwent data validation in accordance with the Site Quality Assurance Project Plan (QAPP) (UC Davis, 2008) and are considered representative of current Site conditions. For soil/solid waste, the data set used in the HHRA – Part C was reviewed and updated to include data collected during the 2008 data gaps investigations. These data sets are the same as those used for the soil-to-groundwater impact evaluation, as presented in the *Feasibility Study Data Gaps Technical Report* (Appendix A). Locations of samples included in each data set are shown on Figure C-2.

In addition, the data sets were modified as a result of an in-depth data review and an updated approach for handling duplicate results. Upon review of detection flags and values, some results of previously considered detected values were changed to non-detections; similarly, some previously designated non-detected values were changed to detected values. In addition, a discrepancy in the identification of removed samples from the WBH area was identified, and the WBH data set was updated to account for the removed samples.

Duplicate results were replaced by an average concentration, depending on whether the analyte was a radiological or non-radiological constituent:

- Radionuclides: results from the primary sample and its duplicate(s) were averaged.
- Non-radionuclides: if the result from any of the duplicate(s) was reported as non-detect, then one-half of the detection limit was used when computing the average.

These averages were used when conducting the background statistical comparisons (Section C3.4) and in calculations of the 95 percent UCLs (Section C3.5).

Data sets for each of the six land disposal units were evaluated separately and further divided based on depth intervals. Consistent with the HHRA – Part A, soil/solid waste from 0 to 10 feet below ground surface (bgs) was considered that to which humans might be directly exposed under future use scenarios. The soil/solid waste data from 10 to 20 feet bgs was also compared to human health-based screening values because of the conservative assumption that material at this depth interval could be brought to shallower depths during future construction activities.

C3.2. Initial Screening Values

As noted above, the US EPA 2002 residential soil PRGs were used as the initial screening values in the HHRA – Part A. For this update, the November 2011 US EPA residential soil Regional

Screening Levels (RSLs) (US EPA, 2011) were used as screening values. For radionuclides, the August 2010 residential soil PRGs (US EPA, 2010) were used as the screening values. The California Human Health Screening Level (CHHSL) obtained from the Office of Environmental Health Hazard Assessment (OEHHA) website in July 2010 was used for lead (OEHHA, 2010). Table C-2 presents the screening values used in this COC selection process.

C3.3. Background Values and Data Sets

The soil background values for inorganic constituents used in this evaluation were those previously calculated in the 1998 background investigation and included data from 12 background soil borings (BGL001 through BGL006 and WA-1 through WA-6) drilled in non-impacted areas in the immediate vicinity of the Site in November 1994 and October 1997 (Weiss, 1998). These values were also adopted in the HHRA – Part A. Organic constituents were assumed not to be present in background (i.e., background is “zero”). The calculated background values are the 80 percent lower confidence limit (LCL) on the 95th percentile of the 1998 background data set. In addition to the 1998 background data, the FS – Volume 1 background data set includes 20 locations sampled in February 1999 (WA-7 through WA-26; Figure C-2) (Weiss, 2000).

C3.4. Background Statistical Comparison

As in the HHRA – Part A, the maximum detection for a given constituent in a given land disposal unit and depth interval was compared with the established Site background level for soil/solid waste. If the maximum exceeded the background level, Site concentrations were compared to background concentrations using the non-parametric Wilcoxon Rank Sum (WRS) test. The test evaluates whether the two data sets (Site and background) are likely to come from the same distribution and predicts whether the Site concentrations are greater or less than background concentrations.

In the WRS test, reported activities for non-detected radionuclide results were used as representative activities. Duplicate samples were handled as described in Section C3.1.

As specified in the HHRA – Part A, constituents with a detection frequency less than 50 percent or with fewer than five data points (in either the Site or background data sets) were considered unsuitable for statistical comparison. These constituents were retained for further evaluation in subsequent steps of the screening process, unless a qualitative inspection of the constituent’s data suggested that the constituent was present at or below background levels (i.e., when maximum values slightly exceeded the background value).

C3.5. Exposure Point Concentrations

EPCs were calculated for soil constituents to compare Site concentrations with risk-based screening values (i.e., RSLs, PRGs, or CHHSLs). The data sets used for developing EPCs were the same as those described above in Section C3.1.

The EPC was calculated as the 95 percent UCL on the mean, with the UCL calculation method based on the data distribution (e.g., normal, lognormal, non-parametric), which is also consistent with the HHRA – Part A. The US EPA software ProUCL 4.00.04 (US EPA, 2009) was used for calculating the 95 percent UCLs. For non-detected data for non-radiological constituents,

the full detection limit was used in the calculation; for radiological constituents, negative result values were replaced with zero before input into the calculation. This software generates a range of UCLs based on data distribution assumptions and recommends a value based on the most appropriate data distribution. The 95 percent UCL selected for this evaluation was the value generally recommended by the software; however, in cases where a non-95 percent UCL was recommended based upon a non-parametric data distribution, a 95 percent UCL was chosen. If the selected 95 percent UCL was lower than the maximum detected (most cases), the 95 percent UCL was defined as the EPC. For constituents with a Site maximum lower than the selected 95 percent UCL, the maximum value was used as the EPC.

Constituents with insufficient data for calculating an EPC were evaluated on a case-by-case basis. For some constituents, such as uranium-238 in the upper ten foot depth interval of the WBH, the maximum value was used as the EPC. For Aroclor 1254 in LFU-3; Aroclor 1260 in LFU-1, LFU-2, and LFU-3; benzo(a)anthracene in LFU-2; benzo(a)pyrene in LFU-1 and LFU-2; benzo(b)fluoranthene in LFU-2; hexachlorobenzene in the ET; pentachlorophenol in LFU-1; thallium in LFU-2; and naphthalene in the WBH, a 95 percent UCL was calculated using ProUCL, despite low detection frequencies.

C3.6. Evaluation Process Overview

Using the screening values, data sets, and procedures described above, soil/solid waste data from each land disposal unit were evaluated following these general steps:

1. Compare the maximum detected concentration for each constituent with the risk-based screening value and retain all constituents with maximum concentrations exceeding the screening value as COPCs.
2. For inorganic and radionuclide constituents retained from Step 1, compare the maximum detected concentration with the background value and retain those with maximum values exceeding background.
3. For constituents retained from Step 2, conduct a statistical comparison of the Site and background data sets using the WRS test after assessing whether the data sets are suitable for statistical comparison.
4. For those constituents identified as above background in Step 3 and organic constituents retained in Step 1, establish EPCs for comparison with the screening values. Retain soil/solid waste constituents with EPCs greater than the screening value.
5. Evaluate each soil/solid waste constituent qualitatively through consideration of other factors, including spatial distribution, detection frequency, likelihood of historical use and/or release, data quality, and contribution of background to risk. COPCs retained through this qualitative evaluation are designated as FS – Volume 1 COCs.

The specific steps used for the soil evaluation are shown in Figure C-3.

C4. Evaluation and Results

The following sections describe the individual steps executed during this soil/waste FS COC update. The steps included the initial risk-based screening, comparison with background data, EPC comparison to the screening value, and consideration of other factors.

C4.1. Initial Risk-based Screening

Tables C-3 through C-14 summarize constituents analyzed in soil/solid waste for each of the six land disposal units at depths of 0 to 10 feet bgs and 10 to 20 feet bgs. These tables show the minimum and maximum detected concentrations, the sample location associated with the maximum detected concentration, the frequency of detection, the range of detection limits, the risk-based screening value used in this evaluation, and the rationale for retaining or eliminating the constituent from further consideration. These tables report statistics based on the raw data, with each sample considered individually and field duplicate samples not accounted for; therefore, the maximum values reported may be higher than if the result had been reported as the average of the field duplicate results. Furthermore, the number of detections and total number of samples analyzed are, in some cases, overstated in the detection frequency fields, because field duplicate samples are counted individually.

C4.2. Comparison with Background

Tables C-15 and C-16 present soil/solid waste COPCs that were retained based on the initial screening described above and compare the concentrations of the inorganic constituents and radionuclides to background values for the six land disposal units. Table C-15 presents constituents for soil/solid waste from 0 to 10 feet bgs and Table C-16 presents constituents for soil/solid waste from 10 to 20 feet bgs. Organic constituents retained in the initial screening were automatically retained for further evaluation.

For those constituents with a maximum detection exceeding the background level and with a suitable data set (more than four samples in data set; greater than 50 percent detection frequency), the Site soil/solid waste distribution was compared with the background soil distribution using the non-parametric WRS statistical test. The same statistical test, also referred to as the Mann-Whitney test, was performed in the HHRA – Part A, albeit with a different statistical software package. Because these tests are equivalent, results from the HHRA – Part A Mann-Whitney Tests for constituents in the 0 to 10 foot depth interval were adopted for use in this screening process as long as the following conditions were met:

- a. The maximum detected concentration exceeds the background value;
- b. The difference between total number of samples in the FS – Volume 1 data set and the total number of samples in the HHRA data set does not exceed one; and
- c. The maximum detected concentration is equal in value in the two data sets.

Sixteen Mann-Whitney test results were adopted from the HHRA – Part A in the 0 to 10 foot depth interval, while ten results were recalculated due to differences in the HHRA – Part A and FS – Volume 1 data (Table C-15). Of the ten recalculated results, only one differed in outcome from that in the HHRA – Part A: radium-226 in the WBH was found to be present at concentrations greater

than background based on the WRS results, whereas the HHRA – Part A outcome stated it to be present below background.

Site soil/solid waste constituents identified as present at concentrations above background based on the statistical evaluation or with maximum concentrations clearly exceeding background (i.e., concentration is greater than five times the background concentration) were retained as COPCs for further evaluation.

C4.3. Exposure Point Concentration Evaluation

Tables C-17 and C-18 present the EPCs and a comparison of these EPCs with the selected screening values (as listed in Table C-2) for the soil/solid waste COPCs that were retained for further consideration in the six land disposal units. Table C-17 presents constituents from 0 to 10 feet bgs and Table C-18 presents constituents from 10 to 20 feet bgs.

C4.4. Other Considerations

COPCs retained in the EPC evaluation were further evaluated, considering factors such as spatial distribution, detection frequency, likelihood of historical use and/or release, data quality, and contribution of background to risk. No constituents were eliminated based upon spatial distribution or detection frequency. In the ground surface to 10 foot bgs depth interval in the WBH, the activity levels exceeding the risk-based screening values for uranium-238 and radium-226 were detected in samples collected from imported fill during the WBH removal action. These detected activities cannot be linked to previous Site activities and do not constitute historical use or release at the Site; these constituents were eliminated from further evaluation.

Lead-210 was eliminated as a COPC from the upper ten foot interval of the ST due to data quality issues. Specifically, the uncertainty counts suggested that activities are consistent with background (HHRA – Part C). Carbon-14 was retained as a COPC in the ST in the 0 to 10 foot depth interval because the one detected value (out of 21 samples analyzed for carbon-14) was greater than the PRG. In addition, of the 20 non-detects, each had a detection limit greater than the PRG, and uncertainty counts for each sample were greater than 50 percent of the result value. Based on the uncertainty of the quality of these data, it is not possible to quantify the potential risk from carbon-14 in the ST, and carbon-14 remains a COPC.

Risks presented by the retained COPCs were estimated by dividing the EPC for each constituent within a given area and depth interval by the respective RSL or PRG. For carcinogens, this ratio was then multiplied by 10^{-6} ; for non-carcinogens, the ratio is equal to the hazard quotient. Estimated risks are presented in Table C-19 for carcinogens and Table C-20 for non-carcinogens. Incremental risk/hazard for metals was also estimated (i.e., total Site risk/hazard minus risk/hazard contributed by background concentrations). The percent of risk/hazard due to background is also provided. This analysis shows that risk from background concentrations of arsenic in the 10 to 20 foot bgs depth interval in LFU-2 contributes 96 percent of the total risk; incremental risk was estimated at 1×10^{-6} for arsenic in this area (Table C-19). Arsenic was therefore eliminated in the 10 to 20 foot bgs depth interval in LFU-2. Similarly, for potassium-40 in the same area and depth interval, the majority of risk was due to background (89 percent), but because the incremental risk exceeded 1×10^{-6} (at 1.4×10^{-5}), potassium-40 was retained as a COPC. In the 0 to 10 foot bgs depth interval, thallium at LFU-1, LFU-2, and LFU-3 presents non-carcinogenic hazards exceeding the

threshold of 1.0. However, low detection frequencies above background (4 of 23 samples in LFU-1, 1 of 23 samples in LFU-2, and 1 of 21 samples in LFU-3) and estimated exposure point concentrations less than background suggest that there is no incremental hazard posed by thallium in these land disposal units (Table C-20). Thallium was therefore eliminated in LFU-1, LFU-2, and LFU-3.

C4.5. Feasibility Study – Volume 1 Constituents of Concern for Soil/Solid Waste

Table C-21 presents the soil/solid waste FS COCs identified through the evaluation process described above. FS – Volume 1 COCs in this table are listed by land disposal unit and depth interval.

Figures C-4, C-7, C-10, C-13, C-16, and C-18 show the locations of soil/solid waste samples collected for each land disposal unit. Figures C-5, C-6, C-8, C-9, C-11, C-12, C-14, C-15, C-17, C-19, and C-20 show the locations of soil/solid waste samples that exceed the screening value for each COC within each land disposal unit. The 0 to 10 foot and 10 to 20 foot depth intervals are depicted on separate figures for each land disposal unit.

After selecting the FS – Volume 1 COCs, the results were compared to those of the original human health risk assessment. Constituents from the HHRA – Part C that were detected above background and posed a cancer risk greater than 10^{-6} or non-cancer hazard greater than 1.0, or contributed at least ten percent to the excess cumulative cancer risk for a receptor in a given area, are listed in Table C-22 (carcinogenic constituents) and Table C-23 (non-carcinogenic constituents). Calculated risks and hazards are summarized per land disposal unit, receptor, and exposure scenario, and the cumulative risks and hazards are also displayed. Tables C-22 and C-23 also provide the rationale for retaining or eliminating a preliminary COC from the HHRA – Part C list.

Review of Tables C-22 and C-23 showed that the plant ingestion pathway contributes the majority of the total risk. Although this pathway was not specifically evaluated for organics or metals in this supplement (because the calculation of the 2010 RSLs does not include this pathway), it is unlikely that COCs have been overlooked because other considerations, including spatial distribution, detection frequency, likelihood of historical use and/or release, data quality, and contribution of background to risk, were also evaluated so that COCs could be appropriately selected. This methodology is similar to Tier 1 of the HHRA – Part A, in which maximum concentrations of constituents were screened against the US EPA's 2002 PRGs, which also did not incorporate the plant ingestion pathway. Furthermore, the HHRA – Part C emphasized the high level of uncertainty in the model used to estimate risk for ingestion of homegrown produce; modeling of chemical uptake by plants was theoretical and had not been validated by field studies. Therefore, any risk associated with this exposure pathway was given less weight during the risk management decision process. The PRGs for radiological constituents do account for the plant ingestion pathway.

C5. Conclusions

The purpose of this screening process was to update the FS – Volume 1 COCs based on newly acquired data and updated risk-based screening values. Soil/solid waste sample data were compiled, along with current residential soil RSLs, PRGs, CHHSLs (for lead), and background values.

Table C-24 compares the soil/solid waste FS – Volume 1 COCs with the preliminary COCs designated in the HHRA – Part C. Constituents have been added to or eliminated from the soil/solid waste preliminary COC list developed in the original risk assessment. Reasons for elimination from or addition to the FS – Volume 1 COC list are provided in Table C-24.

C6. References

- Brown and Caldwell, 2006. *Site-Wide Risk Assessment, Volume I Human Health Risk Assessment (Part C – Risk Characterization for UC Davis Areas)*, LEHR/SCDS Environmental Restoration, April.
- Montgomery Watson Harza (MWH), 2004. *Site-Wide Risk Assessment, Volume I: Human Health Risk Assessment (Part A – Risk Estimate)* LEHR/SCDS Environmental Restoration, March.
- Office of Environmental Health Hazard Assessment (OEHHA), 2010. *California Human Health Screening Levels*, <http://oehha.ca.gov/risk/chhsltable.html>, Accessed July 2010.
- University of California, Davis (UC Davis), 2008. *Quality Assurance Project Plan Revisions*, Prepared for LEHR/SCDS Environmental Restoration, September.
- United States Environmental Protection Agency (US EPA), 1999. *Administrative Order on Consent for Removal Action and Remedial Investigation/Feasibility Study*, U.S. EPA Docket No. 99-16, September.
- US EPA, 2009. ProUCL Version 4.00.04, <http://www.epa.gov/esd/tsc/software.htm>, February.
- US EPA, 2010. *Preliminary Remediation Goals for Radionuclides*, <http://epa-prgs.ornl.gov/radionuclides>, Accessed January 2012.
- US EPA, 2011. *Regional Screening Levels for Chemical Contaminants at Superfund Sites (Formerly PRGs)*, http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table, Accessed January 2012.
- Weiss Associates (Weiss), 1998. *Final Technical Report: Results of Western Dog Pens, Background, and Off-site Investigations*, Laboratory for Energy-Related Health Research, University of California, Davis, June.
- Weiss, 2000. *Work Plan for Removal Actions in the Southwest Trenches, RA/SR Treatment Systems, and Domestic Septic System Areas*, Laboratory for Energy-Related Health Research, University of California, Davis, Appendix C, July.

FIGURES

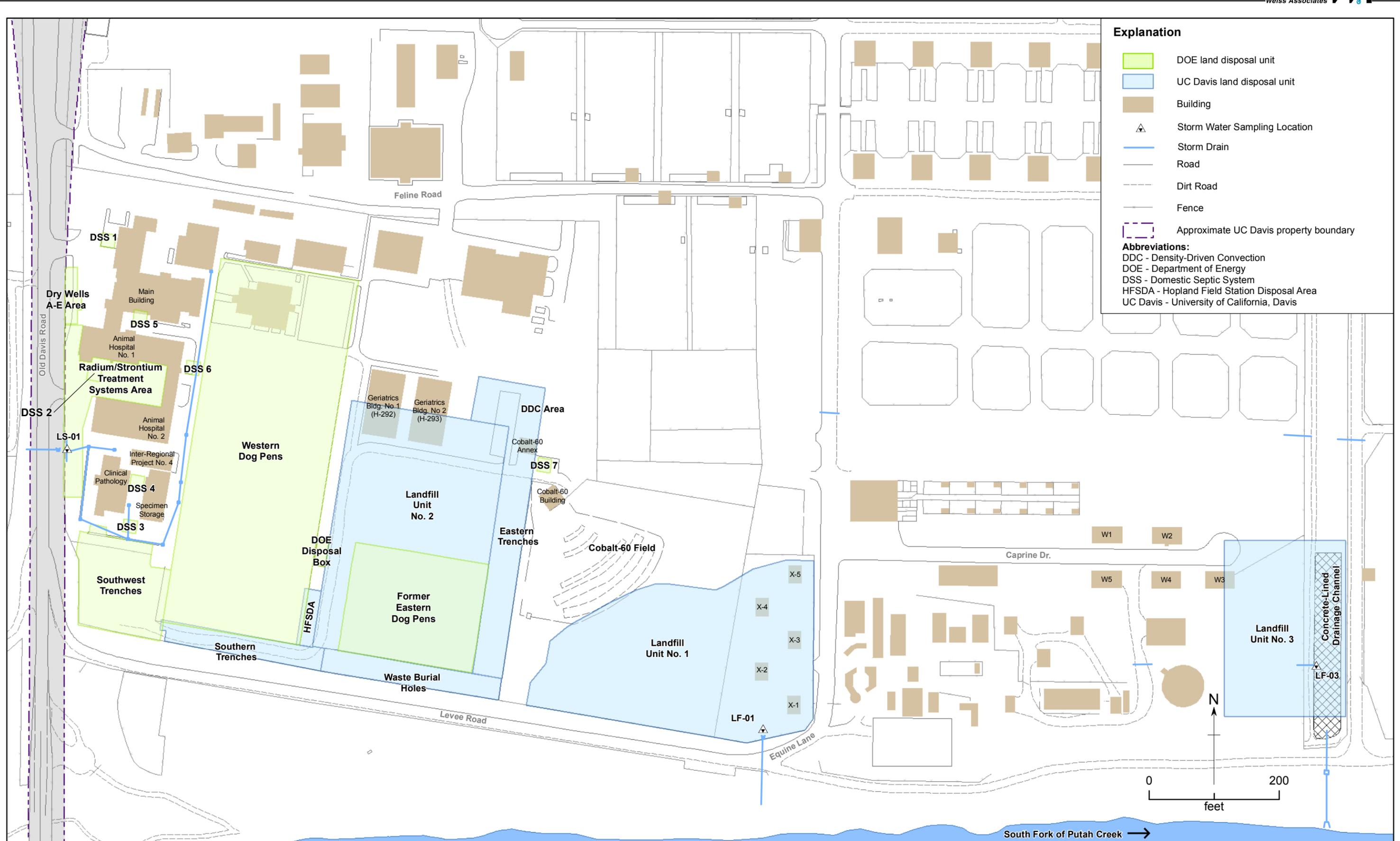
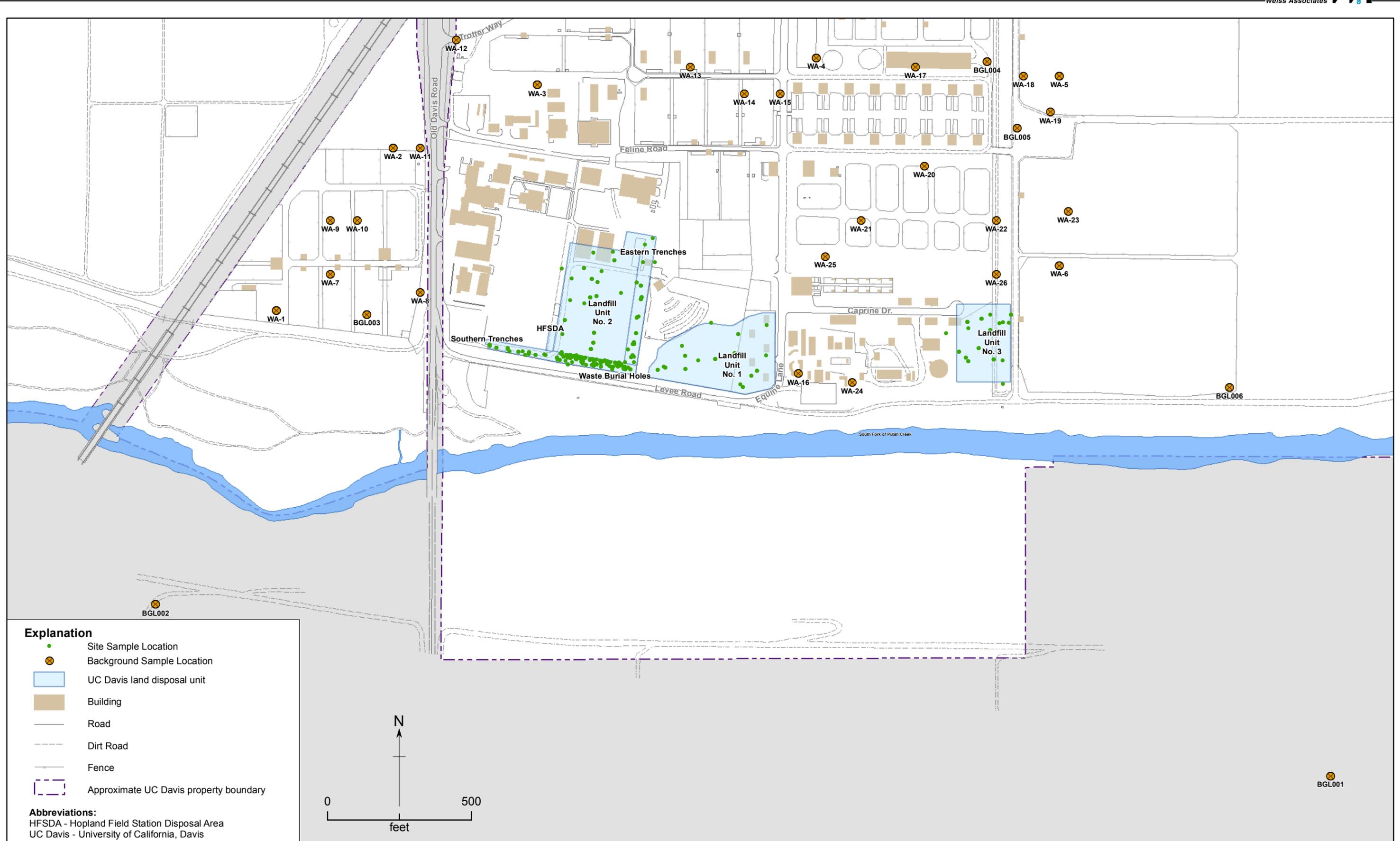


Figure C-1. Site Features - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

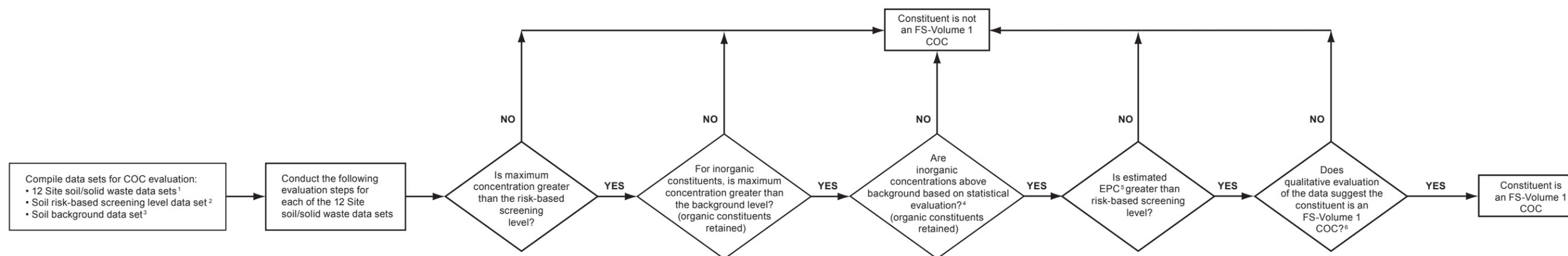


Explanation

- Site Sample Location
- ⊗ Background Sample Location
- UC Davis land disposal unit
- Building
- Road
- - - - - Dirt Road
- Fence
- - - - - Approximate UC Davis property boundary

Abbreviations:
 HFSDA - Hopland Field Station Disposal Area
 UC Davis - University of California, Davis

Figure C-2. Site and Background Soil/Solid Waste Sample Locations - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL



Notes:

1. Two data sets for each of six land disposal units, one for samples from 0 to 10 feet below ground surface and one for samples from 10 to 20 feet below ground surface; post removal action data through 2009.
2. Screening values are the November 2011 residential US EPA RSLs for chemicals or August 2010 US EPA PRGs for radionuclides. The CHHSL was used for lead.
3. Previously calculated Site soil background levels from Weiss, 1998, used in HHRA-Part A (MWH, 2004).
4. WRS test for constituents with adequate Site and background data. If data were inadequate for statistical evaluation, the data were qualitatively evaluated and compared to background.
5. The 95 percent UCL on the mean was calculated for constituents with adequate Site data (generally five or more sample results); the minimum of the 95 percent UCL and the maximum detected concentration was used as the EPC.
6. Factors such as spatial distribution, likelihood of historical use/release, detection frequency, data quality, and contribution of background to risk were considered.

Abbreviations :

- CHHSL : California Human Health Screening Level
- COC : constituent of concern
- EPC : exposure point concentration
- FS : Feasibility Study
- HHRA : Human Health Risk Assessment
- PRG: Preliminary Remediation Goal
- RSL : Regional Screening Level
- UCL : upper confidence limit
- US EPA : United States Environmental Protection Agency
- WRS : Wilcoxon Rank Sum

References:

Weiss Associates (Weiss), 1998. *Final Technical Report: Results of Western Dog Pens, Background, and Off-Site Investigations, Laboratory for Energy-related Health Research, University of California, Davis, June.*

Adapted From:

Montgomery Watson Harza (MWH), 2004. *Site-Wide Risk Assessment, Volume 1: Human Health Risk Assessment, Part A-Risk Estimate, LEHR/SCDS Environmental Restoration, March.*

Figure C-3. Human Health Constituent of Concern Evaluation Flow Chart - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL



Figure C-4. Soil/Solid Waste Sample Locations for Eastern Trenches - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

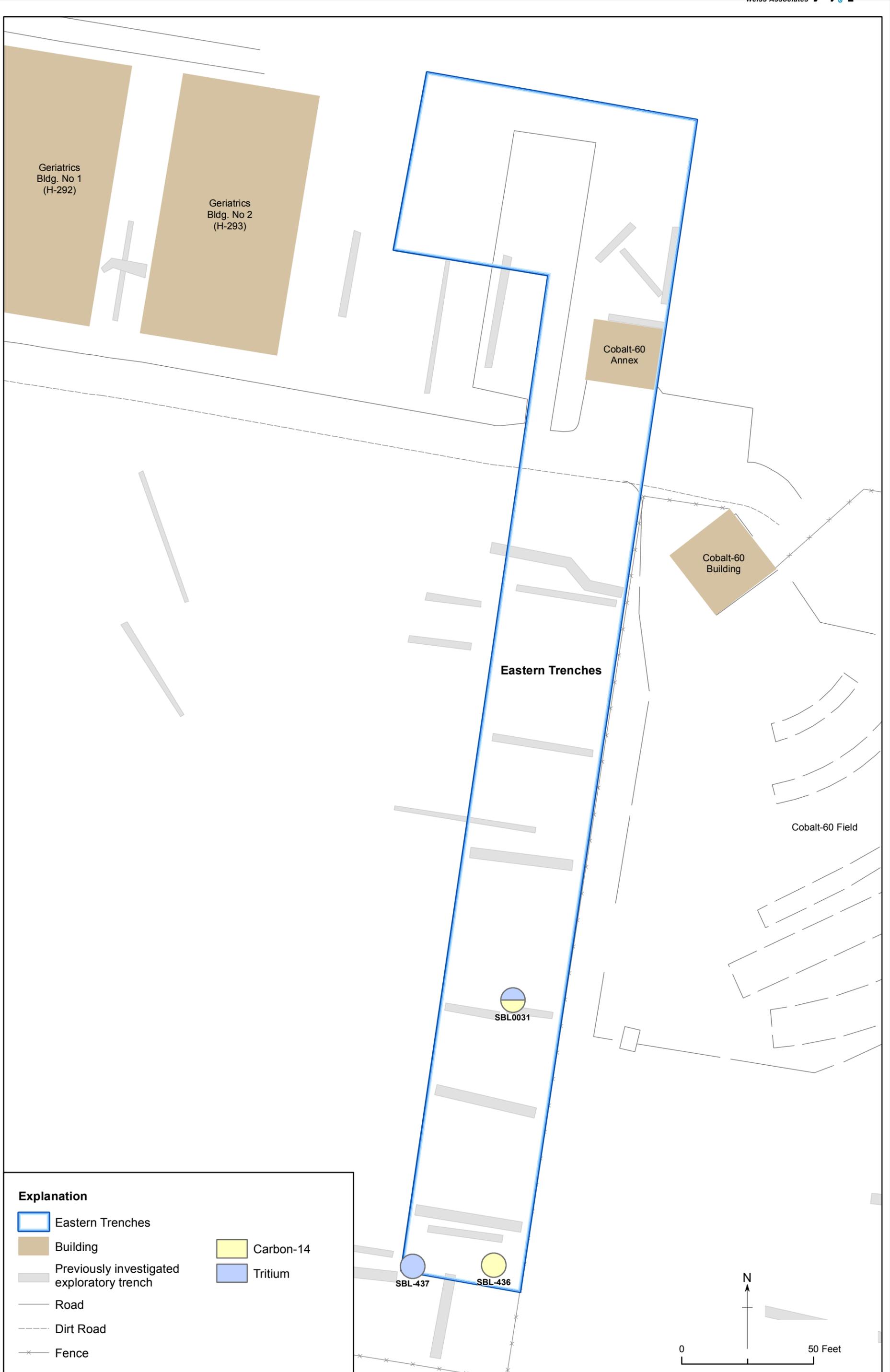


Figure C-5. Eastern Trenches (0 to 10 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

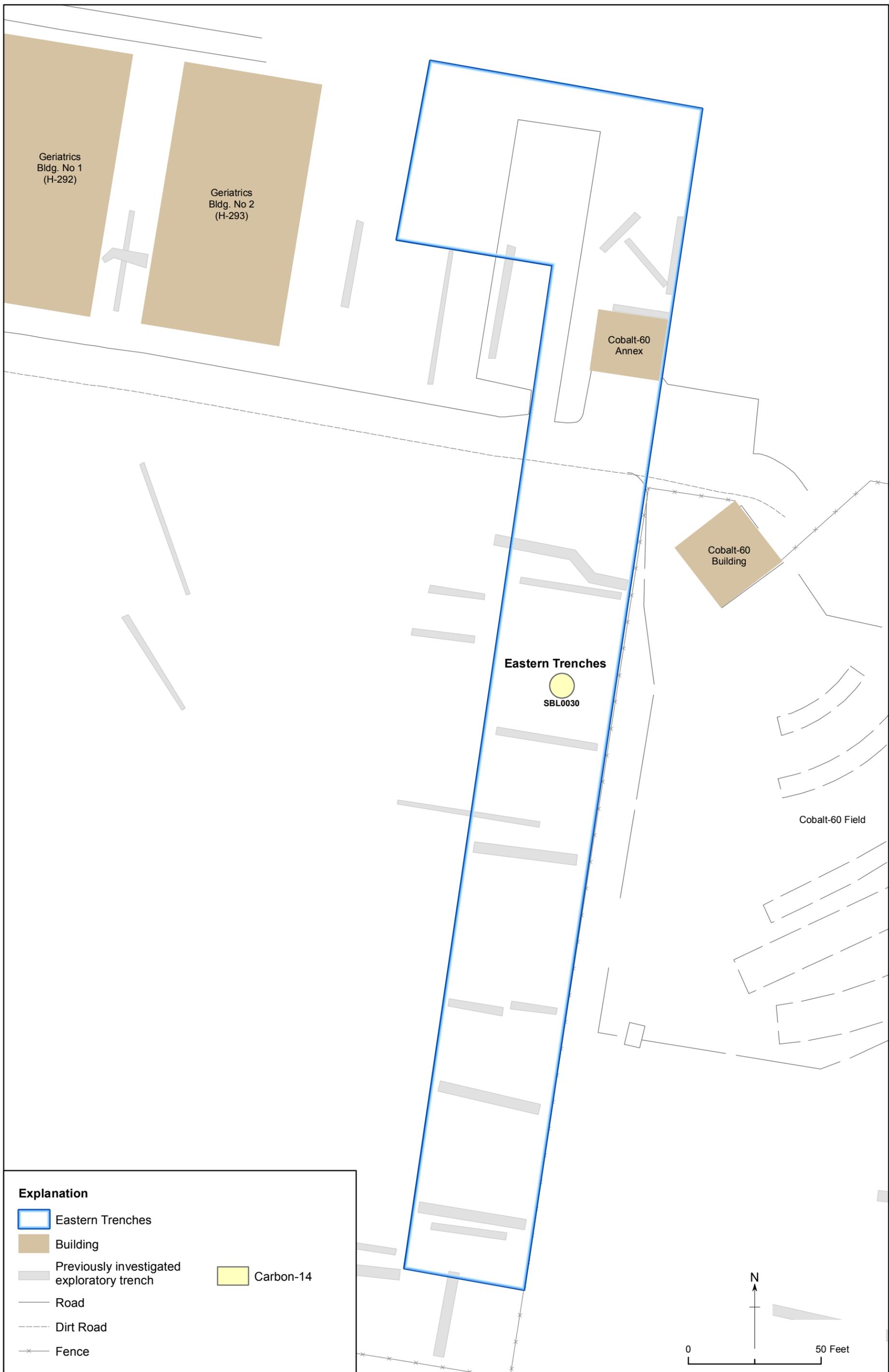


Figure C-6. Eastern Trenches (10 to 20 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

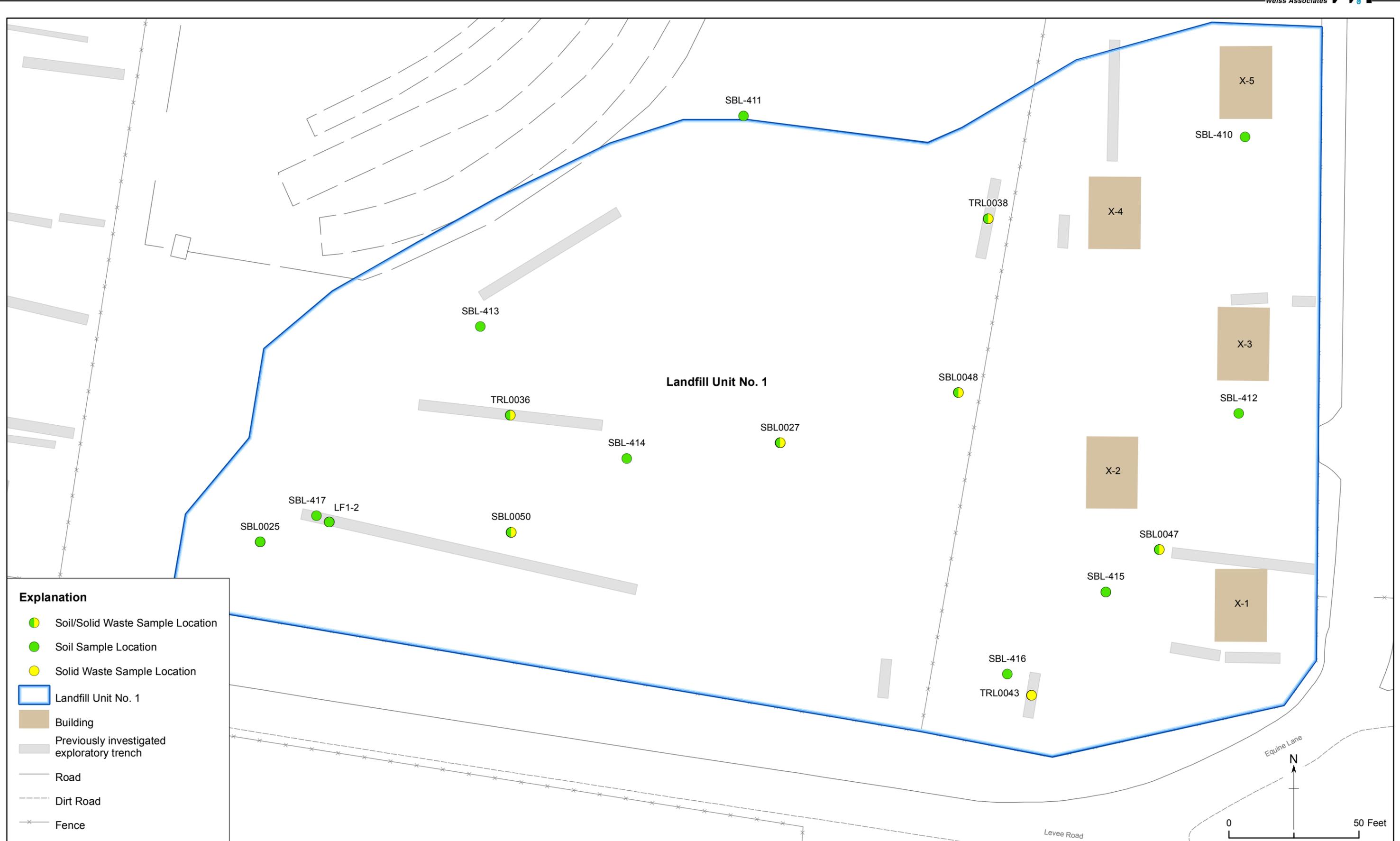


Figure C-7. Soil/Solid Waste Sample Locations for Landfill Unit No. 1 - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

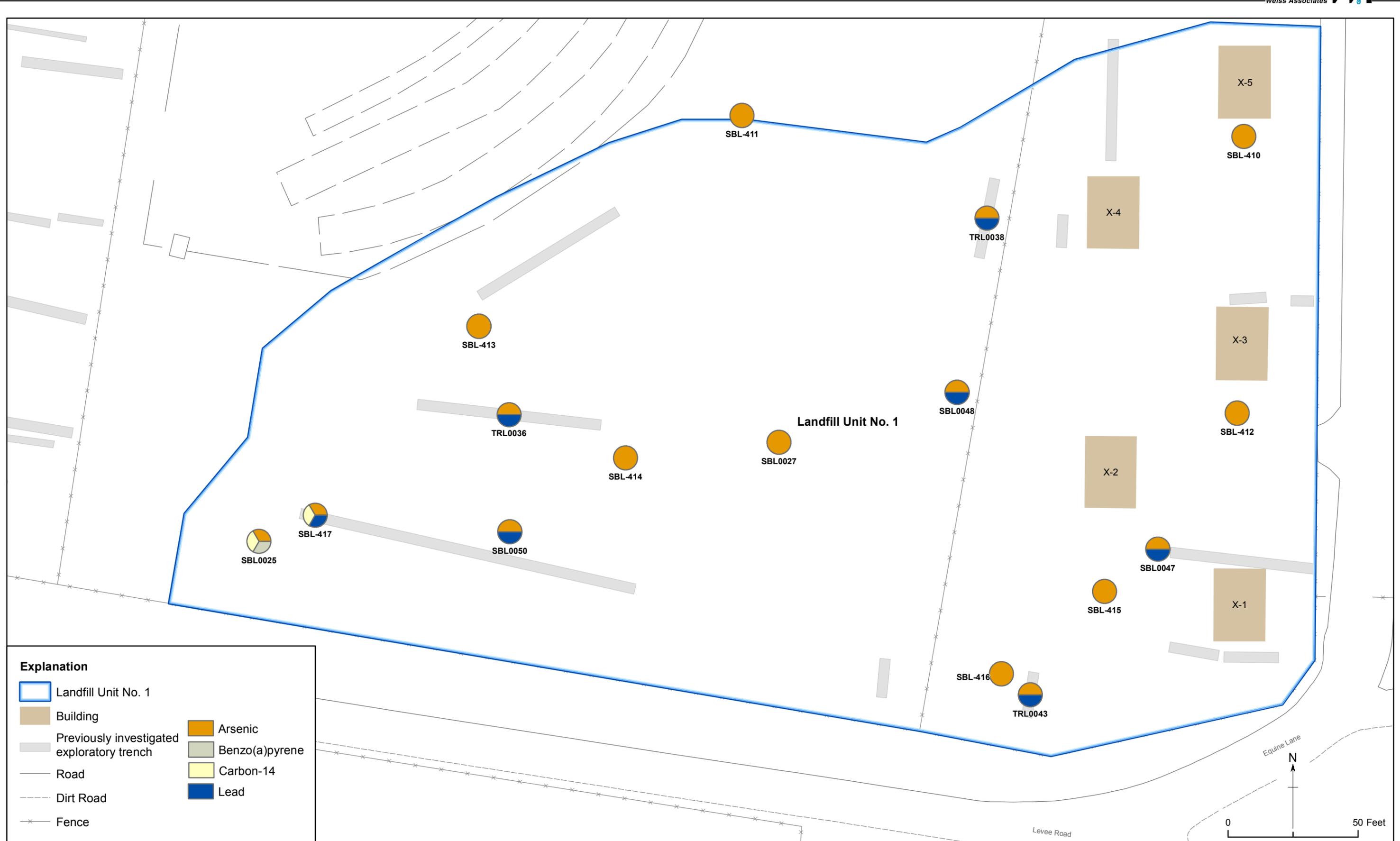


Figure C-8. Landfill Unit No. 1 (0 to 10 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

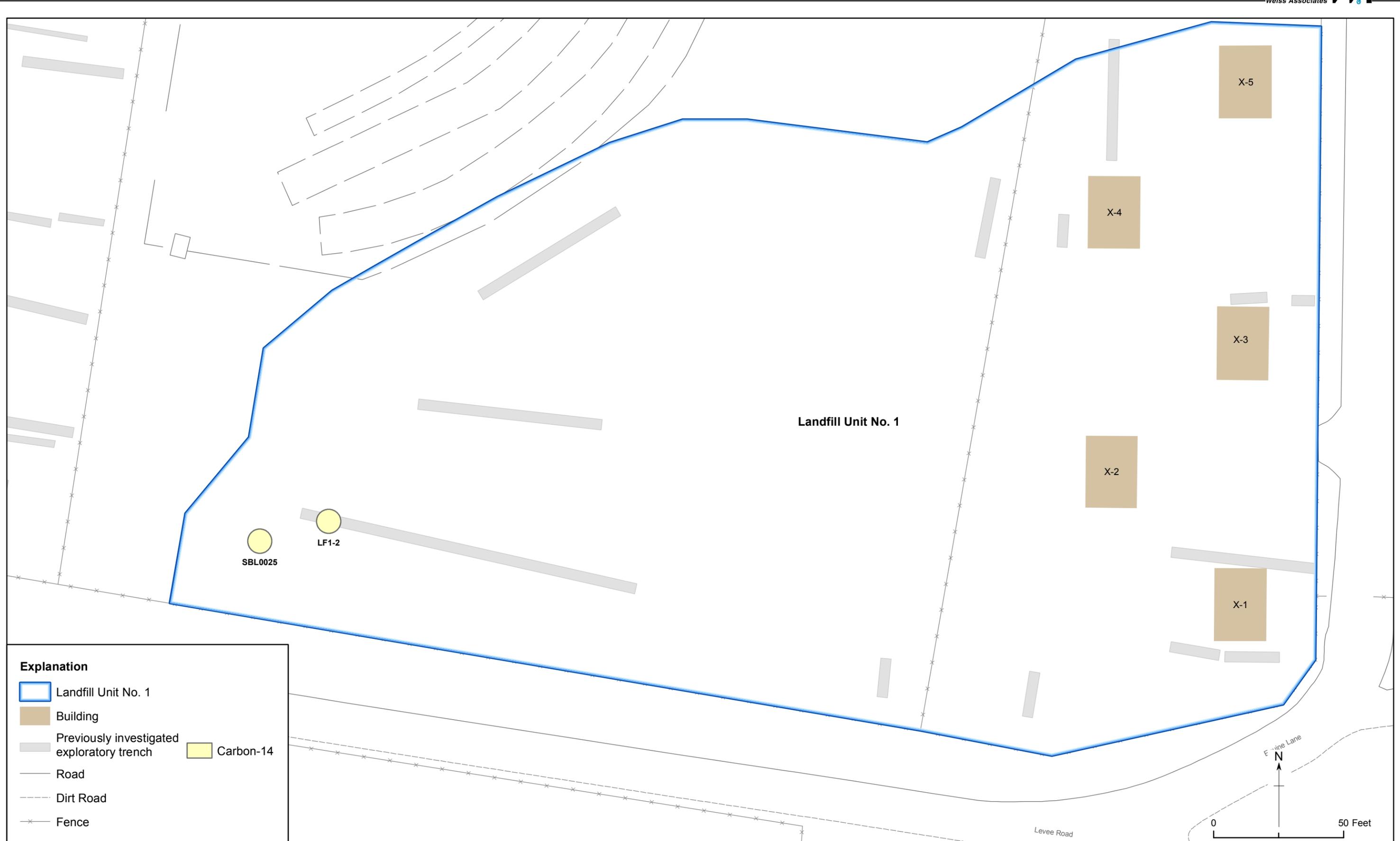


Figure C-9. Landfill Unit No. 1 (10 to 20 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL



Figure C-10. Soil/Solid Waste Sample Locations for Landfill Unit No. 2 - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

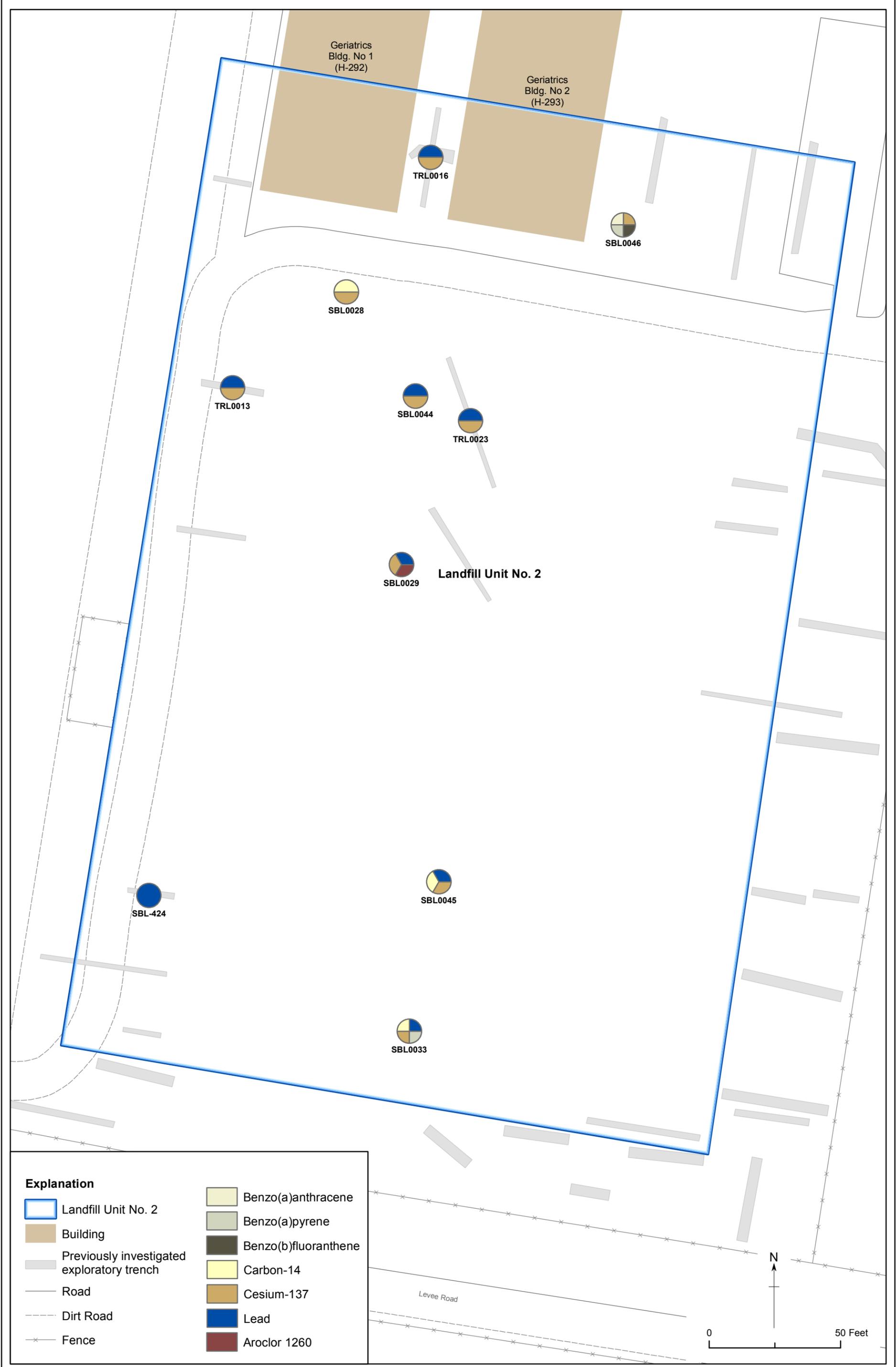


Figure C-11. Landfill Unit No. 2 (0 to 10 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

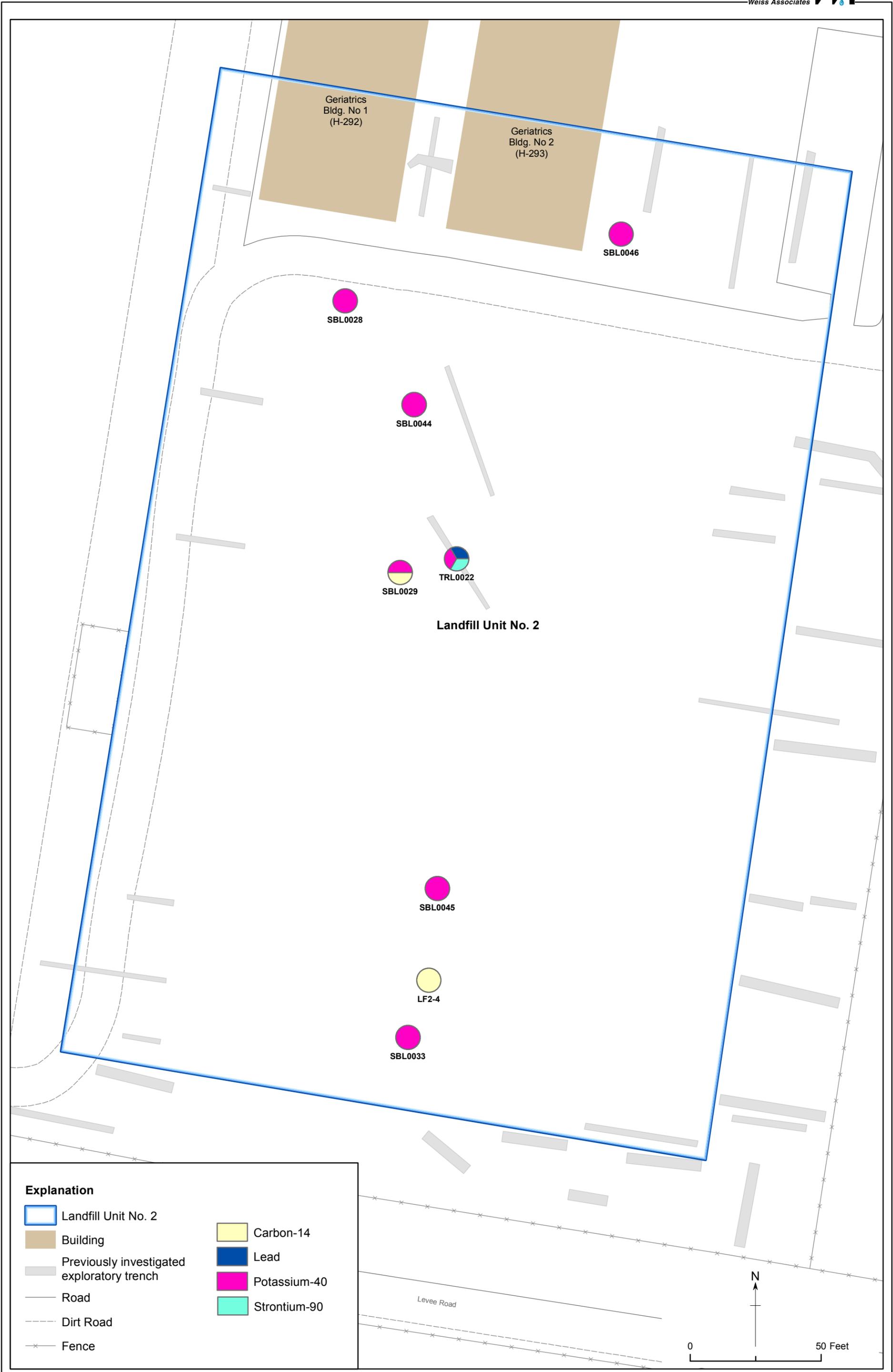


Figure C-12. Landfill Unit No. 2 (10 to 20 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

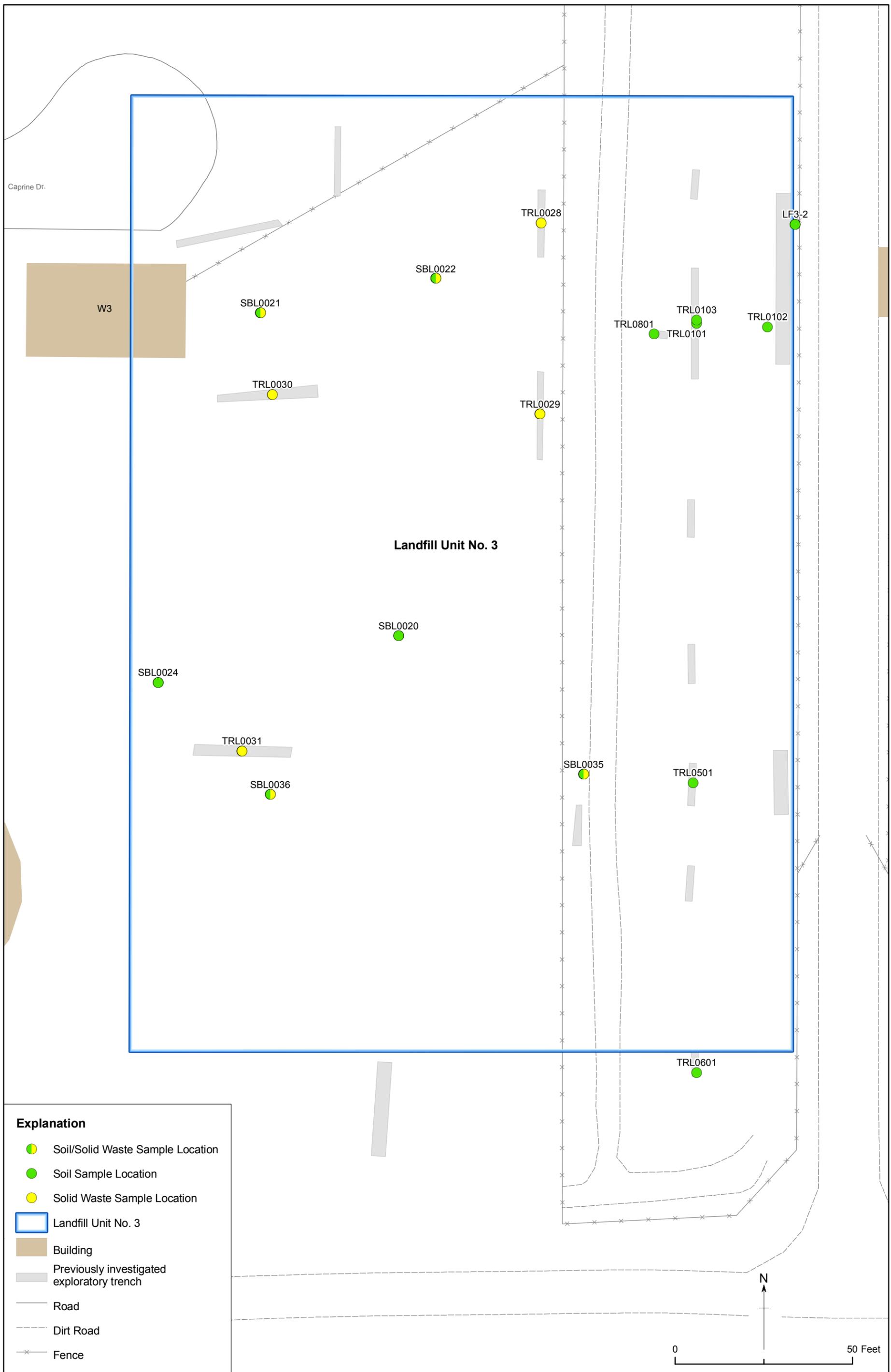


Figure C-13. Soil/Solid Waste Sample Locations for Landfill Unit No. 3 -
Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

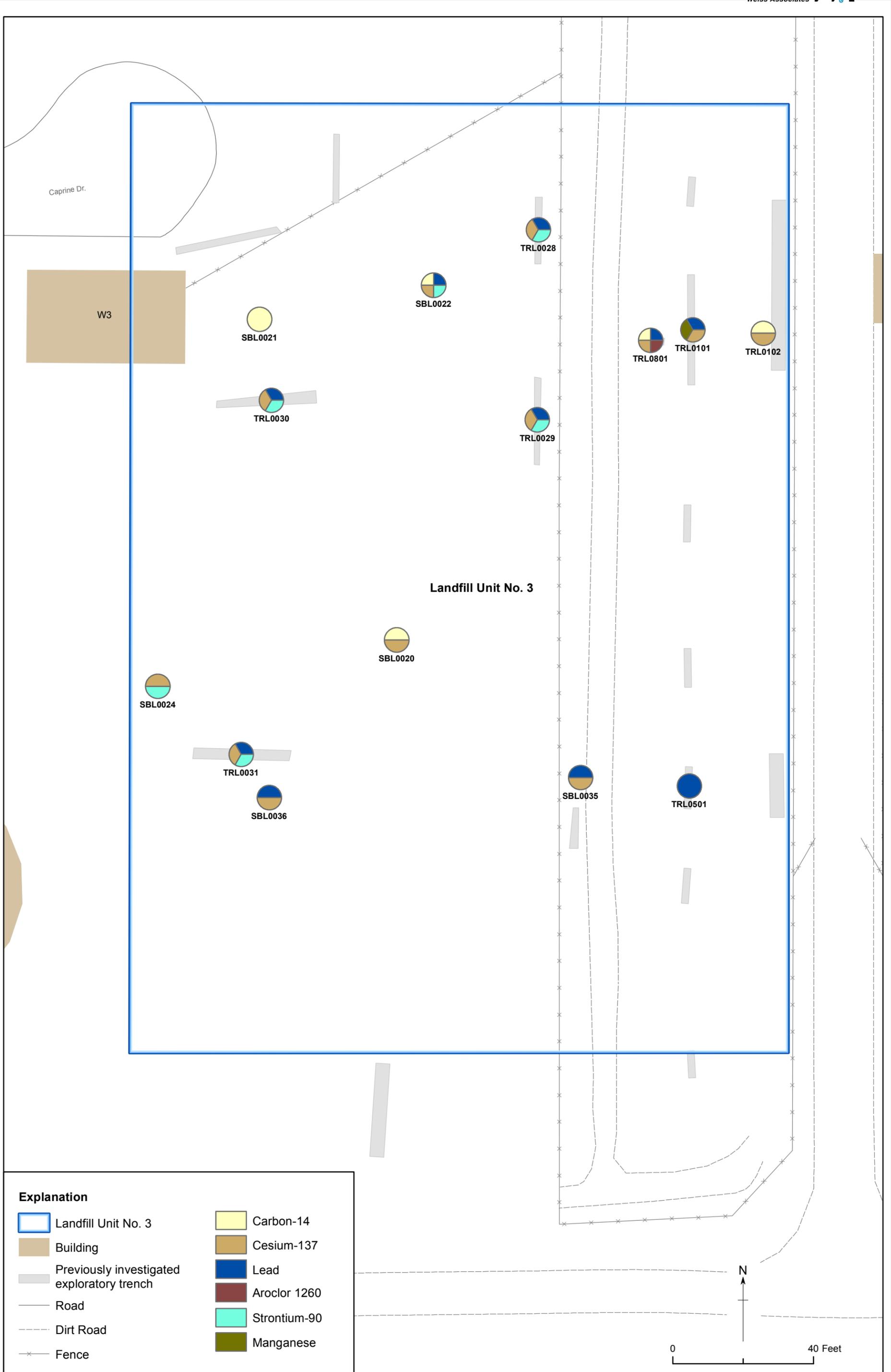


Figure C-14. Landfill Unit No. 3 (0 to 10 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

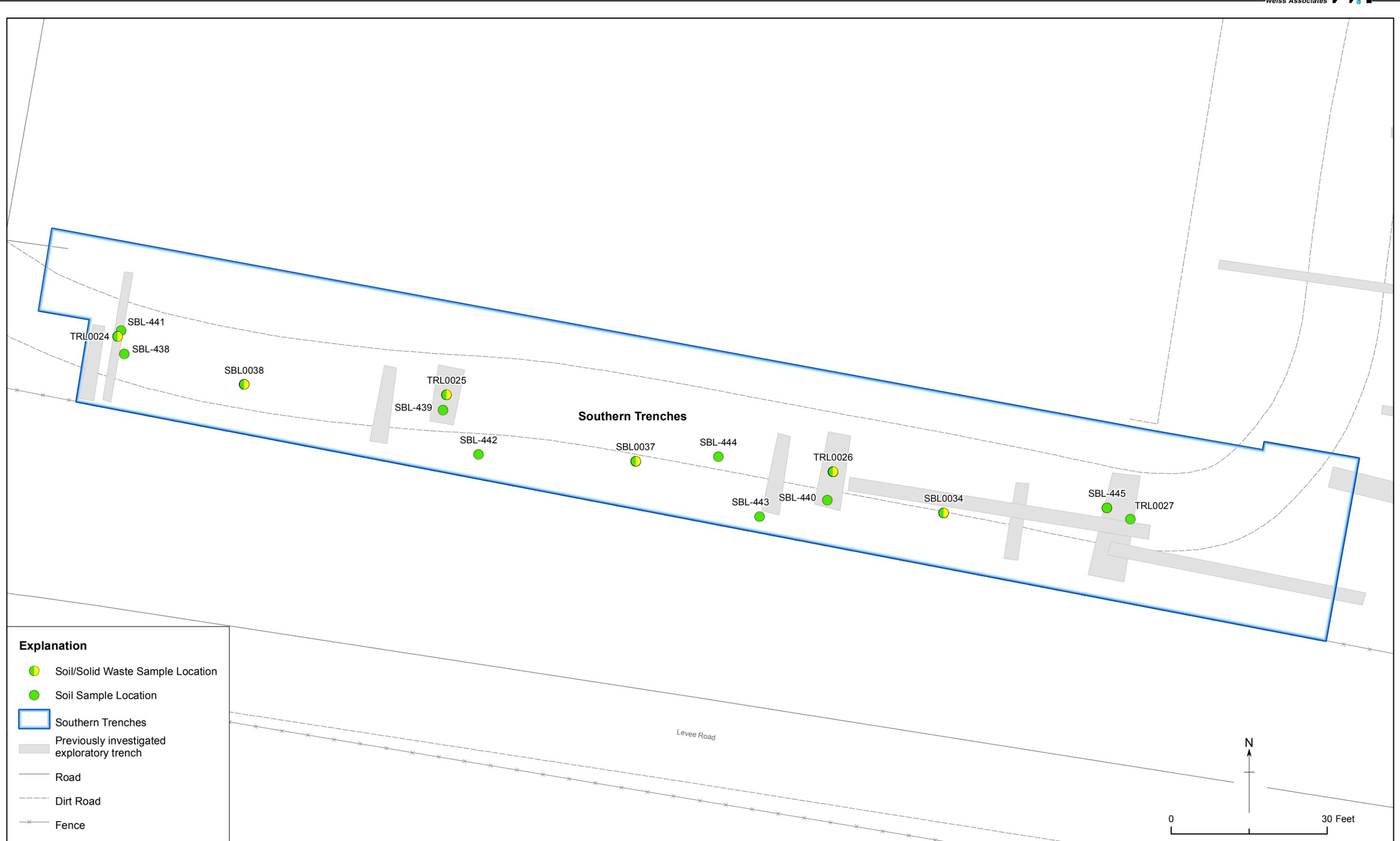


Figure C-16. Soil/Solid Waste Sample Locations for Southern Trenches - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

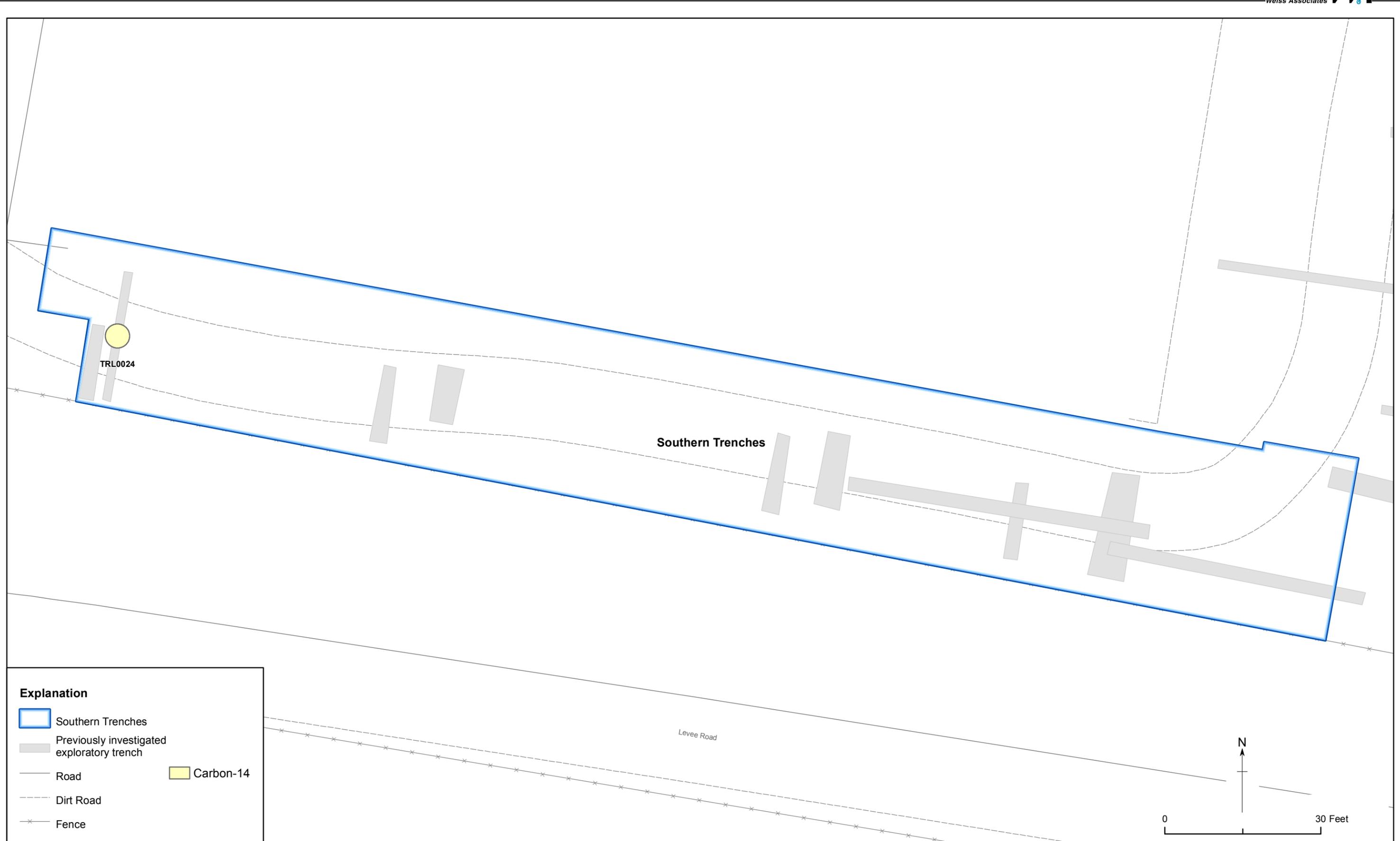


Figure C-17. Southern Trenches (0 to 10 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

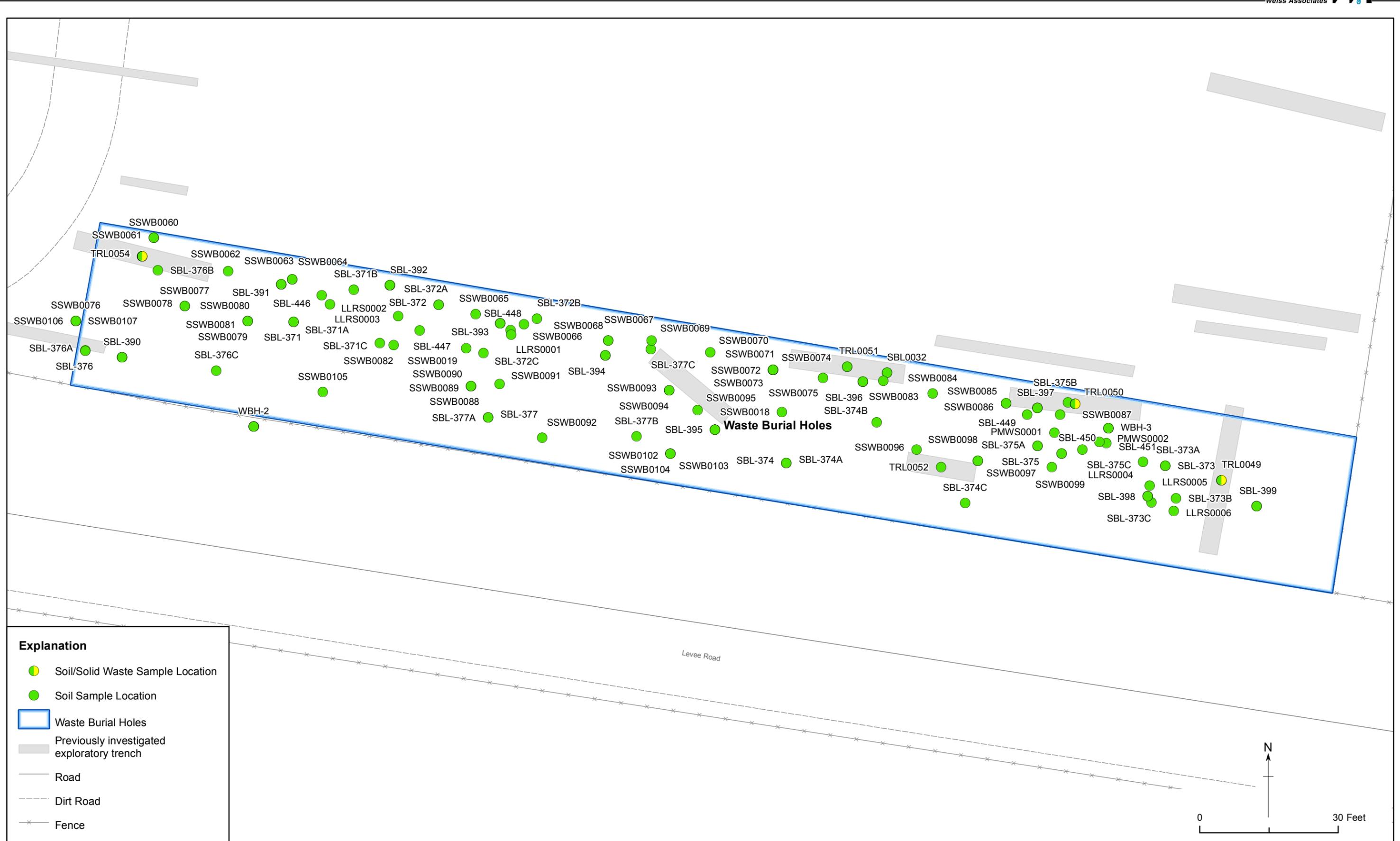


Figure C-18. Soil/Solid Waste Sample Locations for Waste Burial Holes - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

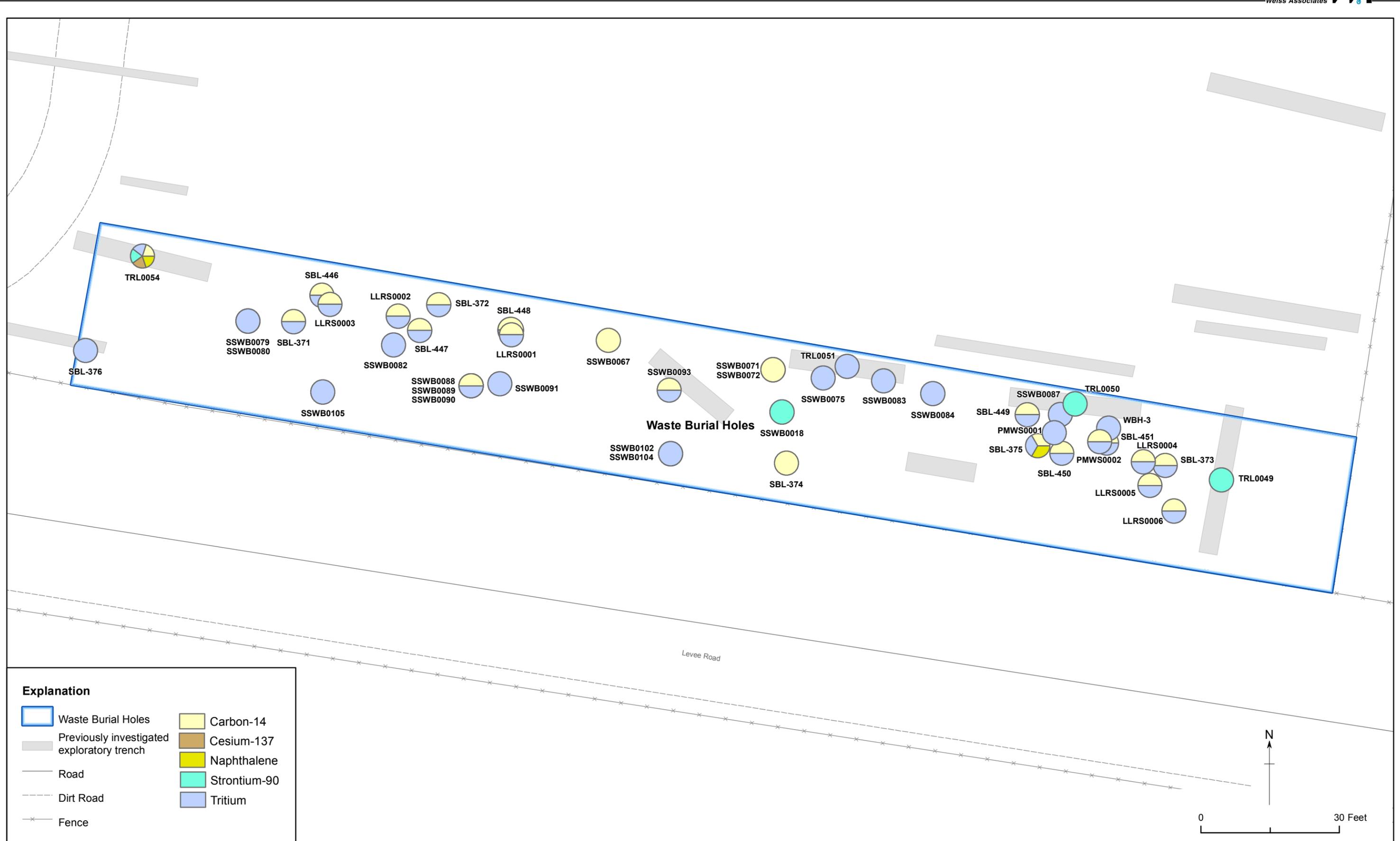


Figure C-19. Waste Burial Holes (0 to 10 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

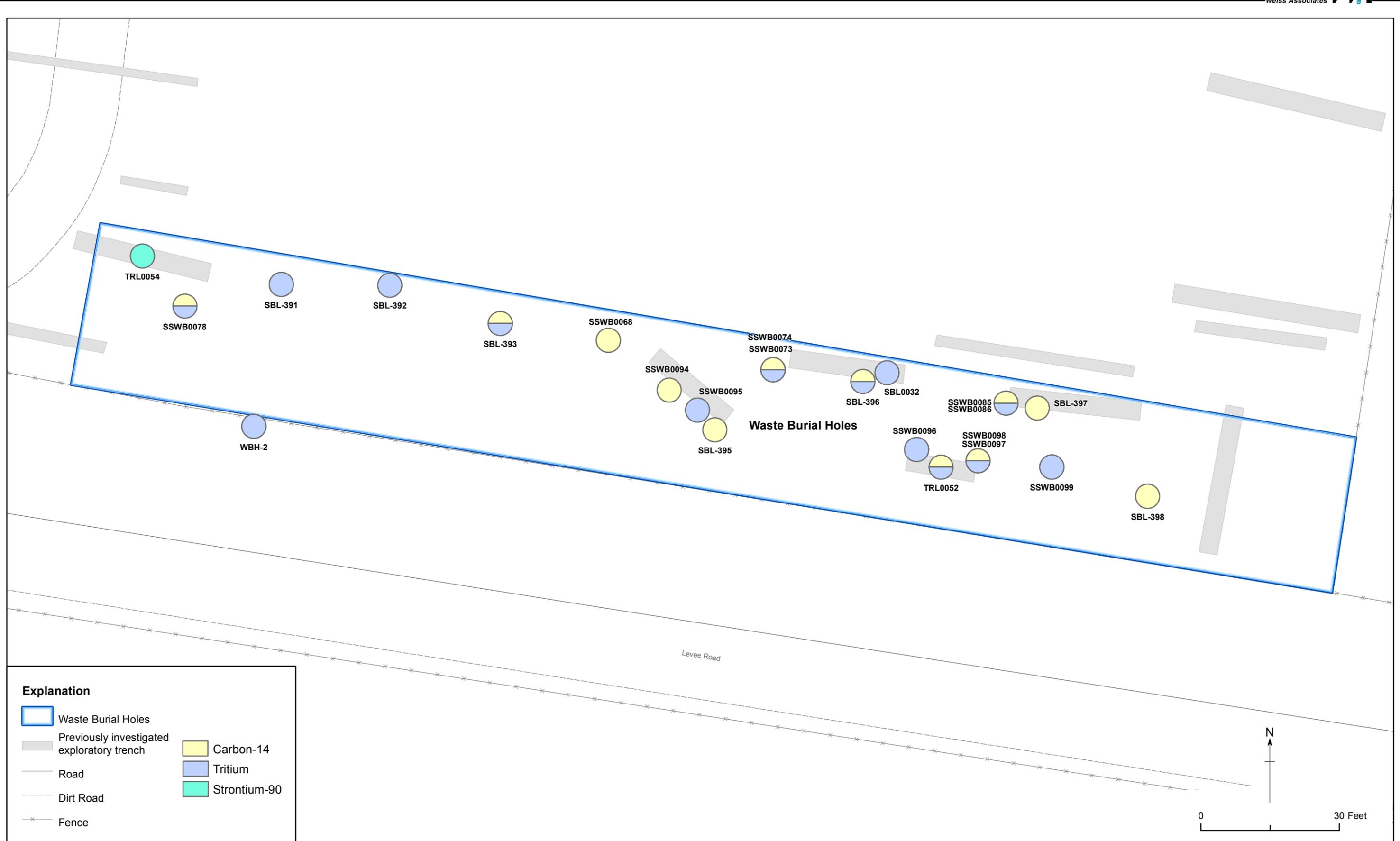


Figure C-20. Waste Burial Holes (10 to 20 feet below ground surface) Locations Where Soil/Solid Waste Concentrations Exceed Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

TABLES

Table C-1. Human Health Risk Assessment — Part C, Preliminary Constituents of Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/Constituent	On-Site Outdoor Researcher	On-Site Indoor Researcher	On-Site Construction Worker	On-Site Resident	On-Site Trespasser
Landfill Unit No. 1	---	---	---		---
Arsenic	---	---	FS	FS	---
Cadmium	---	---	---	FS	---
Landfill Unit No. 2 and Colocated Areas¹					
Benzo(a)pyrene	---	---	---	FS	---
Benzo(k)fluoranthene	---	---	---	FS	---
Cadmium	---	---	---	FS	---
Cesium-137	FS	---	---	FS	---
Chloroform	---	FS	---	FS	---
Copper	---	---	---	FS	---
Dieldrin	---	---	---	FS	---
Hexachlorobenzene	---	---	---	FS	---
Lead-210	x	---	---	x	---
Strontium-90	---	---	---	FS	---
Tetrachloroethene	---	FS	---	FS	---
Thorium-228	x	---	---	x	---
Uranium-238	x	---	---	x	---
Landfill Unit No. 3					
Aroclor 1260	---	---	---	FS	---
Cadmium	---	---	---	FS	---
Cesium-137	FS	---	---	FS	---
Lead-210	x	---	---	x	---
Manganese	---	---	---	FS	---
Strontium-90	---	---	---	FS	---
Southern Trenches					
Cesium-137	---	---	---	x	---
Lead-210	---	---	---	x	---

Notes:

¹ Includes Eastern Trenches and Waste Burial Holes.

This table is based on Table ES-1 in Brown and Caldwell, 2006. *Site-Wide Risk Assessment, Volume I: Human Health Risk Assessment, Part C - Risk Characterization for UC Davis Areas, LEHR/SCDS Environmental Restoration*, April.

Acronyms/Abbreviations:

FS - considered and recommended for inclusion in the Feasibility Study - Volume 1

x - considered but not recommended for inclusion in the Feasibility Study - Volume 1

--- - not a constituent of concern

Table C-2. Soil/Solid Waste Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Analyte Class	CAS Number ¹	Constituent ²	Nov 2011 US EPA	Nov 2011	Adopted Screening Value ⁵ [mg/kg or pCi/g]	Screening Value Source
			RSL ³ (Chemicals) [mg/kg]	US EPA PRG ⁴ (Radionuclides) [pCi/g]		
General						
	---	Alkalinity, Total (as CaCO ₃)	---	---	---	---
	---	Chloride (as Cl)	---	---	---	---
	---	Hardness (as CaCO ₃)	---	---	---	---
	---	Nitrate	---	---	---	---
	---	Nitrite, Nitrate-Nonspecific	---	---	---	---
	---	Nitrogen, Ammonia (as N)	---	---	---	---
	---	Nitrogen, Nitrate-Nitrite (as N)	---	---	---	---
	---	Sulfate (as SO ₄)	---	---	---	---
	---	Sulfide, Total	---	---	---	---
	---	Total Kjeldahl Nitrogen	---	---	---	---
	---	Total Organic Carbon	---	---	---	---
Herbicides						
	94-82-6	2,4 DB	4.9E+02	---	4.9E+02	US EPA RSL
	93-76-5	2,4,5-T (Trichlorophenoxyacetic Acid)	6.1E+02	---	6.1E+02	US EPA RSL
	834-12-8	Ametryn	5.5E+02	---	5.5E+02	US EPA RSL
	1610-17-9	Atraton	---	---	---	---
	86-50-0	Azinphos, Methyl (Guthion)	1.8E+02	---	1.8E+02	US EPA RSL
	35400-43-2	Bolstar	---	---	---	---
	2921-88-2	Chlorpyrifos	6.1E+01	---	6.1E+01	US EPA RSL
	56-72-4	Coumaphos	---	---	---	---
	75-99-0	Dalapon	1.8E+03	---	1.8E+03	US EPA RSL
	298-03-3	Demeton	---	---	---	---
	120-36-5	Dichloroprop	---	---	---	---
	62-73-7	Dichlorvos	1.7E+00	---	1.7E+00	US EPA RSL
	88-85-7	Dinoseb	6.1E+01	---	6.1E+01	US EPA RSL
	298-04-4	Disulfoton	2.4E+00	---	2.4E+00	US EPA RSL
	13194-48-4	Ethoprop	---	---	---	---
	115-90-2	Fensulfothion	---	---	---	---
	55-38-9	Fenthion	---	---	---	---
	94-74-6	MCPA	3.1E+01	---	3.1E+01	US EPA RSL
	93-65-2	MCPP	6.1E+01	---	6.1E+01	US EPA RSL
	150-50-5	Merphos	1.8E+00	---	1.8E+00	US EPA RSL
	7786-34-7	Mevinphos	---	---	---	---
	300-76-5	Naled	1.2E+02	---	1.2E+02	US EPA RSL
	298-00-0	Parathion, Methyl	1.5E+01	---	1.5E+01	US EPA RSL
	298-02-2	Phorate	1.2E+01	---	1.2E+01	US EPA RSL
	1610-18-0	Prometon	9.2E+02	---	9.2E+02	US EPA RSL
	7287-19-6	Prometryn	2.4E+02	---	2.4E+02	US EPA RSL
	139-40-2	Propazine	1.2E+03	---	1.2E+03	US EPA RSL
	299-84-3	Ronnel	3.1E+03	---	3.1E+03	US EPA RSL
	26259-45-0	Secbumeton	---	---	---	---
	93-72-1	Silvex (2,4,5-TP)	4.9E+02	---	4.9E+02	US EPA RSL
	122-34-9	Simazine	4.1E+00	---	4.1E+00	US EPA RSL
	1014-70-6	Simetryn	---	---	---	---
	22248-79-9	Stirofos (Tetrachlorvinphos)	---	---	---	---
	5915-41-3	Terbutylazine	---	---	---	---

Table C-2. Soil/Solid Waste Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Analyte Class	CAS Number ¹	Constituent ²	Nov 2011 US EPA	Nov 2011	Adopted Screening Value ⁵ [mg/kg or pCi/g]	Screening Value Source
			RSL ³ (Chemicals) [mg/kg]	US EPA PRG ⁴ (Radionuclides) [pCi/g]		
Metals	886-50-0	Terbutryn	6.1E+01	---	6.1E+01	US EPA RSL
	64772-54-9	Tokuthion (Prothiofos)	---	---	---	---
	327-98-0	Trichloronate	---	---	---	---
	7440-36-0	Antimony	3.1E+01	---	3.1E+01	US EPA RSL
	7440-38-2	Arsenic	3.9E-01	---	3.9E-01	US EPA RSL
	7440-39-3	Barium	1.5E+04	---	1.5E+04	US EPA RSL
	7440-41-7	Beryllium	1.6E+02	---	1.6E+02	US EPA RSL
	7440-43-9	Cadmium	7.0E+01	---	7.0E+01	US EPA RSL
	7440-70-2	Calcium	---	---	---	---
	18540-29-9	Chromium, Hexavalent	2.9E-01	---	2.9E-01	US EPA RSL
	7440-47-3	Chromium, Total	---	---	---	---
	7440-48-4	Cobalt	2.3E+01	---	2.3E+01	US EPA RSL
	7440-50-8	Copper	3.1E+03	---	3.1E+03	US EPA RSL
	7439-89-6	Iron	5.5E+04	---	5.5E+04	US EPA RSL
	7439-92-1	Lead	4.0E+02	---	8.0E+01	CHHSL
	7439-95-4	Magnesium	---	---	---	---
	7439-96-5	Manganese	1.8E+03	---	1.8E+03	US EPA RSL
	7439-97-6	Mercury	1.0E+01	---	1.0E+01	US EPA RSL
	7439-98-7	Molybdenum	3.9E+02	---	3.9E+02	US EPA RSL
	7440-02-0	Nickel	1.5E+03	---	1.5E+03	US EPA RSL
7440-09-7	Potassium	---	---	---	---	
7782-49-2	Selenium	3.9E+02	---	3.9E+02	US EPA RSL	
7440-22-4	Silver	3.9E+02	---	3.9E+02	US EPA RSL	
7440-23-5	Sodium	---	---	---	---	
7440-28-0	Thallium	7.8E-01	---	7.8E-01	US EPA RSL	
7440-62-2	Vanadium	3.9E+02	---	3.9E+02	US EPA RSL	
7440-66-6	Zinc	2.3E+04	---	2.3E+04	US EPA RSL	
Pesticides	877-09-8	2,4,5,6-Tetrachloro-Meta-Xylene	---	---	---	---
	94-75-7	2,4-D (Dichlorophenoxyacetic Acid)	6.9E+02	---	6.9E+02	US EPA RSL
	16655-82-6	3-Hydroxycarbofuran	---	---	---	---
	116-06-3	Aldicarb (Sulfide, Sulfoxide, and Sulfone)	6.1E+01	---	6.1E+01	US EPA RSL
	1646-88-4	Aldicarb Sulfone	6.1E+01	---	6.1E+01	US EPA RSL
	309-00-2	Aldrin	2.9E-02	---	2.9E-02	US EPA RSL
	319-84-6	Alpha BHC (Alpha Hexachlorocyclohexane)	7.7E-02	---	7.7E-02	US EPA RSL
	959-98-8	Alpha Endosulfan	---	---	---	---
	5103-71-9	Alpha-Chlordane	---	---	---	---
	1912-24-9	Atrazine	2.1E+00	---	2.1E+00	US EPA RSL
	319-85-7	Beta BHC (Beta Hexachlorocyclohexane)	2.7E-01	---	2.7E-01	US EPA RSL
	33213-65-9	Beta Endosulfan	---	---	---	---
	63-25-2	Carbaryl	6.1E+03	---	6.1E+03	US EPA RSL
	1563-66-2	Carbofuran	3.1E+02	---	3.1E+02	US EPA RSL
	12789-03-6	Chlordane	1.6E+00	---	1.6E+00	US EPA RSL
	2051-24-3	Decachlorobiphenyl	---	---	---	---
	319-86-8	Delta BHC (Delta Hexachlorocyclohexane)	---	---	---	---
	1918-00-9	Dicamba	1.8E+03	---	1.8E+03	US EPA RSL

Table C-2. Soil/Solid Waste Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Analyte Class	CAS Number ¹	Constituent ²	Nov 2011 US EPA	Nov 2011	Adopted Screening Value ⁵ [mg/kg or pCi/g]	Screening Value Source
			RSL ³ (Chemicals) [mg/kg]	US EPA PRG ⁴ (Radionuclides) [pCi/g]		
	60-57-1	Dieldrin	3.0E-02	---	3.0E-02	US EPA RSL
	6988-21-2	Dioxacarb	---	---	---	---
	1031-07-8	Endosulfan Sulfate	---	---	---	---
	72-20-8	Endrin	1.8E+01	---	1.8E+01	US EPA RSL
	7421-93-4	Endrin Aldehyde	---	---	---	---
	53494-70-5	Endrin Ketone	---	---	---	---
	58-89-9	Gamma BHC (Lindane)	5.2E-01	---	5.2E-01	US EPA RSL
	5103-74-2	Gamma-Chlordane	---	---	---	---
	76-44-8	Heptachlor	1.1E-01	---	1.1E-01	US EPA RSL
	1024-57-3	Heptachlor Epoxide	5.3E-02	---	5.3E-02	US EPA RSL
	143-50-0	Kepone	4.9E-02	---	4.9E-02	US EPA RSL
	2032-65-7	Methiocarb	---	---	---	---
	16752-77-5	Methomyl	1.5E+03	---	1.5E+03	US EPA RSL
	72-43-5	Methoxychlor	3.1E+02	---	3.1E+02	US EPA RSL
	2385-85-5	Mirex	2.7E-02	---	2.7E-02	US EPA RSL
	72-54-8	p,p'-DDD	2.0E+00	---	2.0E+00	US EPA RSL
	72-55-9	p,p'-DDE	1.4E+00	---	1.4E+00	US EPA RSL
	50-29-3	p,p'-DDT	1.7E+00	---	1.7E+00	US EPA RSL
	2631-37-0	Promecarb	---	---	---	---
	114-26-1	Propoxur	2.4E+02	---	2.4E+02	US EPA RSL
	8001-35-2	Toxaphene	4.4E-01	---	4.4E-01	US EPA RSL
Polychlorinated Biphenyls						
	12674-11-2	PCB-1016 (Aroclor 1016)	3.9E+00	---	3.9E+00	US EPA RSL
	11104-28-2	PCB-1221 (Aroclor 1221)	1.4E-01	---	1.4E-01	US EPA RSL
	11141-16-5	PCB-1232 (Aroclor 1232)	1.4E-01	---	1.4E-01	US EPA RSL
	53469-21-9	PCB-1242 (Aroclor 1242)	2.2E-01	---	2.2E-01	US EPA RSL
	12672-29-6	PCB-1248 (Aroclor 1248)	2.2E-01	---	2.2E-01	US EPA RSL
	11097-69-1	PCB-1254 (Aroclor 1254)	2.2E-01	---	2.2E-01	US EPA RSL
	11096-82-5	PCB-1260 (Aroclor 1260)	2.2E-01	---	2.2E-01	US EPA RSL
Radionuclides						
	---	Actinium-228	---	6.79E+02	6.79E+02	US EPA PRG
	---	Alpha, Gross	---	---	---	---
	---	Americium-241	---	1.80E+00	1.80E+00	US EPA PRG
	---	Antimony-124	---	1.63E+00	1.63E+00	US EPA PRG
	---	Antimony-125	---	4.72E-01	4.72E-01	US EPA PRG
	---	Barium-133	---	1.72E-01	1.72E-01	US EPA PRG
	---	Barium-140	---	8.73E+01	8.73E+01	US EPA PRG
	---	Beryllium-7	---	7.56E+01	7.56E+01	US EPA PRG
	---	Beta, Gross	---	---	---	---
	---	Bismuth-212	---	2.80E+03	2.80E+03	US EPA PRG
	---	Bismuth-214	---	7.95E+03	7.95E+03	US EPA PRG
	14762-75-5	Carbon-14	---	4.76E-01	4.76E-01	US EPA PRG
	---	Cerium-139	---	1.28E+01	1.28E+01	US EPA PRG
	---	Cerium-141	---	1.09E+02	1.09E+02	US EPA PRG
	---	Cerium-144	---	1.16E+01	1.16E+01	US EPA PRG
	---	Cesium-134	---	1.63E-01	1.63E-01	US EPA PRG
	---	Cesium-137	---	6.15E-02	6.15E-02	US EPA PRG

Table C-2. Soil/Solid Waste Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Analyte Class	CAS Number ¹	Constituent ²	Nov 2011 US EPA	Nov 2011	Adopted Screening Value ⁵ [mg/kg or pCi/g]	Screening Value Source
			RSL ³ (Chemicals) [mg/kg]	US EPA PRG ⁴ (Radionuclides) [pCi/g]		
	---	Chromium-51	---	2.39E+02	2.39E+02	US EPA PRG
	---	Cobalt-56	---	6.51E-01	6.51E-01	US EPA PRG
	---	Cobalt-57	---	8.09E+00	8.09E+00	US EPA PRG
	---	Cobalt-58	---	2.77E+00	2.77E+00	US EPA PRG
	---	Cobalt-60	---	3.89E-02	3.89E-02	US EPA PRG
	---	Europium-152; Isotope	---	4.06E-02	4.06E-02	US EPA PRG
	---	Europium-154; Isotope	---	4.79E-02	4.79E-02	US EPA PRG
	---	Europium-155	---	3.63E+00	3.63E+00	US EPA PRG
	---	Iridium-192	---	3.15E+00	3.15E+00	US EPA PRG
	---	Iron-59	---	3.49E+00	3.49E+00	US EPA PRG
	---	Lead-210	---	3.35E-01	3.35E-01	US EPA PRG
	---	Lead-212	---	3.55E+03	3.55E+03	US EPA PRG
	---	Lead-214	---	4.48E+04	4.48E+04	US EPA PRG
	---	Manganese-54	---	7.26E-01	7.26E-01	US EPA PRG
	---	Mercury-203	---	1.82E+01	1.82E+01	US EPA PRG
	---	Neptunium-239	---	6.26E+02	6.26E+02	US EPA PRG
	---	Niobium-94	---	1.60E-02	1.60E-02	US EPA PRG
	---	Niobium-95	---	7.10E+00	7.10E+00	US EPA PRG
	---	Potassium-40	---	1.16E-01	1.16E-01	US EPA PRG
	---	Promethium-144	---	3.47E-01	3.47E-01	US EPA PRG
	---	Promethium-146	---	1.34E-01	1.34E-01	US EPA PRG
	---	Radium-223	---	6.46E+01	6.46E+01	US EPA PRG
	13982-63-3	Radium-226	---	1.21E-02	1.21E-02	US EPA PRG
	---	Radium-228	---	2.92E-02	2.92E-02	US EPA PRG
	---	Ruthenium-106	---	2.29E+00	2.29E+00	US EPA PRG
	---	Sodium-22	---	9.02E-02	9.02E-02	US EPA PRG
	10098-97-2	Strontium-90	---	2.40E-01	2.40E-01	US EPA PRG
	---	Thallium-208	---	2.31E+04	2.31E+04	US EPA PRG
	---	Thorium-228	---	2.34E+01	2.34E+01	US EPA PRG
	---	Thorium-230	---	3.46E+00	3.46E+00	US EPA PRG
	---	Thorium-232	---	3.07E+00	3.07E+00	US EPA PRG
	---	Thorium-234	---	2.80E+02	2.80E+02	US EPA PRG
	---	Tin-113	---	3.02E+02	3.02E+02	US EPA PRG
	10028-17-8	Tritium (Hydrogen-3)	---	8.82E-01	8.82E-01	US EPA PRG
	---	Uranium-235	---	3.95E+00	3.95E+00	US EPA PRG
	---	Uranium-235 and 236	---	3.95E+00	3.95E+00	US EPA PRG
	---	Uranium-238	---	6.96E-01	6.96E-01	US EPA PRG
	---	Yttrium-88	---	5.91E-01	5.91E-01	US EPA PRG
	---	Zinc-65	---	1.25E+00	1.25E+00	US EPA PRG
	---	Zirconium-95	---	4.04E+00	4.04E+00	US EPA PRG
Semi-Volatile Organic Compounds						
	120-82-1	1,2,4-Trichlorobenzene	2.2E+01	---	2.2E+01	US EPA RSL
	122-66-7	1,2-Diphenylhydrazine	6.1E-01	---	6.1E-01	US EPA RSL
	541-73-1	1,3-Dichlorobenzene	---	---	---	---
	1074-55-1	1-Methylnaphthalene	---	---	---	---
	95-95-4	2,4,5-Trichlorophenol	6.1E+03	---	6.1E+03	US EPA RSL
	118-79-6	2,4,6-Tribromophenol	---	---	---	---

Table C-2. Soil/Solid Waste Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Analyte Class	CAS Number ¹	Constituent ²	Nov 2011 US EPA	Nov 2011	Adopted Screening Value ⁵ [mg/kg or pCi/g]	Screening Value Source
			RSL ³ (Chemicals) [mg/kg]	US EPA PRG ⁴ (Radionuclides) [pCi/g]		
	88-06-2	2,4,6-Trichlorophenol	4.4E+01	---	4.4E+01	US EPA RSL
	120-83-2	2,4-Dichlorophenol	1.8E+02	---	1.8E+02	US EPA RSL
	105-67-9	2,4-Dimethylphenol	1.2E+03	---	1.2E+03	US EPA RSL
	51-28-5	2,4-Dinitrophenol	1.2E+02	---	1.2E+02	US EPA RSL
	121-14-2	2,4-Dinitrotoluene	1.6E+00	---	1.6E+00	US EPA RSL
	606-20-2	2,6-Dinitrotoluene	6.1E+01	---	6.1E+01	US EPA RSL
	91-58-7	2-Chloronaphthalene	6.3E+03	---	6.3E+03	US EPA RSL
	95-57-8	2-Chlorophenol	3.9E+02	---	3.9E+02	US EPA RSL
	321-60-8	2-Fluorobiphenyl	---	---	---	---
	367-12-4	2-Fluorophenol	---	---	---	---
	91-57-6	2-Methylnaphthalene	3.1E+02	---	3.1E+02	US EPA RSL
	95-48-7	2-Methylphenol (o-Cresol)	3.1E+03	---	3.1E+03	US EPA RSL
	88-74-4	2-Nitroaniline	6.1E+02	---	6.1E+02	US EPA RSL
	88-75-5	2-Nitrophenol	---	---	---	---
	91-94-1	3,3'-Dichlorobenzidine	1.1E+00	---	1.1E+00	US EPA RSL
	99-09-2	3-Nitroaniline	---	---	---	---
	534-52-1	4,6-Dinitro-2-Methylphenol	4.9E+00	---	4.9E+00	US EPA RSL
	101-55-3	4-Bromophenyl Phenyl Ether	---	---	---	---
	59-50-7	4-Chloro-3-Methylphenol	6.1E+03	---	6.1E+03	US EPA RSL
	106-47-8	4-Chloroaniline	2.4E+00	---	2.4E+00	US EPA RSL
	7005-72-3	4-Chlorophenyl Phenyl Ether	---	---	---	---
	106-44-5	4-Methylphenol (p-Cresol)	3.1E+02	---	3.1E+02	US EPA RSL
	100-01-6	4-Nitroaniline	2.4E+01	---	2.4E+01	US EPA RSL
	100-02-7	4-Nitrophenol	---	---	---	---
	83-32-9	Acenaphthene	3.4E+03	---	3.4E+03	US EPA RSL
	208-96-8	Acenaphthylene	---	---	---	---
	98-86-2	Acetophenone	7.8E+03	---	7.8E+03	US EPA RSL
	62-53-3	Aniline (Phenylamine, Aminobenzene)	8.5E+01	---	8.5E+01	US EPA RSL
	120-12-7	Anthracene	1.7E+04	---	1.7E+04	US EPA RSL
	92-87-5	Benzidine	5.0E-04	---	5.0E-04	US EPA RSL
	56-55-3	Benzo(a)Anthracene	1.5E-01	---	1.5E-01	US EPA RSL
	50-32-8	Benzo(a)Pyrene	1.5E-02	---	1.5E-02	US EPA RSL
	205-99-2	Benzo(b)Fluoranthene	1.5E-01	---	1.5E-01	US EPA RSL
	191-24-2	Benzo(g,h,i)Perylene	---	---	---	---
	207-08-9	Benzo(k)Fluoranthene	1.5E+00	---	1.5E+00	US EPA RSL
	65-85-0	Benzoic Acid	2.4E+05	---	2.4E+05	US EPA RSL
	100-51-6	Benzyl Alcohol	6.1E+03	---	6.1E+03	US EPA RSL
	85-68-7	Benzyl Butyl Phthalate	2.6E+02	---	2.6E+02	US EPA RSL
	111-91-1	bis(2-Chloroethoxy) Methane	1.8E+02	---	1.8E+02	US EPA RSL
	111-44-4	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	2.1E-01	---	2.1E-01	US EPA RSL
	39638-32-9	bis(2-Chloroisopropyl) Ether	---	---	---	---
	117-81-7	bis(2-Ethylhexyl) Phthalate	3.5E+01	---	3.5E+01	US EPA RSL
	86-74-8	Carbazole	---	---	---	---
	218-01-9	Chrysene	1.5E+01	---	1.5E+01	US EPA RSL
	333-41-5	Diazinon	4.3E+01	---	4.3E+01	US EPA RSL
	53-70-3	Dibenz(a,h)Anthracene	1.5E-02	---	1.5E-02	US EPA RSL
	132-64-9	Dibenzofuran	7.8E+01	---	7.8E+01	US EPA RSL

Table C-2. Soil/Solid Waste Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Analyte Class	CAS Number ¹	Constituent ²	Nov 2011 US EPA	Nov 2011	Adopted Screening Value ⁵ [mg/kg or pCi/g]	Screening Value Source
			RSL ³ (Chemicals) [mg/kg]	US EPA PRG ⁴ (Radionuclides) [pCi/g]		
	84-66-2	Diethyl Phthalate	4.9E+04	---	4.9E+04	US EPA RSL
	131-11-3	Dimethyl Phthalate	---	---	---	---
	84-74-2	DI-n-Butyl Phthalate	6.1E+03	---	6.1E+03	US EPA RSL
	117-84-0	DI-n-Octylphthalate	---	---	---	---
	122-39-4	Diphenylamine	1.5E+03	---	1.5E+03	US EPA RSL
	206-44-0	Fluoranthene	2.3E+03	---	2.3E+03	US EPA RSL
	86-73-7	Fluorene	2.3E+03	---	2.3E+03	US EPA RSL
	118-74-1	Hexachlorobenzene	3.0E-01	---	3.0E-01	US EPA RSL
	87-68-3	Hexachlorobutadiene	6.2E+00	---	6.2E+00	US EPA RSL
	77-47-4	Hexachlorocyclopentadiene	3.7E+02	---	3.7E+02	US EPA RSL
	67-72-1	Hexachloroethane	1.2E+01	---	1.2E+01	US EPA RSL
	193-39-5	Indeno(1,2,3-c,d)Pyrene	1.5E-01	---	1.5E-01	US EPA RSL
	78-59-1	Isophorone	5.1E+02	---	5.1E+02	US EPA RSL
	91-20-3	Naphthalene	3.6E+00	---	3.6E+00	US EPA RSL
	98-95-3	Nitrobenzene	4.8E+00	---	4.8E+00	US EPA RSL
	62-75-9	N-Nitrosodimethylamine	2.3E-03	---	2.3E-03	US EPA RSL
	621-64-7	N-Nitrosodi-n-Propylamine	6.9E-02	---	6.9E-02	US EPA RSL
	86-30-6	N-Nitrosodiphenylamine	9.9E+01	---	9.9E+01	US EPA RSL
	87-86-5	Pentachlorophenol	8.9E-01	---	8.9E-01	US EPA RSL
	85-01-8	Phenanthrene	---	---	---	---
	108-95-2	Phenol	1.8E+04	---	1.8E+04	US EPA RSL
	129-00-0	Pyrene	1.7E+03	---	1.7E+03	US EPA RSL
	110-86-1	Pyridine	7.8E+01	---	7.8E+01	US EPA RSL
	126-73-8	Tributyl Phosphate	5.4E+01	---	5.4E+01	US EPA RSL
Volatile Organic Compounds						
	123-73-9	(E)-2-Butenal	3.4E-01	---	3.4E-01	US EPA RSL
	71-55-6	1,1,1-Trichloroethane	8.7E+03	---	8.7E+03	US EPA RSL
	79-34-5	1,1,2,2-Tetrachloroethane	5.6E-01	---	5.6E-01	US EPA RSL
	79-00-5	1,1,2-Trichloroethane	1.1E+00	---	1.1E+00	US EPA RSL
	75-34-3	1,1-Dichloroethane	3.3E+00	---	3.3E+00	US EPA RSL
	75-35-4	1,1-Dichloroethene	2.4E+02	---	2.4E+02	US EPA RSL
	95-50-1	1,2-Dichlorobenzene	1.9E+03	---	1.9E+03	US EPA RSL
	107-06-2	1,2-Dichloroethane	4.3E-01	---	4.3E-01	US EPA RSL
	78-87-5	1,2-Dichloropropane	9.4E-01	---	9.4E-01	US EPA RSL
	106-46-7	1,4-Dichlorobenzene	2.4E+00	---	2.4E+00	US EPA RSL
	591-78-6	2-Hexanone	2.1E+02	---	2.1E+02	US EPA RSL
	75-07-0	Acetaldehyde	1.0E+01	---	1.0E+01	US EPA RSL
	67-64-1	Acetone	6.1E+04	---	6.1E+04	US EPA RSL
	71-43-2	Benzene	1.1E+00	---	1.1E+00	US EPA RSL
	75-27-4	Bromodichloromethane	2.7E-01	---	2.7E-01	US EPA RSL
	75-25-2	Bromoform	6.2E+01	---	6.2E+01	US EPA RSL
	74-83-9	Bromomethane	7.3E+00	---	7.3E+00	US EPA RSL
	123-72-8	Butanal	---	---	---	---
	75-15-0	Carbon Disulfide	8.2E+02	---	8.2E+02	US EPA RSL
	56-23-5	Carbon Tetrachloride	6.1E-01	---	6.1E-01	US EPA RSL
	108-90-7	Chlorobenzene	2.9E+02	---	2.9E+02	US EPA RSL
	75-00-3	Chloroethane	1.5E+04	---	1.5E+04	US EPA RSL

Table C-2. Soil/Solid Waste Screening Values - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Analyte Class	CAS Number ¹	Constituent ²	Nov 2011 US EPA	Nov 2011	Adopted Screening Value ⁵ [mg/kg or pCi/g]	Screening Value Source
			RSL ³ (Chemicals) [mg/kg]	US EPA PRG ⁴ (Radionuclides) [pCi/g]		
	67-66-3	Chloroform	2.9E-01	---	2.9E-01	US EPA RSL
	74-87-3	Chloromethane	1.2E+02	---	1.2E+02	US EPA RSL
	10061-01-5	cis-1,3-Dichloropropene	---	---	---	---
	108-94-1	Cyclohexanone	3.1E+05	---	3.1E+05	US EPA RSL
	112-31-2	Decanal	---	---	---	---
	124-48-1	Dibromochloromethane	6.8E-01	---	6.8E-01	US EPA RSL
	100-41-4	Ethylbenzene	5.4E+00	---	5.4E+00	US EPA RSL
	50-00-0	Formaldehyde	1.2E+04	---	1.2E+04	US EPA RSL
	111-71-7	Heptanal	---	---	---	---
	66-25-1	Hexanal	---	---	---	---
	78-93-3	Methyl Ethyl Ketone (2-Butanone)	2.8E+04	---	2.8E+04	US EPA RSL
	108-10-1	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	5.3E+03	---	5.3E+03	US EPA RSL
	75-09-2	Methylene Chloride	1.1E+01	---	1.1E+01	US EPA RSL
	124-19-6	Nonanal	---	---	---	---
	124-13-0	Octanal	---	---	---	---
	110-62-3	Pentanal	---	---	---	---
	123-38-6	Propanal	8.0E+01	---	8.0E+01	US EPA RSL
	100-42-5	Styrene	6.3E+03	---	6.3E+03	US EPA RSL
	108-88-3	Toluene	5.0E+03	---	5.0E+03	US EPA RSL
	540-59-0	Total 1,2-Dichloroethene	7.0E+02	---	7.0E+02	US EPA RSL
	10061-02-6	trans-1,3-Dichloropropene	---	---	---	---
	79-01-6	Trichloroethylene (TCE)	9.1E-01	---	9.1E-01	US EPA RSL
	127-18-4	Tetrachloroethylene (PCE)	5.5E-01	---	5.5E-01	US EPA RSL
	75-01-4	Vinyl Chloride	6.0E-02	---	6.0E-02	US EPA RSL
	1330-20-7	Xylenes, Total	6.3E+02	---	6.3E+02	US EPA RSL

Notes:

¹ Obtained from <http://webbook.nist.gov/chemistry/name-ser.html> (accessed 1/18/10)

² Obtained from Site Database query (accessed 1/15/10)

³ November 2011 RSLs obtained from http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table (accessed 1/10/2012).

⁴ August 2010 PRGs obtained from <http://epa-prgs.ornl.gov/radionuclides/download.shtml> (accessed 1/10/12).

⁵ Adopted Screening Value for non-radionuclides is the US EPA RSL, except for lead, which is a CHHSL (obtained from <http://oehha.ca.gov/risk/chhsltable.html>, accessed July 2010) in units of mg/kg. For radionuclides, the US EPA PRG is selected as the Adopted Screening Value in units of pCi/g.

Acronyms/Abbreviations:

CAS - Chemical Abstracts Service

CHHSL - California Human Health Screening Level

mg/kg - milligrams per kilogram

pCi/g - picocuries per gram

PRG - Preliminary Remediation Goal

RSL - Regional Screening Level

US EPA - United States Environmental Protection Agency

Table C-3. Eastern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
122-66-7	1,2-Diphenylhydrazine	---	---	mg/kg	---	0 / 13	0.35 - 0.38	---	0.61	No	ND
98-86-2	Acetophenone	---	---	mg/kg	---	0 / 13	0.35 - 0.38	---	7,800	No	ND
62-53-3	Aniline (Phenylamine, Aminobenzene)	---	---	mg/kg	---	0 / 13	0.35 - 0.38	---	85	No	ND
108-94-1	Cyclohexanone	---	---	mg/kg	---	0 / 4	0.17 - 0.18	---	310,000	No	ND
111-71-7	Heptanal	---	---	mg/kg	---	0 / 4	0.22 - 0.24	---	---	No	ND, NTX
---	Alkalinity, Total (as CaCO ₃)	580	580	mg/kg	SBL0031 / SSUT0015	1 / 2	300 - 300	580	---	No	NTX
---	Chloride (as Cl)	0.89	1.9	mg/kg	SBL0030 / SSUT0003	2 / 2	0.22 - 0.24	1.9	---	No	NTX
---	Nitrate	1.2	5.29 J	mg/kg	SBL-429 / SSET0104	8 / 10	1.04 - 1.16	5.29 J	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	1.03	700	mg/kg	TRL0047 / SSUT0050	20 / 23	0.2 - 2.3	700	---	No	NTX
---	Nitrogen, Ammonia (as N)	2.77	12.2	mg/kg	SBL-429 / SSET0104	13 / 15	1.05 - 1.8	12.2	---	No	NTX
---	Sulfate (as SO ₄)	1.2	39	mg/kg	SBL0030 / SSUT0003	2 / 2	1.1 - 1.2	39	---	No	NTX
---	Sulfide, Total	---	---	mg/kg	---	0 / 2	54 - 60	---	---	No	ND, NTX
---	Total Kjeldahl Nitrogen	4.21	936	mg/kg	SBL-432 / SSET0107	15 / 15	2.1 - 57.4	936	---	No	NTX
---	Total Organic Carbon	1,700	8,400	mg/kg	SBL0031 / SSUT0015	2 / 2	1,000 - 1,000	8,400	---	No	NTX
7440-36-0	Antimony	---	---	mg/kg	---	0 / 33	0.47 - 14.04	---	31	No	ND
7440-38-2	Arsenic	4.6	9.8	mg/kg	TRL0046 / SSUT0049	32 / 33	0.39 - 2.34	9.8	0.39	Yes	ASL
7440-39-3	Barium	89.7	447	mg/kg	TRL0047 / SSUT0050	33 / 33	0.019 - 46.78	447	15,000	No	BSL
7440-41-7	Beryllium	0.26	0.553	mg/kg	SBL-437 / SSET0113	17 / 33	0.018 - 1.2	0.553	160	No	BSL
---	Beryllium-7	---	---	pCi/g	---	0 / 13	0.152 - 0.476	---	75.6	No	ND
7440-43-9	Cadmium	0.064	0.183	mg/kg	SBL-431 / SSET0106	5 / 33	0.021 - 1.2	0.183	70	No	BSL
7440-70-2	Calcium	4,080	22,100	mg/kg	SBL0031 / SSUT0017	4 / 4	1,000 - 1,000	22,100	---	No	NTX
18540-29-9	Chromium, Hexavalent	1.31	1.31 J	mg/kg	SBL-432 / SSET0107	1 / 33	0.11 - 1.07	1.31 J	0.29	Yes	ASL
7440-47-3	Chromium, Total	32.4	283	mg/kg	SBL-433 / SSET0108	33 / 33	0.052 - 2.34	283	---	No	NTX
7440-48-4	Cobalt	14.4	29.6	mg/kg	SBL0031 / SSUT0017	32 / 33	0.057 - 11.7	29.6	23	Yes	ASL
7440-50-8	Copper	15.6	59	mg/kg	SBL0031 / SSUT0017	33 / 33	0.128 - 5.85	59	3,100	No	BSL
7439-89-6	Iron	30,000	47,000	mg/kg	SBL0031 / SSUT0017	17 / 17	0.207 - 20	47,000	55,000	No	BSL
7439-92-1	Lead	5.9	62.5	mg/kg	SBL-436 / SSET0112	33 / 33	0.122 - 0.7	62.5	80	No	BSL
7439-95-4	Magnesium	13,600	31,900	mg/kg	SBL0031 / SSUT0014	4 / 4	1,000 - 1,000	31,900	---	No	NTX
7439-96-5	Manganese	542	849	mg/kg	SBL0031 / SSUT0017	17 / 17	0.036 - 3	849	1,800	No	BSL
7439-97-6	Mercury	0.13	4.8	mg/kg	TRL0045 / SSUT0047	29 / 33	0.002 - 0.12	4.8	10	No	BSL
7439-98-7	Molybdenum	0.185	1.84	mg/kg	SBL-435 / SSET0110	14 / 33	0.113 - 46.78	1.84	390	No	BSL
7440-02-0	Nickel	53	338	mg/kg	SBL0031 / SSUT0014	33 / 33	0.082 - 9.36	338	1,500	No	BSL
7440-09-7	Potassium	1,150	2,670	mg/kg	SBL0031 / SSUT0015	4 / 4	1,000 - 1,000	2,670	---	No	NTX
7782-49-2	Selenium	0.314	3.5	mg/kg	SBL0043 / SSUT0087	20 / 33	0.262 - 1.2	3.5	390	No	BSL
7440-22-4	Silver	0.586	4.1	mg/kg	TRL0045 / SSUT0047	3 / 33	0.113 - 2.34	4.1	390	No	BSL
7440-23-5	Sodium	453	640	mg/kg	SBL0031 / SSUT0017	4 / 4	1,000 - 1,000	640	---	No	NTX
7440-28-0	Thallium	0.534	0.534	mg/kg	SBL-437 / SSET0113	1 / 33	0.489 - 2.34	0.534	0.78	No	BSL
7440-62-2	Vanadium	14.5	82.2	mg/kg	SBL0031 / SSUT0017	33 / 33	0.078 - 11.7	82.2	390	No	BSL
7440-66-6	Zinc	49.2	369	mg/kg	TRL0047 / SSUT0050	33 / 33	0.124 - 4.7	369	23,000	No	BSL
12674-11-2	PCB-1016 (Aroclor 1016)	---	---	mg/kg	---	0 / 20	0.035 - 0.041	---	3.9	No	ND
11104-28-2	PCB-1221 (Aroclor 1221)	---	---	mg/kg	---	0 / 20	0.07 - 0.082	---	0.14	No	ND
11141-16-5	PCB-1232 (Aroclor 1232)	---	---	mg/kg	---	0 / 20	0.035 - 0.041	---	0.14	No	ND
53469-21-9	PCB-1242 (Aroclor 1242)	---	---	mg/kg	---	0 / 20	0.035 - 0.041	---	0.22	No	ND
12672-29-6	PCB-1248 (Aroclor 1248)	---	---	mg/kg	---	0 / 20	0.035 - 0.041	---	0.22	No	ND
11097-69-1	PCB-1254 (Aroclor 1254)	---	---	mg/kg	---	0 / 20	0.035 - 0.041	---	0.22	No	ND
11096-82-5	PCB-1260 (Aroclor 1260)	---	---	mg/kg	---	0 / 20	0.035 - 0.041	---	0.22	No	ND
877-09-8	2,4,5,6-TETRACHLORO-META-XYLENE	0.025	0.032	mg/kg	SBL-435 / SSET0110	9 / 9	---	0.032	---	No	NTX
309-00-2	Aldrin	0.0009	0.0031	mg/kg	SBL0031 / SSUT0017	2 / 33	0.0007 - 0.0036	0.0031	0.029	No	BSL
319-84-6	Alpha BHC (Alpha Hexachlorocyclohexane)	---	0.026	mg/kg	SBL-426 / SSET0101	4 / 33	0.0007 - 0.0036	0.026	0.077	No	BSL
959-98-8	Alpha Endosulfan	0.00095	0.0089	mg/kg	TRL0046 / SSUT0048	2 / 33	0.0007 - 0.0036	0.0089	---	No	NTX
5103-71-9	Alpha-Chlordane	0.00097	0.087	mg/kg	TRL0047 / SSUT0050	17 / 33	0.0007 - 0.0036	0.087	---	No	NTX

Table C-3. Eastern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
319-85-7	Beta BHC (Beta Hexachlorocyclohexane)	---	---	mg/kg	---	0 / 33	0.0007 - 0.0036	---	0.27	No	ND
33213-65-9	Beta Endosulfan	---	---	mg/kg	---	0 / 33	0.0014 - 0.0072	---	---	No	ND, NTX
57-74-9	Chlordane	0.013	0.33	mg/kg	SBL-431 / SSET0106	13 / 13	0.0087 - 0.045	0.33	1.6	No	BSL
2051-24-3	DECACHLOROBIPHENYL	0.022	0.039	mg/kg	SBL-435 / SSET0110	13 / 13	---	0.039	---	No	NTX
319-86-8	Delta BHC (Delta Hexachlorocyclohexane)	---	---	mg/kg	---	0 / 33	0.0007 - 0.0036	---	---	No	ND, NTX
60-57-1	Dieldrin	0.002	0.13	mg/kg	SBL0031 / SSUT0017	13 / 33	0.0014 - 0.0072	0.13	0.03	Yes	ASL
1031-07-8	Endosulfan Sulfate	---	---	mg/kg	---	0 / 33	0.0014 - 0.0072	---	---	No	ND, NTX
72-20-8	Endrin	0.00074	0.038	mg/kg	SBL0031 / SSUT0017	4 / 33	0.0014 - 0.0072	0.038	18	No	BSL
7421-93-4	Endrin Aldehyde	0.0004	1.088	mg/kg	TRL0047 / SSUT0050	5 / 33	0.0014 - 0.0072	1.088	---	No	NTX
53494-70-5	Endrin Ketone	0.0023	0.013	mg/kg	SBL0031 / SSUT0017	2 / 33	0.0014 - 0.0072	0.013	---	No	NTX
58-89-9	Gamma BHC (Lindane)	---	---	mg/kg	---	0 / 33	0.0007 - 0.0036	---	0.52	No	ND
5103-74-2	Gamma-Chlordane	0.00087	0.105	mg/kg	TRL0047 / SSUT0050	18 / 33	0.0007 - 0.0036	0.105	---	No	NTX
76-44-8	Heptachlor	---	---	mg/kg	---	0 / 33	0.0007 - 0.0036	---	0.11	No	ND
1024-57-3	Heptachlor Epoxide	---	---	mg/kg	---	0 / 33	0.0007 - 0.0036	---	0.053	No	ND
72-43-5	Methoxychlor	---	---	mg/kg	---	0 / 33	0.007 - 0.036	---	310	No	ND
72-54-8	p,p'-DDD	0.00041	0.14	mg/kg	TRL0045 / SSUT0044	3 / 33	0.0014 - 0.019	0.14	2	No	BSL
72-55-9	p,p'-DDE	0.002	0.21	mg/kg	TRL0045 / SSUT0044	3 / 33	0.0014 - 0.019	0.21	1.4	No	BSL
50-29-3	p,p'-DDT	0.0018	0.045 J	mg/kg	SBL-426 / SSET0101	10 / 33	0.0014 - 0.0072	0.045 J	1.7	No	BSL
8001-35-2	Toxaphene	---	---	mg/kg	---	0 / 33	0.035 - 0.21	---	0.44	No	ND
---	Actinium-228	0.376	0.76	pCi/g	TRL0046 / SSUT0049	33 / 33	0.0576 - 0.27	0.76	679	No	BSL
---	Alpha, Gross	3.19	13.1	pCi/g	SBL0031 / SSUT0017	20 / 33	1.85 - 8.6	13.1	---	No	NTX
---	Americium-241	---	---	pCi/g	---	0 / 13	0.0271 - 0.149	---	1.8	No	ND
---	Antimony-124	---	---	pCi/g	---	0 / 13	0.0179 - 0.0591	---	1.63	No	ND
---	Antimony-125	---	---	pCi/g	---	0 / 13	0.0406 - 0.132	---	0.472	No	ND
---	Barium-133	---	---	pCi/g	---	0 / 13	0.0201 - 0.0663	---	0.172	No	ND
---	Barium-140	---	---	pCi/g	---	0 / 13	0.114 - 0.374	---	87.3	No	ND
---	Beta, Gross	9.8	17.6	pCi/g	SBL0041 / SSUT0080	33 / 33	3.92 - 6.26	17.6	---	No	NTX
---	Bismuth-212	0.261	0.61	pCi/g	SBL0041 / SSUT0080	19 / 30	0.128 - 0.5	0.61	2,800	No	BSL
---	Bismuth-214	0.251	0.62	pCi/g	TRL0048 / SSUT0055	33 / 33	0.0328 - 0.14	0.62	7,950	No	BSL
14762-75-5	Carbon-14	1.15	1.8 J	pCi/g	SBL0031 / SSUT0017	2 / 33	0.875 - 11	1.8 J	0.476	Yes	ASL
---	Cerium-139	---	---	pCi/g	---	0 / 13	0.0142 - 0.0402	---	12.8	No	ND
---	Cerium-141	---	---	pCi/g	---	0 / 13	0.0293 - 0.0843	---	109	No	ND
---	Cerium-144	---	---	pCi/g	---	0 / 13	0.0914 - 0.276	---	11.6	No	ND
---	Cesium-134	---	---	pCi/g	---	0 / 15	0.016 - 0.0526	---	0.163	No	ND
---	Cesium-137	0.0184	0.073	pCi/g	TRL0046 / SSUT0048	9 / 31	0.0168 - 0.071	0.073	0.0615	Yes	ASL
---	Chromium-51	---	---	pCi/g	---	0 / 13	0.175 - 0.519	---	239	No	ND
---	Cobalt-56	---	---	pCi/g	---	0 / 13	0.0179 - 0.0584	---	0.651	No	ND
---	Cobalt-57	---	---	pCi/g	---	0 / 15	0.011 - 0.0335	---	8.09	No	ND
---	Cobalt-58	---	---	pCi/g	---	0 / 13	0.0153 - 0.0522	---	2.77	No	ND
---	Cobalt-60	---	---	pCi/g	---	0 / 33	0.019 - 0.08	---	0.0389	No	ND
---	Europium-155	---	---	pCi/g	---	0 / 13	0.0461 - 0.133	---	3.63	No	ND
---	Europium-152; Isotope	---	---	pCi/g	---	0 / 13	0.0429 - 0.144	---	0.0406	No	ND
---	Europium-154; Isotope	---	---	pCi/g	---	0 / 13	0.0523 - 0.17	---	0.0479	No	ND
---	Iridium-192	---	---	pCi/g	---	0 / 12	0.0164 - 0.0499	---	3.15	No	ND
---	Iron-59	---	---	pCi/g	---	0 / 13	0.0423 - 0.133	---	3.49	No	ND
---	Lead-210	0.535	0.737	pCi/g	SBL-428 / SSET0103	3 / 31	0.204 - 15	0.737	0.335	Yes	ASL
---	Lead-212	0.365	0.73	pCi/g	TRL0048 / SSUT0055	33 / 33	0.0254 - 0.11	0.73	3,550	No	BSL
---	Lead-214	0.375	0.673	pCi/g	TRL0048 / SSUT0055	33 / 33	0.0325 - 0.13	0.673	44,800	No	BSL
---	Manganese-54	---	---	pCi/g	---	0 / 12	0.0171 - 0.053	---	0.726	No	ND
---	Mercury-203	---	---	pCi/g	---	0 / 10	0.0211 - 0.0562	---	18.2	No	ND
---	Neptunium-239	---	---	pCi/g	---	0 / 13	0.0817 - 0.241	---	626	No	ND
---	Niobium-94	---	---	pCi/g	---	0 / 13	0.0153 - 0.049	---	0.016	No	ND

Table C-3. Eastern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
---	Niobium-95	---	---	pCi/g	---	0 / 13	0.0229 - 0.0718	---	7.1	No	ND
---	Potassium-40	8.48	12.6	pCi/g	SBL-432 / SSET0107	33 / 33	0.149 - 0.8	12.6	0.116	Yes	ASL
---	Promethium-144	---	---	pCi/g	---	0 / 13	0.0164 - 0.0551	---	0.347	No	ND
---	Promethium-146	---	---	pCi/g	---	0 / 13	0.0195 - 0.0665	---	0.134	No	ND
---	Radium-223	---	---	pCi/g	---	0 / 14	0.52 - 0.93	---	64.6	No	ND
13982-63-3	Radium-226	0.21	0.81	pCi/g	TRL0045 / SSUT0045	31 / 33	0.0328 - 0.3	0.81	0.0121	Yes	ASL
---	Radium-228	0.376	0.56	pCi/g	SBL-436 / SSET0112	13 / 13	0.0576 - 0.203	0.56	0.0292	Yes	ASL
---	Ruthenium-106	---	---	pCi/g	---	0 / 13	0.147 - 0.467	---	2.29	No	ND
---	Sodium-22	---	---	pCi/g	---	0 / 13	0.0187 - 0.061	---	0.0902	No	ND
10098-97-2	Strontium-90	---	---	pCi/g	---	0 / 33	0.302 - 1.2	---	0.24	No	ND
---	Thallium-208	0.119	0.215	pCi/g	SBL0042 / SSUT0076	33 / 33	0.016 - 0.068	0.215	23,100	No	BSL
---	Thorium-228	0.413	0.785	pCi/g	SBL-428 / SSET0103	13 / 13	0.105 - 0.281	0.785	23.4	No	BSL
---	Thorium-230	0.406	0.815	pCi/g	SBL-435 / SSET0111	13 / 13	0.0371 - 0.29	0.815	3.46	No	BSL
---	Thorium-232	0.324	0.553	pCi/g	SBL-435 / SSET0110	13 / 13	0.0202 - 0.138	0.553	3.07	No	BSL
---	Thorium-234	0.59	1.09 J	pCi/g	SBL-435 / SSET0111	4 / 33	0.258 - 2.8	1.09 J	280	No	BSL
---	Tin-113	---	---	pCi/g	---	0 / 13	0.0198 - 0.0643	---	302	No	ND
10028-17-8	Tritium (Hydrogen-3)	0.0321	333	pCi/g	SBL0031 / SSUT0015	9 / 33	0.0237 - 7	333	0.882	Yes	ASL
---	Uranium-235 And 236	0.185	0.185 J	pCi/g	SBL-432 / SSET0107	1 / 13	0.0693 - 0.26	0.185 J	3.95	No	BSL
---	Uranium-235	0.142	0.142 J	pCi/g	SBL-437 / SSET0113	1 / 33	0.1 - 0.32	0.142 J	3.95	No	BSL
---	Uranium-238	0.342	0.7	pCi/g	SBL-426 / SSET0101	13 / 13	0.0727 - 0.19	0.7	0.7	No	= SV
---	Yttrium-88	---	---	pCi/g	---	0 / 13	0.0154 - 0.0541	---	0.6	No	ND
---	Zinc-65	---	---	pCi/g	---	0 / 13	0.0378 - 0.131	---	1.25	No	ND
---	Zirconium-95	---	---	pCi/g	---	0 / 13	0.0344 - 0.101	---	4.04	No	ND
120-82-1	1,2,4-Trichlorobenzene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	22	No	ND
541-73-1	1,3-Dichlorobenzene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	---	No	ND, NTX
1074-55-1	1-Methylnaphthalene	---	---	mg/kg	---	0 / 13	0.035 - 0.038	---	---	No	ND, NTX
95-95-4	2,4,5-Trichlorophenol	---	---	mg/kg	---	0 / 33	0.35 - 1	---	6,100	No	ND
118-79-6	2,4,6-Tribromophenol	1.6	3.4	mg/kg	SBL-426 / SSET0101	13 / 13	---	3.4	---	No	NTX
88-06-2	2,4,6-Trichlorophenol	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	44	No	ND
120-83-2	2,4-Dichlorophenol	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	180	No	ND
105-67-9	2,4-Dimethylphenol	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	1,200	No	ND
51-28-5	2,4-Dinitrophenol	---	---	mg/kg	---	0 / 33	0.7 - 1	---	120	No	ND
121-14-2	2,4-Dinitrotoluene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	1.6	No	ND
606-20-2	2,6-Dinitrotoluene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	61	No	ND
91-58-7	2-Chloronaphthalene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	6,300	No	ND
95-57-8	2-Chlorophenol	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	390	No	ND
321-60-8	2-Fluorobiphenyl	0.71	1.6	mg/kg	SBL-428 / SSET0103	13 / 13	---	1.6	---	No	NTX
367-12-4	2-Fluorophenol	0.8	2.7	mg/kg	SBL-436 / SSET0112	13 / 13	---	2.7	---	No	NTX
91-57-6	2-Methylnaphthalene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	310	No	ND
95-48-7	2-Methylphenol (O-Cresol)	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	3,100	No	ND
88-74-4	2-Nitroaniline	---	---	mg/kg	---	0 / 33	0.35 - 1	---	610	No	ND
88-75-5	2-Nitrophenol	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	---	No	ND, NTX
91-94-1	3,3'-Dichlorobenzidine	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	1.1	No	ND
99-09-2	3-Nitroaniline	---	---	mg/kg	---	0 / 33	0.35 - 1	---	---	No	ND, NTX
534-52-1	4,6-Dinitro-2-Methylphenol	---	---	mg/kg	---	0 / 33	0.35 - 1	---	4.9	No	ND
101-55-3	4-Bromophenyl Phenyl Ether	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	---	No	ND, NTX
59-50-7	4-Chloro-3-Methylphenol	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	6,100	No	ND
106-47-8	4-Chloroaniline	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	2.4	No	ND
7005-72-3	4-Chlorophenyl Phenyl Ether	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	---	No	ND, NTX
106-44-5	4-Methylphenol (P-Cresol)	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	310	No	ND
100-01-6	4-Nitroaniline	---	---	mg/kg	---	0 / 33	0.35 - 1	---	24	No	ND
100-02-7	4-Nitrophenol	---	---	mg/kg	---	0 / 33	0.35 - 1	---	---	No	ND, NTX
83-32-9	Acenaphthene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	3,400	No	ND

Table C-3. Eastern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
208-96-8	Acenaphthylene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	---	No	ND, NTX
120-12-7	Anthracene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	17,000	No	ND
92-87-5	Benzidine	---	---	mg/kg	---	0 / 13	1.7 - 1.9	---	0.0005	No	ND
56-55-3	Benzo(A)Anthracene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	0.15	No	ND
50-32-8	Benzo(A)Pyrene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	0.015	No	ND
205-99-2	Benzo(B)Fluoranthene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	0.15	No	ND
191-24-2	Benzo(G,H,I)Perylene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	---	No	ND, NTX
207-08-9	Benzo(K)Fluoranthene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	1.5	No	ND
65-85-0	Benzoic Acid	---	---	mg/kg	---	0 / 13	0.7 - 0.76	---	240,000	No	ND
100-51-6	Benzyl Alcohol	---	---	mg/kg	---	0 / 13	0.35 - 0.38	---	6,100	No	ND
85-68-7	Benzyl Butyl Phthalate	---	0.022	mg/kg	SBL-429 / SSET0104	1 / 33	0.35 - 0.41	0.022	260	No	BSL
111-91-1	Bis(2-Chloroethoxy) Methane	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	180	No	ND
111-44-4	Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	0.21	No	ND
39638-32-9	Bis(2-Chloroisopropyl) Ether	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	---	No	ND, NTX
117-81-7	Bis(2-Ethylhexyl) Phthalate	---	0.056	mg/kg	SBL-432 / SSET0107	8 / 33	0.35 - 0.41	0.056	35	No	BSL
86-74-8	Carbazole	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	---	No	ND, NTX
218-01-9	Chrysene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	15	No	ND
53-70-3	Dibenz(A,H)Anthracene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	0.015	No	ND
132-64-9	Dibenzofuran	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	78	No	ND
84-66-2	Diethyl Phthalate	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	49,000	No	ND
131-11-3	Dimethyl Phthalate	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	---	No	ND, NTX
84-74-2	Di-N-Butyl Phthalate	0.023	0.037	mg/kg	SBL0031 / SSUT0017	2 / 33	0.35 - 0.41	0.037	6,100	No	BSL
117-84-0	Di-N-Octylphthalate	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	---	No	ND, NTX
122-39-4	Diphenylamine	---	---	mg/kg	---	0 / 13	0.35 - 0.38	---	1,500	No	ND
206-44-0	Fluoranthene	---	0.0074	mg/kg	SBL-434 / SSET0109	3 / 33	0.035 - 0.41	0.0074	2,300	No	BSL
86-73-7	Fluorene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	2,300	No	ND
118-74-1	Hexachlorobenzene	0.44	0.44	mg/kg	TRL0047 / SSUT0050	1 / 33	0.35 - 0.41	0.44	0.3	Yes	ASL
87-68-3	Hexachlorobutadiene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	6.2	No	ND
77-47-4	Hexachlorocyclopentadiene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	370	No	ND
67-72-1	Hexachloroethane	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	12	No	ND
193-39-5	Indeno(1,2,3-C,D)Pyrene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	0.15	No	ND
78-59-1	Isophorone	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	510	No	ND
91-20-3	Naphthalene	---	---	mg/kg	---	0 / 33	0.035 - 0.41	---	3.6	No	ND
98-95-3	Nitrobenzene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	4.8	No	ND
62-75-9	N-Nitrosodimethylamine	---	---	mg/kg	---	0 / 13	0.35 - 0.38	---	0.0023	No	ND
621-64-7	N-Nitrosodi-N-Propylamine	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	0.069	No	ND
86-30-6	N-Nitrosodiphenylamine	---	---	mg/kg	---	0 / 20	0.35 - 0.41	---	99	No	ND
87-86-5	Pentachlorophenol	---	---	mg/kg	---	0 / 33	0.35 - 1	---	0.89	No	ND
85-01-8	Phenanthrene	---	0.0076	mg/kg	SBL-428 / SSET0103	1 / 33	0.035 - 0.41	0.0076	---	No	NTX
108-95-2	Phenol	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	18,000	No	ND
129-00-0	Pyrene	---	0.0093	mg/kg	SBL-428 / SSET0103	1 / 33	0.035 - 0.41	0.0093	1,700	No	BSL
110-86-1	Pyridine	---	---	mg/kg	---	0 / 13	0.35 - 0.38	---	78	No	ND
126-73-8	Tributyl Phosphate	---	---	mg/kg	---	0 / 13	0.35 - 0.38	---	54	No	ND
123-73-9	(E)-2-Butenal	---	---	mg/kg	---	0 / 4	0.17 - 0.18	---	0.34	No	ND
71-55-6	1,1,1-Trichloroethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	8,700	No	ND
79-34-5	1,1,2,2-Tetrachloroethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.56	No	ND
79-00-5	1,1,2-Trichloroethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	1.1	No	ND
75-34-3	1,1-Dichloroethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	3.3	No	ND
75-35-4	1,1-Dichloroethene	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	240	No	ND
95-50-1	1,2-Dichlorobenzene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	1,900	No	ND
107-06-2	1,2-Dichloroethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.43	No	ND
78-87-5	1,2-Dichloropropane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.94	No	ND
106-46-7	1,4-Dichlorobenzene	---	---	mg/kg	---	0 / 33	0.35 - 0.41	---	2.4	No	ND
591-78-6	2-Hexanone	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	210	No	ND
75-07-0	Acetaldehyde	---	---	mg/kg	---	0 / 4	0.17 - 0.18	---	10	No	ND
67-64-1	Acetone	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	61,000	No	ND
71-43-2	Benzene	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	1.1	No	ND
75-27-4	Bromodichloromethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.27	No	ND
75-25-2	Bromoform	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	62	No	ND
74-83-9	Bromomethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	7.3	No	ND
123-72-8	Butanal	---	---	mg/kg	---	0 / 4	0.17 - 0.18	---	---	No	ND, NTX

Table C-3. Eastern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
75-15-0	Carbon Disulfide	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	820	No	ND
56-23-5	Carbon Tetrachloride	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.61	No	ND
108-90-7	Chlorobenzene	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	290	No	ND
75-00-3	Chloroethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	15,000	No	ND
67-66-3	Chloroform	0.012	0.012	mg/kg	TRL0048 / SSUT0054	1 / 20	0.011 - 0.012	0.012	0.29	No	BSL
74-87-3	Chloromethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	120	No	ND
10061-01-5	Cis-1,3-Dichloropropene	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	---	No	ND, NTX
124-48-1	Dibromochloromethane	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.68	No	ND
100-41-4	Ethylbenzene	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	5.4	No	ND
50-00-0	Formaldehyde	0.18	0.26	mg/kg	SBL0031 / SSUT0014	2 / 4	0.17 - 0.18	0.26	12,000	No	BSL
66-25-1	Hexanal	---	---	mg/kg	---	0 / 4	0.22 - 0.24	---	---	No	ND, NTX
78-93-3	Methyl Ethyl Ketone (2-Butanone)	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	28,000	No	ND
108-10-1	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	5,300	No	ND
75-09-2	Methylene Chloride	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	11	No	ND
124-19-6	Nonanal	---	---	mg/kg	---	0 / 4	0.33 - 0.36	---	---	No	ND, NTX
124-13-0	Octanal	---	---	mg/kg	---	0 / 4	0.22 - 0.24	---	---	No	ND, NTX
123-38-6	Propanal	---	---	mg/kg	---	0 / 4	0.17 - 0.18	---	80	No	ND
100-42-5	Styrene	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	6,300	No	ND
127-18-4	Tetrachloroethylene (PCE)	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.55	No	ND
108-88-3	Toluene	0.038	0.038	mg/kg	TRL0048 / SSUT0054	1 / 20	0.011 - 0.012	0.038	5,000	No	BSL
540-59-0	Total 1,2-Dichloroethene	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	700	No	ND
10061-02-6	Trans-1,3-Dichloropropene	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	---	No	ND, NTX
79-01-6	Trichloroethylene (TCE)	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.91	No	ND
110-62-3	Pentanal	---	---	mg/kg	---	0 / 4	0.17 - 0.18	---	---	No	ND, NTX
75-01-4	Vinyl Chloride	---	---	mg/kg	---	0 / 20	0.011 - 0.012	---	0.06	No	ND
1330-20-7	Xylenes, Total	0.048	0.048	mg/kg	TRL0048 / SSUT0054	1 / 20	0.011 - 0.012	0.048	630	No	BSL

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

^a Reporting limits not provided.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- = SV - equals screening value
- - not applicable

Table C-4. Eastern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
108-94-1	CYCLOHEXANONE	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	310,000	No	ND
111-71-7	Heptanal	---	---	mg/kg	---	0 / 1	0.22 - 0.22	---	---	No	ND, NTX
---	ALKALINITY, TOTAL (AS CaCO3)	---	---	mg/kg	---	0 / 1	300 - 300	---	---	No	ND, NTX
---	CHLORIDE (AS CL)	11	11	mg/kg	SBL0030 / SSUT0007	1 / 1	0.22 - 0.22	11	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	24	70	mg/kg	SBL0030 / SSUT0007	4 / 4	0.22 - 0.24	70	---	No	NTX
---	NITROGEN, AMMONIA (AS N)	---	---	mg/kg	---	0 / 1	1.7 - 1.7	---	---	No	ND, NTX
---	SULFATE (AS SO4)	21	21	mg/kg	SBL0030 / SSUT0007	1 / 1	1.1 - 1.1	21	---	No	NTX
---	SULFIDE, TOTAL	---	---	mg/kg	---	0 / 1	55 - 55	---	---	No	ND, NTX
---	TOTAL KJELDAHL NITROGEN	190	190	mg/kg	SBL0030 / SSUT0007	1 / 1	10 - 10	190	---	No	NTX
---	TOTAL ORGANIC CARBON	---	---	mg/kg	---	0 / 1	1,000 - 1,000	---	---	No	ND, NTX
7440-36-0	ANTIMONY	---	---	mg/kg	---	0 / 4	12 - 14	---	31	No	ND
7440-38-2	ARSENIC	7.1	9.5	mg/kg	SBL0041 / SSUT0083	4 / 4	2 - 2.3	9.5	0.39	Yes	ASL
7440-39-3	BARIUM	150	230	mg/kg	SBL0041 / SSUT0083	4 / 4	40 - 46.7	230	15,000	No	BSL
7440-41-7	BERYLLIUM	0.39	0.39	mg/kg	SBL0030 / SSUT0007	1 / 4	1 - 1.2	0.39	160	No	BSL
7440-43-9	CADMIUM	---	---	mg/kg	---	0 / 4	1 - 1.2	---	70	No	ND
7440-70-2	CALCIUM	4,260	4,260	mg/kg	SBL0030 / SSUT0007	1 / 1	1,000 - 1,000	4,260	---	No	NTX
18540-29-9	CHROMIUM, HEXAVALENT	---	---	mg/kg	---	0 / 4	0.11 - 0.24	---	0.29	No	ND
7440-47-3	CHROMIUM, TOTAL	97	165	mg/kg	SBL0030 / SSUT0007	4 / 4	2 - 2.3	165	---	No	NTX
7440-48-4	COBALT	23	27	mg/kg	SBL0041 / SSUT0083	4 / 4	10 - 11.7	27	23	Yes	ASL
7440-50-8	COPPER	39.8	50	mg/kg	SBL0041 / SSUT0083	4 / 4	5 - 5.8	50	3,100	No	BSL
7439-89-6	IRON	41,300	41,300	mg/kg	SBL0030 / SSUT0007	1 / 1	20 - 20	41,300	55,000	No	BSL
7439-92-1	LEAD	6.9	8.6	mg/kg	SBL0041 / SSUT0083	4 / 4	0.6 - 0.7	8.6	80	No	BSL
7439-95-4	MAGNESIUM	31,600	31,600	mg/kg	SBL0030 / SSUT0007	1 / 1	1,000 - 1,000	31,600	---	No	NTX
7439-96-5	MANGANESE	629	629	mg/kg	SBL0030 / SSUT0007	1 / 1	3 - 3	629	1,800	No	BSL
7439-97-6	MERCURY	0.12	0.15	mg/kg	SBL0043 / SSUT0086	2 / 4	0.1 - 0.12	0.15	10	No	BSL
7439-98-7	MOLYBDENUM	---	---	mg/kg	---	0 / 4	2 - 46.7	---	390	No	ND
7440-02-0	NICKEL	210	346	mg/kg	SBL0030 / SSUT0007	4 / 4	8 - 9.3	346	1,500	No	BSL
7440-09-7	POTASSIUM	1,260	1,260	mg/kg	SBL0030 / SSUT0007	1 / 1	1,000 - 1,000	1,260	---	No	NTX
7782-49-2	SELENIUM	2.1	2.5	mg/kg	SBL0042 / SSUT0078	3 / 4	1 - 1.2	2.5	390	No	BSL
7440-22-4	SILVER	---	---	mg/kg	---	0 / 4	2 - 2.3	---	390	No	ND
7440-23-5	SODIUM	498	498	mg/kg	SBL0030 / SSUT0007	1 / 1	1,000 - 1,000	498	---	No	NTX
7440-28-0	THALLIUM	---	---	mg/kg	---	0 / 4	2 - 2.3	---	0.78	No	ND
7440-62-2	VANADIUM	65.3	70	mg/kg	SBL0041 / SSUT0083	4 / 4	10 - 11.7	70	390	No	BSL
7440-66-6	ZINC	62.8	86	mg/kg	SBL0041 / SSUT0083	4 / 4	4 - 4.7	86	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 4	0.037 - 0.04	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 4	0.074 - 0.08	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 4	0.037 - 0.04	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 4	0.037 - 0.04	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 4	0.037 - 0.04	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	---	---	mg/kg	---	0 / 4	0.037 - 0.04	---	0.22	No	ND
11096-82-5	PCB-1260 (AROCLOR 1260)	---	---	mg/kg	---	0 / 4	0.037 - 0.04	---	0.22	No	ND
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	---	No	ND, NTX

Table C-4. Eastern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	---	No	ND, NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	---	No	ND, NTX
60-57-1	DIELDRIN	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	0.03	No	ND
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	---	No	ND, NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	---	No	ND, NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 4	0.0019 - 0.002	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 4	0.019 - 0.02	---	310	No	ND
72-54-8	p,p'-DDD	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	2	No	ND
72-55-9	p,p'-DDE	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	1.4	No	ND
50-29-3	p,p'-DDT	---	---	mg/kg	---	0 / 4	0.0037 - 0.004	---	1.7	No	ND
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 4	0.19 - 0.2	---	0.44	No	ND
---	ACTINIUM-228	0.35	0.68	pCi/g	SBL0043 / SSUT0086	4 / 4	0.15 - 0.21	0.68	679	No	BSL
---	ALPHA, GROSS	6.5	7.4	pCi/g	SBL0042 / SSUT0078	3 / 4	5.4 - 7.8	7.4	---	No	NTX
---	BETA, GROSS	8.8	17.6	pCi/g	SBL0043 / SSUT0086	4 / 4	5.5 - 5.6	17.6	---	No	NTX
---	BISMUTH-212	0.43	0.43	pCi/g	SBL0041 / SSUT0083	1 / 3	0.28 - 0.4	0.43	2,800	No	BSL
---	BISMUTH-214	0.436	0.53	pCi/g	SBL0042 / SSUT0078	4 / 4	0.088 - 0.11	0.53	7,950	No	BSL
14762-75-5	CARBON-14	6.7	6.7 J	pCi/g	SBL0030 / SSUT0007	1 / 5	1 - 1.8	6.7 J	0.476	Yes	ASL
---	CESIUM-134	---	---	pCi/g	---	0 / 1	0.038 - 0.038	---	0.163	No	ND
---	CESIUM-137	---	---	pCi/g	---	0 / 4	0.044 - 0.048	---	0.0615	No	ND
---	COBALT-57	---	---	pCi/g	---	0 / 1	0.024 - 0.024	---	8.09	No	ND
---	COBALT-60	---	---	pCi/g	---	0 / 4	0.026 - 0.065	---	0.0389	No	ND
---	LEAD-210	---	---	pCi/g	---	0 / 3	1.1 - 5.7	---	0.335	No	ND
---	LEAD-212	0.496	0.64	pCi/g	SBL0043 / SSUT0086	4 / 4	0.066 - 0.082	0.64	3,550	No	BSL
---	LEAD-214	0.525	0.601	pCi/g	SBL0043 / SSUT0086	4 / 4	0.08 - 0.1	0.601	44,800	No	BSL
---	POTASSIUM-40	10.7	11.3	pCi/g	SBL0042 / SSUT0078	4 / 4	0.47 - 0.66	11.3	0.116	Yes	ASL
---	RADIUM-223	---	---	pCi/g	---	0 / 2	0.78 - 0.95	---	64.6	No	ND
13982-63-3	RADIUM-226	0.34	0.78	pCi/g	SBL0041 / SSUT0083	3/4	0.15 - 0.21	0.78	0.0121	Yes	ASL
10098-97-2	STRONTIUM-90	---	---	pCi/g	---	0 / 4	0.42 - 0.89	---	0.24	No	ND
---	THALLIUM-208	0.179	0.228	pCi/g	SBL0043 / SSUT0086	4 / 4	0.046 - 0.051	0.228	23,100	No	BSL
---	THORIUM-234	---	---	pCi/g	---	0 / 4	0.92 - 2.1	---	280	No	ND
10028-17-8	TRITIUM (HYDROGEN-3)	0.282	1.3	pCi/g	SBL0030 / SSUT0007	3 / 5	0.0293 - 1	1.3	0.882	Yes	ASL
---	URANIUM-235 and 236	0.036	0.036 J	pCi/g	ET-2 / SSET-2-15	1 / 1	0.2 - 0.2	0.036 J	3.95	No	BSL
---	URANIUM-235	---	---	pCi/g	---	0 / 4	0.2 - 0.3	---	3.95	No	ND
---	URANIUM-238	0.45	0.45	pCi/g	ET-2 / SSET-2-15	1 / 1	0.2 - 0.2	0.45	0.696	No	BSL
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.9 - 0.94	---	6,100	No	ND
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	1,200	No	ND

Table C-4. Eastern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 4	0.9 - 0.94	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	390	No	ND
91-57-6	2-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	310	No	ND
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 4	0.9 - 0.94	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 4	0.9 - 0.94	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 4	0.9 - 0.94	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 4	0.9 - 0.94	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 4	0.9 - 0.94	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	17,000	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	1.5	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	35	No	ND
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	15	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	6,100	No	ND
117-84-0	DI-n-OCTYLPHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
206-44-0	FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	2,300	No	ND
86-73-7	FLUORENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	2,300	No	ND
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	12	No	ND

Table C-4. Eastern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	4.8	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.9 - 0.94	---	0.89	No	ND
85-01-8	PHENANTHRENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	---	No	ND, NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	18,000	No	ND
129-00-0	PYRENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	1,700	No	ND
123-73-9	(E)-2-Butenal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	0.34	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.39	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	210	No	ND
75-07-0	ACETALDEHYDE	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	10	No	ND
67-64-1	ACETONE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	61,000	No	ND
71-43-2	BENZENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	7.3	No	ND
123-72-8	Butanal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	---	No	ND, NTX
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	15,000	No	ND
67-66-3	CHLOROFORM	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.29	No	ND
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	5.4	No	ND
50-00-0	FORMALDEHYDE	0.31	0.31	mg/kg	SBL0030 / SSUT0007	1 / 1	0.17 - 0.17	0.31	12,000	No	BSL
66-25-1	HEXANAL	---	---	mg/kg	---	0 / 1	0.22 - 0.22	---	---	No	ND, NTX
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	28,000	No	ND
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	11	No	ND
124-19-6	Nonanal	---	---	mg/kg	---	0 / 1	0.33 - 0.33	---	---	No	ND, NTX
124-13-0	Octanal	---	---	mg/kg	---	0 / 1	0.22 - 0.22	---	---	No	ND, NTX
123-38-6	Propanal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	80	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.91	No	ND
110-62-3	Pentanal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	---	No	ND, NTX
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	0.06	No	ND

Table C-4. Eastern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Eastern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 4	0.0099 - 0.012	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

*Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

ASL - above screening level

BSL - below screening level

CAS - Chemical Abstracts Service

COPC - constituent of potential concern

ID - identification

J - concentration is an estimated value

mg/kg - milligrams per kilogram

ND - not detected

NTX - no toxicity information

pCi/g - picocuries per gram

--- - not applicable

Table C-5. Landfill Unit No. 1, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
122-66-7	1,2-DIPHENYLHYDRAZINE	---	---	mg/kg	---	0 / 9	0.34 - 0.43	---	0.61	No	ND
94-82-6	2,4 DB	---	---	mg/kg	---	0 / 2	1.4 - 1.4	---	490	No	ND
16655-82-6	3-HYDROXYCARBOFURAN	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	---	No	ND, NTX
98-86-2	ACETOPHENONE	---	---	mg/kg	---	0 / 9	0.34 - 0.43	---	7,800	No	ND
116-06-3	ALDICARB (SULFIDE, SULFOXIDE, AND SULFONE)	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	61	No	ND
1646-88-4	ALDICARB SULFONE	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	61	No	ND
834-12-8	AMETRYN	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	550	No	ND
62-53-3	ANILINE (PHENYLAMINE, AMINOBENZENE)	---	---	mg/kg	---	0 / 9	0.34 - 0.43	---	85	No	ND
1610-17-9	ATRATON	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	---	No	ND, NTX
63-25-2	Carbaryl	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	6,100	No	ND
1563-66-2	CARBOFURAN	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	310	No	ND
108-94-1	CYCLOHEXANONE	---	---	mg/kg	---	0 / 4	0.15 - 0.18	---	310,000	No	ND
112-31-2	Decanal	---	---	mg/kg	---	0 / 1	0.36 - 0.36	---	---	No	ND, NTX
6988-21-2	DIOXACARB	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	---	No	ND, NTX
111-71-7	Heptanal	---	---	mg/kg	---	0 / 4	0.2 - 0.24	---	---	No	ND, NTX
2032-65-7	Methiocarb	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	---	No	ND, NTX
16752-77-5	Methomyl	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	1,500	No	ND
2631-37-0	PROMECARB	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	---	No	ND, NTX
1610-18-0	PROMETON	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	920	No	ND
7287-19-6	PROMETRYN	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	240	No	ND
139-40-2	PROPAZINE	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	1,200	No	ND
114-26-1	Propoxur	---	---	mg/kg	---	0 / 2	0.3 - 0.3	---	240	No	ND
26259-45-0	Secbumeton	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	---	No	ND, NTX
93-72-1	SILVEX (2,4,5-TP)	---	---	mg/kg	---	0 / 2	0.059 - 0.06	---	490	No	ND
1014-70-6	SIMETRYN	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	---	No	ND, NTX
5915-41-3	Terbutylazine	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	---	No	ND, NTX
886-50-0	TERBUTRYN	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	61	No	ND
---	ALKALINITY, TOTAL (AS CaCO3)	450	830	mg/kg	SBL0027 / SSLF0071	2 / 3	300 - 300	830	---	No	NTX
---	CHLORIDE (AS CL)	0.78	1.8	mg/kg	SBL0027 / SSLF0071	3 / 3	0.22 - 0.24	1.8	---	No	NTX
---	Nitrate	7.11	7.11 J	mg/kg	SBL-410 / SSLF0201	1 / 1	1.05 - 1.05	7.11 J	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	0.31	72	mg/kg	SBL0047 / SSLF0161	17 / 22	0.2 - 1.31	72	---	No	NTX
---	NITROGEN, AMMONIA (AS N)	3	20	mg/kg	SBL-411 / SSLF0202	10 / 12	1.03 - 1.8	20	---	No	NTX
---	SULFATE (AS SO4)	27	40	mg/kg	SBL0027 / SSLF0071	3 / 3	1.1 - 1.2	40	---	No	NTX
---	SULFIDE, TOTAL	---	---	mg/kg	---	0 / 3	54 - 61	---	---	No	ND, NTX
---	TOTAL KJELDAHL NITROGEN	117	933	mg/kg	SBL-417 / SSLF0209	12 / 12	10 - 64.7	933	---	No	NTX
---	TOTAL ORGANIC CARBON	6,300	18,000	mg/kg	SBL0027 / SSLF0067	2 / 3	1,000 - 1,000	18,000	---	No	NTX
93-76-5	2,4,5-T (TRICHLOROPHOXYACETIC ACID)	---	---	mg/kg	---	0 / 2	0.059 - 0.06	---	610	No	ND
86-50-0	AZINPHOS, METHYL (GUTHION)	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	180	No	ND
35400-43-2	BOLSTAR	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
2921-88-2	CHLORPYRIFOS	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	61	No	ND
56-72-4	COUMAPHOS	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
75-99-0	DALAPON	---	---	mg/kg	---	0 / 2	2.2 - 2.3	---	1,800	No	ND
298-03-3	DEMETON	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
120-36-5	DICHLOROPROP	---	---	mg/kg	---	0 / 2	0.64 - 0.65	---	---	No	ND, NTX
62-73-7	DICHLORVOS	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	1.7	No	ND

Table C-5. Landfill Unit No. 1, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
88-85-7	DINOSEB	---	---	mg/kg	---	0 / 2	0.082 - 0.084	---	61	No	ND
298-04-4	DISULFOTON	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	2.4	No	ND
13194-48-4	ETHOPROP	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
115-90-2	FENSULFOTHION	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
55-38-9	FENTHION	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
94-74-6	MCPA	---	---	mg/kg	---	0 / 2	92 - 93	---	31	No	ND
93-65-2	MCPP	---	---	mg/kg	---	0 / 2	140 - 140	---	61	No	ND
150-50-5	MERPHOS	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	1.8	No	ND
7786-34-7	MEVINPHOS	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
300-76-5	NALED	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	120	No	ND
298-00-0	PARATHION, METHYL	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	15	No	ND
298-02-2	PHORATE	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	12	No	ND
299-84-3	RONNEL	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	3,100	No	ND
122-34-9	SIMAZINE	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	4.1	No	ND
22248-79-9	STIROFOS (TETRACHLORVINPHOS)	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
64772-54-9	TOKUTHION (PROTHIOFOS)	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
327-98-0	TRICHLORONATE	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	---	No	ND, NTX
7440-36-0	ANTIMONY	---	---	mg/kg	---	0 / 23	0.455 - 14.3	---	31	No	ND
7440-38-2	ARSENIC	4.74	140	mg/kg	SBL0047 / SSLF0161	23 / 23	0.38 - 2.4	140	0.39	Yes	ASL
7440-39-3	BARIUM	117	910	mg/kg	SBL0048 / SSLF0166	21 / 23	0.018 - 490	910	15,000	No	BSL
7440-41-7	BERYLLIUM	0.24	0.513	mg/kg	SBL-416 / SSLF0208	12 / 23	0.018 - 12.3	0.513	160	No	BSL
---	BERYLLIUM-7	---	---	pCi/g	---	0 / 9	0.163 - 0.341	---	75.6	No	ND
7440-43-9	CADMIUM	0.35	6	mg/kg	TRL0036 / SSLF0134	3 / 23	0.02 - 12.3	6	70	No	BSL
7440-70-2	CALCIUM	3,510	5,770	mg/kg	SBL0025 / SSLF0056	4 / 4	1,000 - 1,000	5,770	---	No	NTX
18540-29-9	CHROMIUM, HEXAVALENT	0.044	0.093	mg/kg	SBL0047 / SSLF0162	2 / 23	0.11 - 0.506	0.093	0.29	No	BSL
7440-47-3	CHROMIUM, TOTAL	96	200	mg/kg	SBL-416 / SSLF0208	23 / 23	0.051 - 24.5	200	---	No	NTX
7440-48-4	COBALT	12.9	27.5	mg/kg	SBL0027 / SSLF0071	19 / 23	0.056 - 123	27.5	23	Yes	ASL
7440-50-8	COPPER	22.4	2,690	mg/kg	TRL0036 / SSLF0134	23 / 23	0.124 - 61.3	2,690	3100	No	BSL
7439-89-6	IRON	27,500	44,100	mg/kg	SBL-413 / SSLF0204	13 / 13	0.201 - 20	44,100	55,000	No	BSL
7439-92-1	LEAD	4.66	3,640	mg/kg	SBL-417 / SSLF0209	23 / 23	0.119 - 0.71	3,640	80	Yes	ASL
7439-95-4	MAGNESIUM	13,800	31,400	mg/kg	SBL0025 / SSLF0057	4 / 4	1,000 - 1,000	31,400	---	No	NTX
7439-96-5	MANGANESE	564	886	mg/kg	SBL0027 / SSLF0071	13 / 13	0.035 - 3	886	1,800	No	BSL
7439-97-6	MERCURY	0.12	4.5	mg/kg	TRL0038 / SSLF0135	19 / 23	0.002 - 0.12	4.5	10	No	BSL
7439-98-7	MOLYBDENUM	0.229	0.502	mg/kg	SBL-416 / SSLF0208	8 / 23	0.11 - 490	0.502	390	No	BSL
7440-02-0	NICKEL	145	332	mg/kg	SBL0025 / SSLF0057	23 / 23	0.08 - 98	332	1,500	No	BSL
7440-09-7	POTASSIUM	1,020	2,020	mg/kg	SBL0027 / SSLF0071	4 / 4	1,000 - 1,000	2,020	---	No	NTX
7782-49-2	SELENIUM	0.361	13	mg/kg	SBL0050 / SSLF0168	18 / 23	0.255 - 1.2	13	390	No	BSL
7440-22-4	SILVER	0.4	4.8	mg/kg	SBL0048 / SSLF0166	3 / 23	0.11 - 24.5	4.8	390	No	BSL
7440-23-5	SODIUM	459	1,050	mg/kg	SBL0027 / SSLF0071	4 / 4	1,000 - 1,000	1,050	---	No	NTX
7440-28-0	THALLIUM	0.557	4.4	mg/kg	TRL0038 / SSLF0135	8 / 23	0.476 - 2.4	4.4	0.78	Yes	ASL
7440-62-2	VANADIUM	48.8	99.5	mg/kg	TRL0036 / SSLF0137	19 / 23	0.076 - 123	99.5	390	No	BSL
7440-66-6	ZINC	42.5	8,560	mg/kg	TRL0038 / SSLF0135	23 / 23	0.121 - 49	8,560	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 14	0.035 - 0.041	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 14	0.071 - 0.082	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 14	0.035 - 0.041	---	0.14	No	ND

Table C-5. Landfill Unit No. 1, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 14	0.035 - 0.041	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 14	0.035 - 0.041	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	---	---	mg/kg	---	0 / 14	0.035 - 0.041	---	0.22	No	ND
11096-82-5	PCB-1260 (AROCLOR 1260)	0.3	0.3	mg/kg	TRL0038 / SSLF0135	1 / 14	0.035 - 0.041	0.3	0.22	Yes	ASL
94-75-7	2,4-D (DICHLOROPHENOXYACETIC ACID)	---	---	mg/kg	---	0 / 2	0.18 - 0.18	---	690	No	ND
877-09-8	2,4,5,6-TETRACHLORO-META-XYLENE	0.0055	0.025	mg/kg	SBL-410 / SSLF0201	9 / 9	---	0.025	---	No	NTX
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 23	0.00014 - 0.0021	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	0.0058	mg/kg	SBL-412 / SSLF0203	1 / 23	0.00068 - 0.0021	0.0058	0.077	No	BSL
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 23	0.00014 - 0.0021	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	0.0003	0.064	mg/kg	TRL0043 / SSLF0139	7 / 23	0.00068 - 0.0021	0.064	---	No	NTX
1912-24-9	Atrazine	---	---	mg/kg	---	0 / 2	0.095 - 0.47	---	2.1	No	ND
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 23	0.00014 - 0.0021	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 23	0.00027 - 0.0041	---	---	No	ND, NTX
57-74-9	CHLORDANE	---	---	mg/kg	---	0 / 9	0.0017 - 0.011	---	1.6	No	ND
2051-24-3	DECACHLOROBIPHENYL	0.017	0.034	mg/kg	SBL-416 / SSLF0208	9 / 9	---	0.034	---	No	NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 23	0.00014 - 0.0021	---	---	No	ND, NTX
1918-00-9	DICAMBA	---	---	mg/kg	---	0 / 2	0.094 - 0.096	---	1,800	No	ND
60-57-1	DIELDRIN	0.0036	0.018	mg/kg	SBL0027 / SSLF0067	4 / 23	0.00027 - 0.0041	0.018	0.03	No	BSL
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 23	0.00027 - 0.0041	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 23	0.00027 - 0.0041	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	0.00052	mg/kg	SBL-410 / SSLF0201	1 / 23	0.00027 - 0.0041	0.00052	---	No	NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 23	0.00027 - 0.0041	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 23	0.00014 - 0.0021	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	0.00038	0.069	mg/kg	TRL0043 / SSLF0139	7 / 23	0.00068 - 0.0021	0.069	---	No	NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 23	0.00014 - 0.0021	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 23	0.00014 - 0.0021	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 23	0.0014 - 0.021	---	310	No	ND
72-54-8	p,p'-DDD	0.015	0.015	mg/kg	TRL0043 / SSLF0139	1 / 23	0.00027 - 0.0041	0.015	2	No	BSL
72-55-9	p,p'-DDE	0.00042	0.38	mg/kg	TRL0043 / SSLF0139	5 / 23	0.00027 - 0.0041	0.38	1.4	No	BSL
50-29-3	p,p'-DDT	0.0054	0.041	mg/kg	TRL0043 / SSLF0139	9 / 23	0.00027 - 0.0041	0.041	1.7	No	BSL
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 23	0.0068 - 0.21	---	0.44	No	ND
---	ACTINIUM-228	0.247	0.66	pCi/g	SBL0027 / SSLF0071	14 / 14	0.0689 - 0.21	0.66	679	No	BSL
---	ALPHA, GROSS	3.58	10.5	pCi/g	SBL-416 / SSLF0208	12 / 14	2.55 - 7.4	10.5	---	No	NTX
---	AMERICIUM-241	---	---	pCi/g	---	0 / 9	0.042 - 0.134	---	1.8	No	ND
---	ANTIMONY-124	---	---	pCi/g	---	0 / 9	0.0213 - 0.0418	---	1.63	No	ND
---	ANTIMONY-125	---	---	pCi/g	---	0 / 9	0.0445 - 0.0975	---	0.472	No	ND
---	BARIUM-133	---	---	pCi/g	---	0 / 8	0.0229 - 0.0427	---	0.172	No	ND
---	BARIUM-140	---	---	pCi/g	---	0 / 9	0.127 - 0.293	---	87.3	No	ND
---	BETA, GROSS	7	18.1	pCi/g	SBL0027 / SSLF0071	14 / 14	4.86 - 6.28	18.1	---	No	NTX
---	BISMUTH-212	0	0.516	pCi/g	SBL-416 / SSLF0208	9 / 14	0.135 - 0.43	0.516	2,800	No	BSL
---	BISMUTH-214	0.251	0.502	pCi/g	SBL0025 / SSLF0056	14 / 14	0.0374 - 0.11	0.502	7,950	No	BSL
14762-75-5	CARBON-14	1.84	4.74	pCi/g	SBL-417 / SSLF0209	2 / 14	0.84 - 11	4.74	0.476	Yes	ASL
---	CERIUM-139	---	---	pCi/g	---	0 / 9	0.0161 - 0.029	---	12.8	No	ND
---	CERIUM-141	---	---	pCi/g	---	0 / 9	0.0369 - 0.0595	---	109	No	ND
---	CERIUM-144	---	---	pCi/g	---	0 / 9	0.111 - 0.184	---	11.6	No	ND

Table C-5. Landfill Unit No. 1, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion	
---	CESIUM-134	---	---	pCi/g	---	0 / 9	0.0179 - 0.0366	---	0.163	No	ND	
---	CESIUM-137	0.039	0.0764	J	pCi/g	SBL-415 / SSLF0207	2 / 12	0.0248 - 0.054	0.0764 J	0.0615	Yes	ASL
---	CHROMIUM-51	---	---	pCi/g	---	0 / 9	0.189 - 0.375	---	239	No	ND	
---	COBALT-56	---	---	pCi/g	---	0 / 9	0.0201 - 0.0462	---	0.651	No	ND	
---	COBALT-57	---	---	pCi/g	---	0 / 9	0.0153 - 0.0229	---	8.09	No	ND	
---	COBALT-58	---	---	pCi/g	---	0 / 9	0.0194 - 0.0468	---	2.77	No	ND	
---	COBALT-60	---	---	pCi/g	---	0 / 14	0.0183 - 0.072	---	0.0389	No	ND	
---	EUROPIUM-155	---	---	pCi/g	---	0 / 9	0.0628 - 0.0998	---	3.63	No	ND	
---	EUROPIUM-152; ISOTOPE	---	---	pCi/g	---	0 / 9	0.051 - 0.0941	---	0.0406	No	ND	
---	EUROPIUM-154; ISOTOPE	---	---	pCi/g	---	0 / 9	0.0573 - 0.141	---	0.0479	No	ND	
---	IRIDIUM-192	---	---	pCi/g	---	0 / 9	0.0176 - 0.0338	---	3.15	No	ND	
---	IRON-59	---	---	pCi/g	---	0 / 9	0.0427 - 0.0972	---	3.49	No	ND	
---	LEAD-210	0.698	0.803	J	pCi/g	SBL-410 / SSLF0201	2 / 14	0.354 - 8.7	0.803 J	0.335	Yes	ASL
---	LEAD-212	0.292	0.678	pCi/g	SBL0027 / SSLF0071	14 / 14	0.0361 - 0.094	0.678	3,550	No	BSL	
---	LEAD-214	0.311	0.689	pCi/g	SBL0027 / SSLF0071	14 / 14	0.036 - 0.12	0.689	44,800	No	BSL	
---	MANGANESE-54	---	---	pCi/g	---	0 / 9	0.0201 - 0.0444	---	0.726	No	ND	
---	MERCURY-203	---	---	pCi/g	---	0 / 8	0.0216 - 0.0376	---	18.2	No	ND	
---	NEPTUNIUM-239	---	---	pCi/g	---	0 / 9	0.113 - 0.173	---	626	No	ND	
---	NIوبيUM-94	---	---	pCi/g	---	0 / 8	0.017 - 0.0376	---	0.016	No	ND	
---	NIوبيUM-95	---	---	pCi/g	---	0 / 9	0.0231 - 0.0549	---	7.1	No	ND	
---	POTASSIUM-40	6.12	13.6		pCi/g	SBL-411 / SSLF0202	14 / 14	0.143 - 0.62	13.6	0.116	Yes	ASL
---	PROMETHIUM-144	---	---	pCi/g	---	0 / 9	0.0184 - 0.0392	---	0.347	No	ND	
---	PROMETHIUM-146	---	---	pCi/g	---	0 / 8	0.0219 - 0.0455	---	0.134	No	ND	
---	RADIUM-223	---	---	pCi/g	---	0 / 1	0.44 - 0.44	---	64.6	No	ND	
13982-63-3	RADIUM-226	0.15	0.84		pCi/g	TRL0036 / SSLF0134	14 / 14	0.0374 - 0.24	0.84	0.0121	Yes	ASL
---	RADIUM-228	0.247	0.494		pCi/g	SBL-415 / SSLF0206	9 / 9	0.0689 - 0.14	0.494	0.0292	Yes	ASL
---	RUTHENIUM-106	---	---	pCi/g	---	0 / 9	0.153 - 0.36	---	2.29	No	ND	
---	SODIUM-22	---	---	pCi/g	---	0 / 9	0.0205 - 0.0498	---	0.0902	No	ND	
10098-97-2	STRONTIUM-90	0.31	0.31		pCi/g	TRL0036 / SSLF0134	1 / 14	0.21 - 0.77	0.31	0.24	Yes	ASL
---	THALLIUM-208	0.113	0.222	pCi/g	SBL0025 / SSLF0056	14 / 14	0.0163 - 0.051	0.222	23,100	No	BSL	
---	THORIUM-228	0.307	0.63	pCi/g	SBL-417 / SSLF0209	9 / 9	0.0939 - 0.249	0.63	23	No	BSL	
---	THORIUM-230	0.268	0.496	pCi/g	SBL-415 / SSLF0207	9 / 9	0.0509 - 0.128	0.496	3.46	No	BSL	
---	THORIUM-232	0.192	0.435	pCi/g	SBL-413 / SSLF0204	9 / 9	0.0255 - 0.113	0.435	3.07	No	BSL	
---	THORIUM-234	0.829	1.02	J	pCi/g	SBL-415 / SSLF0207	3 / 14	0.4 - 1.4	1.02 J	No	BSL	
---	TIN-113	---	---	pCi/g	---	0 / 9	0.0228 - 0.0456	---	302	No	ND	
10028-17-8	TRITIUM (HYDROGEN-3)	0.0383	0.0383	pCi/g	TRL0036 / SSLF0134	1 / 14	0.035 - 9.79	0.0383	0.882	No	BSL	
---	URANIUM-235 and 236	0.0224	0.0526	J	pCi/g	SBL-416 / SSLF0208	3 / 9	0.0224 - 0.219	0.0526 J	No	BSL	
---	URANIUM-235	---	---	pCi/g	---	0 / 14	0.12 - 0.25	---	3.95	No	ND	
---	URANIUM-238	0.305	0.789		pCi/g	SBL-411 / SSLF0202	9 / 9	0.0518 - 0.153	0.789	0.696	Yes	ASL
---	YTTRIUM-88	---	---	pCi/g	---	0 / 8	0.0185 - 0.0433	---	0.591	No	ND	
---	ZINC-65	---	---	pCi/g	---	0 / 9	0.0394 - 0.097	---	1.25	No	ND	
---	ZIRCONIUM-95	---	---	pCi/g	---	0 / 9	0.0366 - 0.0831	---	4.04	No	ND	
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	22	No	ND	
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	---	No	ND, NTX	
1074-55-1	1-METHYLNAPHTHALENE	0.0064	0.0064	mg/kg	SBL-415 / SSLF0206	1 / 9	0.034 - 0.043	0.0064	---	No	NTX	
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.99	---	6,100	No	ND	
118-79-6	2,4,6-TRIBROMOPHENOL	1.8	3.4	mg/kg	SBL-416 / SSLF0208	9 / 9	---	3.4	---	No	NTX	
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	44	No	ND	
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	180	No	ND	
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	1,200	No	ND	
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 23	0.68 - 0.99	---	120	No	ND	

Table C-5. Landfill Unit No. 1, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	390	No	ND
321-60-8	2-FLUOROBIPHENYL	0.83	1.6	mg/kg	SBL-416 / SSLF0208	9 / 9	--- ^a	1.6	---	No	NTX
367-12-4	2-FLUOROPHENOL	1.2	2.8	mg/kg	SBL-416 / SSLF0208	9 / 9	--- ^a	2.8	---	No	NTX
91-57-6	2-METHYLNAPHTHALENE	---	0.0053	mg/kg	SBL-415 / SSLF0206	1 / 23	0.034 - 0.41	0.0053	310	No	BSL
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 23	0.34 - 0.99	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 23	0.34 - 0.99	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.99	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 23	0.34 - 0.99	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.99	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	17,000	No	ND
92-87-5	BENZIDINE	---	---	mg/kg	---	0 / 9	1.7 - 2.2	---	0.0005	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	0.022	0.022	mg/kg	SBL0025 / SSLF0056	1 / 23	0.034 - 0.41	0.022	0.015	Yes	ASL
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	1.5	No	ND
65-85-0	BENZOIC ACID	---	---	mg/kg	---	0 / 9	0.68 - 0.86	---	240,000	No	ND
100-51-6	BENZYL ALCOHOL	---	---	mg/kg	---	0 / 9	0.34 - 0.43	---	6,100	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	35	No	ND
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	15	No	ND
333-41-5	DIAZINON	---	---	mg/kg	---	0 / 2	0.1 - 0.59	---	43	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	0.022	0.33	mg/kg	SBL0025 / SSLF0056	5 / 23	0.34 - 0.43	0.33	6,100	No	BSL
117-84-0	DI-n-OCTYLPHTHALATE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	---	No	ND, NTX
122-39-4	DIPHENYLAMINE	---	---	mg/kg	---	0 / 9	0.34 - 0.43	---	1,500	No	ND
206-44-0	FLUORANTHENE	---	0.012	mg/kg	SBL-415 / SSLF0206	2 / 23	0.034 - 0.41	0.012	2,300	No	BSL
86-73-7	FLUORENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	2,300	No	ND
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	0.15	No	ND

Table C-5. Landfill Unit No. 1, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 23	0.034 - 0.41	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	4.8	No	ND
62-75-9	N-NITROSODIMETHYLAMINE	---	---	mg/kg	---	0 / 9	0.34 - 0.43	---	0.0023	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 14	0.35 - 0.41	---	99	No	ND
87-86-5	PENTACHLOROPHENOL		2 J	mg/kg	SBL-415 / SSLF0206	1 / 23	0.34 - 0.99	2 J	0.89	Yes	ASL
85-01-8	PHENANTHRENE	---	0.041	mg/kg	SBL-415 / SSLF0206	3 / 23	0.034 - 0.41	0.041	---	No	NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	18,000	No	ND
129-00-0	PYRENE	---	0.031	mg/kg	SBL-415 / SSLF0206	1 / 23	0.034 - 0.41	0.031	1,700	No	BSL
110-86-1	PYRIDINE	---	---	mg/kg	---	0 / 9	0.34 - 0.43	---	78	No	ND
126-73-8	TRIBUTYL PHOSPHATE	0.021	0.023	mg/kg	SBL-414 / SSLF0205	2 / 9	0.34 - 0.43	0.023	54	No	BSL
123-73-9	(E)-2-Butenal	---	---	mg/kg	---	0 / 4	0.15 - 0.18	---	0.34	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 23	0.34 - 0.43	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	210	No	ND
75-07-0	ACETALDEHYDE	---	---	mg/kg	---	0 / 4	0.15 - 0.18	---	10	No	ND
67-64-1	ACETONE	0.004	0.004	mg/kg	SBL0027 / SSLF0071	1 / 14	0.011 - 0.012	0.004	61,000	No	BSL
71-43-2	BENZENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	7.3	No	ND
123-72-8	Butanal	0.19	0.35	mg/kg	SBL0027 / SSLF0067	4 / 4	0.15 - 0.18	0.35	---	No	NTX
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	15,000	No	ND
67-66-3	CHLOROFORM	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.29	No	ND
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	5.4	No	ND
50-00-0	FORMALDEHYDE	0.19	0.39	mg/kg	SBL0025 / SSLF0057	3 / 4	0.15 - 0.18	0.39	12,000	No	BSL
66-25-1	HEXANAL	0.84	1.5	mg/kg	SBL0025 / SSLF0057	4 / 4	0.2 - 0.24	1.5	---	No	NTX
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	28,000	No	ND
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	11	No	ND
124-19-6	Nonanal	0.37	0.37	mg/kg	SBL0027 / SSLF0067	1 / 4	0.3 - 0.36	0.37	---	No	NTX
124-13-0	Octanal	0.26	0.26	mg/kg	SBL0027 / SSLF0071	1 / 4	0.2 - 0.24	0.26	---	No	NTX
123-38-6	Propanal	---	---	mg/kg	---	0 / 4	0.15 - 0.18	---	80	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.91	No	ND

Table C-5. Landfill Unit No. 1, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
110-62-3	Pentanal	---	---	mg/kg	---	0 / 4	0.15 - 0.18	---	---	No	ND, NTX
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 14	0.011 - 0.012	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

³ Reporting limits not provided.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

ASL - above screening level

BSL - below screening level

CAS - Chemical Abstracts Service

COPC - constituent of potential concern

ID - identification

J - concentration is an estimated value

mg/kg - milligrams per kilogram

ND - not detected

NTX - no toxicity information

pCi/g - picocuries per gram

--- - not applicable

Table C-6. Landfill Unit No. 1, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
108-94-1	CYCLOHEXANONE	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	310,000	No	ND
111-71-7	Heptanal	---	---	mg/kg	---	0 / 1	0.22 - 0.22	---	---	No	ND, NTX
---	Nitrite, Nitrate-Nonspecific	9.3	34	mg/kg	SBL0050 / SSLF0167	4 / 4	0.24 - 0.25	34	---	No	NTX
7440-36-0	ANTIMONY	---	---	mg/kg	---	0 / 4	12 - 14.9	---	31	No	ND
7440-38-2	ARSENIC	5.3	8.9	mg/kg	SBL0050 / SSLF0167	4 / 4	2 - 2.5	8.9	0.39	Yes	ASL
7440-39-3	BARIUM	177	210	mg/kg	SBL0050 / SSLF0167	4 / 4	40 - 50.2	210	15,000	No	BSL
7440-41-7	BERYLLIUM	0.37	0.37	mg/kg	SBL0025 / SSLF0062	1 / 4	1 - 1.3	0.37	160	No	BSL
7440-43-9	CADMIUM	---	---	mg/kg	---	0 / 4	1 - 1.3	---	70	No	ND
7440-70-2	CALCIUM	2,530	2,530	mg/kg	SBL0025 / SSLF0062	1 / 1	1,000 - 1,000	2,530	---	No	NTX
18540-29-9	CHROMIUM, HEXAVALENT	---	---	mg/kg	---	0 / 4	0.12 - 0.25	---	0.29	No	ND
7440-47-3	CHROMIUM, TOTAL	80	120	mg/kg	SBL0050 / SSLF0167	4 / 4	2 - 2.5	120	---	No	NTX
7440-48-4	COBALT	16.5	24	mg/kg	SBL0050 / SSLF0167	4 / 4	10 - 12.5	24	23	Yes	ASL
7440-50-8	COPPER	34	53	mg/kg	SBL0050 / SSLF0167	6 / 6	0.31 - 6.3	53	3,100	No	BSL
7439-89-6	IRON	34,800	34,800	mg/kg	SBL0025 / SSLF0062	1 / 1	20 - 20	34,800	55,000	No	BSL
7439-92-1	LEAD	7.7	9.2	mg/kg	SBL0048 / SSLF0165	4 / 4	0.6 - 0.75	9.2	80	No	BSL
7439-95-4	MAGNESIUM	16,200	16,200	mg/kg	SBL0025 / SSLF0062	1 / 1	1,000 - 1,000	16,200	---	No	NTX
7439-96-5	MANGANESE	212	212	mg/kg	SBL0025 / SSLF0062	1 / 1	3 - 3	212	1,800	No	BSL
7439-97-6	MERCURY	0.14	0.16	mg/kg	SBL0050 / SSLF0167	2 / 4	0.1 - 0.13	0.16	10	No	BSL
7439-98-7	MOLYBDENUM	---	---	mg/kg	---	0 / 4	2 - 50.2	---	390	No	ND
7440-02-0	NICKEL	150	240	mg/kg	SBL0050 / SSLF0167	4 / 4	8 - 10	240	1,500	No	BSL
7440-09-7	POTASSIUM	974	974	mg/kg	SBL0025 / SSLF0062	1 / 1	1,000 - 1,000	974	---	No	NTX
7782-49-2	SELENIUM	2.5	3.1	mg/kg	SBL0050 / SSLF0167	3 / 6	0.63 - 1.2	3.1	390	No	BSL
7440-22-4	SILVER	---	---	mg/kg	---	0 / 4	2 - 2.5	---	390	No	ND
7440-23-5	SODIUM	568	568	mg/kg	SBL0025 / SSLF0062	1 / 1	1,000 - 1,000	568	---	No	NTX
7440-28-0	THALLIUM	---	---	mg/kg	---	0 / 4	2 - 2.5	---	0.78	No	ND
7440-62-2	VANADIUM	60	78	mg/kg	SBL0050 / SSLF0167	4 / 4	10 - 12.5	78	390	No	BSL
7440-66-6	ZINC	54.8	92	mg/kg	SBL0050 / SSLF0167	4 / 4	4 - 5	92	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 4	0.041 - 0.042	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 4	0.081 - 0.083	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 4	0.041 - 0.042	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 4	0.041 - 0.042	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 4	0.041 - 0.042	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	---	---	mg/kg	---	0 / 4	0.041 - 0.042	---	0.22	No	ND
11096-82-5	PCB-1260 (AROCLOR 1260)	---	---	mg/kg	---	0 / 4	0.041 - 0.042	---	0.22	No	ND
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	---	No	ND, NTX
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	---	No	ND, NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	---	No	ND, NTX
60-57-1	DIELDRIN	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	0.03	No	ND
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	---	No	ND, NTX

Table C-6. Landfill Unit No. 1, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	---	No	ND, NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 4	0.002 - 0.0021	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 4	0.02 - 0.021	---	310	No	ND
72-54-8	p,p'-DDD	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	2	No	ND
72-55-9	p,p'-DDE	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	1.4	No	ND
50-29-3	p,p'-DDT	---	---	mg/kg	---	0 / 4	0.0041 - 0.0042	---	1.7	No	ND
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 4	0.2 - 0.21	---	0.44	No	ND
---	ACTINIUM-228	0.61	0.61	pCi/g	SBL0025 / SSLF0062	1 / 1	0.22 - 0.22	0.61	679	No	BSL
---	ALPHA, GROSS	7.7	7.7	pCi/g	SBL0025 / SSLF0062	1 / 1	5.9 - 5.9	7.7	---	No	NTX
---	BETA, GROSS	13.6	13.6	pCi/g	SBL0025 / SSLF0062	1 / 1	5.4 - 5.4	13.6	---	No	NTX
---	BISMUTH-212	---	---	pCi/g	---	0 / 1	0.45 - 0.45	---	2,800	No	ND
---	BISMUTH-214	0.67	0.67	pCi/g	SBL0025 / SSLF0062	1 / 1	0.11 - 0.11	0.67	7,950	No	BSL
14762-75-5	CARBON-14	1.02	2.5	pCi/g	SBL0025 / SSLF0062	2 / 3	1 - 1.3	2.5	0.476	Yes	ASL
---	CESIUM-137	---	---	pCi/g	---	0 / 1	0.061 - 0.061	---	0.0615	No	ND
---	COBALT-60	---	---	pCi/g	---	0 / 1	0.079 - 0.079	---	0.0389	No	ND
---	LEAD-210	---	---	pCi/g	---	0 / 1	1.3 - 1.3	---	0.335	No	ND
---	LEAD-212	0.69	0.69	pCi/g	SBL0025 / SSLF0062	1 / 1	0.11 - 0.11	0.69	3,550	No	BSL
---	LEAD-214	0.77	0.77	pCi/g	SBL0025 / SSLF0062	1 / 1	0.12 - 0.12	0.77	44,800	No	BSL
---	POTASSIUM-40	13.1	13.1	pCi/g	SBL0025 / SSLF0062	1 / 1	0.58 - 0.58	13.1	0.116	Yes	ASL
13982-63-3	RADIUM-226	0.37	0.37	pCi/g	SBL0025 / SSLF0062	1 / 1	0.19 - 0.19	0.37	0.0121	Yes	ASL
10098-97-2	STRONTIUM-90	---	---	pCi/g	---	0 / 1	0.72 - 0.72	---	0.24	No	ND
---	THALLIUM-208	0.256	0.256	pCi/g	SBL0025 / SSLF0062	1 / 1	0.055 - 0.055	0.256	23,100	No	BSL
---	THORIUM-234	---	---	pCi/g	---	0 / 1	1.1 - 1.1	---	280	No	ND
10028-17-8	TRITIUM (HYDROGEN-3)	---	---	pCi/g	---	0 / 1	0.0366 - 0.0366	---	0.882	No	ND
---	URANIUM-235 and 236	---	---	pCi/g	---	0 / 2	0.2 - 0.2	---	3.95	No	ND
---	URANIUM-235	---	---	pCi/g	---	0 / 1	0.26 - 0.26	---	3.95	No	ND
---	URANIUM-238	0.44	0.49	pCi/g	LF1-2 / SSLF1-2-20	2 / 2	0.2 - 0.2	0.49	0.696	No	BSL
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.97 - 1	---	6,100	No	ND
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 4	0.97 - 1	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	390	No	ND
91-57-6	2-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	310	No	ND
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 4	0.97 - 1	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX

Table C-6. Landfill Unit No. 1, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 4	0.97 - 1	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 4	0.97 - 1	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 4	0.97 - 1	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 4	0.97 - 1	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	17,000	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	1.5	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	35	No	ND
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	15	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	0.38	0.38	mg/kg	SBL0025 / SSLF0062	1 / 4	0.4 - 0.41	0.38	6,100	No	BSL
117-84-0	DI-n-OCTYLPHTHALATE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX
206-44-0	FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	2,300	No	ND
86-73-7	FLUORENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	2,300	No	ND
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	4.8	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.97 - 1	---	0.89	No	ND
85-01-8	PHENANTHRENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	---	No	ND, NTX

Table C-6. Landfill Unit No. 1, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
108-95-2	PHENOL	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	18,000	No	ND
129-00-0	PYRENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	1,700	No	ND
123-73-9	(E)-2-Butenal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	0.34	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.4 - 0.41	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	210	No	ND
75-07-0	ACETALDEHYDE	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	10	No	ND
67-64-1	ACETONE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	61,000	No	ND
71-43-2	BENZENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	7.3	No	ND
123-72-8	Butanal	0.22	0.22	mg/kg	SBL0025 / SSLF0062	1 / 1	0.17 - 0.17	0.22	---	No	NTX
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	15,000	No	ND
67-66-3	CHLOROFORM	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.29	No	ND
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	5.4	No	ND
50-00-0	FORMALDEHYDE	0.21	0.21	mg/kg	SBL0025 / SSLF0062	1 / 1	0.17 - 0.17	0.21	12,000	No	BSL
66-25-1	HEXANAL	1.1	1.1	mg/kg	SBL0025 / SSLF0062	1 / 1	0.22 - 0.22	1.1	---	No	NTX
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	28,000	No	ND
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	11	No	ND
124-19-6	Nonanal	---	---	mg/kg	---	0 / 1	0.33 - 0.33	---	---	No	ND, NTX
124-13-0	Octanal	---	---	mg/kg	---	0 / 1	0.22 - 0.22	---	---	No	ND, NTX
123-38-6	Propanal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	80	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.91	No	ND
110-62-3	Pentanal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	---	No	ND, NTX
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	0.06	No	ND

Table C-6. Landfill Unit No. 1, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 1

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 4	0.012 - 0.013	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

ASL - above screening level

BSL - below screening level

CAS - Chemical Abstracts Service

COPC - constituent of potential concern

ID - identification

mg/kg - milligrams per kilogram

ND - not detected

NTX - no toxicity information

pCi/g - picocuries per gram

--- - not applicable

Table C-7. Landfill Unit No. 2, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
122-66-7	1,2-DIPHENYLHYDRAZINE	---	---	mg/kg	---	0 / 9	0.34 - 0.37	---	0.61	No	ND
94-82-6	2,4 DB	---	---	mg/kg	---	0 / 3	1.4 - 1.4	---	490	No	ND
16655-82-6	3-HYDROXYCARBOFURAN	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	---	No	ND, NTX
98-86-2	ACETOPHENONE	---	---	mg/kg	---	0 / 9	0.34 - 0.37	---	7,800	No	ND
116-06-3	ALDICARB (SULFIDE, SULFOXIDE, AND SULFONE)	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	61	No	ND
1646-88-4	ALDICARB SULFONE	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	61	No	ND
834-12-8	AMETRYN	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	550	No	ND
62-53-3	ANILINE (PHENYLAMINE, AMINOBENZENE)	---	---	mg/kg	---	0 / 9	0.34 - 0.37	---	85	No	ND
1610-17-9	ATRATON	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	---	No	ND, NTX
63-25-2	Carbaryl	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	6,100	No	ND
1563-66-2	CARBOFURAN	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	310	No	ND
108-94-1	CYCLOHEXANONE	---	---	mg/kg	---	0 / 7	0.14 - 0.18	---	310,000	No	ND
112-31-2	Decanal	---	---	mg/kg	---	0 / 2	0.28 - 0.36	---	---	No	ND, NTX
6988-21-2	DIOXACARB	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	---	No	ND, NTX
111-71-7	Heptanal	---	---	mg/kg	---	0 / 6	0.18 - 0.24	---	---	No	ND, NTX
2032-65-7	Methiocarb	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	---	No	ND, NTX
16752-77-5	Methomyl	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	1,500	No	ND
2631-37-0	PROMECCARB	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	---	No	ND, NTX
1610-18-0	PROMETON	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	920	No	ND
7287-19-6	PROMETRYN	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	240	No	ND
139-40-2	PROPАЗINE	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	1,200	No	ND
114-26-1	Propoxur	---	---	mg/kg	---	0 / 3	0.29 - 0.3	---	240	No	ND
26259-45-0	Secbumeton	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	---	No	ND, NTX
93-72-1	SILVEX (2,4,5-TP)	---	---	mg/kg	---	0 / 3	0.057 - 0.059	---	490	No	ND
1014-70-6	SIMETRYN	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	---	No	ND, NTX
5915-41-3	Terbutylazine	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	---	No	ND, NTX
886-50-0	TERBUTRYN	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	61	No	ND
---	ALKALINITY, TOTAL (AS CaCO3)	320	1,800	mg/kg	SBL0029 / SSLF0103	2 / 3	300 - 300	1,800	---	No	NTX
---	CHLORIDE (AS CL)	0.52	9.3	mg/kg	SBL0029 / SSLF0103	3 / 3	0.22 - 0.24	9.3	---	No	NTX
---	HARDNESS (AS CaCO3)	2,300	2,300 J	mg/kg	TRL0013 / SSLF0122	1 / 1	300 - 300	2,300 J	---	No	NTX
---	Nitrate	1.26	2.94 J	mg/kg	SBL-423 / SSLF0215	4 / 5	1 - 1.05	2.94 J	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	0.3	91	mg/kg	SBL0028 / SSLF0082	14 / 17	0.2 - 1.12	91	---	No	NTX
---	NITROGEN, AMMONIA (AS N)	9.79	21.7	mg/kg	SBL-421 / SSLF0213	8 / 12	1.01 - 1.8	21.7	---	No	NTX
---	NITROGEN, NITRATE-NITRITE (AS N)	1,100	1,100	mg/kg	TRL0013 / SSLF0122	1 / 1	10 - 10	1,100	---	No	NTX
---	SULFATE (AS SO4)	1.3	1,400	mg/kg	SBL0029 / SSLF0103	3 / 3	1.1 - 1.2	1,400	---	No	NTX
---	SULFIDE, TOTAL	---	---	mg/kg	---	0 / 3	55 - 60	---	---	No	ND, NTX
---	TOTAL KJELDAHL NITROGEN	490	1,130	mg/kg	SBL-421 / SSLF0213	11 / 11	10 - 111	1,130	---	No	NTX
---	TOTAL ORGANIC CARBON	3,900	28,000	mg/kg	TRL0013 / SSLF0122	4 / 4	1,000 - 1,000	28,000	---	No	NTX
93-76-5	2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	---	---	mg/kg	---	0 / 3	0.057 - 0.059	---	610	No	ND
86-50-0	AZINPHOS, METHYL (GUTHION)	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	180	No	ND
35400-43-2	BOLSTAR	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
2921-88-2	CHLORPYRIFOS	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	61	No	ND
56-72-4	COUMAPHOS	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
75-99-0	DALAPON	---	---	mg/kg	---	0 / 3	2.2 - 2.2	---	1,800	No	ND
298-03-3	DEMETON	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
120-36-5	DICHLOROPROP	---	---	mg/kg	---	0 / 3	0.62 - 0.64	---	---	No	ND, NTX
62-73-7	DICHLORVOS	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	1.7	No	ND
88-85-7	DINOSEB	---	---	mg/kg	---	0 / 3	0.08 - 0.083	---	61	No	ND
298-04-4	DISULFOTON	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	2.4	No	ND
13194-48-4	ETHOPROP	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX

Table C-7. Landfill Unit No. 2, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
115-90-2	FENSULFOTHION	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
55-38-9	FENTHION	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
94-74-6	MCPA	---	---	mg/kg	---	0 / 3	89 - 92	---	31	No	ND
93-65-2	MCPPP	---	---	mg/kg	---	0 / 3	140 - 140	---	61	No	ND
150-50-5	MERPHOS	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	1.8	No	ND
7786-34-7	MEVINPHOS	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
300-76-5	NALED	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	120	No	ND
298-00-0	PARATHION, METHYL	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	15	No	ND
298-02-2	PHORATE	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	12	No	ND
299-84-3	RONNEL	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	3,100	No	ND
122-34-9	SIMAZINE	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	4.1	No	ND
22248-79-9	STIROFOS (TETRACHLORVINPHOS)	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
64772-54-9	TOKUTHION (PROTHIOFOS)	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
327-98-0	TRICHLORONATE	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	---	No	ND, NTX
7440-36-0	ANTIMONY	0.46	2.4	mg/kg	SBL0033 / SSLF0105	3 / 23	0.45 - 72	2.4	31	No	BSL
7440-38-2	ARSENIC	4.3	83.2	mg/kg	TRL0013 / SSLF0122	23 / 23	0.376 - 2.5	83.2	0.39	Yes	ASL
7440-39-3	BARIUM	110	690	mg/kg	SBL0033 / SSLF0105	22 / 23	0.018 - 450	690	15,000	No	BSL
7440-41-7	BERYLLIUM	0.28	0.529	mg/kg	SBL-418 / SSLF0210	12 / 23	0.018 - 11.2	0.529	160	No	BSL
---	BERYLLIUM-7	---	---	pCi/g	---	0 / 8	0.135 - 0.282	---	75.6	No	ND
7440-43-9	CADMIUM	0.053	6.7	mg/kg	SBL0033 / SSLF0105	10 / 23	0.02 - 11.2	6.7	70	No	BSL
7440-70-2	CALCIUM	3,630	48,600	mg/kg	TRL0013 / SSLF0122	8 / 8	1,000 - 1,000	48,600	---	No	NTX
18540-29-9	CHROMIUM, HEXAVALENT	0.11	0.11	mg/kg	SBL0028 / SSLF0079	1 / 22	0.1 - 1.05	0.11	0.29	No	BSL
7440-47-3	CHROMIUM, TOTAL	82.3	179	mg/kg	SBL0033 / SSLF0110	23 / 23	0.05 - 22.5	179	---	No	NTX
7440-48-4	COBALT	12	28.5	mg/kg	SBL0033 / SSLF0105	22 / 23	0.055 - 112	28.5	23	Yes	ASL
7440-50-8	COPPER	26.6	4,300	mg/kg	SBL0045 / SSLF0158	23 / 23	0.123 - 56.2	4,300	3,100	Yes	ASL
7439-89-6	IRON	29,000	105,000	mg/kg	SBL0029 / SSLF0103	16 / 16	0.199 - 20	105,000	55,000	Yes	ASL
7439-92-1	LEAD	8	729	mg/kg	SBL0033 / SSLF0105	23 / 23	0.118 - 18	729	80	Yes	ASL
7439-95-4	MAGNESIUM	12,700	30,500	mg/kg	SBL0033 / SSLF0110	8 / 8	1,000 - 1,000	30,500	---	No	NTX
7439-96-5	MANGANESE	513	1,130	mg/kg	SBL0029 / SSLF0103	16 / 16	0.034 - 3	1,130	1,800	No	BSL
7439-97-6	MERCURY	0.14	1.7	mg/kg	TRL0023 / SSLF0126	20 / 23	0.002 - 0.12	1.7	10	No	BSL
7439-98-7	MOLYBDENUM	0.263	4.6	mg/kg	SBL0029 / SSLF0103	12 / 23	0.109 - 450	4.6	390	No	BSL
7440-02-0	NICKEL	130	340	mg/kg	SBL0033 / SSLF0110	23 / 23	0.079 - 90	340	1,500	No	BSL
7440-09-7	POTASSIUM	842	5,190	mg/kg	TRL0013 / SSLF0122	8 / 8	1,000 - 1,000	5,190	---	No	NTX
7782-49-2	SELENIUM	0.476	20	mg/kg	SBL0045 / SSLF0158	13 / 23	0.253 - 12	20	390	No	BSL
7440-22-4	SILVER	0.142	38.1	mg/kg	TRL0023 / SSLF0126	7 / 23	0.109 - 22.5	38.1	390	No	BSL
7440-23-5	SODIUM	424	3,800	mg/kg	TRL0013 / SSLF0122	8 / 8	1,000 - 1,000	3,800	---	No	NTX
7440-28-0	THALLIUM	0.52	4.4	mg/kg	SBL0045 / SSLF0158	3 / 23	0.471 - 2.5	4.4	0.78	Yes	ASL
7440-62-2	VANADIUM	36.8	81	mg/kg	SBL0046 / SSLF0156	22 / 23	0.075 - 112	81	390	No	BSL
7440-66-6	ZINC	57.4	1,900	mg/kg	SBL0045 / SSLF0158	23 / 23	0.12 - 45	1,900	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	0.066	0.066	mg/kg	SBL0033 / SSLF0105	1 / 14	0.015 - 0.042	0.066	3.9	No	BSL
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 14	0.015 - 0.084	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 14	0.015 - 0.042	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 14	0.015 - 0.042	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 14	0.015 - 0.042	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	0.023	0.16	mg/kg	SBL0045 / SSLF0158	2 / 14	0.015 - 0.042	0.16	0.22	No	BSL
11096-82-5	PCB-1260 (AROCLOR 1260)	0.047	0.31	mg/kg	SBL0029 / SSLF0103	2 / 14	0.015 - 0.12	0.31	0.22	Yes	ASL
94-75-7	2,4-D (DICHLOROPHENOXYACETIC ACID)	---	---	mg/kg	---	0 / 3	0.17 - 0.18	---	690	No	ND
877-09-8	2,4,5,6-TETRACHLORO-META-XYLENE	0.015	0.032	mg/kg	SBL-423 / SSLF0215	9 / 9	---	0.032	---	No	NTX
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 23	0.00068 - 0.0021	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 23	0.00068 - 0.0021	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	0.014	0.099	mg/kg	TRL0016 / SSLF0123	2 / 23	0.00068 - 0.053	0.099	---	No	NTX

Table C-7. Landfill Unit No. 2, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
5103-71-9	ALPHA-CHLORDANE	0.0011	0.06	mg/kg	SBL0028 / SSLF0079	15 / 23	0.00068 - 0.02	0.06	---	No	NTX
1912-24-9	Atrazine	---	---	mg/kg	---	0 / 3	0.093 - 0.46	---	2.1	No	ND
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 23	0.00068 - 0.0021	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 23	0.0014 - 0.0042	---	---	No	ND, NTX
57-74-9	CHLORDANE	0.021	0.23	mg/kg	SBL-425 / SSLF0217	9 / 10	0.0084 - 0.048	0.23	1.6	No	BSL
2051-24-3	DECACHLOROBIPHENYL	0.014	0.033	mg/kg	SBL-423 / SSLF0215	9 / 9	---	0.033	---	No	NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.0011	0.0011 J	mg/kg	SBL-421 / SSLF0213	1 / 23	0.00068 - 0.0021	0.0011 J	---	No	NTX
1918-00-9	DICAMBA	---	---	mg/kg	---	0 / 3	0.092 - 0.095	---	1,800	No	ND
60-57-1	DIELDRIN	0.0008	0.012	mg/kg	SBL-425 / SSLF0217	9 / 23	0.0014 - 0.012	0.012	0.03	No	BSL
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 23	0.0014 - 0.0042	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 23	0.0014 - 0.0042	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 23	0.0014 - 0.0042	---	---	No	ND, NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 22	0.0014 - 0.0042	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 23	0.00068 - 0.0021	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	0.002	0.067	mg/kg	SBL0028 / SSLF0079	16 / 23	0.00068 - 0.02	0.067	---	No	NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 23	0.00068 - 0.0021	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	0.0021	0.0021	mg/kg	SBL0028 / SSLF0079	1 / 23	0.00068 - 0.0021	0.0021	0.053	No	BSL
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 23	0.0068 - 0.021	---	310	No	ND
72-54-8	p,p'-DDD	0.0035	0.65	mg/kg	SBL0029 / SSLF0104	8 / 23	0.0014 - 0.11	0.65	2	No	BSL
72-55-9	p,p'-DDE	0.0016	1.9	mg/kg	TRL0016 / SSLF0123	10 / 23	0.0014 - 0.21	1.9	1.4	Yes	ASL
50-29-3	p,p'-DDT	0.0011	0.82	mg/kg	TRL0016 / SSLF0123	9 / 23	0.0014 - 0.11	0.82	1.7	No	BSL
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 23	0.034 - 0.21	---	0.44	No	ND
---	ACTINIUM-228	0.33	0.69	pCi/g	SBL0045 / SSLF0158	20 / 22	0.0576 - 0.4	0.69	679	No	BSL
---	ALPHA, GROSS	4.27	17.5	pCi/g	SBL0046 / SSLF0156	16 / 22	2.32 - 8.4	17.5	---	No	NTX
---	AMERICIUM-241	---	---	pCi/g	---	0 / 8	0.0529 - 0.144	---	1.8	No	ND
---	ANTIMONY-124	---	---	pCi/g	---	0 / 8	0.0174 - 0.0359	---	1.63	No	ND
---	ANTIMONY-125	---	---	pCi/g	---	0 / 8	0.0402 - 0.0754	---	0.472	No	ND
---	BARIUM-133	---	---	pCi/g	---	0 / 8	0.0183 - 0.0343	---	0.172	No	ND
---	BARIUM-140	---	---	pCi/g	---	0 / 8	0.113 - 0.219	---	87.3	No	ND
---	BETA, GROSS	10	26	pCi/g	SBL0044 / SSLF0148	22 / 22	4.17 - 5.7	25.5	---	No	NTX
---	BISMUTH-212	0.152	0.563	pCi/g	SBL-419 / SSLF0211	9 / 18	0.129 - 0.66	0.563	2,800	No	BSL
---	BISMUTH-214	0.16	0.63	pCi/g	SBL0046 / SSLF0156	22 / 22	0.0304 - 0.21	0.63	7,950	No	BSL
14762-75-5	CARBON-14	1.8	4.2 J	pCi/g	SBL0033 / SSLF0119	5 / 23	0.6 - 11	4.2 J	0.476	Yes	ASL
---	CERIUM-139	---	---	pCi/g	---	0 / 8	0.0137 - 0.0236	---	12.8	No	ND
---	CERIUM-141	---	---	pCi/g	---	0 / 8	0.0285 - 0.0506	---	109	No	ND
---	CERIUM-144	---	---	pCi/g	---	0 / 8	0.0969 - 0.165	---	11.6	No	ND
---	CESIUM-134	---	---	pCi/g	---	0 / 11	0.0146 - 0.039	---	0.163	No	ND
---	CESIUM-137	0.0187	0.252	pCi/g	TRL0016 / SSLF0123	17 / 22	0.0165 - 0.1	0.252	0.0615	Yes	ASL
---	CHROMIUM-51	---	---	pCi/g	---	0 / 8	0.164 - 0.302	---	239	No	ND
---	COBALT-56	---	---	pCi/g	---	0 / 8	0.0181 - 0.0335	---	0.651	No	ND
---	COBALT-57	---	---	pCi/g	---	0 / 11	0.0117 - 0.028	---	8.09	No	ND
---	COBALT-58	---	---	pCi/g	---	0 / 8	0.0173 - 0.0348	---	2.77	No	ND
---	COBALT-60	---	---	pCi/g	---	0 / 22	0.017 - 0.11	---	0.0389	No	ND
---	EUROPIUM-155	---	---	pCi/g	---	0 / 8	0.0491 - 0.0816	---	3.63	No	ND
---	EUROPIUM-152; ISOTOPE	---	---	pCi/g	---	0 / 8	0.0432 - 0.0862	---	0.0406	No	ND
---	EUROPIUM-154; ISOTOPE	---	---	pCi/g	---	0 / 8	0.0565 - 0.103	---	0.0479	No	ND
---	IRIDIUM-192	---	---	pCi/g	---	0 / 8	0.0156 - 0.0293	---	3.15	No	ND
---	IRON-59	---	---	pCi/g	---	0 / 8	0.0401 - 0.0796	---	3.49	No	ND
---	LEAD-210	---	---	pCi/g	---	0 / 19	0.99 - 24	---	0.335	No	ND
---	LEAD-212	0.279	0.67	pCi/g	SBL0046 / SSLF0156	22 / 22	0.0287 - 0.13	0.67	3,550	No	BSL
---	LEAD-214	0.216	0.685	pCi/g	SBL-419 / SSLF0211	22 / 22	0.0299 - 0.19	0.685	44,800	No	BSL
---	MANGANESE-54	---	---	pCi/g	---	0 / 8	0.0176 - 0.0308	---	0.726	No	ND

Table C-7. Landfill Unit No. 2, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
---	MERCURY-203	---	---	pCi/g	---	0 / 7	0.0197 - 0.0346	---	18.2	No	ND
---	NEPTUNIUM-239	---	---	pCi/g	---	0 / 8	0.0896 - 0.152	---	626	No	ND
---	NIObIUM-94	---	---	pCi/g	---	0 / 8	0.0141 - 0.0303	---	0.016	No	ND
---	NIObIUM-95	---	---	pCi/g	---	0 / 8	0.0222 - 0.0447	---	7.1	No	ND
---	POTASSIUM-40	6.37	15	pCi/g	TRL0016 / SSLF0123	22 / 22	0.16 - 1.1	15	0.116	Yes	ASL
---	PROMETHIUM-144	---	---	pCi/g	---	0 / 8	0.0156 - 0.0332	---	0.347	No	ND
---	PROMETHIUM-146	---	---	pCi/g	---	0 / 8	0.0198 - 0.0374	---	0.134	No	ND
---	RADIUM-223	---	---	pCi/g	---	0 / 4	0.58 - 1.5	---	64.6	No	ND
13982-63-3	RADIUM-226	0.19	0.66	pCi/g	SBL0046 / SSLF0155	21 / 22	0.0304 - 0.27	0.66	0.0121	Yes	ASL
---	RADIUM-228	0.333	0.582	pCi/g	SBL-419 / SSLF0211	8 / 8	0.0576 - 0.107	0.582	0.0292	Yes	ASL
---	RUTHENIUM-106	---	---	pCi/g	---	0 / 8	0.138 - 0.259	---	2.29	No	ND
---	SODIUM-22	---	---	pCi/g	---	0 / 8	0.0202 - 0.0368	---	0.0902	No	ND
10098-97-2	STRONTIUM-90	0.42	0.42	pCi/g	TRL0013 / SSLF0122	1 / 22	0.348 - 1.1	0.42	0.24	Yes	ASL
---	THALLIUM-208	0.08	0.242	pCi/g	SBL0028 / SSLF0082	21 / 22	0.0149 - 0.11	0.242	23,100	No	BSL
---	THORIUM-228	0.394	0.753	pCi/g	SBL-419 / SSLF0211	8 / 8	0.1 - 0.347	0.753	23	No	BSL
---	THORIUM-230	0.366	0.555	pCi/g	SBL-419 / SSLF0211	8 / 8	0.0304 - 0.0905	0.555	3.46	No	BSL
---	THORIUM-232	0.347	0.698	pCi/g	SBL-419 / SSLF0211	8 / 8	0.0282 - 0.0884	0.698	3.07	No	BSL
---	THORIUM-234	0.879	1.14 J	pCi/g	SBL-421 / SSLF0213	3 / 22	0.453 - 2.3	1.14 J	280	No	BSL
---	TIN-113	---	---	pCi/g	---	0 / 8	0.0192 - 0.0398	---	302	No	ND
10028-17-8	TRITIUM (HYDROGEN-3)	0.0485	3.2	pCi/g	SBL0033 / SSLF0110	5 / 23	0.0242 - 10.3	3.2	0.882	Yes	ASL
---	URANIUM-235 and 236	---	---	pCi/g	---	0 / 8	0.0799 - 0.256	---	3.95	No	ND
---	URANIUM-235	---	---	pCi/g	---	0 / 22	0.103 - 0.39	---	3.95	No	ND
---	URANIUM-238	0.198	0.597	pCi/g	SBL-419 / SSLF0211	7 / 8	0.0645 - 0.284	0.597	0.696	No	BSL
---	YTTRIUM-88	---	---	pCi/g	---	0 / 8	0.0153 - 0.0396	---	0.591	No	ND
---	ZINC-65	---	---	pCi/g	---	0 / 8	0.0386 - 0.0681	---	1.25	No	ND
---	ZIRCONIUM-95	---	---	pCi/g	---	0 / 8	0.0333 - 0.0644	---	4.04	No	ND
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	0.0047	mg/kg	SBL-423 / SSLF0215	1 / 22	0.34 - 0.72	0.0047	---	No	NTX
1074-55-1	1-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 9	0.034 - 0.037	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 1.8	---	6,100	No	ND
118-79-6	2,4,6-TRIBROMOPHENOL	1.9	2.9	mg/kg	SBL-418 / SSLF0210	9 / 9	---	2.9	---	No	NTX
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 22	0.68 - 1.8	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 22	0.034 - 0.72	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	0.0072	mg/kg	SBL-423 / SSLF0215	1 / 22	0.34 - 0.72	0.0072	390	No	BSL
321-60-8	2-FLUOROBIPHENYL	0.9	1.3	mg/kg	SBL-420 / SSLF0212	9 / 9	---	1.3	---	No	NTX
367-12-4	2-FLUOROPHENOL	0.5	2.3	mg/kg	SBL-423 / SSLF0215	9 / 9	---	2.3	---	No	NTX
91-57-6	2-METHYLNAPHTHALENE	0.55	0.55	mg/kg	TRL0023 / SSLF0126	1 / 22	0.034 - 0.72	0.55	310	No	BSL
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 22	0.34 - 1.8	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 22	0.34 - 1.8	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 1.8	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	0.0063	mg/kg	SBL-423 / SSLF0215	1 / 22	0.34 - 0.72	0.0063	310	No	BSL
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 22	0.34 - 1.8	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 1.8	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 22	0.034 - 0.72	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 22	0.034 - 0.72	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 22	0.034 - 0.72	---	17,000	No	ND
92-87-5	BENZIDINE	---	---	mg/kg	---	0 / 9	1.7 - 1.8	---	0.0005	No	ND
56-55-3	BENZO(a)ANTHRACENE	0.044	0.68	mg/kg	SBL0046 / SSLF0155	2 / 22	0.034 - 0.72	0.68	0.15	Yes	ASL

Table C-7. Landfill Unit No. 2, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
50-32-8	BENZO(a)PYRENE	0.036	0.49	mg/kg	SBL0046 / SSLF0155	2 / 22	0.034 - 0.72	0.49	0.015	Yes	ASL
205-99-2	BENZO(b)FLUORANTHENE	0.033	0.47	mg/kg	SBL0046 / SSLF0155	2 / 22	0.034 - 0.72	0.47	0.15	Yes	ASL
191-24-2	BENZO(g,h,i)PERYLENE	0.02	0.02	mg/kg	SBL0033 / SSLF0112	1 / 22	0.034 - 0.72	0.02	---	No	NTX
207-08-9	BENZO(k)FLUORANTHENE	0.037	0.57	mg/kg	SBL0046 / SSLF0155	2 / 22	0.034 - 0.72	0.57	1.5	No	BSL
65-85-0	BENZOIC ACID	---	---	mg/kg	---	0 / 9	0.68 - 0.74	---	240,000	No	ND
100-51-6	BENZYL ALCOHOL	---	---	mg/kg	---	0 / 9	0.34 - 0.37	---	6,100	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	0.083	0.083	mg/kg	SBL0033 / SSLF0110	1 / 22	0.34 - 0.72	0.083	260	No	BSL
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	0.013	1.1	mg/kg	SBL-418 / SSLF0210	7 / 22	0.34 - 0.72	1.1	35	No	BSL
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	---	No	ND, NTX
218-01-9	CHRYSENE	0.046	1	mg/kg	SBL0046 / SSLF0155	2 / 22	0.034 - 0.72	1	15	No	BSL
333-41-5	DIAZINON	---	---	mg/kg	---	0 / 3	0.096 - 0.59	---	43	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 22	0.034 - 0.72	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	0.024	0.2	mg/kg	SBL0028 / SSLF0079	7 / 22	0.34 - 0.72	0.2	6,100	No	BSL
117-84-0	DI-n-OCTYLPHTHALATE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	---	No	ND, NTX
122-39-4	DIPHENYLAMINE	---	---	mg/kg	---	0 / 9	0.34 - 0.37	---	1,500	No	ND
206-44-0	FLUORANTHENE	0.0054	0.4	mg/kg	SBL0046 / SSLF0155	2 / 22	0.034 - 0.72	0.4	2,300	No	BSL
86-73-7	FLUORENE	---	0.0042	mg/kg	SBL-423 / SSLF0215	1 / 22	0.034 - 0.72	0.0042	2,300	No	BSL
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 21	0.34 - 0.42	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 22	0.034 - 0.72	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 22	0.034 - 0.72	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	4.8	No	ND
62-75-9	N-NITROSODIMETHYLAMINE	---	---	mg/kg	---	0 / 9	0.34 - 0.37	---	0.0023	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 13	0.34 - 0.72	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 22	0.34 - 1.8	---	0.89	No	ND
85-01-8	PHENANTHRENE	---	---	mg/kg	---	0 / 22	0.034 - 0.72	---	---	No	ND, NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	18,000	No	ND
129-00-0	PYRENE	0.67	0.67	mg/kg	SBL0046 / SSLF0155	1 / 22	0.034 - 0.72	0.67	1,700	No	BSL
110-86-1	PYRIDINE	---	---	mg/kg	---	0 / 9	0.34 - 0.37	---	78	No	ND
126-73-8	TRIBUTYL PHOSPHATE	0.029	0.7	mg/kg	SBL-418 / SSLF0210	2 / 9	0.34 - 0.37	0.7	54	No	BSL
123-73-9	(E)-2-Butenal	---	---	mg/kg	---	0 / 7	0.14 - 0.18	---	0.34	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 22	0.34 - 0.72	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	210	No	ND
75-07-0	ACETALDEHYDE	---	---	mg/kg	---	0 / 6	0.14 - 0.18	---	10	No	ND
67-64-1	ACETONE	0.012	0.096	mg/kg	SBL0044 / SSLF0148	5 / 13	0.01 - 0.012	0.096	61,000	No	BSL
71-43-2	BENZENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	7.3	No	ND
123-72-8	Butanal	0.18	0.67	mg/kg	SBL0033 / SSLF0112	3 / 7	0.14 - 0.18	0.67	---	No	NTX
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	0.61	No	ND

Table C-7. Landfill Unit No. 2, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	15,000	No	ND
67-66-3	CHLOROFORM	0.051	0.051	mg/kg	SBL0028 / SSLF0082	1 / 13	0.01 - 0.012	0.051	0.29	No	BSL
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	5.4	No	ND
50-00-0	FORMALDEHYDE	0.2	0.55	mg/kg	SBL0033 / SSLF0112	6 / 7	0.14 - 0.18	0.55	12,000	No	BSL
66-25-1	HEXANAL	0.29	0.68	mg/kg	SBL0029 / SSLF0092	3 / 7	0.18 - 0.24	0.68	---	No	NTX
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	0.013	0.022	mg/kg	SBL0044 / SSLF0148	2 / 13	0.01 - 0.012	0.022	28,000	No	BSL
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	11	No	ND
124-19-6	Nonanal	0.3	0.3	mg/kg	SBL0029 / SSLF0092	1 / 6	0.28 - 0.36	0.3	---	No	NTX
124-13-0	Octanal	0.19	0.23	mg/kg	SBL0028 / SSLF0079	2 / 7	0.18 - 0.24	0.23	---	No	NTX
123-38-6	Propanal	---	---	mg/kg	---	0 / 7	0.14 - 0.18	---	80	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	0.006	0.006	mg/kg	SBL0028 / SSLF0082	1 / 13	0.01 - 0.012	0.006	0.55	No	BSL
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	0.91	No	ND
110-62-3	Pentanal	---	---	mg/kg	---	0 / 7	0.14 - 0.18	---	---	No	ND, NTX
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 13	0.01 - 0.012	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

³ Reporting limits not provided.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- - not applicable

Table C-8. Landfill Unit No. 2, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
94-82-6	2,4 DB	---	---	mg/kg	---	0 / 1	1.6 - 1.6	---	490	No	ND
16655-82-6	3-HYDROXYCARBOFURAN	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	---	No	ND, NTX
116-06-3	ALDICARB (SULFIDE, SULFOXIDE, AND SULFONE)	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	61	No	ND
1646-88-4	ALDICARB SULFONE	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	61	No	ND
834-12-8	AMETRYN	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	550	No	ND
1610-17-9	ATRATON	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	---	No	ND, NTX
63-25-2	Carbaryl	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	6,100	No	ND
1563-66-2	CARBOFURAN	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	310	No	ND
108-94-1	CYCLOHEXANONE	---	---	mg/kg	---	0 / 5	0.17 - 0.23	---	310,000	No	ND
112-31-2	Decanal	---	---	mg/kg	---	0 / 1	0.45 - 0.45	---	---	No	ND, NTX
6988-21-2	DIOXACARB	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	---	No	ND, NTX
111-71-7	Heptanal	---	---	mg/kg	---	0 / 5	0.22 - 0.3	---	---	No	ND, NTX
2032-65-7	Methiocarb	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	---	No	ND, NTX
16752-77-5	Methomyl	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	1,500	No	ND
2631-37-0	PROMECARB	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	---	No	ND, NTX
1610-18-0	PROMETON	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	920	No	ND
7287-19-6	PROMETRYN	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	240	No	ND
139-40-2	PROPAZINE	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	1,200	No	ND
114-26-1	Propoxur	---	---	mg/kg	---	0 / 1	0.34 - 0.34	---	240	No	ND
26259-45-0	Secbumeton	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	---	No	ND, NTX
93-72-1	SILVEX (2,4,5-TP)	---	---	mg/kg	---	0 / 1	0.068 - 0.068	---	490	No	ND
1014-70-6	SIMETRYN	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	---	No	ND, NTX
5915-41-3	Terbutylazine	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	---	No	ND, NTX
886-50-0	TERBUTRYN	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	61	No	ND
---	ALKALINITY, TOTAL (AS CaCO3)	1,700	1,700	mg/kg	SBL0029 / SSLF0098	1 / 1	300 - 300	1,700	---	No	NTX
---	CHLORIDE (AS CL)	62	62	mg/kg	SBL0029 / SSLF0098	1 / 1	0.25 - 0.25	62	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	2.6	110	mg/kg	SBL0028 / SSLF0085	6 / 8	0.24 - 0.27	110	---	No	NTX
---	NITROGEN, AMMONIA (AS N)	---	---	mg/kg	---	0 / 1	1.9 - 1.9	---	---	No	ND, NTX
---	SULFATE (AS SO4)	340	340	mg/kg	SBL0029 / SSLF0098	1 / 1	1.3 - 1.3	340	---	No	NTX
---	SULFIDE, TOTAL	---	---	mg/kg	---	0 / 1	64 - 64	---	---	No	ND, NTX
---	TOTAL KJELDAHL NITROGEN	420	420	mg/kg	SBL0029 / SSLF0098	1 / 1	10 - 10	420	---	No	NTX
---	TOTAL ORGANIC CARBON	1,600	1,600	mg/kg	SBL0029 / SSLF0098	1 / 1	1,000 - 1,000	1,600	---	No	NTX
93-76-5	2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	---	---	mg/kg	---	0 / 1	0.068 - 0.068	---	610	No	ND
86-50-0	AZINPHOS, METHYL (GUTHION)	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	180	No	ND
35400-43-2	BOLSTAR	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
2921-88-2	CHLORPYRIFOS	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	61	No	ND
56-72-4	COUMAPHOS	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
75-99-0	DALAPON	---	---	mg/kg	---	0 / 1	2.6 - 2.6	---	1,800	No	ND
298-03-3	DEMETON	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
120-36-5	DICHLOROPROP	---	---	mg/kg	---	0 / 1	0.74 - 0.74	---	---	No	ND, NTX
62-73-7	DICHLORVOS	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	1.7	No	ND
88-85-7	DINOSEB	---	---	mg/kg	---	0 / 1	0.096 - 0.096	---	61	No	ND
298-04-4	DISULFOTON	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	2.4	No	ND
13194-48-4	ETHOPROP	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX

Table C-8. Landfill Unit No. 2, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
115-90-2	FENSULFOTHION	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
55-38-9	FENTHION	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
94-74-6	MCPA	---	---	mg/kg	---	0 / 1	110 - 110	---	31	No	ND
93-65-2	MCP	---	---	mg/kg	---	0 / 1	160 - 160	---	61	No	ND
150-50-5	MERPHOS	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	1.8	No	ND
7786-34-7	MEVINPHOS	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
300-76-5	NALED	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	120	No	ND
298-00-0	PARATHION, METHYL	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	15	No	ND
298-02-2	PHORATE	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	12	No	ND
299-84-3	RONNEL	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	3,100	No	ND
122-34-9	SIMAZINE	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	4.1	No	ND
22248-79-9	STIROFOS (TETRACHLORVINPHOS)	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
64772-54-9	TOKUTHION (PROTHIOFOS)	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
327-98-0	TRICHLORONATE	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	---	No	ND, NTX
7440-36-0	ANTIMONY	---	---	mg/kg	---	0 / 8	12 - 15.8	---	31	No	ND
7440-38-2	ARSENIC	7.1	12.8	mg/kg	TRL0022 / SSLF0124	8 / 8	2 - 2.64	12.8	0.39	Yes	ASL
7440-39-3	BARIUM	190	531	mg/kg	TRL0022 / SSLF0124	8 / 8	40 - 52.8	531	15,000	No	BSL
7440-41-7	BERYLLIUM	0.38	0.52	mg/kg	SBL0033 / SSLF0114	4 / 8	1 - 1.32	0.52	160	No	BSL
7440-43-9	CADMIUM	1.3	1.5	mg/kg	LF2-4 / SSLF2-4-12.5	3 / 10	0.29 - 1.32	1.5	70	No	BSL
7440-70-2	CALCIUM	3,070	6,050	mg/kg	SBL0028 / SSLF0085	4 / 4	1,000 - 1,000	6,050	---	No	NTX
18540-29-9	CHROMIUM, HEXAVALENT	---	---	mg/kg	---	0 / 10	0.023 - 0.27	---	0.29	No	ND
7440-47-3	CHROMIUM, TOTAL	95	351	mg/kg	TRL0022 / SSLF0124	8 / 8	2 - 2.64	351	---	No	NTX
7440-48-4	COBALT	22.7	29.6	mg/kg	SBL0033 / SSLF0114	8 / 8	10 - 13.2	29.6	23	Yes	ASL
7440-50-8	COPPER	45.7	1,500	mg/kg	TRL0022 / SSLF0124	8 / 8	5 - 6.6	1,500	3,100	No	BSL
7439-89-6	IRON	42,300	50,100	mg/kg	SBL0033 / SSLF0114	4 / 4	20 - 20	50,100	55,000	No	BSL
7439-92-1	LEAD	6.3	938	mg/kg	TRL0022 / SSLF0124	8 / 8	0.6 - 0.791	938	80	Yes	ASL
7439-95-4	MAGNESIUM	18,600	23,100	mg/kg	SBL0033 / SSLF0114	4 / 4	1,000 - 1,000	23,100	---	No	NTX
7439-96-5	MANGANESE	741	852	mg/kg	SBL0029 / SSLF0098	4 / 4	3 - 3	852	1,800	No	BSL
7439-97-6	MERCURY	0.13	0.64	mg/kg	TRL0022 / SSLF0124	4 / 8	0.1 - 0.137	0.64	10	No	BSL
7439-98-7	MOLYBDENUM	0.29	0.29	mg/kg	SBL0033 / SSLF0114	1 / 8	2 - 52.8	0.29	390	No	BSL
7440-02-0	NICKEL	199	310	mg/kg	SBL0045 / SSLF0159	8 / 8	8 - 10.6	310	1,500	No	BSL
7440-09-7	POTASSIUM	1,820	6,250	mg/kg	SBL0033 / SSLF0114	4 / 4	1,000 - 1,000	6,250	---	No	NTX
7782-49-2	SELENIUM	2.7	3.1	mg/kg	SBL0044 / SSLF0149	3 / 8	1 - 6.6	3.1	390	No	BSL
7440-22-4	SILVER	5.9	5.9	mg/kg	TRL0022 / SSLF0124	1 / 10	0.29 - 2.64	5.9	390	No	BSL
7440-23-5	SODIUM	576	959	mg/kg	SBL0029 / SSLF0098	4 / 4	1,000 - 1,000	959	---	No	NTX
7440-28-0	THALLIUM	---	---	mg/kg	---	0 / 8	2 - 2.64	---	0.78	No	ND
7440-62-2	VANADIUM	57.8	77	mg/kg	SBL0033 / SSLF0114	8 / 8	10 - 13.2	77	390	No	BSL
7440-66-6	ZINC	68.6	527	mg/kg	TRL0022 / SSLF0124	8 / 8	4 - 5.28	527	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 8	0.018 - 0.042	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 8	0.018 - 0.084	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 8	0.018 - 0.042	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 8	0.018 - 0.042	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	0.15	0.15	mg/kg	TRL0022 / SSLF0124	1 / 8	0.018 - 0.042	0.15	0.22	No	BSL
11097-69-1	PCB-1254 (AROCLOR 1254)	0.035	0.035	mg/kg	TRL0022 / SSLF0124	1 / 8	0.018 - 0.042	0.035	0.22	No	BSL

Table C-8. Landfill Unit No. 2, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
11096-82-5	PCB-1260 (AROCOLOR 1260)	---	---	mg/kg	---	0 / 8	0.018 - 0.042	---	0.22	No	ND
94-75-7	2,4-D (DICHLOROPHENOXYACETIC ACID)	---	---	mg/kg	---	0 / 1	0.21 - 0.21	---	690	No	ND
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	---	No	ND, NTX
1912-24-9	Atrazine	---	---	mg/kg	---	0 / 1	0.55 - 0.55	---	2.1	No	ND
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 8	0.0039 - 0.0045	---	---	No	ND, NTX
57-74-9	CHLORDANE	---	---	mg/kg	---	0 / 1	0.055 - 0.055	---	1.6	No	ND
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	---	No	ND, NTX
1918-00-9	DICAMBA	---	---	mg/kg	---	0 / 1	0.11 - 0.11	---	1,800	No	ND
60-57-1	DIELDRIN	---	---	mg/kg	---	0 / 8	0.0039 - 0.0045	---	0.03	No	ND
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 8	0.0039 - 0.0045	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 8	0.0039 - 0.0045	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 8	0.0039 - 0.0045	---	---	No	ND, NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 7	0.0039 - 0.0042	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	---	No	ND, NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 8	0.002 - 0.0023	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 8	0.02 - 0.023	---	310	No	ND
72-54-8	p,p'-DDD	0.048	0.048	mg/kg	TRL0022 / SSLF0124	1 / 8	0.0039 - 0.0045	0.048	2	No	BSL
72-55-9	p,p'-DDE	0.031	0.031	mg/kg	TRL0022 / SSLF0124	1 / 8	0.0039 - 0.0045	0.031	1.4	No	BSL
50-29-3	p,p'-DDT	---	---	mg/kg	---	0 / 8	0.0039 - 0.0045	---	1.7	No	ND
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 8	0.2 - 0.23	---	0.44	No	ND
---	ACTINIUM-228	0.46	0.79	pCi/g	SBL0033 / SSLF0114	7 / 8	0.12 - 0.62	0.79	679	No	BSL
---	ALPHA, GROSS	5.5	13.1	pCi/g	SBL0044 / SSLF0149	5 / 8	5.2 - 6.8	13.1	---	No	NTX
---	BETA, GROSS	15.3	32.5	pCi/g	TRL0022 / SSLF0124	8 / 8	5 - 6	32.5	---	No	NTX
---	BISMUTH-212	0.34	0.34	pCi/g	SBL0029 / SSLF0100	1 / 5	0.27 - 0.89	0.34	2,800	No	BSL
---	BISMUTH-214	0.34	0.61	pCi/g	SBL0046 / SSLF0157	8 / 8	0.07 - 0.27	0.61	7,950	No	BSL
14762-75-5	CARBON-14	1.17	2.4	pCi/g	SBL0029 / SSLF0100	2 / 10	1 - 9.9	2.4	0.476	Yes	ASL
---	CESIUM-134	---	---	pCi/g	---	0 / 3	0.03 - 0.047	---	0.163	No	ND
---	CESIUM-137	---	---	pCi/g	---	0 / 8	0.033 - 0.14	---	0.0615	No	ND
---	COBALT-57	---	---	pCi/g	---	0 / 3	0.022 - 0.029	---	8.09	No	ND
---	COBALT-60	---	---	pCi/g	---	0 / 8	0.032 - 0.14	---	0.0389	No	ND
---	LEAD-210	---	---	pCi/g	---	0 / 5	1.5 - 10	---	0.335	No	ND
---	LEAD-212	0.22	0.93	pCi/g	SBL0028 / SSLF0085	8 / 8	0.056 - 0.19	0.93	3,550	No	BSL
---	LEAD-214	0	0.92	pCi/g	SBL0028 / SSLF0085	8 / 8	0.062 - 0.22	0.92	44,800	No	BSL
---	POTASSIUM-40	11.7	18.6	pCi/g	SBL0046 / SSLF0157	8 / 8	0.39 - 1.5	18.6	0.116	Yes	ASL
---	RADIUM-223	---	---	pCi/g	---	0 / 1	1.9 - 1.9	---	64.6	No	ND
13982-63-3	RADIUM-226	0.24	0.91	pCi/g	SBL0046 / SSLF0157	8 / 8	0.049 - 0.3	0.91	0.0121	Yes	ASL
10098-97-2	STRONTIUM-90	0.34	0.34	pCi/g	TRL0022 / SSLF0124	1 / 10	0.27 - 1.1	0.34	0.24	Yes	ASL
---	THALLIUM-208	0.166	0.248	pCi/g	SBL0028 / SSLF0085	7 / 8	0.034 - 0.15	0.248	23,100	No	BSL

Table C-8. Landfill Unit No. 2, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
---	THORIUM-234	---	---	pCi/g	---	0 / 8	0.9 - 2	---	280	No	ND
10028-17-8	TRITIUM (HYDROGEN-3)	0.461	0.461	pCi/g	SBL0033 / SSLF0114	1 / 8	0.0242 - 0.0404	0.461	0.882	No	BSL
---	URANIUM-235 and 236	0.032	0.032	pCi/g	LF2-4 / SSLF2-4-12.5	1 / 2	0.2 - 0.2	0.032	3.95	No	BSL
---	URANIUM-235	---	---	pCi/g	---	0 / 8	0.19 - 0.49	---	3.95	No	ND
---	URANIUM-238	0.4	0.43	pCi/g	LF2-4 / SSLF2-4-12.5	2 / 2	0.2 - 0.2	0.43	0.696	No	BSL
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 9	0.95 - 1.3	---	6,100	No	ND
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 9	0.95 - 1.3	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	390	No	ND
91-57-6	2-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	310	No	ND
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 9	0.95 - 1.3	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 9	0.95 - 1.3	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 9	0.95 - 1.3	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 9	0.95 - 1.3	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 9	0.95 - 1.3	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	17,000	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	1.5	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	0.042	0.19	mg/kg	SBL0029 / SSLF0100	2 / 9	0.39 - 0.53	0.19	35	No	BSL
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	15	No	ND
333-41-5	DIAZINON	---	---	mg/kg	---	0 / 1	0.68 - 0.68	---	43	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	49,000	No	ND

Table C-8. Landfill Unit No. 2, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	0.11	0.23	mg/kg	SBL0029 / SSLF0097	5 / 9	0.39 - 0.53	0.23	6,100	No	BSL
117-84-0	DI-n-OCTYLPHTHALATE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	---	No	ND, NTX
206-44-0	FLUORANTHENE	0.67	0.67	mg/kg	TRL0022 / SSLF0124	1 / 9	0.39 - 0.53	0.67	2,300	No	BSL
86-73-7	FLUORENE	0.74	0.74	mg/kg	TRL0022 / SSLF0124	1 / 9	0.39 - 0.53	0.74	2,300	No	BSL
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	4.8	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 9	0.95 - 1.3	---	0.89	No	ND
85-01-8	PHENANTHRENE	2.5	2.5	mg/kg	TRL0022 / SSLF0124	1 / 9	0.39 - 0.53	2.5	---	No	NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	18,000	No	ND
129-00-0	PYRENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	1,700	No	ND
123-73-9	(E)-2-Butenal	---	---	mg/kg	---	0 / 5	0.17 - 0.23	---	0.34	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	0.005	0.005	mg/kg	SBL0028 / SSLF0085	1 / 9	0.0099 - 0.016	0.005	1.1	No	BSL
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	0.01	0.01	mg/kg	SBL0029 / SSLF0097	1 / 9	0.0099 - 0.016	0.01	240	No	BSL
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 9	0.39 - 0.53	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	210	No	ND
75-07-0	ACETALDEHYDE	---	---	mg/kg	---	0 / 5	0.17 - 0.23	---	10	No	ND
67-64-1	ACETONE	0.11	0.11	mg/kg	TRL0022 / SSLF0124	1 / 9	0.0099 - 0.016	0.11	61,000	No	BSL
71-43-2	BENZENE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	7.3	No	ND
123-72-8	Butanal	---	---	mg/kg	---	0 / 5	0.17 - 0.23	---	---	No	ND, NTX
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	15,000	No	ND
67-66-3	CHLOROFORM	0.017	0.17	mg/kg	SBL0028 / SSLF0085	2 / 9	0.0099 - 0.016	0.17	0.29	No	BSL
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	5.4	No	ND
50-00-0	FORMALDEHYDE	0.2	0.92	mg/kg	SBL0029 / SSLF0097	3 / 5	0.17 - 0.23	0.92	12,000	No	BSL
66-25-1	HEXANAL	0.42	1	mg/kg	SBL0029 / SSLF0100	4 / 5	0.22 - 0.3	1	---	No	NTX
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	0.024	0.024	mg/kg	TRL0022 / SSLF0124	1 / 9	0.0099 - 0.016	0.024	28,000	No	BSL
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	11	No	ND

Table C-8. Landfill Unit No. 2, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 2

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
124-19-6	Nonanal	0.39	0.51	mg/kg	SBL0029 / SSLF0097	3 / 5	0.33 - 0.45	0.51	---	No	NTX
124-13-0	Octanal	---	---	mg/kg	---	0 / 5	0.22 - 0.3	---	---	No	ND, NTX
123-38-6	Propanal	---	---	mg/kg	---	0 / 5	0.17 - 0.23	---	80	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 8	0.0099 - 0.013	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.91	No	ND
110-62-3	Pentanal	---	---	mg/kg	---	0 / 5	0.17 - 0.23	---	---	No	ND, NTX
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 9	0.0099 - 0.016	---	630	No	ND

Notes:
¹ Concentration used for screening is the maximum concentration detected.
² Screening value from Table C-2.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- - not applicable

Table C-9. Landfill Unit No. 3, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update -Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
94-82-6	2,4 DB	---	---	mg/kg	---	0 / 2	1.5 - 1.8	---	490	No	ND
16655-82-6	3-HYDROXYCARBOFURAN	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	---	No	ND, NTX
116-06-3	ALDICARB (SULFIDE, SULFOXIDE, AND SULFONE)	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	61	No	ND
1646-88-4	ALDICARB SULFONE	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	61	No	ND
834-12-8	AMETRYN	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	550	No	ND
1610-17-9	ATRATON	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	---	No	ND, NTX
63-25-2	Carbaryl	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	6,100	No	ND
1563-66-2	CARBOFURAN	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	310	No	ND
108-94-1	CYCLOHEXANONE	---	---	mg/kg	---	0 / 6	0.12 - 0.17	---	310,000	No	ND
6988-21-2	DIOXACARB	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	---	No	ND, NTX
111-71-7	Heptanal	---	---	mg/kg	---	0 / 6	0.15 - 0.22	---	---	No	ND, NTX
2032-65-7	Methiocarb	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	---	No	ND, NTX
16752-77-5	Methomyl	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	1,500	No	ND
2631-37-0	PROMECARB	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	---	No	ND, NTX
1610-18-0	PROMETON	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	920	No	ND
7287-19-6	PROMETRYN	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	240	No	ND
139-40-2	PROPАЗINE	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	1,200	No	ND
114-26-1	Propoxur	---	---	mg/kg	---	0 / 2	0.32 - 0.38	---	240	No	ND
26259-45-0	Secbumeton	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	---	No	ND, NTX
93-72-1	SILVEX (2,4,5-TP)	---	---	mg/kg	---	0 / 2	0.063 - 0.076	---	490	No	ND
1014-70-6	SIMETRYN	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	---	No	ND, NTX
5915-41-3	Terbutylazine	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	---	No	ND, NTX
886-50-0	TERBUTRYN	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	61	No	ND
---	ALKALINITY, TOTAL (AS CaCO3)	720	6,100	mg/kg	TRL0101 / SSLF0106	4 / 5	300 - 500	6,100	---	No	NTX
---	CHLORIDE (AS CL)	0.65	71	mg/kg	TRL0102 / SSLF0107	5 / 5	0.2 - 0.23	71	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	0.22	86	mg/kg	TRL0030 / SSLF0131	20 / 21	0.2 - 0.31	86	---	No	NTX
---	NITROGEN, AMMONIA (AS N)	---	---	mg/kg	---	0 / 5	1.5 - 1.7	---	---	No	ND, NTX
---	SULFATE (AS SO4)	5.6	170	mg/kg	TRL0801 / SSLF0121	5 / 5	1 - 1.1	170	---	No	NTX
---	SULFIDE, TOTAL	---	---	mg/kg	---	0 / 5	50 - 57	---	---	No	ND, NTX
---	TOTAL KJELDAHL NITROGEN	1,300	1,600	mg/kg	SBL0022 / SSLF0025	4 / 4	10 - 10	1,600	---	No	NTX
---	TOTAL ORGANIC CARBON	13,000	45,000	mg/kg	TRL0801 / SSLF0121	4 / 4	1000 - 1000	45,000	---	No	NTX
93-76-5	2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	---	---	mg/kg	---	0 / 2	0.063 - 0.076	---	610	No	ND
86-50-0	AZINPHOS, METHYL (GUTHION)	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	180	No	ND
35400-43-2	BOLSTAR	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
2921-88-2	CHLORPYRIFOS	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	61	No	ND
56-72-4	COUMAPHOS	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
75-99-0	DALAPON	---	---	mg/kg	---	0 / 2	2.4 - 2.9	---	1,800	No	ND
298-03-3	DEMETON	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
120-36-5	DICHLOROPROP	---	---	mg/kg	---	0 / 2	0.68 - 0.82	---	---	No	ND, NTX
62-73-7	DICHLORVOS	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	1.7	No	ND
88-85-7	DINOSEB	---	---	mg/kg	---	0 / 2	0.088 - 0.11	---	61	No	ND
298-04-4	DISULFOTON	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	2.4	No	ND
13194-48-4	ETHOPROP	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
115-90-2	FENSULFOTHION	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX

Table C-9. Landfill Unit No. 3, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update -Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
55-38-9	FENTHION	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
94-74-6	MCPA	---	---	mg/kg	---	0 / 2	99 - 120	---	31	No	ND
93-65-2	MCPD	---	---	mg/kg	---	0 / 2	150 - 180	---	61	No	ND
150-50-5	MERPHOS	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	1.8	No	ND
7786-34-7	MEVINPHOS	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
300-76-5	NALED	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	120	No	ND
298-00-0	PARATHION, METHYL	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	15	No	ND
298-02-2	PHORATE	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	12	No	ND
299-84-3	RONNEL	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	3,100	No	ND
122-34-9	SIMAZINE	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	4.1	No	ND
22248-79-9	STIROFOS (TETRACHLORVINPHOS)	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
64772-54-9	TOKUTHION (PROTHIOFOS)	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
327-98-0	TRICHLORONATE	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	---	No	ND, NTX
7440-36-0	ANTIMONY	3	13.8	mg/kg	TRL0801 / SSLF0121	2 / 21	12 - 159	13.8	31	No	BSL
7440-38-2	ARSENIC	3	61.7	mg/kg	SBL0022 / SSLF0039	21 / 21	2 - 4.9	61.7	0.39	Yes	ASL
7440-39-3	BARIUM	134	968	mg/kg	TRL0801 / SSLF0121	21 / 21	40 - 245	968	15,000	No	BSL
7440-41-7	BERYLLIUM	0.28	0.49	mg/kg	SBL0024 / SSLF0049	7 / 21	1 - 6.1	0.49	160	No	BSL
7440-43-9	CADMIUM	0.24	20	mg/kg	TRL0028 / SSLF0128	13 / 21	1 - 6.1	20	70	No	BSL
7440-70-2	CALCIUM	3,320	45,600	mg/kg	TRL0801 / SSLF0121	14 / 14	20 - 1,000	45,600	---	No	NTX
18540-29-9	CHROMIUM, HEXAVALENT	0.36	0.36	mg/kg	SBL0036 / SSLF0144	1 / 21	0.2 - 0.31	0.36	0.29	Yes	ASL
7440-47-3	CHROMIUM, TOTAL	89	19,000	mg/kg	SBL0036 / SSLF0144	21 / 21	2 - 12.3	19,000	---	No	NTX
7440-48-4	COBALT	15.2	33	mg/kg	SBL0036 / SSLF0144	19 / 21	10 - 61.3	33	23	Yes	ASL
7440-50-8	COPPER	32.3	1,700	mg/kg	SBL0035 / SSLF0140	21 / 21	5 - 30.7	1,700	3,100	No	BSL
7439-89-6	IRON	21,900	87,200	mg/kg	SBL0022 / SSLF0039	14 / 14	20 - 20	87,200	55,000	Yes	ASL
7439-92-1	LEAD	8.1	2,540	mg/kg	TRL0801 / SSLF0121	21 / 21	0.6 - 1.5	2,540	80	Yes	ASL
7439-95-4	MAGNESIUM	11,100	26,600	mg/kg	TRL0102 / SSLF0107	14 / 14	3 - 1,000	26,600	---	No	NTX
7439-96-5	MANGANESE	628	4,300	mg/kg	TRL0101 / SSLF0106	6 / 6	3 - 3	4,300	1,800	Yes	ASL
7439-97-6	MERCURY	0.12	49.5	mg/kg	TRL0801 / SSLF0121	20 / 21	0.1 - 0.15	49.5	10	Yes	ASL
7439-98-7	MOLYBDENUM	0.28	7.9	mg/kg	TRL0801 / SSLF0121	9 / 21	2 - 245	7.9	390	No	BSL
7440-02-0	NICKEL	130	305	mg/kg	TRL0030 / SSLF0131	21 / 21	8 - 49.1	305	1,500	No	BSL
7440-09-7	POTASSIUM	1,130	5,080	mg/kg	TRL0801 / SSLF0121	14 / 14	20 - 1,000	5,080	---	No	NTX
7782-49-2	SELENIUM	0.71	8.9	mg/kg	TRL0028 / SSLF0128	8 / 21	1 - 2.5	8.9	390	No	BSL
7440-22-4	SILVER	0.23	158	mg/kg	TRL0801 / SSLF0121	15 / 21	2 - 12.3	158	390	No	BSL
7440-23-5	SODIUM	370	3,480	mg/kg	TRL0801 / SSLF0121	14 / 14	20 - 1,000	3,480	---	No	NTX
7440-28-0	THALLIUM	0.84	5.2	mg/kg	SBL0036 / SSLF0144	9 / 21	2 - 4.9	5.2	0.78	Yes	ASL
7440-62-2	VANADIUM	36.2	69.7	mg/kg	TRL0103 / SSLF0120	20 / 21	1 - 61.3	69.7	390	No	BSL
7440-66-6	ZINC	61.9	4,730	mg/kg	TRL0101 / SSLF0106	21 / 21	4 - 24.5	4,730	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 21	0.036 - 0.051	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 21	0.072 - 0.1	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 21	0.036 - 0.051	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 21	0.036 - 0.051	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 21	0.036 - 0.051	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	0.29	0.29	mg/kg	TRL0028 / SSLF0128	1 / 21	0.036 - 0.051	0.29	0.22	Yes	ASL
11096-82-5	PCB-1260 (AROCLOR 1260)	0.018	1.6	mg/kg	TRL0801 / SSLF0121	4 / 21	0.036 - 0.051	1.6	0.22	Yes	ASL
94-75-7	2,4-D (DICHLOROPHOXYACETIC ACID)	---	---	mg/kg	---	0 / 2	0.19 - 0.23	---	690	No	ND

Table C-9. Landfill Unit No. 3, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update -Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 21	0.0018 - 0.0026	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 21	0.0018 - 0.0026	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 21	0.0018 - 0.0026	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	0.00083	0.0093	mg/kg	TRL0101 / SSLF0106	5 / 21	0.0018 - 0.0026	0.0093	---	No	NTX
1912-24-9	Atrazine	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	2.1	No	ND
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 21	0.0018 - 0.0026	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	0.0019	0.0019	mg/kg	TRL0601 / SSLF0109	1 / 21	0.0036 - 0.0051	0.0019	---	No	NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 21	0.0018 - 0.0026	---	---	No	ND, NTX
1918-00-9	DICAMBA	---	---	mg/kg	---	0 / 2	0.1 - 0.12	---	1,800	No	ND
60-57-1	DIELDRIN	0.0025	0.024	mg/kg	TRL0601 / SSLF0109	3 / 21	0.0036 - 0.0051	0.024	0.03	No	BSL
1031-07-8	ENDOSULFAN SULFATE	0.00093	0.00093	mg/kg	TRL0601 / SSLF0109	1 / 21	0.0036 - 0.0051	0.00093	---	No	NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 21	0.0036 - 0.0051	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 21	0.0036 - 0.0051	---	---	No	ND, NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 21	0.0036 - 0.0051	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 21	0.0018 - 0.0026	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	0.001	0.011	mg/kg	TRL0101 / SSLF0106	5 / 21	0.0018 - 0.0026	0.011	---	No	NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 21	0.0018 - 0.0026	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 21	0.0018 - 0.0026	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 21	0.018 - 0.026	---	310	No	ND
72-54-8	p,p'-DDD	0.0046	0.0059	mg/kg	SBL0021 / SSLF0012	2 / 21	0.0036 - 0.0051	0.0059	2	No	BSL
72-55-9	p,p'-DDE	0.00085	0.087	mg/kg	SBL0021 / SSLF0012	6 / 21	0.0036 - 0.0051	0.087	1.4	No	BSL
50-29-3	p,p'-DDT	0.002	0.022	mg/kg	SBL0021 / SSLF0012	4 / 21	0.0036 - 0.0051	0.022	1.7	No	BSL
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 21	0.18 - 0.26	---	0.44	No	ND
---	ACTINIUM-228	0.29	0.6	pCi/g	TRL0601 / SSLF0109	21 / 21	0.12 - 0.35	0.6	679	No	BSL
---	ALPHA, GROSS	5.5	13.8	pCi/g	TRL0103 / SSLF0120	13 / 21	4.8 - 7.5	13.8	---	No	NTX
---	BETA, GROSS	10.7	25.8	pCi/g	TRL0031 / SSLF0133	21 / 21	4.8 - 6.6	25.8	---	No	NTX
---	BISMUTH-212	0.24	0.56	pCi/g	TRL0801 / SSLF0121	9 / 21	0.19 - 0.5	0.56	2,800	No	BSL
---	BISMUTH-214	0.185	0.65	pCi/g	TRL0801 / SSLF0121	21 / 21	0.069 - 0.16	0.65	7,950	No	BSL
14762-75-5	CARBON-14	0.45	3.77	pCi/g	SBL0022 / SSLF0025	6 / 21	0.29 - 11	3.77	0.476	Yes	ASL
---	CESIUM-137	0.055	1.67	pCi/g	TRL0031 / SSLF0133	15 / 21	0.029 - 0.071	1.67	0.0615	Yes	ASL
---	COBALT-60	---	---	pCi/g	---	0 / 21	0.029 - 0.073	---	0.0389	No	ND
---	LEAD-210	1.59	1.93	pCi/g	SBL0020 / SSLF0001	2 / 21	1 - 13	1.93	0.335	Yes	ASL
---	LEAD-212	0.217	0.618	pCi/g	TRL0601 / SSLF0109	21 / 21	0.052 - 0.11	0.618	3,550	No	BSL
---	LEAD-214	0.248	0.67	pCi/g	TRL0801 / SSLF0121	21 / 21	0.058 - 0.17	0.67	44,800	No	BSL
---	POTASSIUM-40	5.91	14.8	pCi/g	TRL0031 / SSLF0133	21 / 21	0.37 - 0.81	14.8	0.116	Yes	ASL
---	RADIUM-223	---	---	pCi/g	---	0 / 7	0.49 - 0.99	---	64.6	No	ND
13982-63-3	RADIUM-226	0.21	2.91 J	pCi/g	TRL0103 / SSLF0120	18 / 21	0.051 - 0.26	2.91 J	0.0121	Yes	ASL
10098-97-2	STRONTIUM-90	0.51	5.07	pCi/g	TRL0031 / SSLF0133	7 / 21	0.4 - 1.1	5.07	0.24	Yes	ASL
---	THALLIUM-208	0.076	0.21	pCi/g	TRL0601 / SSLF0109	21 / 21	0.034 - 0.086	0.21	23,100	No	BSL
---	THORIUM-234	0.93	1.14	pCi/g	SBL0020 / SSLF0001	2 / 21	0.65 - 1.3	1.14	280	No	BSL
10028-17-8	TRITIUM (HYDROGEN-3)	0.0809	0.0809	pCi/g	TRL0501 / SSLF0108	1 / 21	0.0222 - 270	0.0809	0.882	No	BSL
---	URANIUM-235	---	---	pCi/g	---	0 / 21	0.17 - 0.32	---	3.95	No	ND
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 20	0.89 - 3.8	---	6,100	No	ND

Table C-9. Landfill Unit No. 3, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update -Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 20	0.89 - 3.8	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	390	No	ND
91-57-6	2-METHYLNAPHTHALENE	0.38	0.38	mg/kg	SBL0021 / SSLF0014	1 / 20	0.36 - 1.5	0.38	310	No	BSL
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 20	0.89 - 3.8	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROENZIDINE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 20	0.89 - 3.8	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 20	0.89 - 3.8	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 20	0.89 - 3.8	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 20	0.89 - 3.8	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	17,000	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	1.5	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	0.22	0.22	mg/kg	SBL0023 / SSLF0041	1 / 20	0.36 - 1.5	0.22	260	No	BSL
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	0.067	0.84	mg/kg	SBL0021 / SSLF0014	4 / 20	0.36 - 1.5	0.84	35	No	BSL
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	15	No	ND
333-41-5	DIAZINON	---	---	mg/kg	---	0 / 2	0.11 - 0.76	---	43	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	0.072	2.8	mg/kg	SBL0023 / SSLF0041	12 / 20	0.36 - 1.5	2.8	6,100	No	BSL
117-84-0	DI-n-OCTYLPHTHALATE	0.021	0.021	mg/kg	SBL0023 / SSLF0041	1 / 20	0.36 - 1.5	0.021	---	No	NTX
206-44-0	FLUORANTHENE	1.1	1.1	mg/kg	SBL0021 / SSLF0014	1 / 20	0.36 - 1.5	1.1	2,300	No	BSL

Table C-9. Landfill Unit No. 3, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update -Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
86-73-7	FLUORENE	1.6	1.6	mg/kg	SBL0021 / SSLF0014	1 / 20	0.36 - 1.5	1.6	2,300	No	BSL
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	510	No	ND
91-20-3	NAPHTHALENE	1.9	1.9	mg/kg	SBL0021 / SSLF0014	1 / 20	0.36 - 1.5	1.9	3.6	No	BSL
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	4.8	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 20	0.89 - 3.8	---	0.89	No	ND
85-01-8	PHENANTHRENE	2.4	2.4	mg/kg	SBL0021 / SSLF0014	1 / 20	0.36 - 1.5	2.4	---	No	NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	18,000	No	ND
129-00-0	PYRENE	1.1	1.1	mg/kg	SBL0021 / SSLF0014	1 / 20	0.36 - 1.5	1.1	1,700	No	BSL
123-73-9	(E)-2-Butenal	---	---	mg/kg	---	0 / 6	0.12 - 0.17	---	0.34	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 20	0.36 - 1.5	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	210	No	ND
75-07-0	ACETALDEHYDE	---	---	mg/kg	---	0 / 6	0.12 - 0.17	---	10	No	ND
67-64-1	ACETONE	0.005	0.056	mg/kg	SBL0021 / SSLF0014	4 / 21	0.011 - 0.015	0.056	61,000	No	BSL
71-43-2	BENZENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	7.3	No	ND
123-72-8	Butanal	0.2	0.53	mg/kg	TRL0103 / SSLF0120	6 / 6	0.12 - 0.17	0.53	---	No	NTX
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	15,000	No	ND
67-66-3	CHLOROFORM	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.29	No	ND
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	5.4	No	ND
50-00-0	FORMALDEHYDE	0.46	1.1	mg/kg	TRL0102 / SSLF0107	6 / 13	0.12 - 0.17	1.1	12,000	No	BSL
66-25-1	HEXANAL	---	---	mg/kg	---	0 / 6	0.15 - 0.22	---	---	No	ND, NTX
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	28,000	No	ND
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	11	No	ND

Table C-9. Landfill Unit No. 3, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update -Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
124-19-6	Nonanal	---	---	mg/kg	---	0 / 6	0.23 - 0.33	---	---	No	ND, NTX
124-13-0	Octanal	---	---	mg/kg	---	0 / 6	0.15 - 0.22	---	---	No	ND, NTX
123-38-6	Propanal	---	---	mg/kg	---	0 / 6	0.12 - 0.17	---	80	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.91	No	ND
110-62-3	Pentanal	---	---	mg/kg	---	0 / 6	0.12 - 0.17	---	---	No	ND, NTX
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 21	0.011 - 0.015	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- - not applicable

Table C-10. Landfill Unit No. 3, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
---	Nitrite, Nitrate-Nonspecific	0.22	26	mg/kg	SBL0036 / SSLF0145	4 / 6	0.2 - 0.25	26	---	No	NTX
7440-36-0	ANTIMONY	---	---	mg/kg	---	0 / 8	0.59 - 15.1	---	31	No	ND
7440-38-2	ARSENIC	5.7	9.2	mg/kg	SBL0036 / SSLF0145	6 / 6	2 - 2.5	9.2	0.39	Yes	ASL
7440-39-3	BARIUM	110	342	mg/kg	SBL0022 / SSLF0035	8 / 8	0.29 - 50.3	342	15,000	No	BSL
7440-41-7	BERYLLIUM	0.45	0.62	mg/kg	SBL0020 / SSLF0008	4 / 6	1 - 1.3	0.62	160	No	BSL
7440-43-9	CADMIUM	0.89	1.5	mg/kg	LF3-2 / SSLF3-2-12.5	2 / 8	0.29 - 1.3	1.5	70	No	BSL
7440-70-2	CALCIUM	3,000	12,100	mg/kg	SBL0020 / SSLF0008	4 / 4	20 - 20	12,100	---	No	NTX
18540-29-9	CHROMIUM, HEXAVALENT	---	---	mg/kg	---	0 / 6	0.2 - 0.25	---	0.29	No	ND
7440-47-3	CHROMIUM, TOTAL	71	140	mg/kg	SBL0035 / SSLF0142	6 / 6	2 - 2.5	140	---	No	NTX
7440-48-4	COBALT	19.1	24.9	mg/kg	SBL0022 / SSLF0040	6 / 6	10 - 12.6	24.9	23	Yes	ASL
7440-50-8	COPPER	36	49	mg/kg	LF3-2 / SSLF3-2-12.5	8 / 8	0.29 - 6.3	49	3,100	No	BSL
7439-89-6	IRON	35,200	42,000	mg/kg	SBL0021 / SSLF0019	4 / 4	20 - 20	42,000	55,000	No	BSL
7439-92-1	LEAD	7	9.2	mg/kg	SBL0020 / SSLF0008	6 / 6	0.6 - 0.75	9.2	80	No	BSL
7439-95-4	MAGNESIUM	13,400	19,900	mg/kg	SBL0021 / SSLF0019	4 / 4	3 - 3	19,900	---	No	NTX
7439-96-5	MANGANESE	330	370	mg/kg	LF3-2 / SSLF3-2-12.5	2 / 2	0.3 - 2.7	370	1,800	No	BSL
7439-97-6	MERCURY	0.12	0.19	mg/kg	SBL0022 / SSLF0035	3 / 6	0.1 - 0.12	0.19	10	No	BSL
7439-98-7	MOLYBDENUM	0.29	0.34	mg/kg	SBL0022 / SSLF0040	3 / 6	2 - 50.3	0.34	390	No	BSL
7440-02-0	NICKEL	131	230	mg/kg	SBL0036 / SSLF0145	6 / 6	8 - 10.1	230	1,500	No	BSL
7440-09-7	POTASSIUM	1,540	3,290	mg/kg	SBL0022 / SSLF0040	4 / 4	20 - 20	3,290	---	No	NTX
7782-49-2	SELENIUM	0.9	0.92	mg/kg	SBL0021 / SSLF0019	2 / 6	1 - 1.3	0.92	390	No	BSL
7440-22-4	SILVER	---	---	mg/kg	---	0 / 8	0.29 - 2.5	---	390	No	ND
7440-23-5	SODIUM	465	740	mg/kg	SBL0021 / SSLF0019	4 / 4	20 - 20	740	---	No	NTX
7440-28-0	THALLIUM	0.92	0.99	mg/kg	SBL0020 / SSLF0008	4 / 6	2 - 2.5	0.99	0.78	Yes	ASL
7440-62-2	VANADIUM	57.8	81	mg/kg	SBL0036 / SSLF0145	6 / 6	1 - 12.6	81	390	No	BSL
7440-66-6	ZINC	66	89	mg/kg	SBL0036 / SSLF0145	6 / 6	4 - 5	89	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 6	0.039 - 0.043	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 6	0.078 - 0.085	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 6	0.039 - 0.043	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 6	0.039 - 0.043	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 6	0.039 - 0.043	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	---	---	mg/kg	---	0 / 6	0.039 - 0.043	---	0.22	No	ND
11096-82-5	PCB-1260 (AROCLOR 1260)	---	---	mg/kg	---	0 / 6	0.039 - 0.043	---	0.22	No	ND
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	---	No	ND, NTX
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	---	No	ND, NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	---	No	ND, NTX
60-57-1	DIELDRIN	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	0.03	No	ND
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	---	No	ND, NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	---	No	ND, NTX

Table C-10. Landfill Unit No. 3, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 6	0.0019 - 0.0021	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 6	0.019 - 0.021	---	310	No	ND
72-54-8	p,p'-DDD	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	2	No	ND
72-55-9	p,p'-DDE	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	1.4	No	ND
50-29-3	p,p'-DDT	---	---	mg/kg	---	0 / 6	0.0039 - 0.0043	---	1.7	No	ND
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 6	0.19 - 0.21	---	0.44	No	ND
---	ACTINIUM-228	0.31	0.71	pCi/g	SBL0022 / SSLF0040	6 / 6	0.12 - 0.26	0.71	679	No	BSL
---	ALPHA, GROSS	7.3	11.2	pCi/g	SBL0022 / SSLF0035	4 / 6	5.4 - 6.5	11.2	---	No	NTX
---	BETA, GROSS	13.9	20.4	pCi/g	SBL0022 / SSLF0040	6 / 6	5 - 5.7	20.4	---	No	NTX
---	BISMUTH-212	0.36	0.62	pCi/g	SBL0022 / SSLF0035	3 / 6	0.19 - 0.44	0.62	2,800	No	BSL
---	BISMUTH-214	0.39	0.63	pCi/g	SBL0022 / SSLF0035	6 / 6	0.065 - 0.13	0.63	7,950	No	BSL
14762-75-5	CARBON-14	1.29	1.29	pCi/g	SBL0022 / SSLF0040	1 / 8	0.22 - 1.9	1.29	0.476	Yes	ASL
---	CESIUM-137	---	---	pCi/g	---	0 / 6	0.027 - 0.064	---	0.0615	No	ND
---	COBALT-60	---	---	pCi/g	---	0 / 6	0.03 - 0.069	---	0.0389	No	ND
---	LEAD-210	1.38	1.38	pCi/g	SBL0021 / SSLF0019	1 / 6	1.2 - 3.4	1.38	0.335	Yes	ASL
---	LEAD-212	0.323	0.84	pCi/g	SBL0022 / SSLF0035	6 / 6	0.057 - 0.096	0.84	3,550	No	BSL
---	LEAD-214	0.452	0.73	pCi/g	SBL0022 / SSLF0035	6 / 6	0.059 - 0.12	0.73	44,800	No	BSL
---	POTASSIUM-40	11	13.8	pCi/g	SBL0035 / SSLF0142	6 / 6	0.35 - 0.67	13.8	0.116	Yes	ASL
---	RADIUM-223	---	---	pCi/g	---	0 / 2	0.99 - 1	---	64.6	No	ND
13982-63-3	RADIUM-226	0.23	1.07	pCi/g	SBL0036 / SSLF0145	5 / 6	0.19 - 0.25	1.07	0.0121	Yes	ASL
10098-97-2	STRONTIUM-90	---	---	pCi/g	---	0 / 8	0.47 - 1	---	0.24	No	ND
---	THALLIUM-208	0.17	0.29	pCi/g	SBL0036 / SSLF0145	6 / 6	0.034 - 0.056	0.29	23,100	No	BSL
---	THORIUM-234	---	---	pCi/g	---	0 / 6	1.1 - 1.4	---	280	No	ND
10028-17-8	TRITIUM (HYDROGEN-3)	---	---	pCi/g	0	0 / 8	0.0317 - 270	---	0.882	No	ND
---	URANIUM-235 and 236	0.06	0.06 J	pCi/g	LF3-2 / SSLF3-2-12.5	1 / 2	0.2 - 0.2	0.06 J	3.95	No	BSL
---	URANIUM-235	---	---	pCi/g	---	0 / 6	0.18 - 0.27	---	3.95	No	ND
---	URANIUM-238	0.38	0.45	pCi/g	LF3-2 / SSLF3-2-20	2 / 2	0.2 - 0.2	0.45	0.696	No	BSL
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 6	0.99 - 1.1	---	6,100	No	ND
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 6	0.99 - 1.1	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	390	No	ND
91-57-6	2-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	310	No	ND
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 6	0.99 - 1.1	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 6	0.99 - 1.1	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 6	0.99 - 1.1	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX

Table C-10. Landfill Unit No. 3, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 6	0.99 - 1.1	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 6	0.99 - 1.1	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	17,000	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	1.5	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	0.1	0.1	mg/kg	SBL0021 / SSLF0019	1 / 6	0.4 - 0.43	0.1	35	No	BSL
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	15	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	0.088	2.6	mg/kg	SBL0022 / SSLF0035	4 / 6	0.4 - 0.43	2.6	6,100	No	BSL
117-84-0	DI-n-OCTYLPHthalate	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
206-44-0	FLUORANTHENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	2,300	No	ND
86-73-7	FLUORENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	2,300	No	ND
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	4.8	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 6	0.99 - 1.1	---	0.89	No	ND
85-01-8	PHENANTHRENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	---	No	ND, NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	18,000	No	ND
129-00-0	PYRENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	1,700	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	8,700	No	ND
79-34-5	1,1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	3.3	No	ND

Table C-10. Landfill Unit No. 3, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Landfill Unit No. 3

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 6	0.4 - 0.43	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	210	No	ND
67-64-1	ACETONE	0.012	0.04	mg/kg	SBL0022 / SSLF0033RE	4 / 7	0.012 - 0.013	0.04	61,000	No	BSL
71-43-2	BENZENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	7.3	No	ND
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	15,000	No	ND
67-66-3	CHLOROFORM	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.29	No	ND
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	5.4	No	ND
50-00-0	FORMALDEHYDE	---	---	mg/kg	---	0 / 4	1 - 1	---	12,000	No	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	28,000	No	ND
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	11	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.91	No	ND
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 7	0.012 - 0.013	---	630	No	ND

Notes:
¹ Concentration used for screening is the maximum concentration detected.
² Screening value from Table C-2.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- - not applicable

Table C-11. Southern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
122-66-7	1,2-DIPHENYLHYDRAZINE	---	---	mg/kg	---	0 / 9	0.34 - 3.5	---	0.61	No	ND
98-86-2	ACETOPHENONE	---	---	mg/kg	---	0 / 9	0.34 - 3.5	---	7,800	No	ND
62-53-3	ANILINE (PHENYLAMINE, AMINO BENZENE)	---	---	mg/kg	---	0 / 9	0.34 - 3.5	---	85	No	ND
---	Nitrate	1.36	1.85 J	mg/kg	SBL-442 / SSUT0105	4 / 6	1.04 - 1.08	1.85 J	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	0.24	190	mg/kg	TRL0024 / SSUT0036	12 / 15	0.2 - 1.08	190	---	No	NTX
---	NITROGEN, AMMONIA (AS N)	2.08	12.5	mg/kg	SBL-439 / SSUT0102	9 / 9	1.03 - 1.08	12.5	---	No	NTX
---	TOTAL KJELDAHL NITROGEN	146	829	mg/kg	SBL-442 / SSUT0105	9 / 9	10.3 - 53.7	829	---	No	NTX
7440-36-0	ANTIMONY	---	---	mg/kg	---	0 / 21	0.46 - 14.4	---	31	No	ND
7440-38-2	ARSENIC	4.7	9.3	mg/kg	TRL0026 / SSUT0041	21 / 21	0.377 - 2.4	9.3	0.39	Yes	ASL
7440-39-3	BARIUM	111	239	mg/kg	TRL0026 / SSUT0041	21 / 21	0.018 - 48.1	239	15,000	No	BSL
7440-41-7	BERYLLIUM	0.277	0.486	mg/kg	SBL-443 / SSUT0106	9 / 21	0.018 - 1.2	0.486	160	No	BSL
---	BERYLLIUM-7	---	---	pCi/g	---	0 / 9	0.2 - 0.347	---	75.6	No	ND
7440-43-9	CADMIUM	0.032	0.032	mg/kg	SBL-442 / SSUT0105	1 / 21	0.02 - 1.2	0.032	70	No	BSL
18540-29-9	CHROMIUM, HEXA VALENT	---	---	mg/kg	---	0 / 21	0.2 - 1.12	---	0.29	No	ND
7440-47-3	CHROMIUM, TOTAL	89.3	181	mg/kg	SBL-439 / SSUT0102	21 / 21	0.051 - 2.4	181	---	No	NTX
7440-48-4	COBALT	13.5	24	mg/kg	TRL0026 / SSUT0041	21 / 21	0.055 - 12	24	23	Yes	ASL
7440-50-8	COPPER	24.1	49.6	mg/kg	TRL0026 / SSUT0041	21 / 21	0.124 - 6	49.6	3,100	No	BSL
7439-89-6	IRON	26,500	37,100	mg/kg	SBL-443 / SSUT0106	9 / 9	0.2 - 0.225	37,100	55,000	No	BSL
7439-92-1	LEAD	3.7	25.7	mg/kg	SBL-445 / SSUT0108	21 / 21	0.118 - 0.72	25.7	80	No	BSL
7439-96-5	MANGANESE	469	615	mg/kg	SBL-443 / SSUT0106	9 / 9	0.035 - 0.039	615	1,800	No	BSL
7439-97-6	MERCURY	0.089	1.58 J	mg/kg	SBL-438 / SSUT0101	20 / 21	0.002 - 0.29	1.58 J	10	No	BSL
7439-98-7	MOLYBDENUM	0.128	0.312	mg/kg	SBL-443 / SSUT0106	9 / 21	0.11 - 48.1	0.312	390	No	BSL
7440-02-0	NICKEL	102	333	mg/kg	TRL0024 / SSUT0036	21 / 21	0.08 - 9.6	333	1,500	No	BSL
7782-49-2	SELENIUM	0.288	2.8	mg/kg	TRL0026 / SSUT0041	12 / 21	0.254 - 2.1	2.8	390	No	BSL
7440-22-4	SILVER	1.3	1.3	mg/kg	TRL0025 / SSUT0037	1 / 21	0.109 - 2.4	1.3	390	No	BSL
7440-28-0	THALLIUM	0.497	1.14	mg/kg	SBL-444 / SSUT0107	3 / 21	0.473 - 2.4	1.14	0.78	Yes	ASL
7440-62-2	VANADIUM	36.7	74.3	mg/kg	TRL0026 / SSUT0041	21 / 21	0.075 - 12	74.3	390	No	BSL
7440-66-6	ZINC	52	142	mg/kg	SBL-442 / SSUT0105	21 / 21	0.12 - 4.8	142	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 12	0.035 - 0.04	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 12	0.07 - 0.08	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 12	0.035 - 0.04	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 12	0.035 - 0.04	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 12	0.035 - 0.04	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	---	---	mg/kg	---	0 / 12	0.035 - 0.04	---	0.22	No	ND
11096-82-5	PCB-1260 (AROCLOR 1260)	---	---	mg/kg	---	0 / 12	0.035 - 0.04	---	0.22	No	ND
877-09-8	2,4,5,6-TETRACHLORO-META-XYLENE	0.026	0.03	mg/kg	SBL-442 / SSUT0105	3 / 3	---	0.03	---	No	NTX
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 21	0.00068 - 0.0036	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	0.032	mg/kg	SBL-443 / SSUT0106	6 / 21	0.00071 - 0.0035	0.032	0.077	No	BSL
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 21	0.00068 - 0.0036	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	0.0012	0.076	mg/kg	TRL0024 / SSUT0035	8 / 21	0.00068 - 0.014	0.076	---	No	NTX
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 21	0.00068 - 0.0036	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 21	0.0014 - 0.0072	---	---	No	ND, NTX
57-74-9	CHLORDANE	0.07	0.14	mg/kg	SBL-440 / SSUT0103	4 / 9	0.0085 - 0.045	0.14	1.6	No	BSL
2051-24-3	DECACHLOROBIPHENYL	0.02	0.034	mg/kg	SBL-445 / SSUT0109	9 / 9	---	0.034	---	No	NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 21	0.00068 - 0.0036	---	---	No	ND, NTX
60-57-1	DIELDRIN	---	---	mg/kg	---	0 / 21	0.0014 - 0.0072	---	0.03	No	ND
1031-07-8	ENDOSULFAN SULFATE	---	0.00075	mg/kg	SBL-442 / SSUT0105	1 / 21	0.0014 - 0.0072	0.00075	---	No	NTX

Table C-11. Southern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
72-20-8	ENDRIN		0.034	mg/kg	SBL-445 / SSUT0109	2 / 21	0.0014 - 0.0072	0.034	18	No	BSL
7421-93-4	ENDRIN ALDEHYDE		0.0023	mg/kg	SBL-442 / SSUT0105	1 / 21	0.0014 - 0.0072	0.0023	---	No	NTX
53494-70-5	ENDRIN KETONE		0.013	mg/kg	SBL-445 / SSUT0109	2 / 21	0.0014 - 0.0072	0.013	---	No	NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 21	0.00068 - 0.0036	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	0.0019	0.082	mg/kg	TRL0024 / SSUT0035	10 / 21	0.00068 - 0.014	0.082	---	No	NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 21	0.00068 - 0.0036	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 21	0.00068 - 0.0036	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 21	0.0068 - 0.036	---	310	No	ND
72-54-8	p,p'-DDD	0.00054	0.022	mg/kg	TRL0024 / SSUT0035	2 / 21	0.0014 - 0.0072	0.022	2	No	BSL
72-55-9	p,p'-DDE	0.014	0.014	mg/kg	SBL0038 / SSUT0069	1 / 21	0.0014 - 0.0072	0.014	1.4	No	BSL
50-29-3	p,p'-DDT	0.0048	0.018	mg/kg	TRL0025 / SSUT0038	4 / 21	0.0014 - 0.0072	0.018	1.7	No	BSL
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 21	0.034 - 0.2	---	0.44	No	ND
---	ACTINIUM-228	0.31	0.64	pCi/g	TRL0026 / SSUT0041	19 / 19	0.0749 - 0.26	0.64	679	No	BSL
---	ALPHA, GROSS	3.76	9	pCi/g	SBL0034 / SSUT0057	13 / 21	2.32 - 9.6	9	---	No	NTX
---	AMERICIUM-241	---	---	pCi/g	---	0 / 9	0.0501 - 0.143	---	1.8	No	ND
---	ANTIMONY-124	---	---	pCi/g	---	0 / 9	0.0254 - 0.042	---	1.63	No	ND
---	ANTIMONY-125	---	---	pCi/g	---	0 / 9	0.0574 - 0.0902	---	0.472	No	ND
---	BARIUM-133	---	---	pCi/g	---	0 / 9	0.0263 - 0.0388	---	0.172	No	ND
---	BARIUM-140	---	---	pCi/g	---	0 / 9	0.168 - 0.27	---	87.3	No	ND
---	BETA, GROSS	7.2	17	pCi/g	SBL0037 / SSUT0066	21 / 21	3.89 - 6.5	17	---	No	NTX
---	BISMUTH-212	0.19	0.557	pCi/g	SBL-443 / SSUT0106	5 / 20	0.168 - 0.48	0.557	2,800	No	BSL
---	BISMUTH-214	0.251	0.532	pCi/g	SBL-440 / SSUT0103	21 / 21	0.0415 - 0.11	0.532	7,950	No	BSL
14762-75-5	CARBON-14	15.1	15.1	pCi/g	TRL0024 / SSUT0035	1 / 21	0.944 - 11	15.1	0.476	Yes	ASL
---	CERIUM-139	---	---	pCi/g	---	0 / 9	0.0188 - 0.0248	---	12.8	No	ND
---	CERIUM-141	---	---	pCi/g	---	0 / 8	0.0423 - 0.0521	---	109	No	ND
---	CERIUM-144	---	---	pCi/g	---	0 / 8	0.132 - 0.169	---	11.6	No	ND
---	CESIUM-134	---	---	pCi/g	---	0 / 9	0.0204 - 0.0345	---	0.163	No	ND
---	CESIUM-137	0.0426	0.07	pCi/g	TRL0024 / SSUT0035	4 / 21	0.0219 - 0.056	0.07	0.0615	Yes	ASL
---	CHROMIUM-51	---	---	pCi/g	---	0 / 9	0.225 - 0.348	---	239	No	ND
---	COBALT-56	---	---	pCi/g	---	0 / 9	0.0231 - 0.0448	---	0.651	No	ND
---	COBALT-57	---	---	pCi/g	---	0 / 9	0.0172 - 0.0204	---	8.09	No	ND
---	COBALT-58	---	---	pCi/g	---	0 / 9	0.0226 - 0.0425	---	2.77	No	ND
---	COBALT-60	---	---	pCi/g	---	0 / 21	0.02 - 0.068	---	0.0389	No	ND
---	EUROPIUM-155	---	---	pCi/g	---	0 / 9	0.0734 - 0.0847	---	3.63	No	ND
---	EUROPIUM-152; ISOTOPE	---	---	pCi/g	---	0 / 9	0.0614 - 0.0913	---	0.0406	No	ND
---	EUROPIUM-154; ISOTOPE	---	---	pCi/g	---	0 / 9	0.0727 - 0.131	---	0.0479	No	ND
---	IRIDIUM-192	---	---	pCi/g	---	0 / 9	0.022 - 0.0338	---	3.15	No	ND
---	IRON-59	---	---	pCi/g	---	0 / 9	0.055 - 0.101	---	3.49	No	ND
---	LEAD-210	0.823	3.75 J	pCi/g	SBL-442 / SSUT0105	4 / 21	0.414 - 11	3.75 J	0.335	Yes	ASL
---	LEAD-212	0.275	0.586	pCi/g	TRL0025 / SSUT0038	21 / 21	0.036 - 0.083	0.586	3,550	No	BSL
---	LEAD-214	0.293	0.614	pCi/g	SBL-440 / SSUT0103	21 / 21	0.0421 - 0.11	0.614	44,800	No	BSL
---	MANGANESE-54	---	---	pCi/g	---	0 / 9	0.0221 - 0.0411	---	0.726	No	ND
---	MERCURY-203	---	---	pCi/g	---	0 / 5	0.0274 - 0.0371	---	18.2	No	ND
---	NEPTUNIUM-239	---	---	pCi/g	---	0 / 9	0.124 - 0.155	---	626	No	ND
---	NIOBIUM-94	---	---	pCi/g	---	0 / 9	0.0217 - 0.0371	---	0.016	No	ND
---	NIOBIUM-95	---	---	pCi/g	---	0 / 9	0.0306 - 0.0554	---	7.1	No	ND
---	POTASSIUM-40	5.64	12	pCi/g	SBL-439 / SSUT0102	21 / 21	0.221 - 0.68	12	0.116	Yes	ASL
---	PROMETHIUM-144	---	---	pCi/g	---	0 / 9	0.0219 - 0.0359	---	0.347	No	ND

Table C-11. Southern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
---	PROMETHIUM-146	---	---	pCi/g	---	0 / 9	0.0287 - 0.0424	---	0.134	No	ND
---	RADIUM-223	---	---	pCi/g	---	0 / 12	0.45 - 0.89	---	64.6	No	ND
13982-63-3	RADIUM-226	0.328	2.07	pCi/g	TRL0025 / SSUT0038	20 / 21	0.0415 - 0.27	2.07	0.0121	Yes	ASL
---	RADIUM-228	0.302	0.489	pCi/g	SBL-440 / SSUT0103	9 / 9	0.0749 - 0.15	0.489	0.0292	Yes	ASL
---	RUTHENIUM-106	---	---	pCi/g	---	0 / 8	0.206 - 0.282	---	2.29	No	ND
---	SODIUM-22	---	---	pCi/g	---	0 / 9	0.026 - 0.0468	---	0.0902	No	ND
10098-97-2	STRONTIUM-90	---	---	pCi/g	---	0 / 21	0.288 - 0.712	---	0.24	No	ND
---	THALLIUM-208	0.084	0.213	pCi/g	SBL0037 / SSUT0065	21 / 21	0.0214 - 0.064	0.213	23,100	No	BSL
---	THORIUM-228	0.322	1	pCi/g	SBL-440 / SSUT0103	8 / 9	0.116 - 0.265	1	23	No	BSL
---	THORIUM-230	0.355	0.788	pCi/g	SBL-440 / SSUT0103	9 / 9	0.0289 - 0.232	0.788	3.46	No	BSL
---	THORIUM-232	0.202	0.487	pCi/g	SBL-443 / SSUT0106	9 / 9	0.0198 - 0.133	0.487	3.07	No	BSL
---	THORIUM-234	0.836	1.33 J	pCi/g	SBL-445 / SSUT0109	4 / 21	0.469 - 1.5	1.33 J	280	No	BSL
---	TIN-113	---	---	pCi/g	---	0 / 9	0.0284 - 0.0417	---	302	No	ND
10028-17-8	TRITIUM (HYDROGEN-3)	0.0363	0.0363	pCi/g	TRL0026 / SSUT0039	1 / 21	0.0264 - 7.88	0.0363	0.882	No	BSL
---	URANIUM-235 and 236	0.0506	0.0506 J	pCi/g	SBL-444 / SSUT0107	1 / 9	0.0379 - 0.353	0.0506 J	3.95	No	BSL
---	URANIUM-235	0.16	0.16 J	pCi/g	SBL-444 / SSUT0107	1 / 21	0.142 - 0.24	0.16 J	3.95	No	BSL
---	URANIUM-238	0.145	0.474 J	pCi/g	SBL-440 / SSUT0103	9 / 9	0.0357 - 0.373	0.474 J	0.696	No	BSL
---	YTTRIUM-88	---	---	pCi/g	---	0 / 9	0.0188 - 0.0399	---	0.591	No	ND
---	ZINC-65	---	---	pCi/g	---	0 / 9	0.0505 - 0.0948	---	1.25	No	ND
---	ZIRCONIUM-95	---	---	pCi/g	---	0 / 9	0.0455 - 0.0734	---	4.04	No	ND
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
1074-55-1	1-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 9	0.034 - 0.35	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	6,100	No	ND
118-79-6	2,4,6-TRIBROMOPHENOL	2.1	3.5	mg/kg	SBL-445 / SSUT0108	9 / 9	---	3.5	---	No	NTX
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 21	0.68 - 7	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	390	No	ND
321-60-8	2-FLUOROBIPHENYL	0.98	1.8	mg/kg	SBL-445 / SSUT0108	9 / 9	---	1.8	---	No	NTX
367-12-4	2-FLUOROPHENOL	1.6	3	mg/kg	SBL-445 / SSUT0108	9 / 9	---	3	---	No	NTX
91-57-6	2-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	310	No	ND
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	24	No	ND

Table C-11. Southern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	17,000	No	ND
92-87-5	BENZIDINE	---	---	mg/kg	---	0 / 9	1.7 - 17.6	---	0.0005	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	1.5	No	ND
65-85-0	BENZOIC ACID	---	---	mg/kg	---	0 / 9	0.68 - 7	---	240,000	No	ND
100-51-6	BENZYL ALCOHOL	---	---	mg/kg	---	0 / 9	0.34 - 3.5	---	6,100	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	35	No	ND
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	15	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	6,100	No	ND
117-84-0	DI-n-OCTYLPHTHALATE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	---	No	ND, NTX
122-39-4	DIPHENYLAMINE	---	---	mg/kg	---	0 / 9	0.34 - 3.5	---	1,500	No	ND
206-44-0	FLUORANTHENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	2,300	No	ND
86-73-7	FLUORENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	2,300	No	ND
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	4.8	No	ND
62-75-9	N-NITROSODIMETHYLAMINE	---	---	mg/kg	---	0 / 9	0.34 - 3.5	---	0.0023	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 12	0.35 - 0.4	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	0.89	No	ND
85-01-8	PHENANTHRENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	---	No	ND, NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	18,000	No	ND
129-00-0	PYRENE	---	---	mg/kg	---	0 / 21	0.034 - 0.4	---	1,700	No	ND
110-86-1	PYRIDINE	---	---	mg/kg	---	0 / 9	0.34 - 3.5	---	78	No	ND
126-73-8	TRIBUTYL PHOSPHATE	---	---	mg/kg	---	0 / 9	0.34 - 3.5	---	54	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 21	0.34 - 3.5	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	210	No	ND
67-64-1	ACETONE	0.11	0.11	mg/kg	SBL0038 / SSUT0069	1 / 12	0.01 - 0.055	0.11	61,000	No	BSL

Table C-11. Southern Trenches, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
71-43-2	BENZENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	7.3	No	ND
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	15,000	No	ND
67-66-3	CHLOROFORM	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.29	No	ND
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	5.4	No	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	28,000	No	ND
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	11	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.91	No	ND
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 12	0.01 - 0.012	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

^a Reporting limits not provided.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- - not applicable

Table C-12. Southern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
---	Nitrite, Nitrate-Nonspecific	29	49	mg/kg	SBL0034 / SSUT0058	2 / 2	0.2 - 0.23	49	---	No	NTX
7440-36-0	ANTIMONY	---	---	mg/kg	---	0 / 2	13.6 - 14	---	31	No	ND
7440-38-2	ARSENIC	8.5	8.8	mg/kg	SBL0038 / SSUT0072	2 / 2	2.3 - 2.3	8.8	0.39	Yes	ASL
7440-39-3	BARIUM	220	220	mg/kg	SBL0038 / SSUT0072	2 / 2	45.5 - 46.6	220	15,000	No	BSL
7440-41-7	BERYLLIUM	---	---	mg/kg	---	0 / 2	1.1 - 1.2	---	160	No	ND
7440-43-9	CADMIUM	---	---	mg/kg	---	0 / 2	1.1 - 1.2	---	70	No	ND
18540-29-9	CHROMIUM, HEXAVALENT	---	---	mg/kg	---	0 / 2	0.2 - 0.23	---	0.29	No	ND
7440-47-3	CHROMIUM, TOTAL	95	110	mg/kg	SBL0034 / SSUT0058	2 / 2	2.3 - 2.3	110	---	No	NTX
7440-48-4	COBALT	22	25	mg/kg	SBL0038 / SSUT0072	2 / 2	11.4 - 11.7	25	23	Yes	ASL
7440-50-8	COPPER	46	53	mg/kg	SBL0038 / SSUT0072	2 / 2	5.7 - 5.8	53	3,100	No	BSL
7439-92-1	LEAD	8.2	8.7	mg/kg	SBL0034 / SSUT0058	2 / 2	0.68 - 0.7	8.7	80	No	BSL
7439-97-6	MERCURY	0.098	0.098	mg/kg	SBL0034 / SSUT0058	1 / 2	0.098 - 0.11	0.098	10	No	BSL
7439-98-7	MOLYBDENUM	---	---	mg/kg	---	0 / 2	45.5 - 46.6	---	390	No	ND
7440-02-0	NICKEL	200	210	mg/kg	SBL0038 / SSUT0072	2 / 2	9.1 - 9.3	210	1,500	No	BSL
7782-49-2	SELENIUM	2	2	mg/kg	SBL0038 / SSUT0072	1 / 2	1.1 - 1.2	2	390	No	BSL
7440-22-4	SILVER	---	---	mg/kg	---	0 / 2	2.3 - 2.3	---	390	No	ND
7440-28-0	THALLIUM	---	---	mg/kg	---	0 / 2	2.3 - 2.3	---	0.78	No	ND
7440-62-2	VANADIUM	70	72	mg/kg	SBL0038 / SSUT0072	2 / 2	11.4 - 11.7	72	390	No	BSL
7440-66-6	ZINC	84	92	mg/kg	SBL0038 / SSUT0072	2 / 2	4.5 - 4.7	92	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 2	0.039 - 0.039	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 2	0.078 - 0.078	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 2	0.039 - 0.039	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 2	0.039 - 0.039	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 2	0.039 - 0.039	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	---	---	mg/kg	---	0 / 2	0.039 - 0.039	---	0.22	No	ND
11096-82-5	PCB-1260 (AROCLOR 1260)	---	---	mg/kg	---	0 / 2	0.039 - 0.039	---	0.22	No	ND
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	---	No	ND, NTX
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	---	No	ND, NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	---	No	ND, NTX
60-57-1	DIELDRIN	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	0.03	No	ND
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	---	No	ND, NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	---	No	ND, NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	0.11	No	ND

Table C-12. Southern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 2	0.0019 - 0.002	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 2	0.019 - 0.02	---	310	No	ND
72-54-8	p,p'-DDD	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	2	No	ND
72-55-9	p,p'-DDE	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	1.4	No	ND
50-29-3	p,p'-DDT	---	---	mg/kg	---	0 / 2	0.0039 - 0.0039	---	1.7	No	ND
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 2	0.19 - 0.2	---	0.44	No	ND
---	ACTINIUM-228	0.74	0.77	pCi/g	SBL0038 / SSUT0072	2 / 2	0.17 - 0.21	0.77	679	No	BSL
---	ALPHA, GROSS	10.2	10.2	pCi/g	SBL0034 / SSUT0058	1 / 2	6.5 - 8.1	10.2	---	No	NTX
---	BETA, GROSS	14.4	17.5	pCi/g	SBL0038 / SSUT0072	2 / 2	5.5 - 5.9	17.5	---	No	NTX
---	BISMUTH-212	0.5	0.73	pCi/g	SBL0038 / SSUT0072	2 / 2	0.29 - 0.33	0.73	2,800	No	BSL
---	BISMUTH-214	0.55	0.61	pCi/g	SBL0038 / SSUT0072	2 / 2	0.11 - 0.11	0.61	7,950	No	BSL
14762-75-5	CARBON-14	---	---	pCi/g	---	0 / 2	1 - 1	---	0.476	No	ND
---	CESIUM-137	---	---	pCi/g	---	0 / 2	0.053 - 0.054	---	0.0615	No	ND
---	COBALT-60	---	---	pCi/g	---	0 / 2	0.05 - 0.059	---	0.0389	No	ND
---	LEAD-210	---	---	pCi/g	---	0 / 2	1.2 - 1.3	---	0.335	No	ND
---	LEAD-212	0.597	0.75	pCi/g	SBL0038 / SSUT0072	2 / 2	0.081 - 0.092	0.75	3,550	No	BSL
---	LEAD-214	0.6	0.643	pCi/g	SBL0034 / SSUT0058	2 / 2	0.097 - 0.11	0.643	44,800	No	BSL
---	POTASSIUM-40	11.3	11.8	pCi/g	SBL0038 / SSUT0072	2 / 2	0.46 - 0.56	11.8	0.116	Yes	ASL
---	RADIUM-223	---	---	pCi/g	---	0 / 2	0.83 - 0.95	---	64.6	No	ND
13982-63-3	RADIUM-226	0.56	0.6	pCi/g	SBL0038 / SSUT0072	2 / 2	0.18 - 0.22	0.6	0.0121	Yes	ASL
10098-97-2	STRONTIUM-90	---	---	pCi/g	---	0 / 2	0.52 - 0.53	---	0.24	No	ND
10028-17-8	TRITIUM (HYDROGEN-3)	---	---	pCi/g	---	0 / 2	0.033 - 0.0363	---	0.882	No	ND
---	THALLIUM-208	0.224	0.23	pCi/g	SBL0038 / SSUT0072	2 / 2	0.049 - 0.059	0.23	23,100	No	BSL
---	THORIUM-234	---	---	pCi/g	---	0 / 2	1.2 - 1.3	---	280	No	ND
---	URANIUM-235	---	---	pCi/g	---	0 / 2	0.23 - 0.26	---	3.95	No	ND
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 2	0.93 - 0.94	---	6,100	No	ND
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 2	0.93 - 0.94	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	390	No	ND
91-57-6	2-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	310	No	ND
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 2	0.93 - 0.94	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 2	0.93 - 0.94	---	---	No	ND, NTX

Table C-12. Southern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 2	0.93 - 0.94	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 2	0.93 - 0.94	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 2	0.93 - 0.94	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	17,000	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	1.5	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	35	No	ND
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	15	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	6,100	No	ND
117-84-0	DI-n-OCTYLPHTHALATE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
206-44-0	FLUORANTHENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	2,300	No	ND
86-73-7	FLUORENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	2,300	No	ND
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	4.8	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 2	0.93 - 0.94	---	0.89	No	ND

Table C-12. Southern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
85-01-8	PHENANTHRENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	---	No	ND, NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	18,000	No	ND
129-00-0	PYRENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	1,700	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 2	0.38 - 0.39	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	210	No	ND
67-64-1	ACETONE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	61,000	No	ND
71-43-2	BENZENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	1.1	No	ND
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	7.3	No	ND
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	15,000	No	ND
67-66-3	CHLOROFORM	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.29	No	ND
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	5.4	No	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	28,000	No	ND
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	11	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.91	No	ND
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 2	0.012 - 0.012	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Table C-12. Southern Trenches, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Southern Trenches

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
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Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- - not applicable

Table C-13. Waste Burial Holes, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Waste Burial Holes

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
143-50-0	KEPONE	---	---	mg/kg	---	0 / 7	0.363 - 0.388	---	0.049	No	ND
---	Nitrate	3.8	31.9	mg/kg	SBL-372 / SBL-372-COMP	7 / 7	0.55 - 0.587	31.9	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	0.5	47	mg/kg	TRL0049 / SSWB0001	10 / 10	0.2 - 1.08	47	---	No	NTX
---	TOTAL KJELDAHL NITROGEN	65.7	104 J	mg/kg	SSGT0006 / S99092102	2 / 2	21.2 - 21.6	104 J	---	No	NTX
7440-36-0	ANTIMONY	0.404	0.404 J	mg/kg	SBL-375 / SBL-375-COMP	1 / 15	0.275 - 15.21	0.404 J	31	No	BSL
7440-38-2	ARSENIC	4.4	12.9	mg/kg	TRL0050 / SSWB0004	17 / 17	0.242 - 2.53	12.9	0.39	Yes	ASL
7440-39-3	BARIUM	101	254	mg/kg	TRL0049 / SSWB0002	17 / 17	0.017 - 50.69	254	15,000	No	BSL
7440-41-7	BERYLLIUM	0.418	0.5	mg/kg	SBL-371 / SBL-371-COMP	9 / 17	0.016 - 1.27	0.5	160	No	BSL
7440-43-9	CADMIUM	0.11	0.11	mg/kg	SBL-374 / SBL-374-COMP	1 / 17	0.028 - 1.27	0.11	70	No	BSL
18540-29-9	CHROMIUM, HEXAVALENT	0.121	0.469 J	mg/kg	SBL-371 / SBL-371-COMP	7 / 18	0.024 - 1.17	0.469 J	0.29	Yes	ASL
7440-47-3	CHROMIUM, TOTAL	28.4	174	mg/kg	TRL0050 / SSWB0004	17 / 17	0.06 - 2.53	174	---	No	NTX
7440-48-4	COBALT	9.59	27	mg/kg	TRL0049 / SSWB0002	16 / 17	0.044 - 12.67	27	23	Yes	ASL
7440-50-8	COPPER	14.1	116	mg/kg	TRL0050 / SSWB0003	17 / 17	0.061 - 6.34	116	3,100	No	BSL
7439-92-1	LEAD	6.3	64.4	mg/kg	TRL0050 / SSWB0003	17 / 17	0.152 - 0.76	64.4	80	No	BSL
7439-97-6	MERCURY	0.02	1.3	mg/kg	TRL0050 / SSWB0003	16 / 17	0.003 - 0.13	1.3	10	No	BSL
7439-98-7	MOLYBDENUM	0.212	0.508	mg/kg	SBL-375 / SBL-375-COMP	7 / 17	0.133 - 50.69	0.508	390	No	BSL
7440-02-0	NICKEL	22.5	314	mg/kg	SBL-374 / SBL-374-COMP	17 / 17	0.085 - 10.14	314	1,500	No	BSL
7782-49-2	SELENIUM	0.898	2.2	mg/kg	SSWB0019 / SSWB0019	12 / 17	0.304 - 1.27	2.2	390	No	BSL
7440-22-4	SILVER	0.136	2.35	mg/kg	SBL-375 / SBL-375-COMP	5 / 17	0.09 - 2.53	2.35	390	No	BSL
7440-28-0	THALLIUM	0.494	0.629	mg/kg	SBL-375 / SBL-375-COMP	2 / 17	0.31 - 113.68	0.629	0.78	No	BSL
7440-62-2	VANADIUM	37	76.2	mg/kg	TRL0049 / SSWB0002	17 / 17	0.066 - 12.67	76.2	390	No	BSL
7440-66-6	ZINC	32.1	251	mg/kg	TRL0050 / SSWB0003	17 / 17	0.075 - 5.07	251	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 17	0.0035 - 0.044	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 17	0.0035 - 0.088	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 17	0.0035 - 0.044	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 17	0.0035 - 0.044	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 17	0.0035 - 0.044	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	---	---	mg/kg	---	0 / 17	0.0035 - 0.044	---	0.22	No	ND
11096-82-5	PCB-1260 (AROCLOR 1260)	0.0547	0.0547 J	mg/kg	SBL-372 / SBL-372-COMP	1 / 16	0.0035 - 0.044	0.0547 J	0.22	No	BSL
877-09-8	2,4,5,6-TETRACHLORO-META-XYLENE	0.0218	0.0285	mg/kg	SBL-376 / SBL-376-COMP	7 / 7	---	0.0285	---	No	NTX
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 17	0.00071 - 0.0022	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 10	0.00071 - 0.0022	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 10	0.00071 - 0.0022	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	0.00034	0.0042	mg/kg	TRL0050 / SSWB0003	8 / 16	0.00071 - 0.0022	0.0042	---	No	NTX
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 10	0.00071 - 0.0022	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 10	0.0014 - 0.0044	---	---	No	ND, NTX
57-74-9	CHLORDANE	---	---	mg/kg	---	0 / 2	0.0089 - 0.009	---	1.6	No	ND
2051-24-3	DECACHLOROBIPHENYL	0.0231	0.0342	mg/kg	SBL-376 / SBL-376-COMP	7 / 7	---	0.0342	---	No	NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 10	0.00071 - 0.0022	---	---	No	ND, NTX
60-57-1	DIELDRIN	---	---	mg/kg	---	0 / 17	0.0014 - 0.0044	---	0.03	No	ND
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 10	0.0014 - 0.0044	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 17	0.0014 - 0.0044	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 10	0.0014 - 0.0044	---	---	No	ND, NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 10	0.0014 - 0.0044	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 17	0.00071 - 0.0022	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	0.00035	0.0054	mg/kg	TRL0050 / SSWB0003	7 / 15	0.00071 - 0.0022	0.0054	---	No	NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 17	0.00071 - 0.0022	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 10	0.00071 - 0.0022	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 17	0.0071 - 0.022	---	310	No	ND
2385-85-5	MIREX	---	---	mg/kg	---	0 / 7	0.0044 - 0.0047	---	0.027	No	ND
72-54-8	p,p'-DDD	0.005	0.005	mg/kg	TRL0050 / SSWB0003	1 / 17	0.0014 - 0.0044	0.005	2	No	BSL

Table C-13. Waste Burial Holes, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Waste Burial Holes

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
72-55-9	p,p'-DDE	0.00014	0.038	mg/kg	TRL0049 / SSWB0001	6 / 17	0.0014 - 0.0044	0.038	1.4	No	BSL
50-29-3	p,p'-DDT	0.0091	0.0097	mg/kg	TRL0049 / SSWB0001	2 / 15	0.0014 - 0.0044	0.0097	1.7	No	BSL
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 17	0.0355 - 0.22	---	0.44	No	ND
---	ACTINIUM-228	0.36	1.12	pCi/g	SSGT0005 / S99092101	10 / 11	0.0968 - 1.8	1.12	679	No	BSL
---	ALPHA, GROSS	1.8	2.8	pCi/g	TRL0050 / SSWB0003	2 / 9	1.2 - 8.9	2.8	---	No	NTX
---	BETA, GROSS	1.56	4.280	pCi/g	TRL0054 / SSWB0017	8 / 9	0.92 - 6.1	4,280	---	No	NTX
---	BISMUTH-212	0.3	0.759	pCi/g	SSGT0005 / S99092101	6 / 11	0.21 - 2.3	0.759	2,800	No	BSL
---	BISMUTH-214	0.268	0.878	pCi/g	SSGT0006 / S99092102	10 / 11	0.0494 - 4.1	0.878	7,950	No	BSL
14762-75-5	CARBON-14	0.123	1,442	pCi/g	TRL0054 / SSWB0014	33 / 54	0.113 - 11	1,442	0.476	Yes	ASL
---	CESIUM-137	3.28	4,610	pCi/g	TRL0054 / SSWB0017	2 / 11	0.026 - 2.3	4,610	0.0615	Yes	ASL
---	COBALT-60	---	---	pCi/g	---	0 / 11	0.021 - 0.54	---	0.0389	No	ND
---	LEAD-210	0.872	0.872	pCi/g	SSGT0006 / S99092102	1 / 11	0.36 - 61	0.872	0.335	Yes	ASL
---	LEAD-212	0.371	1.07	pCi/g	SSGT0005 / S99092101	10 / 11	0.039 - 4.4	1.07	3,550	No	BSL
---	LEAD-214	0.398	0.974	pCi/g	SSGT0006 / S99092102	10 / 11	0.051 - 7.6	0.974	44,800	No	BSL
---	POTASSIUM-40	8.2	46.8	pCi/g	TRL0054 / SSWB0017	11 / 11	0.261 - 3.8	46.8	0.116	Yes	ASL
---	RADIUM-223	---	---	pCi/g	---	0 / 9	0.48 - 68	---	64.6	No	ND
13982-63-3	RADIUM-226	0.26	0.878	pCi/g	SSGT0006 / S99092102	11 / 11	0.0494 - 0.28	0.878	0.0121	Yes	ASL
---	SODIUM-22	---	---	pCi/g	---	0 / 2	0.0359 - 0.0386	---	0.0902	No	ND
10098-97-2	STRONTIUM-90	0.44	1.06^a	pCi/g	TRL0054 / SSWB0017	6 / 12	0.39 - 1	1.06	0.24	Yes	ASL
---	THALLIUM-208	0.107	0.37	pCi/g	SSGT0006 / S99092102	10 / 11	0.0262 - 2.4	0.37	23,100	No	BSL
---	THORIUM-234	1.07	2.17 J	pCi/g	SSGT0005 / S99092101	2 / 11	0.427 - 27	2.17 J	280	No	BSL
10028-17-8	TRITIUM (HYDROGEN-3)	0.0478	3,530	pCi/g	TRL0051 / SSWB0007	45 / 68	0.0299 - 9.09	3,530	0.882	Yes	ASL
---	URANIUM-235 and 236	---	---	pCi/g	---	0 / 1	0.2 - 0.2	---	3.95	No	ND
---	URANIUM-235	---	---	pCi/g	---	0 / 11	0.148 - 12	---	3.95	No	ND
---	URANIUM-238	0.52	2.17 J	pCi/g	SSGT0005 / S99092101	3 / 3	0.2 - 1.15	2.17 J	0.696	Yes	ASL
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 15	0.367 - 1.1	---	6,100	No	ND
118-79-6	2,4,6-TRIBROMOPHENOL	2.06	2.63	mg/kg	SBL-373 / SBL-373-COMP SBL-371 / SBL-371-COMP	7 / 7	---	2.63	---	No	NTX
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 15	0.733 - 1.1	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	390	No	ND
321-60-8	2-FLUOROBIPHENYL	1.25	1.71	mg/kg	SBL-373 / SBL-373-COMP	7 / 7	---	1.71	---	No	NTX
367-12-4	2-FLUOROPHENOL	2.77	3.46	mg/kg	SBL-372 / SBL-372-COMP	7 / 7	---	3.46	---	No	NTX
91-57-6	2-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	310	No	ND
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 15	0.367 - 1.1	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 15	0.367 - 1.1	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 15	0.367 - 1.1	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	310	No	ND

Table C-13. Waste Burial Holes, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Waste Burial Holes

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 15	0.367 - 1.1	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 15	0.367 - 1.1	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	17,000	No	ND
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	1.5	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	35	No	ND
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	15	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	6,100	No	ND
117-84-0	DI-n-OCTYLPHTHALATE	0.371	0.371 J	mg/kg	SBL-375 / SBL-375-COMP	1 / 15	0.35 - 0.44	0.371 J	---	No	NTX
122-39-4	DIPHENYLAMINE	---	---	mg/kg	---	0 / 7	0.367 - 0.391	---	1,500	No	ND
206-44-0	FLUORANTHENE	0.0061	0.0061 J	mg/kg	SBL-375 / SBL-375-COMP	1 / 15	0.0367 - 0.44	0.0061 J	2,300	No	BSL
86-73-7	FLUORENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	2,300	No	ND
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	510	No	ND
91-20-3	NAPHTHALENE	0.062	92	mg/kg	TRL0054 / SSWB0014	2 / 15	0.0367 - 37	92	3.6	Yes	ASL
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	4.8	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 8	0.35 - 0.44	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 15	0.367 - 1.1	---	0.89	No	ND
85-01-8	PHENANTHRENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	---	No	ND, NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	18,000	No	ND
129-00-0	PYRENE	---	---	mg/kg	---	0 / 15	0.0367 - 0.44	---	1,700	No	ND
110-86-1	PYRIDINE	---	---	mg/kg	---	0 / 7	0.363 - 0.388	---	78	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 31	0.00096 - 0.117	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 31	0.00096 - 0.117	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 15	0.35 - 0.44	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	210	No	ND
67-64-1	ACETONE	0.006	0.031	mg/kg	TRL0054 / SSWB0014	2 / 9	0.01 - 0.013	0.031	61,000	No	BSL

Table C-13. Waste Burial Holes, Soil/Solid Waste (0 to 10 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (0 - 10 feet)
 Exposure Medium: On-Site
 Exposure Point: Waste Burial Holes

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
71-43-2	BENZENE	0.00047	0.0016	mg/kg	SBL-373C / SBL-373C-6	16 / 31	0.00096 - 0.117	0.0016	1.1	No	BSL
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	7.3	No	ND
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	820	No	ND
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 31	0.00096 - 0.117	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 31	0.00096 - 0.117	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	15,000	No	ND
67-66-3	CHLOROFORM	0.00061	0.0038	mg/kg	SBL-376B / SBL-376B-4	7 / 31	0.00096 - 0.117	0.0038	0.29	No	BSL
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	5.4	No	ND
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	0.004	0.0107	mg/kg	SBL-373C / SBL-373C-6	18 / 29	0.0048 - 0.587	0.0107	28,000	No	BSL
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	11	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	0.00077	0.0027	mg/kg	SBL-375C / SBL-375C-6	2 / 31	0.00096 - 0.117	0.0027	0.55	No	BSL
108-88-3	TOLUENE	0.22	0.22	mg/kg	TRL0054 / SSWB0014	1 / 10	0.01 - 0.0136	0.22	5,000	No	BSL
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 31	0.00096 - 0.117	---	0.91	No	ND
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 31	0.00096 - 0.117	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 10	0.01 - 0.0136	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

^a Reporting limits not provided.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- - not applicable

Table C-14. Waste Burial Holes, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Waste Burial Holes

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
108-94-1	CYCLOHEXANONE	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	310,000	No	ND
111-71-7	Heptanal	---	---	mg/kg	---	0 / 1	0.22 - 0.22	---	---	No	ND, NTX
---	Nitrate	8.02	37.3	mg/kg	SBL-390 / SBL-390-17.5	11 / 11	0.589 - 0.634	37.3	---	No	NTX
---	Nitrite, Nitrate-Nonspecific	25	57	mg/kg	TRL0052 / SSWB0011	4 / 4	0.22 - 0.28	57	---	No	NTX
7440-36-0	ANTIMONY	---	---	mg/kg	---	0 / 4	12 - 16.87	---	31	No	ND
7440-38-2	ARSENIC	8.4	10.2	mg/kg	TRL0054 / SSWB0016	4 / 4	2 - 2.81	10.2	0.39	Yes	ASL
7440-39-3	BARIUM	174	273	mg/kg	TRL0054 / SSWB0016	4 / 4	40 - 56.24	273	15,000	No	BSL
7440-41-7	BERYLLIUM	0.48	0.48	mg/kg	SBL0032 / SSUT0027	1 / 4	1 - 1.41	0.48	160	No	BSL
7440-43-9	CADMIUM	---	---	mg/kg	---	0 / 4	1 - 1.41	---	70	No	ND
7440-70-2	CALCIUM	3,110	3,110	mg/kg	SBL0032 / SSUT0027	1 / 1	1,000 - 1,000	3,110	---	No	NTX
18540-29-9	CHROMIUM, HEXAVALENT	---	---	mg/kg	---	0 / 7	0.024 - 0.28	---	0.29	No	ND
7440-47-3	CHROMIUM, TOTAL	96.2	144	mg/kg	TRL0054 / SSWB0016	4 / 4	2 - 2.81	144	---	No	NTX
7440-48-4	COBALT	19.9	34.4	mg/kg	TRL0054 / SSWB0016	4 / 4	10 - 14.06	34.4	23	Yes	ASL
7440-50-8	COPPER	35.7	68.1	mg/kg	TRL0054 / SSWB0016	4 / 4	5 - 7.03	68.1	3,100	No	BSL
7439-89-6	IRON	45,900	45,900	mg/kg	SBL0032 / SSUT0027	1 / 1	20 - 20	45,900	55,000	No	BSL
7439-92-1	LEAD	7.2	10.3	mg/kg	TRL0054 / SSWB0016	4 / 4	0.6 - 0.84	10.3	80	No	BSL
7439-95-4	MAGNESIUM	19,900	19,900	mg/kg	SBL0032 / SSUT0027	1 / 1	1,000 - 1,000	19,900	---	No	NTX
7439-96-5	MANGANESE	721	721	mg/kg	SBL0032 / SSUT0027	1 / 1	3 - 3	721	1,800	No	BSL
7439-97-6	MERCURY	0.19	0.19	mg/kg	TRL0054 / SSWB0016	1 / 4	0.1 - 0.13	0.19	10	No	BSL
7439-98-7	MOLYBDENUM	---	---	mg/kg	---	0 / 4	2 - 56.24	---	390	No	ND
7440-02-0	NICKEL	188	318	mg/kg	TRL0054 / SSWB0016	4 / 4	8 - 11.25	318	1,500	No	BSL
7440-09-7	POTASSIUM	2,000	2,000	mg/kg	SBL0032 / SSUT0027	1 / 1	1,000 - 1,000	2,000	---	No	NTX
7782-49-2	SELENIUM	2.8	3.4	mg/kg	TRL0054 / SSWB0016	2 / 4	1 - 1.41	3.4	390	No	BSL
7440-22-4	SILVER	---	---	mg/kg	---	0 / 4	2 - 2.81	---	390	No	ND
7440-23-5	SODIUM	619	619	mg/kg	SBL0032 / SSUT0027	1 / 1	1,000 - 1,000	619	---	No	NTX
7440-28-0	THALLIUM	---	---	mg/kg	---	0 / 4	2 - 140.59	---	0.78	No	ND
7440-62-2	VANADIUM	59	82.7	mg/kg	TRL0054 / SSWB0016	4 / 4	10 - 14.06	82.7	390	No	BSL
7440-66-6	ZINC	71.6	118	mg/kg	TRL0054 / SSWB0016	4 / 4	4 - 5.62	118	23,000	No	BSL
12674-11-2	PCB-1016 (AROCLOR 1016)	---	---	mg/kg	---	0 / 4	0.037 - 0.046	---	3.9	No	ND
11104-28-2	PCB-1221 (AROCLOR 1221)	---	---	mg/kg	---	0 / 4	0.074 - 0.093	---	0.14	No	ND
11141-16-5	PCB-1232 (AROCLOR 1232)	---	---	mg/kg	---	0 / 4	0.037 - 0.046	---	0.14	No	ND
53469-21-9	PCB-1242 (AROCLOR 1242)	---	---	mg/kg	---	0 / 4	0.037 - 0.046	---	0.22	No	ND
12672-29-6	PCB-1248 (AROCLOR 1248)	---	---	mg/kg	---	0 / 4	0.037 - 0.046	---	0.22	No	ND
11097-69-1	PCB-1254 (AROCLOR 1254)	---	---	mg/kg	---	0 / 4	0.037 - 0.046	---	0.22	No	ND
11096-82-5	PCB-1260 (AROCLOR 1260)	---	---	mg/kg	---	0 / 4	0.037 - 0.046	---	0.22	No	ND
309-00-2	ALDRIN	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	0.029	No	ND
319-84-6	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	0.077	No	ND
959-98-8	ALPHA ENDOSULFAN	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	---	No	ND, NTX
5103-71-9	ALPHA-CHLORDANE	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	---	No	ND, NTX
319-85-7	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	0.27	No	ND
33213-65-9	BETA ENDOSULFAN	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	---	No	ND, NTX
319-86-8	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	---	No	ND, NTX
60-57-1	DIELDRIN	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	0.03	No	ND
1031-07-8	ENDOSULFAN SULFATE	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	---	No	ND, NTX
72-20-8	ENDRIN	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	18	No	ND
7421-93-4	ENDRIN ALDEHYDE	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	---	No	ND, NTX
53494-70-5	ENDRIN KETONE	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	---	No	ND, NTX
58-89-9	GAMMA BHC (LINDANE)	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	0.52	No	ND
5103-74-2	GAMMA-CHLORDANE	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	---	No	ND, NTX
76-44-8	HEPTACHLOR	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	0.11	No	ND
1024-57-3	HEPTACHLOR EPOXIDE	---	---	mg/kg	---	0 / 4	0.0019 - 0.0023	---	0.053	No	ND
72-43-5	METHOXYCHLOR	---	---	mg/kg	---	0 / 4	0.019 - 0.023	---	310	No	ND

Table C-14. Waste Burial Holes, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Waste Burial Holes

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
72-54-8	p,p'-DDD	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	2	No	ND
72-55-9	p,p'-DDE	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	1.4	No	ND
50-29-3	p,p'-DDT	---	---	mg/kg	---	0 / 4	0.0037 - 0.0046	---	1.7	No	ND
8001-35-2	TOXAPHENE	---	---	mg/kg	---	0 / 4	0.19 - 0.23	---	0.44	No	ND
---	ACTINIUM-228	0.55	0.7	pCi/g	SBL0032 / SSUT0027	4 / 4	0.11 - 0.21	0.7	679	No	BSL
---	ALPHA, GROSS	8.4	10.3	pCi/g	TRL0054 / SSWB0015	2 / 4	5.2 - 6.7	10.3	---	No	NTX
---	BETA, GROSS	12.9	18.9	pCi/g	TRL0052 / SSWB0011	4 / 4	5.3 - 6	18.9	---	No	NTX
---	BISMUTH-212	0.39	0.45	pCi/g	SBL0032 / SSUT0027	2 / 4	0.2 - 0.4	0.45	2,800	No	BSL
---	BISMUTH-214	0.452	0.527	pCi/g	SBL0032 / SSUT0027	4 / 4	0.059 - 0.093	0.527	7,950	No	BSL
14762-75-5	CARBON-14	0.119	15.7	pCi/g	TRL0052 / SSWB0011	27 / 50	0.11 - 11	15.7	0.476	Yes	ASL
---	CESIUM-137	---	---	pCi/g	---	0 / 4	0.03 - 0.047	---	0.0615	No	ND
---	COBALT-60	---	---	pCi/g	---	0 / 4	0.021 - 0.056	---	0.0389	No	ND
---	LEAD-210	1.45	1.45	pCi/g	TRL0052 / SSWB0011	1 / 4	1.2 - 5	1.45	0.335	Yes	ASL
---	LEAD-212	0.578	0.641	pCi/g	TRL0054 / SSWB0016	4 / 4	0.053 - 0.075	0.641	3,550	No	BSL
---	LEAD-214	0.608	0.653	pCi/g	TRL0052 / SSWB0011	4 / 4	0.056 - 0.095	0.653	44,800	No	BSL
---	POTASSIUM-40	10.6	12.1	pCi/g	TRL0052 / SSWB0011	4 / 4	0.34 - 0.53	12.1	0.116	Yes	ASL
---	RADIUM-223	---	---	pCi/g	---	0 / 3	0.52 - 0.86	---	64.6	No	ND
13982-63-3	RADIUM-226	0.41	0.77	pCi/g	TRL0052 / SSWB0011	4 / 4	0.17 - 0.21	0.77	0.0121	Yes	ASL
10098-97-2	STRONTIUM-90	25.5	25.5	pCi/g	TRL0054 / SSWB0015	1 / 7	0.45 - 1	25.5	0.24	Yes	ASL
---	THALLIUM-208	0.166	0.214	pCi/g	TRL0054 / SSWB0015	4 / 4	0.028 - 0.047	0.214	23,100	No	BSL
---	THORIUM-234	---	---	pCi/g	---	0 / 4	1.2 - 1.8	---	280	No	ND
10028-17-8	TRITIUM (HYDROGEN-3)	0.117	3,930	pCi/g	SBL0032 / SSUT0027	25 / 50	0.0314 - 8.93	3,930	0.882	Yes	ASL
---	URANIUM-235 and 236	---	---	pCi/g	---	0 / 3	0.2 - 0.2	---	3.95	No	ND
---	URANIUM-235	---	---	pCi/g	---	0 / 4	0.17 - 0.24	---	3.95	No	ND
---	URANIUM-238	0.259	0.54	pCi/g	WBH-2 / SSWBH-2-15	3 / 3	0.2 - 0.2	0.54	0.696	No	BSL
120-82-1	1,2,4-TRICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	22	No	ND
541-73-1	1,3-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
95-95-4	2,4,5-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.89 - 1.1	---	6,100	No	ND
88-06-2	2,4,6-TRICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	44	No	ND
120-83-2	2,4-DICHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	180	No	ND
105-67-9	2,4-DIMETHYLPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	1,200	No	ND
51-28-5	2,4-DINITROPHENOL	---	---	mg/kg	---	0 / 4	0.89 - 1.1	---	120	No	ND
121-14-2	2,4-DINITROTOLUENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	1.6	No	ND
606-20-2	2,6-DINITROTOLUENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	61	No	ND
91-58-7	2-CHLORONAPHTHALENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	6,300	No	ND
95-57-8	2-CHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	390	No	ND
91-57-6	2-METHYLNAPHTHALENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	310	No	ND
95-48-7	2-METHYLPHENOL (o-CRESOL)	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	3,100	No	ND
88-74-4	2-NITROANILINE	---	---	mg/kg	---	0 / 4	0.89 - 1.1	---	610	No	ND
88-75-5	2-NITROPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
91-94-1	3,3'-DICHLOROBENZIDINE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	1.1	No	ND
99-09-2	3-NITROANILINE	---	---	mg/kg	---	0 / 4	0.89 - 1.1	---	---	No	ND, NTX
534-52-1	4,6-DINITRO-2-METHYLPHENOL	---	---	mg/kg	---	0 / 4	0.89 - 1.1	---	4.9	No	ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
59-50-7	4-CHLORO-3-METHYLPHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	6,100	No	ND
106-47-8	4-CHLOROANILINE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	2.4	No	ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
106-44-5	4-METHYLPHENOL (p-CRESOL)	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	310	No	ND
100-01-6	4-NITROANILINE	---	---	mg/kg	---	0 / 4	0.89 - 1.1	---	24	No	ND
100-02-7	4-NITROPHENOL	---	---	mg/kg	---	0 / 4	0.89 - 1.1	---	---	No	ND, NTX
83-32-9	ACENAPHTHENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	3,400	No	ND
208-96-8	ACENAPHTHYLENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
120-12-7	ANTHRACENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	17,000	No	ND

Table C-14. Waste Burial Holes, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Waste Burial Holes

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
56-55-3	BENZO(a)ANTHRACENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	0.15	No	ND
50-32-8	BENZO(a)PYRENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	0.015	No	ND
205-99-2	BENZO(b)FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	0.15	No	ND
191-24-2	BENZO(g,h,i)PERYLENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
207-08-9	BENZO(k)FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	1.5	No	ND
85-68-7	BENZYL BUTYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	260	No	ND
111-91-1	bis(2-CHLOROETHOXY) METHANE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	180	No	ND
111-44-4	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	0.21	No	ND
39638-32-9	bis(2-CHLOROISOPROPYL) ETHER	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
117-81-7	bis(2-ETHYLHEXYL) PHTHALATE	0.093	0.093	mg/kg	SBL0032 / SSUT0027	1 / 4	0.37 - 0.46	0.093	35	No	BSL
86-74-8	CARBAZOLE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
218-01-9	CHRYSENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	15	No	ND
53-70-3	DIBENZ(a,h)ANTHRACENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	0.015	No	ND
132-64-9	DIBENZOFURAN	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	78	No	ND
84-66-2	DIETHYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	49,000	No	ND
131-11-3	DIMETHYL PHTHALATE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
84-74-2	DI-n-BUTYL PHTHALATE	0.12	0.12	mg/kg	SBL0032 / SSUT0027	1 / 4	0.37 - 0.46	0.12	6,100	No	BSL
117-84-0	DI-n-OCTYLPHthalate	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
206-44-0	FLUORANTHENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	2,300	No	ND
86-73-7	FLUORENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	2,300	No	ND
118-74-1	HEXACHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	0.3	No	ND
87-68-3	HEXACHLOROBUTADIENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	6.2	No	ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	370	No	ND
67-72-1	HEXACHLOROETHANE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	12	No	ND
193-39-5	INDENO(1,2,3-c,d)PYRENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	0.15	No	ND
78-59-1	ISOPHORONE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	510	No	ND
91-20-3	NAPHTHALENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	3.6	No	ND
98-95-3	NITROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	4.8	No	ND
621-64-7	N-NITROSODI-n-PROPYLAMINE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	0.069	No	ND
86-30-6	N-NITROSODIPHENYLAMINE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	99	No	ND
87-86-5	PENTACHLOROPHENOL	---	---	mg/kg	---	0 / 4	0.89 - 1.1	---	0.89	No	ND
85-01-8	PHENANTHRENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	---	No	ND, NTX
108-95-2	PHENOL	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	18,000	No	ND
129-00-0	PYRENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	1,700	No	ND
123-73-9	(E)-2-Butenal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	0.34	No	ND
71-55-6	1,1,1-TRICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	8,700	No	ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	0.56	No	ND
79-00-5	1,1,2-TRICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	1.1	No	ND
75-34-3	1,1-DICHLOROETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	3.3	No	ND
75-35-4	1,1-DICHLOROETHENE	---	---	mg/kg	---	0 / 15	0.001 - 0.014	---	240	No	ND
95-50-1	1,2-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	1,900	No	ND
107-06-2	1,2-DICHLOROETHANE	---	---	mg/kg	---	0 / 15	0.001 - 0.014	---	0.43	No	ND
78-87-5	1,2-DICHLOROPROPANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	0.94	No	ND
106-46-7	1,4-DICHLOROBENZENE	---	---	mg/kg	---	0 / 4	0.37 - 0.46	---	2.4	No	ND
591-78-6	2-HEXANONE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	210	No	ND
75-07-0	ACETALDEHYDE	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	10	No	ND
67-64-1	ACETONE	0.008	0.017	mg/kg	TRL0054 / SSWB0016	2 / 4	0.011 - 0.014	0.017	61,000	No	BSL
71-43-2	BENZENE	0.00051	0.0011 J	mg/kg	SBL-391 / SBL-391-17.5	11 / 15	0.001 - 0.014	0.0011 J	1.1	No	BSL
75-27-4	BROMODICHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	0.27	No	ND
75-25-2	BROMOFORM	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	62	No	ND
74-83-9	BROMOMETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	7.3	No	ND
123-72-8	Butanal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	---	No	ND, NTX
75-15-0	CARBON DISULFIDE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	820	No	ND

Table C-14. Waste Burial Holes, Soil/Solid Waste (10 to 20 feet below ground surface) Evaluation of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Scenario Timeframe: Current/Future
 Medium: Soil (10 - 20 feet)
 Exposure Medium: On-Site
 Exposure Point: Waste Burial Holes

CAS Number	Constituent	Minimum Concentration	Maximum Concentration	Units	Location/Sample ID of Maximum Concentration	Detection Frequency	Range of Reporting Limits	Concentration Used for Screening ¹	Screening Value ²	COPC? (Yes or No)	Rationale for Selection or Deletion
56-23-5	CARBON TETRACHLORIDE	---	---	mg/kg	---	0 / 15	0.001 - 0.014	---	0.61	No	ND
108-90-7	CHLOROBENZENE	---	---	mg/kg	---	0 / 15	0.001 - 0.014	---	290	No	ND
75-00-3	CHLOROETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	15,000	No	ND
67-66-3	CHLOROFORM	---	---	mg/kg	---	0 / 15	0.001 - 0.014	---	0.29	No	ND
74-87-3	CHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	120	No	ND
10061-01-5	cis-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	---	No	ND, NTX
124-48-1	DIBROMOCHLOROMETHANE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	0.68	No	ND
100-41-4	ETHYLBENZENE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	5.4	No	ND
50-00-0	FORMALDEHYDE	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	12,000	No	ND
66-25-1	HEXANAL	---	---	mg/kg	---	0 / 1	0.22 - 0.22	---	---	No	ND, NTX
78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	0.0024	0.0024 J	mg/kg	SBL-398 / SBL-398-17.5	1 / 15	0.0051 - 0.014	0.0024 J	28,000	No	BSL
108-10-1	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	5,300	No	ND
75-09-2	METHYLENE CHLORIDE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	11	No	ND
124-19-6	Nonanal	---	---	mg/kg	---	0 / 1	0.33 - 0.33	---	---	No	ND, NTX
124-13-0	Octanal	---	---	mg/kg	---	0 / 1	0.22 - 0.22	---	---	No	ND, NTX
123-38-6	Propanal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	80	No	ND
100-42-5	STYRENE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	6,300	No	ND
127-18-4	TETRACHLOROETHYLENE (PCE)	---	---	mg/kg	---	0 / 15	0.001 - 0.014	---	0.55	No	ND
108-88-3	TOLUENE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	5,000	No	ND
540-59-0	TOTAL 1,2-DICHLOROETHENE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	700	No	ND
10061-02-6	trans-1,3-DICHLOROPROPENE	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	---	No	ND, NTX
79-01-6	TRICHLOROETHYLENE (TCE)	---	---	mg/kg	---	0 / 15	0.001 - 0.014	---	0.91	No	ND
110-62-3	Pentanal	---	---	mg/kg	---	0 / 1	0.17 - 0.17	---	---	No	ND, NTX
75-01-4	VINYL CHLORIDE	---	---	mg/kg	---	0 / 15	0.001 - 0.014	---	0.06	No	ND
1330-20-7	XYLENES, TOTAL	---	---	mg/kg	---	0 / 4	0.011 - 0.014	---	630	No	ND

Notes:

¹ Concentration used for screening is the maximum concentration detected.

² Screening value from Table C-2.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- ID - identification
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- ND - not detected
- NTX - no toxicity information
- pCi/g - picocuries per gram
- - not applicable

Table C-15. Soil/Solid Waste (0 to 10 feet below ground surface) Background Comparison of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/ CAS Number	Constituent	Units	Maximum Concentration	Background Concentration	Does Maximum Concentration Exceed Background?	Detection Frequency	WRS (Mann-Whitney) Result	Rationale ^a	Retain as COPC?
Eastern Trenches									
7440-38-2	Arsenic	mg/kg	9.8	9.6	Yes	32 / 33	= BGD	Mann-Whitney	No
18540-29-9	Chromium, Hexavalent	mg/kg	1.31 J	1.3 ^b	Yes	1 / 33	NR	Det<50%; MAX>BGD	No ^c
7440-48-4	Cobalt	mg/kg	29.6	31	No	32 / 33	---	---	No
60-57-1	Dieldrin	mg/kg	0.13	0	Yes	13 / 33	NR	BGD=0	Yes
14762-75-5	Carbon-14	pCi/g	1.8 J	0.13	Yes	2 / 33	NR	Det<50%; MAX>BGD	Yes
---	Cesium-137	pCi/g	0.073	0.012	Yes	9 / 31	NR	Det<50%; MAX>BGD	Yes
---	Lead-210	pCi/g	0.737	1.6	No	3 / 31	---	---	No
---	Potassium-40	pCi/g	12.6	14	No	33 / 33	---	---	No
13982-63-3	Radium-226	pCi/g	0.78 ^d	0.75	Yes	31 / 33	< BGD	WRS	No
---	Radium-228	pCi/g	0.56	0.64	No	13 / 13	---	---	No
10028-17-8	Tritium (Hydrogen-3)	pCi/g	333	1.2	Yes	9 / 33	NR	Det<50%; MAX>BGD	Yes
118-74-1	Hexachlorobenzene	mg/kg	0.44	0	Yes	1 / 33	NR	BGD=0	Yes
Landfill Unit No. 1									
7440-38-2	Arsenic	mg/kg	140	9.6	Yes	23 / 23	> BGD	Mann-Whitney	Yes
7440-48-4	Cobalt	mg/kg	27.5	31	No	19 / 23	---	---	No
7439-92-1	Lead	mg/kg	3,640	9.5	Yes	23 / 23	> BGD	Mann-Whitney	Yes
7440-28-0	Thallium	mg/kg	4.4	1.6	Yes	8 / 23	NR	Det<50%; MAX>BGD	Yes
11096-82-5	PCB-1260 (Aroclor 1260)	mg/kg	0.3	0	Yes	1 / 14	NR	BGD=0	Yes
14762-75-5	Carbon-14	pCi/g	4.74	0.13	Yes	2 / 14	NR	Det<50%; MAX>BGD	Yes
---	Cesium-137	pCi/g	0.05465 J ^d	0.012	Yes	2 / 12	NR	Det<50%; MAX>BGD	Yes
---	Lead-210	pCi/g	0.803 J	1.6	No	2 / 14	---	---	No
---	Potassium-40	pCi/g	13.6	14	No	14 / 14	---	---	No
13982-63-3	Radium-226	pCi/g	0.84 ^d	0.75	Yes	14 / 14	< BGD	WRS	No
---	Radium-228	pCi/g	0.494	0.64	No	9 / 9	---	---	No
10098-97-2	Strontium-90	pCi/g	0.31	0.056	Yes	1 / 14	NR	Det<50%; MAX>BGD	Yes
---	Uranium-238	pCi/g	0.789 ^d	0.65	Yes	9 / 9	< BGD	WRS	No
50-32-8	Benzo(a)pyrene	mg/kg	0.022	0	Yes	1 / 23	NR	BGD=0	Yes
87-86-5	Pentachlorophenol	mg/kg	2 J	0	Yes	1 / 23	NR	BGD=0	Yes
Landfill Unit No. 2									
7440-38-2	Arsenic	mg/kg	83.2	9.6	Yes	23 / 23	= BGD	Mann-Whitney	No
7440-48-4	Cobalt	mg/kg	28.5	31	No	22 / 23	---	---	No
7440-50-8	Copper	mg/kg	4,300	60	Yes	23 / 23	> BGD	Mann-Whitney	Yes
7439-89-6	Iron	mg/kg	105,000	44,000	Yes	16 / 16	= BGD	Mann-Whitney	No
7439-92-1	Lead	mg/kg	729	9.5	Yes	23 / 23	> BGD	Mann-Whitney	Yes
11096-82-5	PCB-1260 (Aroclor 1260)	mg/kg	0.31	0	Yes	2 / 14	NR	BGD=0	Yes
72-55-9	p,p'-DDE	mg/kg	1.9	0	Yes	10 / 23	NR	BGD=0	Yes
14762-75-5	Carbon-14	pCi/g	3.1 J ^d	0.13	Yes	5 / 23	NR	Det<50%; MAX>BGD	Yes
---	Cesium-137	pCi/g	0.252	0.012	Yes	17 / 22	> BGD	Mann-Whitney	Yes
---	Potassium-40	pCi/g	15	14	Yes	22 / 22	< BGD	WRS	No
13982-63-3	Radium-226	pCi/g	0.66 ^d	0.75	Yes	21 / 22	< BGD	WRS	No
---	Radium-228	pCi/g	0.582	0.64	No	8 / 8	---	---	No
10098-97-2	Strontium-90	pCi/g	0.42	0.056	Yes	1 / 22	NR	Det<50%; MAX>BGD	Yes
7440-28-0	Thallium	mg/kg	4.4	1.6	Yes	3 / 23	NR	Det<50%; MAX>BGD	Yes
10028-17-8	Tritium (Hydrogen-3)	pCi/g	2,317 ^d	1.2	Yes	5 / 23	NR	Det<50%; MAX>BGD	Yes
56-55-3	Benzo(a)anthracene	mg/kg	0.68	0	Yes	2 / 22	NR	BGD=0	Yes
50-32-8	Benzo(a)pyrene	mg/kg	0.49	0	Yes	2 / 22	NR	BGD=0	Yes
205-99-2	Benzo(b)fluoranthene	mg/kg	0.47	0	Yes	2 / 22	NR	BGD=0	Yes
Landfill Unit No. 3									
7440-38-2	Arsenic	mg/kg	61.7	9.6	Yes	21 / 21	= BGD	Mann-Whitney	No
18540-29-9	Chromium, Hexavalent	mg/kg	0.36	1.3	No	1 / 21	---	---	No
7440-48-4	Cobalt	mg/kg	33	31	Yes	19 / 21	< BGD	Mann-Whitney	No
7439-89-6	Iron	mg/kg	87,200	44,000	Yes	14 / 14	> BGD	Mann-Whitney	Yes
7439-92-1	Lead	mg/kg	2,540	9.5	Yes	21 / 21	> BGD	Mann-Whitney	Yes
7439-96-5	Manganese	mg/kg	4,300	750	Yes	6 / 6	> BGD	Mann-Whitney	Yes
7439-97-6	Mercury	mg/kg	49.5	0.63	Yes	20 / 21	= BGD	Mann-Whitney	No
7440-28-0	Thallium	mg/kg	5.2	1.6	Yes	9 / 21	NR	Det<50%; MAX>BGD	Yes
11097-69-1	PCB-1254 (Aroclor 1254)	mg/kg	0.29	0	Yes	1 / 21	NR	BGD=0	Yes
11096-82-5	PCB-1260 (Aroclor 1260)	mg/kg	1.6	0	Yes	4 / 21	NR	BGD=0	Yes
14762-75-5	Carbon-14	pCi/g	3.77	0.13	Yes	6 / 21	NR	Det<50%; MAX>BGD	Yes
---	Cesium-137	pCi/g	1.67	0.012	Yes	15 / 21	> BGD	Mann-Whitney	Yes
---	Lead-210	pCi/g	1.93	1.6	Yes	2 / 21	NR	Det<50%; MAX>BGD	No ^c

Table C-15. Soil/Solid Waste (0 to 10 feet below ground surface) Background Comparison of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/ CAS Number	Constituent	Units	Maximum Concentration	Background Concentration	Does Maximum Concentration Exceed Background?	Detection Frequency	WRS (Mann-Whitney) Result	Rationale ^a	Retain as COPC?
---	Potassium-40	pCi/g	14.8	14	Yes	21 / 21	< BGD	WRS	No
13982-63-3	Radium-226	pCi/g	2.91 J	0.75	Yes	18 / 21	< BGD	WRS	No
10098-97-2	Strontium-90	pCi/g	5.07	0.056	Yes	7 / 21	NR	Det<50%; MAX>BGD	Yes
Southern Trenches									
7440-38-2	Arsenic	mg/kg	9.3	9.6	No	21 / 21	---	---	No
7440-48-4	Cobalt	mg/kg	24	31	No	21 / 21	---	---	No
14762-75-5	Carbon-14	pCi/g	15.1	0.13	Yes	1 / 21	NR	Det<50%; MAX>BGD	Yes
---	Cesium-137	pCi/g	0.07	0.012	Yes	4 / 21	NR	Det<50%; MAX>BGD	Yes
---	Lead-210	pCi/g	3.75 J	1.6	Yes	4 / 21	NR	Det<50%; MAX>BGD	Yes
---	Potassium-40	pCi/g	12	14	No	21 / 21	---	---	No
13982-63-3	Radium-226	pCi/g	2.07	0.75	Yes	20 / 21	< BGD	WRS	No
---	Radium-228	pCi/g	0.489	0.64	No	9 / 9	---	---	No
7440-28-0	Thallium	mg/kg	1.14	1.6	No	3 / 21	---	---	No
Waste Burial Holes									
7440-38-2	Arsenic	mg/kg	12.9	9.6	Yes	17 / 17	= BGD	Mann-Whitney	No
18540-29-9	Chromium, Hexavalent	mg/kg	0.469 J	1.3	No	7 / 18	---	---	No
7440-48-4	Cobalt	mg/kg	27	31	No	16 / 17	---	---	No
14762-75-5	Carbon-14	pCi/g	771^d	0.13	Yes	33 / 54	NR	MAX>5xBGD	Yes
---	Cesium-137	pCi/g	2,306.6^d	0.012	Yes	2 / 11	NR	Det<50%; MAX>BGD	Yes
---	Lead-210	pCi/g	0.872	1.6	No	1 / 11	---	---	No
---	Potassium-40	pCi/g	29.1 ^d	14	Yes	11 / 11	< BGD	WRS	No
13982-63-3	Radium-226	pCi/g	0.878	0.75	Yes	11 / 11	> BGD	WRS	Yes
10098-97-2	Strontium-90	pCi/g	0.91^d	0.056	Yes	6 / 12	NR	MAX>5xBGD	Yes
10028-17-8	Tritium (Hydrogen-3)	pCi/g	3,530	1.2	Yes	45 / 68	NR	MAX>5xBGD	Yes
---	Uranium-238	pCi/g	2.17 J	0.65	Yes	3 / 3	NR	n<5; MAX>BGD	Yes
91-20-3	Naphthalene	mg/kg	92	0	Yes	2 / 15	NR	BGD=0	Yes

Notes:

^a Mann-Whitney results and rationale from MWH, 2004, unless the maximum detected concentration is less than background or indicated in the "Rationale" field by "WRS". If the rationale states "WRS," the Wilcoxon Rank Sum test was performed. The Mann-Whitney test is equivalent to the Wilcoxon Rank Sum test.

^b The background screening level for hexavalent chromium reported in the September 2008 Data Gaps Work Plan (Weiss Associates, 2008) of 54 µg/kg has been revised to 1,300 µg/kg to reflect the most recently approved background level (Weiss Associates, 2005). The former value was from Weiss Associates, 2000.

^c The maximum concentration exceeds background; however, the detected concentrations appear consistent with background.

^d Maximum value is maximum value of data set, which takes into account duplicate samples and samples analyzed by two different methods; in cases where the same sample was analyzed by two methods, the method with the lower detection limit was chosen.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

- BGD - background concentration
- CAS - Chemical Abstracts Service
- COPC - constituent of potential concern
- Det - detection frequency
- J - concentration is an estimated value
- Max - maximum detected concentration
- mg/kg - milligrams per kilogram
- MWH - Montgomery Watson Harza
- n - sample size
- NR - not performed
- pCi/g - picocuries per gram
- WRS - Wilcoxon Rank Sum test
- µg/kg - micrograms per kilogram
- - not applicable
- < - less than
- > - greater than

References:

- MWH, 2004. *Site-Wide Risk Assessment Volume I Human Health Risk Assessment (Part A Risk Estimate)*, LEHR/SCDS Environmental Restoration, March.
- Weiss Associates, 2000. *Work Plan for Removal Actions in the Southwest Trenches, RA/SR Treatment Systems, and Domestic Septic System Areas*, July.
- Weiss Associates, 2005. *Site Wide Risk Assessment, Volume I: Human Health Risk Assessment (Part B Risk Characterization for DOE Areas)*, September.
- Weiss Associates, 2008. *Feasibility Study Data Gaps Work Plan for the Laboratory for Energy-related Health Research/South Campus Disposal Site at the University of California at Davis*, September.

Table C-16. Soil/Solid Waste (10 to 20 feet below ground surface) Background Comparison of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/ CAS Number	Constituent	Units	Maximum Concentration	Background Concentration	Does Maximum Concentration Exceed Background?	Detection Frequency	WRS Result	Rationale	Retain as COPC?
Eastern Trenches									
7440-38-2	Arsenic	mg/kg	9.5	9.6	NO	4 / 4	---	---	No
7440-48-4	Cobalt	mg/kg	27	31	NO	4 / 4	---	---	No
14762-75-5	Carbon-14	pCi/g	6.7 J	0.13	YES	1 / 5	NR	Det <50%	Yes
---	Potassium-40	pCi/g	11.3	14	NO	4 / 4	---	---	No
13982-63-3	Radium-226	pCi/g	0.78	0.75	Yes	3 / 4	NR	n < 5 ^a	No ^c
10028-17-8	Tritium (Hydrogen-3)	pCi/g	1.3	1.2	Yes	3 / 5	> BGD	WRS	Yes
Landfill Unit No. 1									
7440-38-2	Arsenic	mg/kg	8.9	9.6	No	4 / 4	---	---	No
7440-48-4	Cobalt	mg/kg	24	31	No	4 / 4	---	---	No
14762-75-5	Carbon-14	pCi/g	2.5	0.13	Yes	2 / 3	NR	Max >5x BGD	Yes
---	Potassium-40	pCi/g	13.1	14	No	1 / 1	---	---	No
13982-63-3	Radium-226	pCi/g	0.37 ^b	0.75	No	1 / 1	---	---	No
Landfill Unit No. 2									
7440-38-2	Arsenic	mg/kg	12.8	9.6	Yes	8 / 8	> BGD	WRS	Yes
7440-48-4	Cobalt	mg/kg	29.6	31	No	8 / 8	---	---	No
7439-92-1	Lead	mg/kg	938	9.5	Yes	8 / 8	NR	Max >5x BGD	Yes
14762-75-5	Carbon-14	pCi/g	2.4	0.13	Yes	2 / 10	NR	Max >5x BGD	Yes
13982-63-3	Radium-226	pCi/g	0.91 ^b	0.75	Yes	8 / 8	< BGD	WRS	No
10098-97-2	Strontium-90	pCi/g	0.34	0.056	Yes	1 / 10	NR	Max >5x BGD	Yes
---	Potassium-40	pCi/g	18.6	14	Yes	8 / 8	> BGD	WRS	Yes
Landfill Unit No. 3									
7440-38-2	Arsenic	mg/kg	9.2	9.6	NO	6 / 6	---	---	No
7440-48-4	Cobalt	mg/kg	24.9	31	NO	6 / 6	---	---	No
14762-75-5	Carbon-14	pCi/g	1.29	0.13	Yes	1 / 8	NR	Max >5x BGD	Yes
---	Lead-210	pCi/g	1.38	1.6	No	1 / 6	---	---	No
---	Potassium-40	pCi/g	13.8	14	No	6 / 6	---	---	No
13982-63-3	Radium-226	pCi/g	1.07 ^b	0.75	Yes	5 / 6	< BGD	WRS	No
7440-28-0	Thallium	mg/kg	0.99	1.6	No	4 / 6	---	---	No
Southern Trenches									
7440-38-2	Arsenic	mg/kg	8.8	9.6	NO	2 / 2	---	---	No
7440-48-4	Cobalt	mg/kg	25	31	NO	2 / 2	---	---	No
---	Potassium-40	pCi/g	11.8	14	NO	2 / 2	---	---	No
13982-63-3	Radium-226	pCi/g	0.6	0.75	NO	2 / 2	---	---	No
Waste Burial Holes									
7440-38-2	Arsenic	mg/kg	10.2	9.6	Yes	4 / 4	NR	n<5	No ^c
7440-48-4	Cobalt	mg/kg	34.4	31	Yes	4 / 4	NR	n<5	No ^c
14762-75-5	Carbon-14	pCi/g	15.7	0.13	Yes	27 / 50	NR	Max >5x BGD	Yes
---	Lead-210	pCi/g	1.45	1.6	No	1 / 4	---	---	No
---	Potassium-40	pCi/g	12.1	14	No	4 / 4	---	---	No
13982-63-3	Radium-226	pCi/g	0.77 ^b	0.75	Yes	4 / 4	NR	n<5 ^a	No ^c
10098-97-2	Strontium-90	pCi/g	25.5	0.056	Yes	1 / 7	NR	Max >5x BGD	Yes
10028-17-8	Tritium (Hydrogen-3)	pCi/g	3,930	1.2	Yes	25 / 50	NR	Max >5x BGD	Yes

Table C-16. Soil/Solid Waste (10 to 20 feet below ground surface) Background Comparison of Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Notes:

^a n < 5 when the field duplicate pair in the data set is averaged together or when the same sample was analyzed by two different methods (only 1 result is considered per sample).

^b Maximum value is maximum value of data set, which takes into account duplicate samples and samples analyzed by two different methods; in cases where the same sample was analyzed by two methods, the method with the lower detection limit was chosen.

^c The maximum concentration exceeds background; however, the detected concentrations appear consistent with background.

* Shaded cells and text in bold highlight those constituents with maximum concentrations exceeding the screening value; these constituents will be retained for the next step in the screening process.

Acronyms/Abbreviations:

BGD - background concentration

CAS - Chemical Abstracts Service

COPC - constituent of potential concern

Det - detection frequency

J - concentration is an estimated value

Max - maximum detected concentration

mg/kg - milligrams per kilogram

n - sample size

NR - not performed

pCi/g - picocuries per gram

WRS - Wilcoxon Rank Sum test

Table C-17. Soil/Solid Waste (0 to 10 feet below ground surface) Exposure Point Concentration Comparison - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/Constituent	Detection Frequency	Maximum Concentration (mg/kg or pCi/g)	95 percent UCL (mg/kg or pCi/g)	UCL Distribution Basis	EPC (mg/kg or pCi/g)	Screening Value ¹ (mg/kg or pCi/g)	Screening Value Comparison Result	Retain as COPC?	
Eastern Trenches									
Carbon-14	2 / 33	6%	1.8 J	0.681	Nonparametric	0.681	0.476	ASL	Yes
Cesium-137	9 / 31	29%	0.073	0.0346	Nonparametric	0.0346	0.0615	BSL	No
Tritium (Hydrogen-3)	9 / 33	27%	333	58.48	Nonparametric	58.48	0.882	ASL	Yes
Dieldrin	13 / 33	39%	0.13	0.021	Nonparametric	0.021	0.03	BSL	No
Hexachlorobenzene	1 / 33	3%	0.44	0.208 ^a	Normal	0.208	0.3	BSL	No
Landfill Unit No. 1									
Arsenic	23 / 23	100%	140	50.23	Nonparametric	50.23	0.39	ASL	Yes
Lead	23 / 23	100%	3,640	1,423	Nonparametric	1,423	80	ASL	Yes
Thallium	8 / 23	35%	4.4	1.515	Nonparametric	1.515	0.78	ASL	Yes
PCB-1260 (Aroclor 1260)	1 / 14	7%	0.3	0.135 ^a	Nonparametric	0.135	0.22	BSL	No
Carbon-14	2 / 14	14%	4.74	2.4	Nonparametric	2.4	0.476	ASL	Yes
Cesium-137	2 / 12	17%	0.055 J ^b	0.0265	Normal	0.0265	0.0615	BSL	No
Strontium-90	1 / 14	7%	0.31	0.184	Nonparametric	0.184	0.24	BSL	No
Benzo(a)pyrene	1 / 23	4%	0.022	0.202 ^a	Nonparametric	0.202	0.015	ASL	Yes
Pentachlorophenol	1 / 23	4%	2 J	0.603 ^a	Normal	0.603 ^c	0.89	BSL	No
Landfill Unit No. 2									
Copper	23 / 23	100%	4,300	1,313	Nonparametric	1,313	3,100	BSL	No
Lead	23 / 23	100%	729	376.1	Nonparametric	376.1	80	ASL	Yes
Thallium	3 / 23	13%	4.4	1.104	Nonparametric	1.104	0.78	ASL	Yes
PCB-1260 (Aroclor 1260)	2 / 14	14%	0.31	0.31	Nonparametric	0.31	0.22	ASL	Yes
p,p'-DDE	10 / 23	43%	1.9	0.287	Nonparametric	0.287	1.4	BSL	No
Carbon-14	5 / 23	22%	3.1 J ^b	1.658	Nonparametric	1.658	0.476	ASL	Yes
Cesium-137	17 / 22	77%	0.252	0.149	Nonparametric	0.149	0.0615	ASL	Yes
Strontium-90	1 / 22	5%	0.42	0.226	Nonparametric	0.226	0.24	BSL	No
Tritium (Hydrogen-3)	5 / 23	22%	2.317 ^b	0.643	Nonparametric	0.643	0.882	BSL	No
Benzo(a)anthracene	2 / 22	9%	0.68	0.278 ^a	Nonparametric	0.278	0.15	ASL	Yes
Benzo(a)pyrene	2 / 22	9%	0.49	0.195 ^a	Nonparametric	0.195	0.015	ASL	Yes
Benzo(b)fluoranthene	2 / 22	9%	0.47	0.194 ^a	Nonparametric	0.194	0.15	ASL	Yes
Landfill Unit No. 3									
Iron	14 / 14	100%	87,200	49,524	Normal	49,524	55,000	BSL	No
Lead	21 / 21	100%	2,540	996.6	Nonparametric	996.6	80	ASL	Yes
Manganese	6 / 6	100%	4,300	3,926	Nonparametric	3,926	1,800	ASL	Yes
Thallium	9 / 21	43%	5.2	1.533	Nonparametric	1.533	0.78	ASL	Yes
PCB-1254 (Aroclor 1254)	1 / 21	5%	0.29	0.0922 ^a	Nonparametric	0.0922	0.22	BSL	No
PCB-1260 (Aroclor 1260)	4 / 21	19%	1.6	0.491	Nonparametric	0.491	0.22	ASL	Yes
Carbon-14	6 / 21	29%	3.77	1.434	Nonparametric	1.434	0.476	ASL	Yes
Cesium-137	15 / 21	71%	1.67	0.472	Nonparametric	0.472	0.0615	ASL	Yes
Strontium-90	7 / 21	33%	5.07	1.806	Nonparametric	1.806	0.24	ASL	Yes
Southern Trenches									
Carbon-14	1 / 21	5%	15.1	5.07	Nonparametric	5.07	0.476	ASL	Yes
Cesium-137	4 / 21	19%	0.07	0.0236	Normal	0.0236	0.0615	BSL	No
Lead-210	4 / 21	19%	3.75 J	2.88	Nonparametric	2.88	0.335	ASL	Yes
Waste Burial Holes									
Carbon-14	33 / 54	61%	771 ^b	41.9	Normal	41.9	0.476	ASL	Yes
Cesium-137	2 / 11	18%	2,307 ^b	1,236	Nonparametric	1,236	0.0615	ASL	Yes
Radium-226	11 / 11	100%	0.878	0.711	Normal	0.711	0.0121	ASL	Yes
Tritium (Hydrogen-3)	45 / 68	66%	3,530	184	Normal	184	0.882	ASL	Yes
Naphthalene	2 / 15	13%	92	42.69 ^a	Nonparametric	42.69	3.6	ASL	Yes
Strontium-90	6 / 12	50%	0.91 ^b	0.556	Normal	0.556	0.24	ASL	Yes
Uranium-238	3 / 3	100%	2.17 J	--- ^c	--- ^c	2.17 J	0.696	ASL	Yes

Table C-17. Soil/Solid Waste (0 to 10 feet below ground surface) Exposure Point Concentration Comparison - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

- Notes:**
- ¹ Screening value from Table C-2.
 - ^a UCL calculation performed with low numbers of detected samples (one-half the detection limit was substituted for non-detect values in datasets with only one detected value; the full detection limit was substituted for non-detect values in datasets with more than one detection).
 - ^b Maximum is average of sample and its field duplicate.
 - ^c Insufficient number of samples to perform UCL calculation.
- *Shaded cells and text in bold highlight those constituents with EPCs exceeding the initial screening value; these constituents are retained as COPCs designated for further qualitative evaluation.

Acronyms/Abbreviations:

- ASL - above screening level
- BSL - below screening level
- COPC - constituent of potential concern
- EPC - exposure point concentration
- FS - Feasibility Study
- J - concentration is an estimated value
- mg/kg - milligrams per kilogram
- pCi/g - picocuries per gram
- UCL - upper confidence limit
- - not applicable

Table C-18. Soil/Solid Waste (10 to 20 feet below ground surface) Exposure Point Concentration Comparison - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/Constituent	Detection Frequency		Maximum Concentration (mg/kg or pCi/g)	95 percent UCL (mg/kg or pCi/g)	UCL Distribution Basis	EPC (mg/kg or pCi/g)	Screening Value ¹ (mg/kg or pCi/g)	Screening Value Comparison Result	Retain As COPC?
Eastern Trenches									
Carbon-14	1 / 5	20%	6.7	7.177	Nonparametric	6.7	0.476	ASL	Yes
Tritium (Hydrogen-3)	3 / 5	60%	1.3	0.89	Normal	0.89	0.882	= SV ^a	No
Landfill Unit No. 1									
Carbon-14	2 / 3	67%	2.5	--- ^b	--- ^b	2.5	0.476	ASL	Yes
Landfill Unit No. 2									
Arsenic	8 / 8	100%	12.8	10.03	Normal	10.03	0.39	ASL	Yes
Lead	8 / 8	100%	938	631.1	Nonparametric	631.1	80	ASL	Yes
Carbon-14	2 / 10	20%	2.4	4.958	Nonparametric	2.4	0.476	ASL	Yes
Strontium-90	1 / 10	10%	0.34	0.258	Nonparametric	0.258	0.24	ASL	Yes
Potassium-40	8 / 8	100%	18.6	15.68	Normal	15.68	0.116	ASL	Yes
Landfill Unit No. 3									
Carbon-14	1 / 8	13%	1.29	0.687	Normal	0.687	0.476	ASL	Yes
Southern Trenches									
---	---	---	---	---	---	---	---	---	---
Waste Burial Holes									
Carbon-14	27 / 50	54%	15.7	4.75	Nonparametric	4.75	0.476	ASL	Yes
Strontium-90	1 / 7	14%	12.9 ^c	11.5	Nonparametric	11.5	0.24	ASL	Yes
Tritium (Hydrogen-3)	25 / 50	50%	3,930	454	Nonparametric	454	0.882	ASL	Yes

Notes:

¹ Screening value from Table C-2.

^a When rounded, EPC is equivalent to screening value.

^b Insufficient number of samples to perform UCL calculation.

^c Maximum is average of sample and its field duplicate.

*Shaded cells and text in bold highlight those constituents with EPCs exceeding the initial screening value; these constituents are retained as COPCs designated for further qualitative evaluation.

Acronyms/Abbreviations:

ASL - above screening level

COPC - constituent of potential concern

EPC - exposure point concentration

mg/kg - milligrams per kilogram

pCi/g - picocuries per gram

UCL - upper confidence limit

= SV - equal to screening value

--- - not applicable

Table C-19. Residential Cancer Risks for Feasibility Study - Volume 1 Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/Constituent	Residential Screening				Percent of Risk due to Background ⁵
	EPC ¹ [mg/kg or pCi/g]	Value ² [mg/kg or pCi/g]	Residential Risk ³	Incremental Risk ⁴	
Eastern Trenches					
0-10 feet bgs					
Tritium (Hydrogen-3)	58	0.882	6.6E-05	6.5E-05	2.1%
Carbon-14	0.68	0.476	1.4E-06	1.2E-06	19.1%
		Total Risk (0-10)	6.8E-05	6.6E-05	
10-20 feet bgs					
Carbon-14	6.7	0.476	1.4E-05	1.4E-05	1.9%
		Total Risk (10-20)	1.4E-05	1.4E-05	
		Total Risk (0-20)	8.2E-05	8.0E-05	
Landfill Unit No. 1					
0-10 feet bgs					
Arsenic	50	0.39	1.3E-04	1.0E-04	19.1%
Carbon-14	2.4	0.476	5.0E-06	4.8E-06	5.4%
Benzo(a)pyrene	0.022	0.015	1.5E-06	1.5E-06	0%
		Total Risk (0-10)	1.4E-04	1.1E-04	
10-20 feet bgs					
Carbon-14	2.5	0.476	5.3E-06	5.0E-06	5.2%
		Total Risk (10-20)	5.3E-06	5.0E-06	
		Total Risk (0-20)	1.4E-04	1.2E-04	
Landfill Unit No. 2					
0-10 feet bgs					
Carbon-14	1.7	0.476	3.5E-06	3.2E-06	7.8%
Cesium-137	0.15	0.0615	2.4E-06	2.2E-06	8.1%
PCB-1260 (Aroclor 1260)	0.31	0.22	1.4E-06	1.4E-06	0%
Benzo(a)anthracene	0.28	0.15	1.9E-06	1.9E-06	0%
Benzo(a)pyrene	0.20	0.015	1.3E-05	1.3E-05	0%
Benzo(b)fluoranthene	0.19	0.15	1.3E-06	1.3E-06	0%
		Total Risk (0-10)	2.3E-05	2.3E-05	
10-20 feet bgs					
Arsenic	10	0.39	2.6E-05	1.1E-06	95.7%
Potassium-40	16	0.116	1.4E-04	1.4E-05	89.3%
Carbon-14	2.4	0.476	5.0E-06	4.8E-06	5.4%
Strontium-90	0.26	0.24	1.1E-06	8.4E-07	21.7%
		Total Risk (10-20)	1.7E-04	2.1E-05	
		Total Risk (0-20)	1.9E-04	4.4E-05	
Landfill Unit No. 3					
0-10 feet bgs					
Carbon-14	1.4	0.476	3.0E-06	2.7E-06	9.1%
Cesium-137	0.47	0.0615	7.7E-06	7.5E-06	2.5%
Strontium-90	1.8	0.24	7.5E-06	7.3E-06	3.1%
PCB-1260 (Aroclor 1260)	0.49	0.22	2.2E-06	2.2E-06	0%
		Total Risk (0-10)	2.0E-05	2.0E-05	
10-20 feet bgs					
Carbon-14	0.69	0.476	1.4E-06	1.2E-06	18.9%
		Total Risk (10-20)	1.4E-06	1.2E-06	
		Total Risk (0-20)	2.2E-05	2.1E-05	
Southern Trenches					
0-10 feet bgs					
Carbon-14	5.1	0.476	1.1E-05	1.0E-05	2.6%
		Total Risk (0-10)	1.1E-05	1.0E-05	
		Total Risk (0-20)	1.1E-05	1.0E-05	

Table C-19. Residential Cancer Risks for Feasibility Study - Volume 1 Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/Constituent	Residential Screening		Residential Risk ³	Incremental Risk ⁴	Percent of Risk due to Background ⁵
	EPC ¹ [mg/kg or pCi/g]	Value ² [mg/kg or pCi/g]			
Waste Burial Holes					
0-10 feet bgs					
Carbon-14	42	0.476	8.8E-05	8.8E-05	0.3%
Tritium (Hydrogen-3)	184	0.882	2.1E-04	2.1E-04	0.7%
Strontium-90	0.56	0.24	2.3E-06	2.1E-06	10.1%
Cesium-137	1,236	0.0615	2.0E-02	2.0E-02	0.001%
Naphthalene	43	3.6	1.2E-05	1.2E-05	0%
		Total Risk (0-10)	2.0E-02	2.0E-02	
10-20 feet bgs					
Carbon-14	4.8	0.476	1.0E-05	9.7E-06	2.7%
Tritium (Hydrogen-3)	454	0.882	5.1E-04	5.1E-04	0.3%
Strontium-90	12	0.24	4.8E-05	4.8E-05	0.5%
		Total Risk (10-20)	5.7E-04	5.7E-04	
		Total Risk (0-20)	2.1E-02	2.1E-02	

Notes:

Table does not include carcinogenic constituents retained on Tables C-17 and C-18 and eliminated in the qualitative evaluation (Appendix C, Section C4.4). Lead is not included on this table as toxicity is measured by blood-lead levels rather than cancer risk or non-cancer hazard.

¹ Exposure point concentration is calculated as the 95% upper confidence limit on the mean concentration or maximum sample concentration, whichever is lower (Tables C-17 and C-18).

² Screening values from Table C-2.

³ Calculated risk posed by current EPCs for a potential on-Site age-adjusted adult resident.

⁴ Incremental risk is the risk due to the difference between the EPC and background.

⁵ Percent of risk due to background is the percent of total risk that is posed by background levels of the constituent; values in *italics* are greater than 50 percent.

Acronyms/Abbreviations:

- bgs - below ground surface
- EPC - exposure point concentration
- mg/kg - milligrams per kilogram
- pCi/g - picocuries per gram

Table C-20. Residential Non-Cancer Hazards for Feasibility Study - Volume 1 Constituents of Potential Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit/Constituent	EPC ¹ [mg/kg or pCi/g]	Screening Value [mg/kg or pCi/g] ²	Hazard Quotient ³	Incremental Hazard ⁴	Percent of Hazard Due to Background ⁵
Eastern Trenches					
Landfill Unit No. 1					
0-10 feet bgs					
Thallium	1.52	0.78	1.9	0.0	100%
		Total Hazard (0-10)	1.9	0.0	
Landfill Unit No. 2					
0-10 feet bgs					
Thallium	1.10	0.78	1.4	0.0	100%
		Total Hazard (0-10)	1.4	0.0	
Landfill Unit No. 3					
0-10 feet bgs					
Manganese	3,926	1,800	2.2	1.8	19.1%
Thallium	1.53	0.78	2.0	0.0	100%
		Total Hazard (0-10)	4.1	1.8	
Southern Trenches					
Waste Burial Holes					

Notes:

Table does not include non-carcinogenic constituents retained on Tables C-17 and C-18 and eliminated in the qualitative evaluation (Appendix C, Section C4.4). Lead is not included on this table as toxicity is measured by blood-lead levels rather than cancer risk or non-cancer hazard.

¹ Exposure point concentration is calculated as the 95 percent upper confidence limit on the mean concentration, or the maximum sample concentration, whichever is lower (Tables C-17 and C-18).

² Screening value from Table C-2.

³ Calculated hazard posed by current EPCs to a potential on-Site age-adjusted adult resident.

⁴ Incremental hazard is the hazard due to the difference between the EPC and background.

⁵ Percent of hazard due to background is the percent of total hazard that is posed by background levels of the constituent; values over 50 percent are shown in *italics*.

Acronyms/Abbreviations:

- bgs - below ground surface
- EPC - exposure point concentration
- mg/kg - milligrams per kilogram
- pCi/g - picocuries per gram

Table C-21. Feasibility Study - Volume 1 Soil/Solid Waste Constituents of Concern List - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit	0-10 feet bgs	10-20 feet bgs
Eastern Trenches	Tritium (Hydrogen-3) Carbon-14	Carbon-14
Landfill Unit No. 1	Arsenic Lead Thallium ^a Carbon-14 Benzo(a)pyrene	Carbon-14
Landfill Unit No. 2	Lead Thallium ^a Carbon-14 Cesium-137 Aroclor 1260 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	Arsenic ^b Lead Potassium-40 Carbon-14 Strontium-90
Landfill Unit No. 3	Lead Manganese Thallium ^a Carbon-14 Cesium-137 Strontium-90 Aroclor 1260	Carbon-14
Southern Trenches	Lead-210 ^c <i>Carbon-14^d</i>	---
Waste Burial Holes	Carbon-14 Tritium (Hydrogen-3) Radium-226 ^e Strontium-90 Uranium-238 ^e Cesium-137 Naphthalene	Carbon-14 Tritium (Hydrogen-3) Strontium-90

Notes:

Gray shaded text indicates constituents that passed through the human health risk-based screening process but are not retained as FS - Volume 1 COCs.

Italicized text indicates an FS - Volume 1 COPC.

^a Thallium is not retained as an FS - Volume 1 COC because the associated hazard is due to background at LFU-1, LFU-2, and LFU-3.

^b Arsenic is not retained as an FS - Volume 1 COC because the majority of risk is due to background; the incremental risk is 1×10^{-6} .

^c Lead-210 passes through the human health risk-based screening process but is not retained as an FS - Volume 1 COC because the activities detected are consistent with background.

^d Carbon-14 is retained as an FS - Volume 1 COPC until further evaluation due to poor data quality and a low detection frequency.

^e Radium-226 and uranium-238 pass through the human health risk-based screening process but are not retained as FS - Volume 1 COCs because the samples with concentrations exceeding screening values are from two samples collected from fill imported during the WBH removal action. The results indicate that the concentrations detected are likely consistent with background concentrations.

Acronyms/Abbreviations:

- bgs - below ground surface
- COC - constituent of concern
- COPC - constituent of potential concern
- FS - Feasibility Study
- WBH - Waste Burial Holes

Table C-22. Summary of HHRA - Part A Age-Adjusted Adult Human Health Cancer Risks by Exposure Route for Contaminants in Soil/Solid Waste - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit	Constituent ¹	EPC ² (0–10 feet) (mg/kg; pCi/g)	Cancer Risk by Exposure Route								Total Cancer Risk	Risk Management Decision ⁴
			Soil Ingestion	Soil Dermal Exposure	Aboveground Plant Ingestion ³	Belowground Plant Ingestion ³	External Radiation	Dust Inhalation	Outdoor Air Inhalation	Indoor Air Inhalation		
Eastern Trenches	Dieldrin	0.019	8.00E-07	1.80E-07	3.00E-06	2.70E-07	---	4.00E-11	---	---	4.25E-06	HHRA - Part C COC; Not an FS - Volume 1 COC; EPC less than screening value
	Hexachlorobenzene	0.21	9.00E-07	2.00E-07	1.50E-06	1.40E-07	---	5.00E-11	---	---	2.74E-06	HHRA - Part C COC; Not an FS - Volume 1 COC; EPC less than screening value; low detection frequency (1/33)
Total Risk											6.99E-06	
Landfill Unit No. 1	Arsenic	31	1.20E-04	8.00E-06	6.00E-04	1.30E-04	---	7.00E-08	---	---	8.58E-04	HHRA - Part C COC FS - Volume 1 COC
	Cadmium	1.9	1.80E-06	4.00E-09	1.10E-04	1.40E-05	---	1.50E-09	---	---	NA	HHRA - Part C COC, primarily due to the plant ingestion pathway; concentrations of cadmium in soil are below levels that US EPA considers acceptable for agricultural use (US EPA set a safe concentration for cadmium in soil used to grow plants for food at 60 mg/kg, after extensive research, as part of the biosolids rule [US EPA, 1995]). The EPC is below the residential soil PRG of 37 mg/kg used in HHRA - Part A. Not an FS - Volume 1 COC; EPC is less than the current US EPA RSL of 70 mg/kg; cadmium is no longer considered a carcinogen; low detection frequency (3/23).
Total Risk											8.58E-04	
Landfill Unit No. 2	Benzo(a)pyrene	0.18	3.00E-06	1.00E-06	4.00E-06	5.00E-07	---	2.60E-10	---	---	8.50E-06	HHRA - Part C COC FS - Volume 1 COC; low detection frequency (2/22)
	Benzo(k)fluoranthene	0.19	7.00E-07	1.80E-07	7.00E-05	8.00E-06	---	1.10E-11	---	---	7.89E-05	HHRA - Part C COC, but with some uncertainty since the detection frequency is low (2/22) and due to the ubiquity of PAHs. Not an FS - Volume 1 COC; maximum concentration less than current US EPA RSL of 1.48 mg/kg (previous RSL used in HHRA - Part A was 0.378 mg/kg).
Landfill Unit No. 3	Cadmium	2.30	1.90E-06	6.00E-09	1.40E-04	2.50E-05	---	2.60E-09	---	---	NA	HHRA - Part C COC, primarily due to the plant ingestion pathway; concentrations of cadmium in soil are below levels that US EPA considers acceptable for agricultural use (US EPA set a safe concentration for cadmium in soil used to grow plants for food at 60 mg/kg, after extensive research, as part of the biosolids rule [US EPA, 1995]). The EPC is below the residential soil PRG of 37 mg/kg used in HHRA - Part A. Not an FS - Volume 1 COC; EPC is less than the current US EPA RSL of 70 mg/kg; cadmium is no longer considered a carcinogen.
	Cesium-137	0.14	7.00E-09	---	2.70E-08	---	3.80E-06	3.40E-14	---	---	3.83E-06	HHRA - Part C COC FS - Volume 1 COC
Total Risk											9.12E-05	
Landfill Unit No. 3	Aroclor 1260	0.24	1.20E-06	4.00E-07	1.30E-06	1.30E-07	---	1.20E-11	---	---	3.03E-06	HHRA - Part C COC FS - Volume 1 COC
	Cadmium	4.7	5.00E-06	1.00E-08	3.00E-04	4.00E-05	---	4.00E-09	---	---	NA	HHRA - Part C COC, primarily due to the plant ingestion pathway; concentrations of cadmium in soil are below levels that US EPA considers acceptable for agricultural use (US EPA set a safe concentration for cadmium in soil used to grow plants for food at 60 mg/kg, after extensive research, as part of the biosolids rule [US EPA, 1995]). The EPC is below the residential soil PRG of 37 mg/kg used in HHRA - Part A. Not an FS - Volume 1 COC; EPC is less than the current US EPA RSL of 70 mg/kg; cadmium is no longer considered a carcinogen.
Waste Burial Holes ⁵	Cesium-137	0.45	1.80E-08	---	9.00E-08	---	1.30E-05	1.00E-13	---	---	1.31E-05	HHRA - Part C COC FS - Volume 1 COC
	Strontium-90	2	3.00E-07	---	8.00E-06	---	3.90E-07	4.50E-12	---	---	8.69E-06	HHRA - Part C COC FS - Volume 1 COC
Total Risk											2.48E-05	
Waste Burial Holes ⁵	Strontium-90	0.44	6.00E-08	---	1.30E-06	---	9.00E-08	7.90E-13	---	---	1.45E-06	HHRA - Part C COC FS - Volume 1 COC
	Total Risk											1.45E-06

Notes:

¹ Carcinogenic constituents shown are those recommended as COCs in the HHRA - Part C (Brown and Caldwell, 2006). Source data from HHRA - Part A, Tables 7 and 8 (MWH, 2004). Risks are presented if the constituent is present above Site background and contributes at least a factor of 1 in 1 million, or greater than 10 percent, to the excess cumulative cancer risk for a land disposal unit and receptor. Exposures to groundwater and surface water contaminants are not included.

² The 95 percent upper confidence limit on the mean, or maximum sample concentration; chemical concentrations are expressed in milligrams per kilogram, and radionuclide concentrations are expressed in picocuries per gram. Obtained from HHRA - Part A, Tables 3 (MWH, 2004).

³ Homegrown produce. For radionuclides, plant ingestion is not subdivided into aboveground and belowground.

⁴ The primary basis for risk management decisions is included in this field; the decisions from the HHRA are presented in detail in the HHRA - Part C.

⁵ HHRA and FS - Volume 1 data sets differ in number of samples due to differences in categorization of "removed" samples.

Table C-22. Summary of HHRA - Part A Age-Adjusted Adult Human Health Cancer Risks by Exposure Route for Contaminants in Soil/Solid Waste - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Acronyms/Abbreviations:

CHHSL - California Human Health Screening Level
 COC - constituent of concern
 EPC - exposure point concentration
 FS - Feasibility Study
 HHRA - Human Health Risk Assessment
 mg/kg - milligram per kilogram
 NA - not applicable, the constituent is not a carcinogen
 PAH - polycyclic aromatic hydrocarbon
 pCi/g - picocuries per gram
 PRG - Preliminary Remediation Goal
 RSL - Regional Screening Level
 US EPA - United States Environmental Protection Agency
 --- - not applicable

References:

Brown and Caldwell, 2006. *Site-Wide Risk Assessment Volume I Human Health Risk Assessment, Part C- Risk Characterization for UC Davis Landfill Units*, LEHR/SCDS Environmental Restoration, April.
 Montgomery Watson Harza (MWH), 2004. *Site-Wide Risk Assessment Volume I Human Health Risk Assessment, Part A Risk Estimate*, LEHR/SCDS Environmental Restoration, March.
 United States Environmental Protection Agency (US EPA), 1995. *A guide to the Biosolids Risk Assessments for the EPA Part 503 Rule*. EPA832-B-93-005. Office of Wastewater Management. United States Environmental Protection Agency.

Table C-23. Summary of HHRA - Part A Age-Adjusted Adult Human Health Non-Cancer Hazards by Exposure Route for Contaminants in Soil/Solid Waste - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit	Constituent ¹	EPC ² (0-10 feet) (mg/kg)	Non-Cancer Hazard by Exposure Route							Outdoor Air Inhalation	Indoor Air Inhalation	Total Non- Cancer Hazard	Hazard Management Decision ³
			Soil Ingestion	Soil Dermal Exposure	Aboveground Plant Ingestion	Belowground Plant Ingestion	External Radiation	Dust Inhalation					
Landfill Unit No. 1	Cadmium	1.9	0.03	0.0001	1.9	0.2	---	NA	---	---	2.1	HHRA - Part C COC, due to the plant ingestion pathway; concentrations of cadmium in soil are below levels that US EPA considers acceptable for agricultural use (US EPA set a safe concentration for cadmium in soil used to grow plants for food at 60 mg/kg, after extensive research, as part of the biosolids rule [US EPA, 1995]). The EPC is below the residential soil PRG of 37 mg/kg used in HHRA - Part A. Not an FS - Volume 1 COC; maximum concentration is less than the current US EPA RSL of 70 mg/kg.	
											Total Hazard 2.1		
Landfill Unit No. 2	Cadmium	2.3	0.04	0.0001	2.4	0.2	---	NA	---	---	2.6	HHRA - Part C COC, due to the plant ingestion pathway; concentrations of cadmium in soil are below levels that US EPA considers acceptable for agricultural use (US EPA set a safe concentration for cadmium in soil used to grow plants for food at 60 mg/kg, after extensive research, as part of the biosolids rule [US EPA, 1995]). The EPC is below the residential soil PRG of 37 mg/kg used in HHRA - Part A. Not an FS - Volume 1 COC; maximum concentration is less than the current US EPA RSL of 70 mg/kg.	
	Copper	720	0.3	0	25	1.2	---	NA	---	---	26.5		
											Total Hazard 29.1	HHRA - Part C COC, due to plant ingestion pathway; EPC less than residential soil PRG used in HHRA - Part A (3,130 mg/kg). Not an FS - Volume 1 COC; current EPC less than the current US EPA RSL (3,100 mg/kg).	
Landfill Unit No. 3	Cadmium	4.7	0.08	0.0002	4.9	0.5	---	NA	---	---	5.5	HHRA - Part C COC, due to the plant ingestion pathway; concentrations of cadmium in soil are below levels that US EPA considers acceptable for agricultural use (US EPA set a safe concentration for cadmium in soil used to grow plants for food at 60 mg/kg, after extensive research, as part of the biosolids rule [US EPA, 1995]). The EPC is below the residential soil PRG of 37 mg/kg used in HHRA - Part A. Not an FS - Volume 1 COC; maximum concentration is less than the current US EPA RSL of 70 mg/kg.	
	Manganese	2,500	0.3	0	2.8	0.2	---	0.1	---	---	3.4		
											Total Hazard 8.8	HHRA - Part C COC FS - Volume 1 COC	

Notes:

¹ Non-carcinogenic constituents shown are those recommended as COCs in the HHRA - Part C (Brown and Caldwell, 2006). Source data from HHRA - Part A, Tables 7 (MWH, 2004). Constituent hazards are presented here when they exceed a hazard of 1.0 or contribute at least 10 percent to a total hazard exceeding 1.0 for a land disposal unit and receptor. Exposures to groundwater and surface water contaminants are not included.

² The 95 percent upper confidence limit on the mean or maximum sample concentration, whichever is lower; chemical concentrations are expressed in milligrams per kilogram. Obtained from HHRA - Part A, Tables 3 (MWH, 2004).

³ The primary basis for hazard management decisions is included in this field; the decisions from the HHRA are presented in detail in the HHRA - Part C.

Acronyms/Abbreviations:

- COC - constituent of concern
- EPC - exposure point concentration
- FS - Feasibility Study
- HHRA - Human Health Risk Assessment
- mg/kg - milligrams per kilogram
- MWH - Montgomery Watson Harza
- NA - not applicable
- PRG - Preliminary Remediation Goal
- RSL - Regional Screening Level
- US EPA - United States Environmental Protection Agency
- - not applicable

References:

- Brown and Caldwell, 2006. *Site-Wide Risk Assessment Volume I Human Health Risk Assessment, Part C - Risk Characterization for UC Davis Landfill Units, LEHR/SCDS Environmental Restoration*, April.
- Montgomery Watson Harza (MWH), 2004. *Site-Wide Risk Assessment Volume I Human Health Risk Assessment, Part A Risk Estimate, LEHR/SCDS Environmental Restoration*, March.
- United States Environmental Protection Agency (US EPA), 1995. *A guide to the Biosolids Risk Assessments for the EPA Part 503 Rule*, EPA832-B-93-005, Office of Wastewater Management.

Table C-24. Comparison of HHRA – Part C Preliminary Constituents of Concern with Updated Feasibility Study - Volume 1 Constituents of Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Land Disposal Unit	FS - Volume 1 COCs	HHRA - Part C COCs (0-10 feet) ^a	Eliminated from or Added to Risk Assessment List	Reason for Addition/Exclusion in FS - Volume 1 COC List
Eastern Trenches				
0-10 feet bgs	Tritium (Hydrogen-3)	---	Added	EPC > US EPA PRG and BGD
	Carbon-14	---	Added	EPC > US EPA PRG and BGD (det. freq. = 2/33)
	---	Dieldrin	Eliminated	95% UCL < SV
	---	Hexachlorobenzene	Eliminated	95% UCL < SV
10-20 feet bgs	Carbon-14	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C
Landfill Unit No. 1				
0-10 feet bgs	Arsenic	Arsenic	Same	---
	Lead	---	Added	EPC > CHHSL and BGD; not considered above BGD in HHRA - Part C
	Carbon-14	---	Added	EPC > US EPA PRG and BGD (det. freq. = 2/14)
	Benzo(a)pyrene	---	Added	EPC > US EPA RSL; did not exceed risk-based screening value in HHRA - Part C (det. freq. = 1/23)
10-20 feet bgs	---	Cadmium	Eliminated	95% UCL < SV
	Carbon-14	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C
Landfill Unit No. 2				
0-10 feet bgs	---	Cadmium	Eliminated	Maximum concentration < SV
	Lead	---	Added	EPC > CHHSL and BGD; not considered above BGD in HHRA - Part C
	Carbon-14	---	Added	EPC > US EPA PRG and BGD
	Cesium-137	Cesium-137	Same	---
	Aroclor 1260	---	Added	EPC > US EPA RSL (det. freq. = 2/14)
	Benzo(a)anthracene	---	Added	EPC > US EPA RSL (det. freq. = 2/22)
	Benzo(a)pyrene	Benzo(a)pyrene	Same	---
	Benzo(b)fluoranthene	---	Added	EPC > US EPA RSL (det. freq. = 2/22)
	---	Benzo(k)fluoranthene	Eliminated	Maximum concentration < SV
	---	Copper	Eliminated	95% UCL < SV
10-20 feet bgs	Lead	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C
	Potassium-40	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C; 89% of risk posed by potassium-40 is due to background
	Carbon-14	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C
	Strontium-90	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C
Landfill Unit No. 3				
0-10 feet bgs	---	Cadmium	Eliminated	Maximum value < SV
	Lead	---	Added	EPC > CHHSL and BGD; not considered above BGD in HHRA - Part C
	Manganese	Manganese	Same	---
	Carbon-14	---	Added	EPC > US EPA PRG and BGD
	Cesium-137	Cesium-137	Same	---
	Strontium-90	Strontium-90	Same	---
10-20 feet bgs	Aroclor 1260	Aroclor 1260	Same	---
	Carbon-14	---	Added	--- (det. freq. = 4/21)
Southern Trenches				
0-10 feet bgs	Carbon-14	---	Added	EPC > US EPA PRG and BGD; did not exceed risk-based screening value in HHRA - Part C; however, because of poor data quality and low det. freq. = 1/21 it is designated an FS - Volume 1 COPC until further evaluation
Waste Burial Holes				
0-10 feet bgs	Carbon-14	---	Added	EPC > US EPA PRG and BGD
	Tritium (Hydrogen-3)	---	Added	EPC > US EPA PRG and BGD
	Strontium-90	Strontium-90	Same	---
	Cesium-137	---	Added	EPC > US EPA PRG and BGD; did not exceed risk-based screening value in HHRA - Part C (det. freq. = 2/11)
10-20 feet bgs	Naphthalene	---	Added	EPC > US EPA RSL; did not exceed risk-based screening value in HHRA - Part C (det. freq. = 2/15)
	Carbon-14	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C
	Tritium (Hydrogen-3)	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C
	Strontium-90	---	Added	No COCs identified below 10 feet bgs in HHRA - Part C

Notes:

Bold text indicates COC identified in both the HHRA - Part C and FS - Volume 1.

^a The HHRA - Part C designated soil/solid waste COCs for the 0-10 foot bgs depth interval only

Acronyms/Abbreviations:

BGD - background

bgs - below ground surface

CHHSL - California Human Health Screening Level

Table C-24. Comparison of HHRA – Part C Preliminary Constituents of Concern with Updated Feasibility Study - Volume 1 Constituents of Concern - Update - Soil/Solid Waste Human Health Constituents of Concern, UC Davis LEHR/OCL

Acronyms/Abbreviations (continued):

- COC - constituent of concern
- COPC - constituent of potential concern
- det. freq. - detection frequency
- EPC - exposure point concentration
- FS - Feasibility Study
- HHRA - Human Health Risk Assessment
- PRG - Preliminary Remediation Goal
- RSL - Regional Screening Level
- SV - screening value
- UCL - upper confidence limit
- US EPA - United States Environmental Protection Agency
- - not applicable
- < - less than
- > - greater than

Reference:

Brown & Caldwell, 2006. *Site-Wide Risk Assessment, Volume I Human Health Risk Assessment (Part C – Risk Characterization for UC Davis Areas), LEHR/SCDS Environmental Restoration* , April.