

Appendix C

Human Health Risk Evaluation

Artesia & Flallon, LLC and Borstein Enterprises

**Human Health Risk Evaluation for 11709 Artesia Boulevard,
17208 and 17212 Alburtis Avenue, Artesia, California**

Date June 14, 2022

Ramboll US Consulting, Inc. ("Ramboll") conducted a screening human health risk assessment (HHRA) for the properties located at 11709 Artesia Boulevard and 17208 and 17212 Alburtis Avenue in Artesia, Los Angeles County, California (the "site" or "Property"). The objective of the screening HHRA was to assess the potential health risks to future on-site commercial/industrial workers and residents based on residual concentrations of chemicals in soil, soil gas and groundwater.

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The following sections include a discussion of site background, investigation results, a screening health risk assessment (HRA) and conclusions.

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Background

California Dairies Inc. owns and formerly operated a dairy product processing facility and associated parking lot located at 11709 Artesia Boulevard and 17208 and 17212 Alburtis Avenue in Artesia, Los Angeles County, California. The approximately 3.33-acre processing facility and 0.248-acre parking lot parcels that comprise the site are located approximately 20 miles southeast of the City of Los Angeles (Figure 1). The main portion of the site is improved as the former California Dairies Inc. manufacturing facility. Structures at the site include approximately five (5) buildings totaling over 50,000-square-feet.

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The site is currently vacant. Future development plans include commercial, live/work and townhomes. Future onsite populations would include commercial/industrial workers and residents.

Investigation Results

A Phase II Environmental Site Assessment (ESA) was conducted by GHD Services Inc. (GHD) in 2020 for the property at 11709 East Artesia Boulevard, Artesia, California (GHD 2020). This was followed by a Phase I Environmental Site Assessment and additional Phase II Subsurface Investigation that were conducted by Ramboll in 2021 for 11709 Artesia Boulevard, 17208 and 17212 Alburdis Avenue, Artesia, California (Ramboll 2021). These investigations are discussed below.

GHS Phase II ESA

During the GHD Phase II ESA, six soil borings were advanced to 25 feet below ground surface (bgs).

Soil samples were collected on July 30/31, 2020, and analyzed for the following constituents:

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260B
- Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 8270C
- Organochlorine Pesticides by USEPA Method 8081A
- Polychlorinated Biphenyls (PCBs) by USEPA Method 8082
- Herbicides by USEPA Method 8151A
- CAM 17 metals by USEPA Method 6010B; mercury by USEPA Method 7471A
- Total Petroleum Hydrocarbons (TPH) by USEPA Method 8015 reported as Gasoline Range and Organics (GRO) (C4-C12), Diesel Range Organics (DRO) (C10-C28), and TPH as Motor Oil (C17-C44).

The TPH analysis was only performed on the deepest soil samples collected from Borings B1 and B3. Pesticide, PCB, and herbicide analysis was not performed on the deepest soil sample collected from each of the six borings, because such constituents are unlikely to be present at depth.

Attachment A, Figure A-1, shows the six boring locations. Soil sample results are presented in the Attachment A tables (Tables A-1 through A-3). The results of the GHD soil sampling indicated that limited and *de minimis* concentrations of pesticides and VOCs are present in soil. Table 1 of this letter report summarizes the detected pesticides and VOCs in soil. Table 2 of this letter report summarizes the maximum detected concentration of metals in soil.

Groundwater was first encountered in each of the six soil borings at depths ranging from 11 to 17 ft. Temporary wells were installed and grab groundwater samples were collected on July 30/31, 2020, and analyzed for the following constituents:

- Ammonia by USEPA Method 350.1
- Nitrates and Nitrites by USEPA Method 300.0
- CAM 17 Metals by USEPA Method 6010B, except mercury by USEPA Method 7470A
- TPH, VOCs, and SVOCs by the same methods employed for soil sample analysis and listed above.

Groundwater sampling results are presented in the Attachment A tables (Tables A-4 and A-5). No VOCs were detected in groundwater (*i.e.*, the results were "non-detect"). Metals detected in groundwater

were compared by GHD to maximum contaminant levels (MCLs) for drinking water. The results showed that only mercury slightly exceeded its MCL at a maximum detected concentration of 3.31 micrograms per liter ($\mu\text{g/L}$) compared to its MCL of 2 $\mu\text{g/L}$. This concentration appears to be anomalous and not indicative of any site-wide mercury concern.

Ramboll Phase II Subsurface Investigation

Based on the results from the previous Phase II subsurface investigation, Ramboll conducted a subsequent subsurface investigation at the site that included the collection of soil and soil gas samples. On November 2, 2021, Ramboll collected soil samples from three borings (B1 through B3). Soil samples were collected at approximately 2, 4, and 6 feet bgs at each of the boring locations. Soil samples were analyzed for total TPH. Soil vapor probes were installed at 9 locations on December 1, 2021, and analyzed for VOCs by USEPA Method 8260.

Soil and soil gas sample locations are shown on Figure 2. Table 3 of this letter report summarizes the detected chemicals in soil and Table 4 summarizes the detected chemicals in soil gas.

The results of the Ramboll sampling indicated limited VOCs were detected in soil gas at low concentrations. TPH was detected in all soil borings.

Screening Human Health Risk Assessment

Based on the proposed land use, Ramboll developed a conceptual site model (CSM; see Figure 3). The CSM describes the potentially exposed populations and potentially complete exposure pathways identified for the site. As noted previously, the potential onsite receptors would include commercial/industrial workers and residents.

Potential exposure pathways and routes for commercial/industrial workers and residents are as follows:

- Direct contact with soil (soil ingestion, dermal contact, inhalation of windblown particulates); and
- Inhalation of vapors (migration of soil gas from the subsurface into indoor air).

Only inhalation of VOCs in indoor air was quantitatively evaluated since outdoor concentrations of VOCs will be lower than indoor air concentrations due to higher mixing in the ambient environment.

It is Ramboll's understanding that groundwater will not be used as a drinking water source, and that the drinking water will be municipally-supplied, and that groundwater will not be directly contacted due to the depth of the water table. Since no VOCs were detected in groundwater, there is no complete exposure pathway for migration to air.

All detected soil concentrations were screened using commercial/industrial and residential California Environmental Protection Agency (Cal/EPA) Department of Toxic Substance Control (DTSC)-modified screening levels (SLs) from Cal/EPA DTSC's Human and Ecological Risk Office (HERO) Note 3 (Cal/EPA 2022). If no SLs were available, the commercial/industrial and residential soil RSLs from USEPA (USEPA 2022) were used. According to Cal/EPA (2015), TPH soil data were compared to Environmental Screening Levels (ESLs) developed by California Regional Water Quality Control Board - San Francisco

Bay Region (RWQCB-SF 2016). The soil SLs assume exposure through direct contact with soil (soil ingestion, dermal contact, inhalation of windblown particulates).

Arsenic occurs naturally in soil. An evaluation of arsenic soil data from school sites in Southern California found arsenic concentrations ranging from 0.15 mg/kg to 20 mg/kg, with an upper-bound background arsenic concentration of 12 mg/kg (Chernoff et al, 2008). Arsenic concentrations in soil samples collected at the site were conservatively screened against 12 mg/kg.

The soil gas screening analysis used the default air screening level for each detected VOC from Cal/EPA DTSC HERO Note 3 (Cal/EPA 2022) and USEPA RSL Table (USEPA 2022). These default screening levels were used in combination with a default future commercial buildings attenuation factor (AF) of 0.0005 and a default future residential attenuation factor of 0.001 (for migration from the contamination source to indoor air), as recommended in the 2011 Cal/EPA Vapor Intrusion Guidance (Cal/EPA 2011, Cal/EPA HERO Note 4, 2022).

The health-based screening levels represents the concentration of a chemical that is protective of human health. As a conservative measure, the screening levels were calculated to correspond to a target cancer risk of one in a million (1×10^{-6}) and a target non-cancer hazard quotient (HQ) of one. The National Contingency Plan (NCP) (40 Code of Federal Regulations [CFR] § 300) is commonly cited as the basis for target risk and hazard levels. According to the NCP, lifetime incremental cancer risks posed by a site should not exceed 1×10^{-6} to one hundred in a million (1×10^{-4}), and noncarcinogenic chemicals should not be present at levels expected to cause adverse health effects (i.e., HQ greater than one). As a risk management policy, the Cal/EPA generally considers 1×10^{-6} to be a point of departure for purposes of making risk management decisions, with most approved remediation achieving incremental risk levels of ten in a million (1×10^{-5}) or lower. Since the screening levels correspond to the low end of the target risk range considered by USEPA and Cal/EPA to be protective of human health, the presence of a chemical at a concentration in excess of the screening level does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation may be warranted.

The screening levels used in this evaluation are included in Tables 1 through 4.

Risk Results

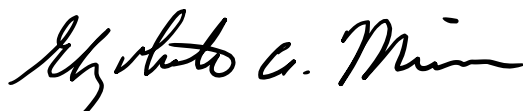
As shown in Table 1, the detected concentrations of pesticides and VOCs in soil are below their corresponding health-based soil screening levels. As shown in Table 2, the maximum detected concentration for all metals in soil are below their corresponding health-based soil screening levels. As shown in Table 3, TPH was below screening levels. All chemicals detected in soil are well below their screening levels and cumulatively would not exceed an excess lifetime cancer risk above 1×10^{-6} or a hazard index above one.

As shown in Table 4, all VOCs detected in soil gas were below their corresponding health-based soil gas screening level except for chloroform in RSV-10 with a concentration of 0.27 µg/L which slightly exceeded its residential screening level of 0.12 µg/L. A concentration of 0.12 µg/L corresponds to an estimated excess lifetime cancer risk of 1×10^{-6} ; a concentration of 0.23 µg/L corresponds to an estimated excess lifetime cancer risk of 2×10^{-6} , well within the lower (more conservative) end of the NCP risk range.

Conclusions

All chemicals detected in soil are well below their screening levels and cumulatively would not exceed an excess lifetime cancer risk above 1×10^{-6} or a hazard index above one. Based on the results of this HHRA analysis of the data collected to date, no significant health risks associated with exposures to soils at the site are expected to occur for the potential future on-site residents and commercial workers. Furthermore, potential vapor intrusion concerns are considered adequately addressed, and vapor mitigation systems (VMS) are not required or warranted for potential future on-site populations.

Yours sincerely



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Table 1. Summary of Soil Sampling Results for VOCs, SVOCs, Pesticides, PCBs and Herbicides (GHD 2020)

Table 2. Summary of Soil Sampling Results for the Maximum Detected Concentration of Metals (GHD 2020)

Table 3. Summary of Soil Sampling Results for TPH

Table 4. Summary of Soil Gas Results for VOCs (Ramboll 2021)

Figure 1: Site Location

Figure 2: Soil Vapor and Soil Sampling Locations (Ramboll 2021)

Figure 3: Conceptual Site Model

Attachment A: Location and results of Phase II ESA soil borings and groundwater temporary wells from GSD (2020).

References

GHD. 2020. Phase II Environmental Site Assessment, California Dairies, Inc., 11709 East Artesia Boulevard, Artesia, California. August 21.

Ramboll. 2021. Phase I Environmental Site Assessment and Phase II Subsurface Investigation, 11709 Artesia Boulevard, 17208 and 17212 Albutis Avenue, Artesia, California. December 20.

Cal/EPA. 2011. Department of Toxic Substances Control. Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance). October.

Cal/EPA. 2022. Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs). May.

Cal/EPA. 2022. Human Health Risk Assessment (HHRA) Note Number 4, Guidance for Screening Level Human Health Risk Assessments. March.

Chernoff G., Bosan W., Oudiz D. 2008. Determination of a Southern California Regional Background Arsenic Concentration in Soil.

Code of Federal Regulations (CFR). Title 40, Environmental Protection Agency. Part 300, National Oil and Hazardous Substances Pollution Contingency Plan. (40 CFR § 300).

USEPA. 2022. Regional Screening Levels (RSLs). May.

Table 1. Summary of Soil Sampling Results for VOCs, SVOCs, Pesticides, PCBs and Herbicides (GHD 2020)
11709 East Artesia Boulevard
 Artesia, California

Location	Depth (feet bgs)	Date Sampled	(µg/kg)						
			4,4'DDE	Alpha-Chlordane	Dieldren	Acetone	Benzene	Isopropyl Benzene	Toluene
DTSC Commercial			NE	NE	93	NE	1,400	NE	5,300,000
USEPA Commercial			9,300	500,000	140	1,100,000,000	5,100	NE	47,000,000
DTSC Residential			NE	NE	34	NE	330	NE	1,100,000
USEPA Residential			2,000	36,000	34	70,000,000	1,200	NE	4,900,000
Soil Commercial Screening Level			9,300	500,000	93	1,100,000,000	1,400	NE	5,300,000
Soil Residential Screening Level			2,000	36,000	34	70,000,000	330	NE	1,100,000
B1	0.5	7/30/2020	<5.0	5.1	1.3	52	<0.93	<0.93	<0.93
	2	7/30/2020	<5.0	<1.0	<1.1	81	5.8	<1.1	2.9
	20	7/30/2020	NA	NA	NA	<38	1.3	<0.75	1.1
B2	0.5	7/30/2020	<5.0	<1.0	<1.1	49	1.3	<0.86	<0.86
	2	7/30/2020	12	<0.99	<0.99	61	3.2	<1.0	1.7
	15	7/30/2020	NA	NA	NA	<39	<0.78	<0.78	<0.78
B3	0.5	7/30/2020	<5.0	1.2	1.3	<45	<0.89	<0.89	<0.89
	2	7/30/2020	<5.0	<0.99	<0.99	<46	3.8	<0.91	1.4
	18	7/30/2020	NA	NA	NA	<40	0.98	<0.81	<0.81
B4	0.5	7/31/2020	<5.0	1.2	<1.0	<61	<1.2	<1.2	<1.2
	2	7/31/2020	<5.0	2.4	<1.0	<53	1.4	<1.1	<1.1
	15	7/31/2020	NA	NA	NA	<44	<0.87	<0.87	<0.87
B5	1	7/31/2020	<5.0	<1.0	<1.0	42	1.6	1.1	2.0
	2	7/31/2020	<5.0	<1.0	<1.0	<45	2.5	<0.90	1.8
	18	7/31/2020	NA	NA	NA	<37	3.0	<0.75	2.2
B6	0.5	7/31/2020	<5.0	<1.0	<1.0	<51	<1.0	<1.0	<1.0
	2	7/31/2020	<5.0	<0.99	<0.99	71	3.4	<0.85	1.9
	18	7/31/2020	NA	NA	NA	<39	3.5	<0.77	2.0

Notes:

bgs = below ground surface

µg/kg = micrograms per kilogram

NA = Sample not analyzed for this compound

Cal/EPA = California Environmental Protection Agency

USEPA = United States Environmental Protection Agency

Only compounds reported above the detection limit are shown.

References:

Cal/EPA. 2022. Human and Ecological Risk Office (HERO) Human Health Risk assessment (HHRA)

Note Number 3, Issue: DTSC-Modified Screening Levels (DTSC-SLs). May.

USEPA. 2022. Regional Screening Levels Summary Table. May.

Table 2. Summary of Soil Sampling Results for the Maximum Detected Concentration of Metals (GHD 2020)
11709 East Artesia Boulevard
Artesia, California

Maximum Concentration Detected	(mg/kg)												
	Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
DTSC Commercial	0.36	NE	230	NE	NE	NE	500	4.4	NE	11,000	NE	NE	NE
USEPA Commercial	3	220,000	2,300	1,800,000	350	47,000	800	46	5,800	22,000	5,800	5,800	350,000
DTSC Residential	0.11	NE	16	NE	NE	NE	80	1	NE	820	NE	NE	NE
USEPA Residential	0.68	15,000	160	120,000	23	3,100	400	11	390	1,500	390	390	23,000
Background	12a												
Soil Commercial Screening Level	12	220,000	230	1,800,000	350	47,000	500	4.4	5,800	11,000	5,800	5,800	350,000
Soil Residential Screening Level	12	15,000	16	120,000	23	3,100	80	1	390	820	390	390	23,000
	8.64	197	0.86	24.3	12.4	39.6	57.8	0.165	0.758	19.2	0.508	47.7	66.3

Notes:

bgs = below ground surface

mg/kg = milligrams per kilogram

Cal/EPA = California Environmental Protection Agency

USEPA = United States Environmental Protection Agency

Only compounds reported above the laboratory reporting limit are shown.

^a Arsenic occurs naturally in soil. An evaluation of arsenic soil data from school sites in Southern California found arsenic concentrations ranging from 0.15 mg/kg to 20 mg/kg, with an upper-bound background arsenic concentration of 12 mg/kg (Chernoff G., Bosan W., Oudiz D. 2008. Determination of a Southern California Regional Background Arsenic Concentration in Soil). Arsenic concentrations in soil samples collected at the site were conservatively screened against 12 mg/kg.

References:

Cal/EPA. 2022. Human and Ecological Risk Office (HERO) Human Health Risk assessment (HHRA)

Note Number 3, Issue: DTSC-Modified Screening Levels (DTSC-SLs). May.

USEPA. 2022. Regional Screening Levels Summary Table. May.

Table 3. Summary of Soil Sampling Results for TPH (Ramboll 2021)**11709 East Artesia Boulevard**

Artesia, California

Location	Depth (feet bgs)	Date Sampled	TPH (mg/kg)		
			TPH - GRO	TPH - DRO	TPH - ORO
SFRWQCB Commercial			2,000	1,200	180,000
SFRWQCB Residential			430	260	12,000
Soil Commercial Screening Level			2,000	1,200	180,000
Soil Residential Screening Level			430	260	12,000
B1	2	11/2/2021	0.28	<5.0	21
	4	11/2/2021	<0.10	<5.1	6.4
	6	11/2/2021	1.6	5.8	23
B2	2	11/2/2021	0.51	5.2	100
	4	11/2/2021	1.9	16	32
	6	11/2/2021	1.1	5.3	28
B3	2	11/2/2021	0.13	<5.1	<5.1
	4	11/2/2021	0.23	<4.9	4.9
	6	11/2/2021	0.76	<4.8	<4.8

Notes:

bgs = below ground surface

DRO = diesel range organics

GRO = gasoline range organics

mg/kg = milligrams per kilogram

ORO = oil range organics

SFRWQCB = San Francisco Bay Regional Water Quality Control Board

TPH = total petroleum hydrocarbons

Soil samples were analyzed for TPH by USEPA Method 8015M.

References:

SFRWQCB. 2019. Environmental Screening Levels. Rev. 2.

Table 4. Summary of Soil Vapor Results for VOCs (Ramboll 2021)

11709 East Artesia Boulevard
Artesia, California

Sample ID	Depth (feet bgs)	Date Sampled	Tetrachloroethene (PCE)	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	1,2,4-Trimethylbenzene	Chloroform
Commerical Soil Vapor Screening Level (Attenuation Factor 0.0005)			4	0.84	9.8	2,600	880	880	520	1.06
Residential Soil Vapor Screening Level (Attenuation Factor 0.001)			0.46	0.097	1.1	310	100	100	63	0.12
RSV-1	5	12/3/2021	<0.0125	<0.025	<0.025	<0.0125	<0.0250	<0.025	<0.025	<0.025
RSV-2	5	12/3/2021	<0.0125	<0.025	<0.025	<0.0125	<0.0250	<0.025	<0.025	<0.025
RSV-3	5	12/3/2021	0.13	<0.025	<0.025	<0.0125	<0.0250	<0.025	<0.025	<0.025
RSV-4	5	12/3/2021	<0.0125	<0.025	<0.025	<0.0125	<0.0250	<0.025	<0.025	<0.025
RSV-5	5	12/3/2021	0.050	0.030	0.020 J	1.8	0.080	0.030	0.020 J	<0.025
RSV-6	5	12/3/2021	--	--	--	--	--	--	--	--
RSV-7	5	12/3/2021	<0.0125	<0.025	<0.025	0.040	<0.0250	<0.025	<0.025	<0.025
RSV-8	5	12/3/2021	<0.0125	<0.025	<0.025	<0.0125	<0.0250	<0.025	<0.025	<0.025
	5	12/3/2021	<0.0125	<0.025	<0.025	<0.0125	<0.0250	<0.025	<0.025	<0.025
RSV-9	5	12/3/2021	<0.0125	<0.025	<0.025	<0.0125	<0.0250	<0.025	<0.025	<0.025
RSV-10	5	12/3/2021	<0.0125	<0.025	<0.025	0.020 J	<0.0250	<0.025	<0.025	0.27

Notes:

µg/l - micrograms per liter

<X - value not reported above the laboratory reporting limit

-- - not analyzed

Duplicate sample is italicized

J - Analyte concentration detected between Reporting Limit (RL) and Method Detection Limit (MDL)

VOCs - Volatile Organic Compounds

Soil vapor samples were analyzed for VOCs by USEPA Method 8260B.

Only compounds reported above the laboratory reporting limit are shown.

Indicates compounds exceed soil gas residential scenario screening level using a 0.001 AF.

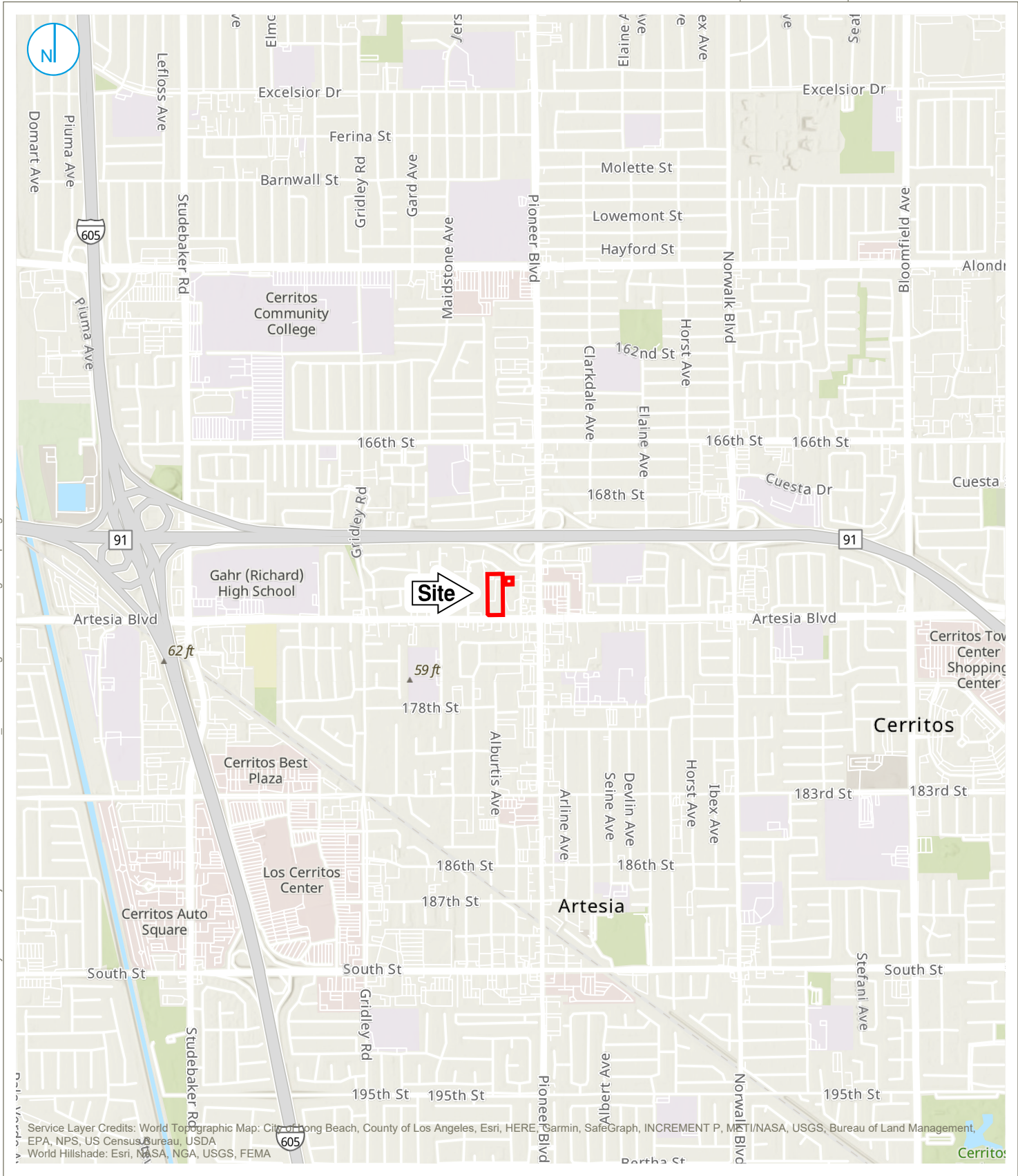
References:

Cal/EPA. 2022. Human and Ecological Risk Office (HERO) Human Health Risk assessment (HHRA) Note Number 3, Issue: DTSC-Modified Screening Levels (DTSC-SLs). May.

Cal/EPA. 2022. Human and Ecological Risk Office (HERO) Human Health Risk assessment (HHRA) Note Number 4, Issue: Guidance for Screening Level Human Health Risk Assessments. May.

USEPA. 2022. Regional Screening Levels Summary Table. May.

C:\Users\CWILLIAMS\FREIER\RAMBOLL\Melody Kneale - Projects\Borstein\Artesia Dairies\03_GIS\Phase1\Figures\Phase1\Figures.aprx|Figure 01 - Site Location



Service Layer Credits: World Topographic Map: City of Long Beach, County of Los Angeles, Esri, HERE, Garmin, SafeGraph, INCREMENT P, NOAA, NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, World Hillshade: Esri, NASA, USGS, FEMA

Map Scale: 1:24,000 | Map Center: 118°5'1"W 33°52'27"N



KEY MAP (not to scale)

 Property Boundary

SITE LOCATION

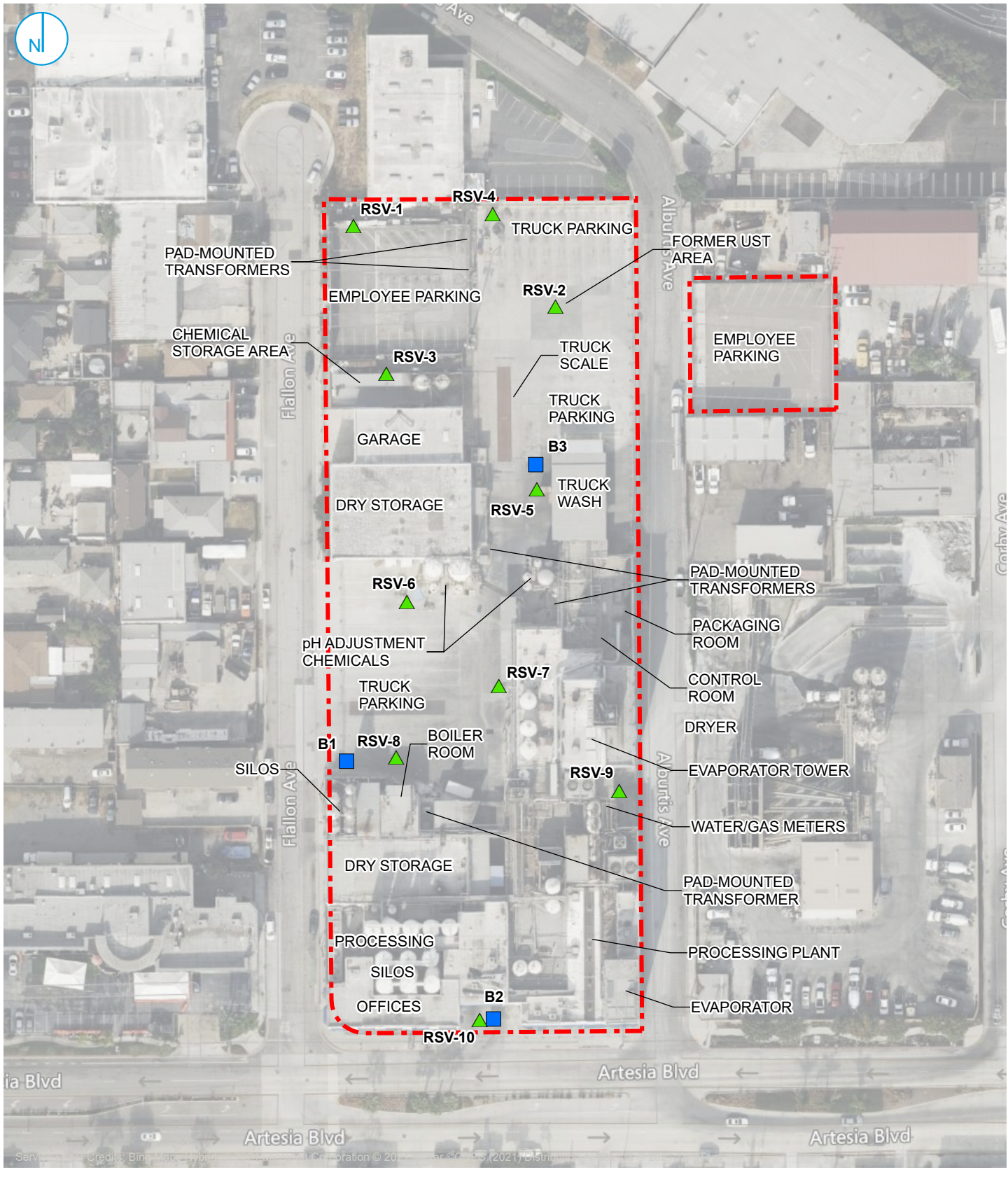
FIGURE 1

Artesia Dairies
11709 East Artesia Boulevard
Artesia, California

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



C:\Users\CWILLIAMS\FREIER\Borstein\Artesia Dairies\03_GIS\202111102_Figures\202111102_FigureCreation.aprx|Figure 03 - Soil Vapor and Soil Sampling Locations



- Property Boundary
- Soil Vapor Probe Locations (Ramboll, December 2021)
- Soil Sample Location (Ramboll, November 2021)

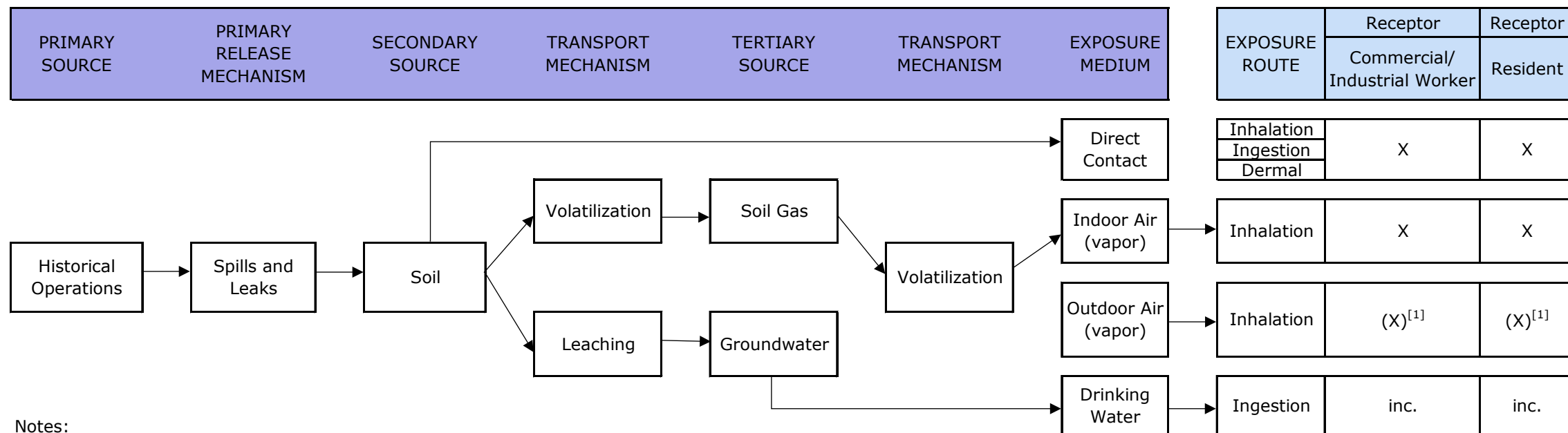
SOIL VAPOR AND SOIL SAMPLING LOCATIONS

FIGURE 2

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

Artesia Dairies
11709 East Artesia Boulevard
Artesia, California



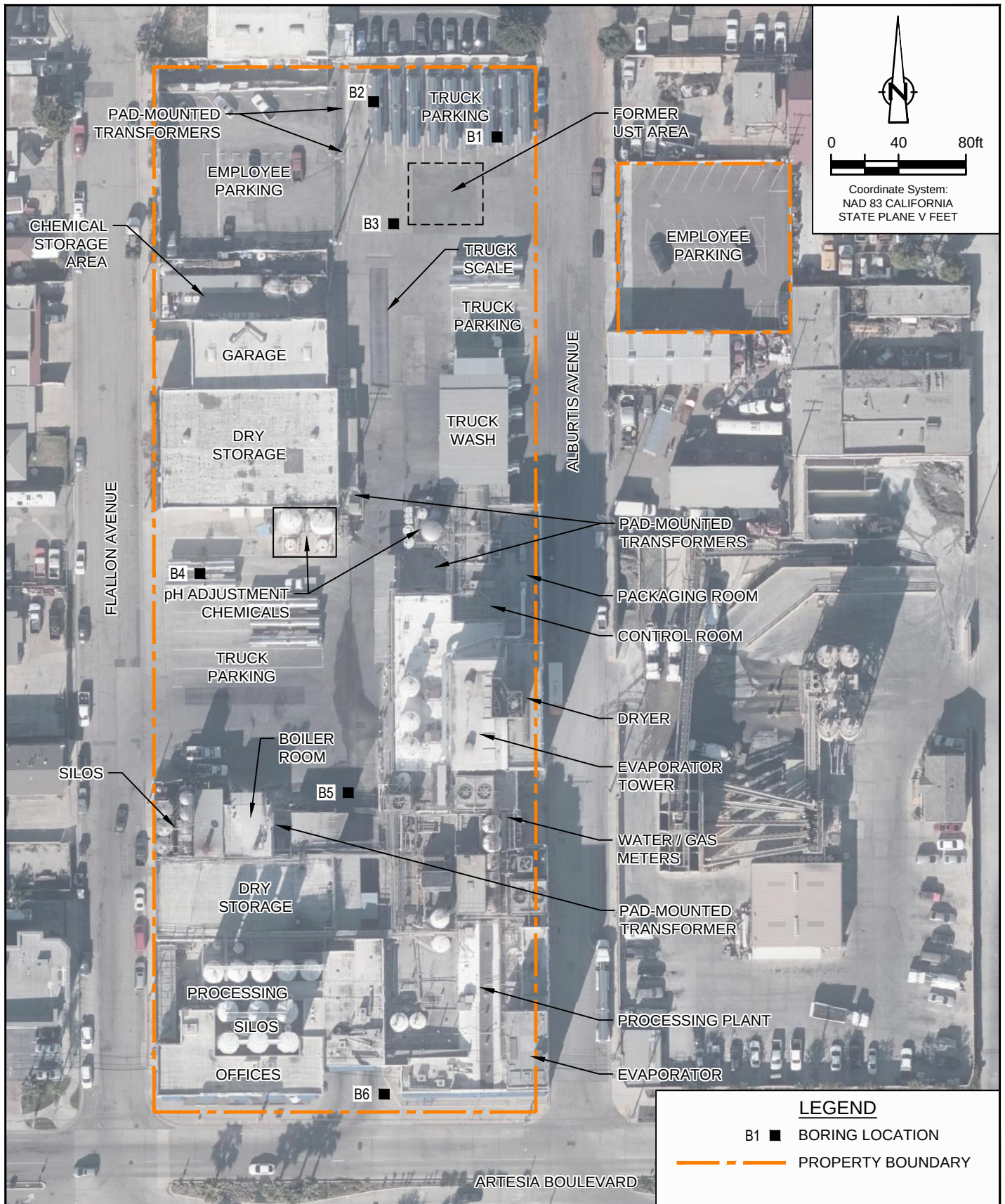


Notes:
 X = Complete or potentially complete exposure pathway
 (X) = Complete or potentially complete exposure pathway, but not evaluated quantitatively
 inc = Incomplete
 [1] The exposure to volatile compounds in outdoor air is not quantitatively evaluated because it is expected to be much lower than the exposure to volatile compounds in indoor air.

	Conceptual Site Model 11709 East Artesia Boulevard Artesia, California		Figure 3
	Drafter:	Date: 6/10/22	

Attachment A:

Location and results of Phase II ESA soil borings and groundwater temporary wells from GSD (2020).



11709 EAST ARTESIA BOULEVARD, ARTESIA, CALIFORNIA
 PHASE II ENVIRONMENTAL SITE ASSESSMENT
 CALIFORNIA DAIRIES INC

081103-55
 Aug 11, 2020

SITE PLAN AND BORING LOCATIONS

FIGURE A-1

Table A-1

Soil Sample Analytical Results for Pesticides, Herbicides, and PCBs
Phase II ESA for California Dairies, Inc.
11709 East Artesia Boulevard, Artesia, California

Sample Location	B1	B1	B2	B2	B3	B3	B4	B4	B5	B5	B6	B6	
Sample Identification	B1-0.5	B1-2	B2-0.5	B2-2	B3-0.5	B3-2	B4-0.5	B4-2	B5-1	B5-2	B6-0.5	B6-2	
Sample Date	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	
Sample Depth	(0.5) ft BGS	(2) ft BGS	(0.5) ft BGS	(2) ft BGS	(0.5) ft BGS	(2) ft BGS	(0.5) ft BGS	(2) ft BGS	(1) ft BGS	(2) ft BGS	(0.5) ft BGS	(2) ft BGS	Tier 1 ESL

Herbicides by EPA Method 8151A

2-(2-Methyl-4-chlorophenoxy)propionic acid (MCPP)	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	9900 U	10000 U	9900 U	9800 U	9900 U
2,4,5-T	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9.9 U	10 U	9.9 U	9.8 U	9.9 U
2,4,5-TP (Silvex)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9.9 U	10 U	9.9 U	9.8 U	9.9 U
2,4-DB	100 U	100 U	100 U	100 U	100 U	100 U	100 U	99 U	100 U	99 U	98 U	99 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	100 U	100 U	100 U	100 U	100 U	100 U	100 U	99 U	100 U	99 U	98 U	99 U
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U	20000 U
Dalapon	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Dicamba	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9.9 U	10 U	9.9 U	9.8 U	9.9 U
Dichlorprop	100 U	100 U	100 U	100 U	100 U	100 U	100 U	99 U	100 U	99 U	98 U	99 U
Dinoseb	100 U	100 U	100 U	100 U	100 U	100 U	100 U	99 U	100 U	99 U	98 U	99 U

PCBs by EPA Method 8082

Aroclor-1016 (PCB-1016)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Aroclor-1221 (PCB-1221)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Aroclor-1232 (PCB-1232)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Aroclor-1242 (PCB-1242)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Aroclor-1248 (PCB-1248)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Aroclor-1254 (PCB-1254)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Aroclor-1260 (PCB-1260)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Aroclor-1262 (PCB-1262)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Aroclor-1268 (PCB-1268)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
4,4'-DDE	5.0 U	5.0 U	5.0 U	12	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--
4,4'-DDT	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Aldrin	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
alpha-BHC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
alpha-Chlordane	5.1	1.0 U	1.0 U	0.99 U	1.2	0.99 U	1.2	2.4	1.0 U	1.0 U	1.0 U	0.99 U	--
beta-BHC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Chlordane	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	
delta-BHC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Dieldrin	1.3	1.0 U	1.0 U	0.99 U	1.3	0.99 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.99 U	0.46
Endosulfan I	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Endosulfan II	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Endosulfan sulfate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Endrin	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Endrin aldehyde	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Endrin ketone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
gamma-BHC (lindane)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
gamma-Chlordane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Heptachlor	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Heptachlor epoxide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Methoxychlor	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Toxaphene	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	

Notes:

U - Not detected at the associated reporting limit.

Values are reported in micrograms per kilogram.

ft BGS - feet below ground surface

PCBs - Polychlorinated Biphenyls

EPA - Environmental Protection Agency

Tier 1 ESL - San Francisco Bay Regional Water Quality Control Board Tier 1 Environmental Screening Level

Detections are **bolded**.

TableA- A-2
Soil Sample Analytical Results for TPH, SVOCs, and VOCs
Phase II ESA for California Dairies, Inc.
11709 East Artesia Boulevard, Artesia, California

Sample Location	B1	B1	B1	B2	B2	B2	B3	B3	B3	B3	B4	B4	B4	B5	B5	B5	B6	B6	B6
Sample Identification	B1-0.5	B1-2	B1-20	B2-0.5	B2-2	B2-15	B3-0.5	B3-2	B3-18	B4-0.5	B4-2	B4-15	B5-1	B5-2	B5-18	B6-0.5	B6-2	B6-18	
Sample Date	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	
Sample Depth	(0.5) ft BGS	(2) ft BGS	(20) ft BGS	(0.5) ft BGS	(2) ft BGS	(15) ft BGS	(0.5) ft BGS	(2) ft BGS	(18) ft BGS	(0.5) ft BGS	(2) ft BGS	(15) ft BGS	(1) ft BGS	(2) ft BGS	(18) ft BGS	(0.5) ft BGS	(2) ft BGS	(18) ft BGS	

Total Petroleum Hydrocarbons (TPH) by EPA Method 8015B

Petroleum Hydrocarbons as Gasoline	--	--	100 U	--	--	100 U	--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (C10-C28) DRO	--	--	5300 U	--	--	4800 U	--	--	--	--	--	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons (C17-C44) Motor Oil	--	--	26000 U	--	--	24000 U	--	--	--	--	--	--	--	--	--	--	--	--

Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270C

1,2,4-Trichlorobenzene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
1,2-Dichlorobenzene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
1,3-Dichlorobenzene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
1,4-Dichlorobenzene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
1-Methylnaphthalene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,4,5-Trichlorophenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,4,6-Trichlorophenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,4-Dichlorophenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,4-Dimethylphenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,4-Dinitrophenol	10000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	20000 U	2000 U	2000 U	4000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,6-Dichlorophenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2,6-Dinitrotoluene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2-Chloronaphthalene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2-Chlorophenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2-Methylnaphthalene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2-Methylphenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2-Nitroaniline	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
2-Nitrophenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
3&4-Methylphenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
3,3'-Dichlorobenzidine	13000 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	25000 U	2500 U	2500 U	5000 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U
3-Nitroaniline	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4,6-Dinitro-2-methylphenol	13000 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	25000 U	2500 U	2500 U	5000 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U
4-Bromophenyl phenyl ether	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Chloro-3-methylphenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Chloroaniline	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Chlorophenyl phenyl ether	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Nitroaniline	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
4-Nitrophenol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Acenaphthene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Acenaphthylene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Aniline	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Anthracene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Azobenzene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Benidine	25000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	50000 U	5000 U	5000 U	10000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
Benzo(a)anthracene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Benzo(a)pyrene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Benzo(b)fluoranthene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Benzo(g,h,i)perylene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Benzo(k)fluoranthene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Benzoic acid	13000 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	25000 U	2500 U	2500 U	5000 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U
Benzyl alcohol	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
bis(2-Chloroethoxy)methane	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
bis(2-Chloroethyl)ether	13000 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	25000 U	2500 U	2500 U	5000 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U
bis(2-Ethylhexyl)phthalate (DEHP)	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Butyl benzylphthalate (BBP)	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Chrysene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Dibenz(a,h)anthracene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Dibenzofuran	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Diethyl phthalate	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Dimethyl phthalate	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Di-n-butylphthalate (DBP)	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Di-n-octyl phthalate (DnOP)	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Fluoranthene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Fluorene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobenzene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorobutadiene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Hexachlorocyclopentadiene	7500 U	1500 U	1500 U	1500 U	1500 U	1500 U	1500 U	15000 U	1500 U	1500 U	3000 U	1500 U	1500 U	1500 U	1500 U	1500 U	1500 U	1500 U	1500 U
Hexachloroethane	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Indeno(1,2,3-cd)pyrene	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Isophorone	2500 U	500 U	500 U	500 U	500 U	500 U	500 U	5000 U	500 U	500 U									

Table A-2

Soil Sample Analytical Results for TPH, SVOCs, and VOCs
Phase II ESA for California Dairies, Inc.
11709 East Artesia Boulevard, Artesia, California

Sample Location	B1-0.5	B1-2	B1-20	B2-0.5	B2-2	B2-15	B3-0.5	B3-2	B3-18	B4-0.5	B4-2	B4-15	B5-1	B5-2	B5-18	B6-0.5	B6-2	B6-18
Sample Identification	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020
Sample Date	(0.5) ft BGS	(2) ft BGS	(20) ft BGS	(0.5) ft BGS	(2) ft BGS	(15) ft BGS	(0.5) ft BGS	(2) ft BGS	(18) ft BGS	(0.5) ft BGS	(2) ft BGS	(15) ft BGS	(1) ft BGS	(2) ft BGS	(18) ft BGS	(0.5) ft BGS	(2) ft BGS	(18) ft BGS
Sample Depth																		
Volatile Organic Compounds (VOCs) by EPA Method 8260B																		
1,1,1,2-Tetrachloroethane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,1,1-Trichloroethane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,1,2,2-Tetrachloroethane	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
1,1,2-Trichloroethane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,1-Dichloroethane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,1-Dichloroethene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,1-Dichloropropene	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
1,2,3-Trichlorobenzene	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
1,2,3-Trichloropropane	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
1,2,4-Trichlorobenzene	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
1,2,4-Trimethylbenzene	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
1,2-Dibromo-3-chloropropane (DBCP)	9.3 U	11 U	7.5 U	8.6 U	10 U	7.8 U	8.9 U	9.1 U	8.1 U	12 U	11 U	8.7 U	8.3 U	9.0 U	7.5 U	10 U	8.5 U	7.7 U
1,2-Dibromomethane (Ethylene dibromide)	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,2-Dichlorobenzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,2-Dichloroethane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,2-Dichloropropane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,3,5-Trimethylbenzene	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
1,3-Dichlorobenzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,3-Dichloropropane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
1,4-Dichlorobenzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
2,2-Dichloropropane	4.7 U	5.3 U	3.8 U	4.3 U	5.0 U	3.9 U	4.5 U	4.6 U	4.0 U	6.1 U	5.3 U	4.4 U	4.1 U	4.5 U	3.7 U	5.1 U	4.3 U	3.9 U
2-Butanone (Methyl ethyl ketone) (MEK)	19 U	21 U	15 U	17 U	20 U	16 U	18 U	18 U	16 U	25 U	21 U	17 U	17 U	18 U	15 U	20 U	17 U	15 U
2-Chlorotoluene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
2-Hexanone	19 U	21 U	15 U	17 U	20 U	16 U	18 U	18 U	16 U	25 U	21 U	17 U	17 U	18 U	15 U	20 U	17 U	15 U
2-Phenylbutane (sec-Butylbenzene)	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
4-Chlorotoluene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	19 U	21 U	15 U	17 U	20 U	16 U	18 U	18 U	16 U	25 U	21 U	17 U	17 U	18 U	15 U	20 U	17 U	15 U
Acetone	52	81	38 U	49	61	39 U	45 U	46 U	40 U	61 U	53 U	44 U	42	45 U	37 U	51 U	74	39 U
Benzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Bromobenzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Bromodichloromethane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Bromoform	4.7 U	5.3 U	3.8 U	4.3 U	5.0 U	3.9 U	4.5 U	4.6 U	4.0 U	6.1 U	5.3 U	4.4 U	4.1 U	4.5 U	3.7 U	5.1 U	4.3 U	3.9 U
Bromomethane (Methyl bromide)	19 U	21 U	15 U	17 U	20 U	16 U	18 U	18 U	16 U	25 U	21 U	17 U	17 U	18 U	15 U	20 U	17 U	15 U
Carbon disulfide	9.3 U	11 U	7.5 U	8.6 U	10 U	7.8 U	8.9 U	9.1 U	8.1 U	12 U	11 U	8.7 U	8.3 U	9.0 U	7.5 U	10 U	8.5 U	7.7 U
Carbon tetrachloride	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Chlorobenzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Chlorobromomethane	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
Chloroethane	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
Chloroform (Trichloromethane)	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Chloromethane (Methyl chloride)	19 U	21 U	15 U	17 U	20 U	16 U	18 U	18 U	16 U	25 U	21 U	17 U	17 U	18 U	15 U	20 U	17 U	15 U
cis-1,2-Dichloroethene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
cis-1,3-Dichloropropene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Cymene (p-Isopropyltoluene)	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Dibromochloromethane	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
Dibromomethane	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Dichlorodifluoromethane (CFC-12)	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
Ethylbenzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
Isopropyl benzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	1.1	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
m,p-Xylenes	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
Methyl tert butyl ether (MTBE)	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1.5 U	2.0 U	1.7 U	1.5 U
Methylene chloride	9.3 U	11 U	7.5 U	8.6 U	10 U	7.8 U	8.9 U	9.1 U	8.1 U	12 U	11 U	8.7 U	8.3 U	9.0 U	7.5 U	10 U	8.5 U	7.7 U
Naphthalene	9.3 U	11 U	7.5 U	8.6 U	10 U	7.8 U	8.9 U	9.1 U	8.1 U	12 U	11 U	8.7 U	8.3 U	9.0 U	7.5 U	10 U	8.5 U	7.7 U
N-Butylbenzene	0.93 U	1.1 U	0.75 U	0.86 U	1.0 U	0.78 U	0.89 U	0.91 U	0.81 U	1.2 U	1.1 U	0.87 U	0.83 U	0.90 U	0.75 U	1.0 U	0.85 U	0.77 U
N-Propylbenzene	1.9 U	2.1 U	1.5 U	1.7 U	2.0 U	1.6 U	1.8 U	1.8 U	1.6 U	2.5 U	2.1 U	1.7 U	1.7 U	1.8 U	1			

Table A-3

Soil Sample Analytical Results for Metals
Phase II ESA for California Dairies, Inc.
11709 Artesia Boulevard, Artesia, California

Sample Location	B1	B1	B1	B2	B2	B2	B3	B3	B3	B4	B4	B4	B5	B5	B5	B6	B6	B6	
Sample Identification	B1-0.5	B1-2	B1-20	B2-0.5	B2-2	B2-15	B3-0.5	B3-2	B3-18	B4-0.5	B4-2	B4-15	B5-1	B5-2	B5-18	B6-05	B6-2	B6-18	
Sample Date	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/30/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	07/31/2020	
Sample Depth	(0.5) ft BGS	(2) ft BGS	(20) ft BGS	(0.5) ft BGS	(2) ft BGS	(15) ft BGS	(0.5) ft BGS	(2) ft BGS	(18) ft BGS	(0.5) ft BGS	(2) ft BGS	(15) ft BGS	(1) ft BGS	(2) ft BGS	(18) ft BGS	(0.5) ft BGS	(2) ft BGS	(18) ft BGS	Tier 1 ESL
Antimony	754 U	732 U	732 U	746 U	728 U	715 U	765 U	773 U	769 U	725 U	732 U	739 U	777 U	765 U	765 U	758 U	735 U	732 U	
Arsenic	7,850	4,070	1,440	3,620	2,960	5,730	3,920	7,200	2,000	5,710	5,630	1,260	4,280	8,640	2,210	1,750	5,380	1,670	67
Barium	81,300	177,000	158,000	138,000	122,000	103,000	75,900	184,000	74,100	119,000	125,000	56,000	159,000	197,000	122,000	64,000	181,000	141,000	390,000
Beryllium	251 U	713	676	535	531	494	340	779	299	483	524	264	723	806	460	434	781	590	5,000
Cadmium	503 U	488 U	488 U	498 U	485 U	477 U	510 U	515 U	513 U	483 U	488 U	493 U	518 U	510 U	510 U	505 U	490 U	488 U	
Chromium	8,580	22,200	19,600	15,400	17,100	14,700	8,390	22,900	10,100	15,100	15,300	8,030	21,200	24,300	14,600	5,970	23,000	19,200	160,000
Cobalt	3,490	11,400	10,600	8,370	8,950	8,370	4,850	12,200	5,640	7,960	8,240	4,980	9,820	12,400	8,080	2,560	11,700	9,470	23,000
Copper	11,000	31,000	28,200	23,200	22,000	18,500	13,200	32,700	10,400	18,800	22,000	8,390	29,000	35,200	17,000	2,730	39,600	23,200	180,000
Lead	17,900	5,100	4,060	57,800	20,400	1,850	39,200	5,020	1,030	4,400	5,720	758	9,900	4,410	2,450	1,880	6,290	2,860	32,000
Mercury	108	103	83.3 U	80.6 U	84.7 U	82 U	142	106	84.7 U	86.2 U	110	80.6 U	82 U	165	86.2 U	84.7 U	83.3 U	80.6 U	13,000
Molybdenum	251 U	244 U	244 U	249 U	243 U	238 U	255 U	258 U	256 U	242 U	244 U	246 U	259 U	255 U	255 U	758	245 U	244 U	
Nickel	6,200	18,100	16,600	13,300	14,900	12,400	8,170	19,200	7,970	12,800	12,800	7,130	15,600	19,200	12,900	3,660	18,500	14,800	86,000
Selenium	754 U	732 U	732 U	746 U	728 U	715 U	765 U	773 U	769 U	725 U	732 U	739 U	777 U	765 U	765 U	758 U	735 U	732 U	
Silver	508	244 U	244 U	249 U	243 U	238 U	255 U	258 U	256 U	242 U	244 U	246 U	259 U	255 U	255 U	253 U	245 U	244 U	
Thallium	754 U	732 U	732 U	746 U	728 U	715 U	765 U	773 U	769 U	725 U	732 U	739 U	777 U	765 U	765 U	758 U	735 U	732 U	
Vanadium	13,900	37,800	36,200	27,900	32,800	29,200	18,300	44,100	18,700	28,000	30,300	17,200	39,000	47,700	28,400	18,000	39,700	35,000	18,000
Zinc	29,500	58,300	47,100	61,000	56,100	36,200	42,500	55,600	26,400	41,100	50,600	23,100	64,900	53,900	36,600	13,400	66,300	42,600	340,000

Notes:

U - Not detected at the associated reporting limit.

Values are reported in micrograms per kilogram.

ft BGS - feet below ground surface

Metals Analysis by EPA Method 6010B except mercury, by EPA Method 7471A

EPA - Environmental Protection Agency

Tier 1 ESL - San Francisco Bay Regional Water Quality Control Board Tier 1 Environmental Screening Level

Detections are **bolded**.

Table A-4

Groundwater Analytical Results for TPH, SVOCs, and VOCs
Phase II ESA for California Dairies, Inc.
11709 Artesia Boulevard, Artesia, California

Sample Location	B1	B2	B3	B4	B5	B6
Sample Identification	B1	B2	B3	B4	B5	B6
Sample Date	07/30/2020	07/30/2020	07/30/2020	07/31/2020	07/31/2020	07/31/2020
Total Petroleum Hydrocarbons (TPH) by EPA Method 8015B						
Total Petroleum Hydrocarbons (C10-C28) DRO	46 U	47 U	--	--	--	--
Total Petroleum Hydrocarbons (C17-C44) Motor Oil	230 U	240 U	--	--	--	--
Total Petroleum Hydrocarbons (C4-C12) GRO	50 U	50 U	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270C						
1,2,4-Trichlorobenzene	10 U	10 U	10 U	11 U	11 U	9.8 U
1,2-Dichlorobenzene	10 U	10 U	10 U	11 U	11 U	9.8 U
1,3-Dichlorobenzene	10 U	10 U	10 U	11 U	11 U	9.8 U
1,4-Dichlorobenzene	10 U	10 U	10 U	11 U	11 U	9.8 U
1-Methylnaphthalene	10 U	10 U	10 U	11 U	11 U	9.8 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	10 U	10 U	10 U	11 U	11 U	9.8 U
2,4,5-Trichlorophenol	10 U	10 U	10 U	11 U	11 U	9.8 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	11 U	11 U	9.8 U
2,4-Dichlorophenol	10 U	10 U	10 U	11 U	11 U	9.8 U
2,4-Dimethylphenol	10 U	10 U	10 U	11 U	11 U	9.8 U
2,4-Dinitrophenol	50 U	51 U	51 U	54 U	54 U	49 U
2,4-Dinitrotoluene	10 U	10 U	10 U	11 U	11 U	9.8 U
2,6-Dichlorophenol	10 U	10 U	10 U	11 U	11 U	9.8 U
2,6-Dinitrotoluene	10 U	10 U	10 U	11 U	11 U	9.8 U
2-Chloronaphthalene	10 U	10 U	10 U	11 U	11 U	9.8 U
2-Chlorophenol	10 U	10 U	10 U	11 U	11 U	9.8 U
2-Methylnaphthalene	10 U	10 U	10 U	11 U	11 U	9.8 U
2-Methylphenol	10 U	10 U	10 U	11 U	11 U	9.8 U
2-Nitroaniline	10 U	10 U	10 U	11 U	11 U	9.8 U
2-Nitrophenol	10 U	10 U	10 U	11 U	11 U	9.8 U
3&4-Methylphenol	10 U	10 U	10 U	11 U	11 U	9.8 U
3,3'-Dichlorobenzidine	25 U	26 U	25 U	27 U	27 U	25 U
3-Nitroaniline	10 U	10 U	10 U	11 U	11 U	9.8 U
4,6-Dinitro-2-methylphenol	50 U	51 U	51 U	54 U	54 U	49 U
4-Bromophenyl phenyl ether	10 U	10 U	10 U	11 U	11 U	9.8 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	11 U	11 U	9.8 U
4-Chloroaniline	10 U	10 U	10 U	11 U	11 U	9.8 U
4-Chlorophenyl phenyl ether	10 U	10 U	10 U	11 U	11 U	9.8 U
4-Nitroaniline	10 U	10 U	10 U	11 U	11 U	9.8 U
4-Nitrophenol	10 U	10 U	10 U	11 U	11 U	9.8 U
Acenaphthene	10 U	10 U	10 U	11 U	11 U	9.8 U
Acenaphthylene	10 U	10 U	10 U	11 U	11 U	9.8 U
Aniline	10 U	10 U	10 U	11 U	11 U	9.8 U
Anthracene	10 U	10 U	10 U	11 U	11 U	9.8 U
Azobenzene	10 U	10 U	10 U	11 U	11 U	9.8 U
Benzidine	50 U	51 U	51 U	54 U	54 U	49 U
Benzo(a)anthracene	10 U	10 U	10 U	11 U	11 U	9.8 U
Benzo(a)pyrene	10 U	10 U	10 U	11 U	11 U	9.8 U
Benzo(b)fluoranthene	10 U	10 U	10 U	11 U	11 U	9.8 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	11 U	11 U	9.8 U
Benzo(k)fluoranthene	10 U	10 U	10 U	11 U	11 U	9.8 U
Benzoic acid	50 U	51 U	51 U	54 U	54 U	49 U
Benzyl alcohol	10 U	10 U	10 U	11 U	11 U	9.8 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	11 U	11 U	9.8 U
bis(2-Chloroethyl)ether	25 U	26 U	25 U	27 U	27 U	25 U
bis(2-Ethylhexyl)phthalate (DEHP)	10 U	10 U	10 U	11 U	11 U	9.8 U
Butyl benzylphthalate (BBP)	10 U	10 U	10 U	11 U	11 U	9.8 U
Chrysene	10 U	10 U	10 U	11 U	11 U	9.8 U
Dibenz(a,h)anthracene	10 U	10 U	10 U	11 U	11 U	9.8 U
Dibenzofuran	10 U	10 U	10 U	11 U	11 U	9.8 U
Diethyl phthalate	10 U	10 U	10 U	11 U	11 U	9.8 U
Dimethyl phthalate	10 U	10 U	10 U	11 U	11 U	9.8 U
Di-n-butylphthalate (DBP)	10 U	10 U	10 U	11 U	11 U	9.8 U
Di-n-octyl phthalate (DnOP)	10 U	10 U	10 U	11 U	11 U	9.8 U
Fluoranthene	10 U	10 U	10 U	11 U	11 U	9.8 U
Fluorene	10 U	10 U	10 U	11 U	11 U	9.8 U
Hexachlorobenzene	10 U	10 U	10 U	11 U	11 U	9.8 U
Hexachlorobutadiene	10 U	10 U	10 U	11 U	11 U	9.8 U
Hexachlorocyclopentadiene	25 U	26 U	25 U	27 U	27 U	25 U
Hexachloroethane	10 U	10 U	10 U	11 U	11 U	9.8 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	11 U	11 U	9.8 U
Isophorone	10 U	10 U	10 U	11 U	11 U	9.8 U
Naphthalene	10 U	10 U	10 U	11 U	11 U	9.8 U
Nitrobenzene	25 U	26 U	25 U	27 U	27 U	25 U
N-Nitrosodimethylamine	10 U	10 U	10 U	11 U	11 U	9.8 U
N-Nitrosodi-n-propylamine	10 U	10 U	10 U	11 U	11 U	9.8 U
N-Nitrosodiphenylamine	10 U	10 U	10 U	11 U	11 U	9.8 U
Pentachlorophenol	10 U	10 U	10 U	11 U	11 U	9.8 U
Phenanthrene	10 U	10 U	10 U	11 U	11 U	9.8 U
Phenol	10 U	10 U	10 U	11 U	11 U	9.8 U
Pyrene	10 U	10 U	10 U	11 U	11 U	9.8 U
Pyridine	10 U	10 U	10 U	11 U	11 U	9.8 U

Table A-4

Groundwater Analytical Results for TPH, SVOCs, and VOCs
Phase II ESA for California Dairies, Inc.
11709 Artesia Boulevard, Artesia, California

Sample Location	B1	B2	B3	B4	B5	B6
Sample Identification	B1	B2	B3	B4	B5	B6
Sample Date	07/30/2020	07/30/2020	07/30/2020	07/31/2020	07/31/2020	07/31/2020
Volatile Organic Compounds (VOCs) by EPA Method 8260B						
1,1,1,2-Tetrachloroethane	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U
1,1,1-Trichloroethane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1-Dichloroethane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1-Dichloroethene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,1-Dichloropropene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2,3-Trichlorobenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2,3-Trichloropropane	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
1,2,4-Trichlorobenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2,4-Trimethylbenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	10 U	20 U	10 U	10 U	20 U	10 U
1,2-Dibromoethane (Ethylene dibromide)	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dichloroethane	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
1,2-Dichloropropane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,3,5-Trimethylbenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,3-Dichloropropane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
2,2-Dichloropropane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	20 U	40 U	20 U	20 U	40 U	20 U
2-Chlorotoluene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
2-Hexanone	10 U	20 U	10 U	10 U	20 U	10 U
2-Phenylbutane (sec-Butylbenzene)	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
4-Chlorotoluene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	10 U	20 U	10 U	10 U	20 U	10 U
Acetone	20 U	40 U	20 U	20 U	40 U	20 U
Benzene	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
Bromobenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Bromodichloromethane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Bromoform	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Bromomethane (Methyl bromide)	50 U	100 U	50 U	50 U	100 U	50 U
Carbon disulfide	10 U	20 U	10 U	10 U	20 U	10 U
Carbon tetrachloride	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
Chlorobenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Chlorobromomethane	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Chloroethane	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Chloroform (Trichloromethane)	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Chloromethane (Methyl chloride)	10 U	20 U	10 U	10 U	20 U	10 U
cis-1,2-Dichloroethene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
cis-1,3-Dichloropropene	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
Cymene (p-Isopropyltoluene)	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Dibromochloromethane	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Dibromomethane	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Ethylbenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Isopropyl benzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
m&p-Xylenes	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U
Methyl tert butyl ether (MTBE)	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Methylene chloride	10 U	20 U	10 U	10 U	20 U	10 U
Naphthalene	10 U	20 U	10 U	10 U	20 U	10 U
N-Butylbenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
N-Propylbenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
o-Xylene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Styrene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
tert-Butylbenzene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Tetrachloroethene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Toluene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
trans-1,3-Dichloropropene	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U
Trichloroethene	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	10 U	20 U	10 U	10 U	20 U	10 U
Trifluorotrichloroethane (CFC-113)	10 U	20 U	10 U	10 U	20 U	10 U
Vinyl acetate	10 U	20 U	10 U	10 U	20 U	10 U
Vinyl chloride	0.50 U	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U

Notes:

U - Not detected at the associated reporting limit.

Values are reported in micrograms per Liter.

EPA - Environmental Protection Agency

Table A-5

Groundwater Sample Analytical Results for Metals and Nitrogen Compounds
Phase II ESA for California Dairies, Inc.
11709 East Artesia Boulevard, Artesia, California

Sample Location	B1	B2	B3	B4	B5	B6		
Sample Identification	B1	B2	B3	B4	B5	B6		
Sample Date	07/30/2020	07/30/2020	07/30/2020	07/31/2020	07/31/2020	07/31/2020	EPA MCL	CA MCL

Metals

Antimony	100 U	100 U	100 U	100 U	100 U	100 U		
Arsenic	100 U	100 U	100 U	100 U	100 U	100 U		
Barium	162	161	125	537	706	211	2,000	1,000
Beryllium	10 U	10 U	10 U	10 U	10 U	10 U		
Cadmium	10 U	10 U	10 U	10 U	10 U	10 U		
Chromium	50 U	50 U	50 U	50 U	50 U	50 U		
Cobalt	50 U	50 U	50 U	50 U	50 U	50 U		
Copper	50 U	50 U	50 U	50 U	50 U	50 U		
Lead	50 U	50 U	50 U	50 U	50 U	50 U		
Mercury	0.5 U	3.31	2.71	2.86	1.34	0.5 U	2	2
Molybdenum	50 U	50 U	50 U	50 U	50 U	50 U		
Nickel	50 U	50 U	50 U	50 U	57.4	50 U	--	100
Selenium	100 U	100 U	100 U	100 U	100 U	100 U		
Silver	10 U	10 U	10 U	10 U	10 U	10 U		
Thallium	50 U	50 U	50 U	50 U	50 U	50 U		
Vanadium	13.3	10 U	13.1	10 U	76	12.5	--	--
Zinc	250 U	250 U	250 U	250 U	250 U	250 U		

General Chemistry

Ammonia-N	117	269	162	648	575	536	--	--
Nitrate (as N)	120	9,400	4,500	100 U	100 U	470	1,000	45,000 (as NO ₃)
Nitrite (as N)	100 U	100 U	100 U	100 U	100 U	100 U		

Notes:

U - Not detected at the associated reporting limit.

Values are reported in micrograms per Liter.

Metals analysis by EPA Method 6010B except mercury, by EPA Method 7471A

Ammonia analysis by EPA Method 350.1

Nitrate and Nitrite analysis by EPA Method 300.0

N - Nitrogen

MCL - Maximum Contaminant Level

EPA - U.S. Environmental Protection Agency

CA - California

Detections are **bolded**.