

***Report on Quarterly Air Monitoring,
Area IV, First Quarter 2018***

***Santa Susana Field Laboratory
Ventura County, California***



***Prepared for:
United States
Department of Energy***

***Prepared by:
North Wind, Inc.***

**December 2018
Revision 1**

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**Santa Susana Field Laboratory
Ventura County, CA**

**December 2018
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Professional Certification

**Report on Quarterly Air Monitoring, Area IV, First Quarter 2018
Santa Susana Field Laboratory
Ventura County, California**

December 2018

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EXECUTIVE SUMMARY

This report summarizes the United States Department of Energy (DOE) air monitoring activities conducted during the first quarter (Q1) 2018 at Area IV within the Santa Susana Field Laboratory (SSFL), located in Ventura County, California.

This quarterly report has been developed by North Wind, Inc., (North Wind) on behalf of DOE in cooperation with The Boeing Company (Boeing) and the National Aeronautics and Space Administration (NASA), to perform a Baseline Air Monitoring Program.

The objective of the Baseline Air Monitoring Program is to evaluate baseline (that is, pre-project) conditions and provide a basis for determining the magnitude of deviation from those baseline conditions resulting from onsite remediation activities (project) at SSFL. In accordance with the *Final Baseline Air Monitoring Work Plan, Santa Susana Field Laboratory, Ventura County, California* (NASA 2017), the responsible parties (RPs) are monitoring for particulate matter less than 10 microns in aerodynamic diameter (PM₁₀), particulate matter less than 2.5 microns in aerodynamic diameter (PM_{2.5}), volatile organic compounds (VOCs), and radionuclides at 14 locations at SSFL. In addition, the Baseline Air Monitoring Program includes collection of meteorological data.

The following air monitoring activities conducted during Q1 2018 by DOE within Area IV are summarized in this report:

- Collected meteorological data from one location (DOE-4)
- Collected PM₁₀ data from four locations (DOE-1 through -4)
- Collected air samples from four locations (DOE-1 through -4) for VOC laboratory analysis
- Collected radionuclide samples for laboratory analysis from four locations (DOE-1 through -4)
- Results of one sampler stationed at the Radioactive Material Handling Facility and from one sampler at Area 20 are also included in this report.

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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
°F	degrees Fahrenheit
µg/m ³	microgram(s) per cubic meter
Boeing	The Boeing Company
DOE	U.S. Department of Energy
DTSC	State of California Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
ETEC	Energy Technology Engineering Center
GC	gas chromatography
HHRA	Human Health Risk Assessment
lpm	liters per minute
MS	mass spectrometry
m	meter
mb	millibar
ml	milliliter
m/sec	meter per second
NAAQS	National Ambient Air Quality Standards
NASA	National Aeronautics and Space Administration
NIST	National Institute of Standards and Technology
pCi	pico-curie
PM _{2.5}	particulate matter less than 2.5 microns in aerodynamic diameter
PM ₁₀	particulate matter less than 10 microns in aerodynamic diameter
PDT	Pacific Daylight Time
PST	Pacific Standard Time
Q1	first quarter
QA	quality assurance
QC	quality control
RMHF	Radioactive Material Handling Facility
RP	responsible party
RPD	relative percent difference
RSL	regional screening level
SDG	sample delivery group
SSFL	Santa Susana Field Laboratory
uCi	microcurie
VOC	volatile organic compound

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1. INTRODUCTION

National Aeronautics and Space Administration (NASA), the Boeing Company (Boeing), and the U.S. Department of Energy (DOE), also known as the responsible parties (RPs), are performing baseline air monitoring at the Santa Susana Field Laboratory (SSFL) site located in Ventura County, California. The SSFL is a business segment of Boeing. SSFL operates the 2,849-acre SSFL located atop a range of hills between the Simi and San Fernando valleys, north of Los Angeles. The westernmost 290 acres of the SSFL, known as Area IV, contains both DOE and Boeing facilities. The DOE portion is mainly contained within the 90 acres known as the Energy Technology Engineering Center (ETEC).

When opened in the late 1950s, ETEC was ideally remote from population centers to enable development of security-sensitive projects. These projects supported research for DOE and its predecessor agencies for nuclear research and energy development. Area IV includes buildings that house test apparatus for large-scale heat transfer and fluid mechanics experiments, mechanical and chemical test facilities, office buildings, and auxiliary facilities.

Baseline air monitoring is being conducted in accordance with the *Final Baseline Air Monitoring Work Plan, Santa Susana Field Laboratory, Ventura County, California* (NASA 2017), which was submitted to the State of California Department of Toxic Substances Control (DTSC) on September 21, 2017. DTSC approved the Work Plan. Final locations of the air monitoring locations were approved by DTSC on January 30, 2018 (DTSC 2018).

The objective of the Baseline Air Monitoring Program is to evaluate baseline (that is, pre-project) conditions and provide a basis for determining the magnitude of deviation from those baseline conditions resulting from onsite remediation activities (project) at SSFL. RPs are monitoring for particulate matter less than 10 microns in aerodynamic diameter (PM_{10}), particulate matter less than 2.5 microns in aerodynamic diameter ($PM_{2.5}$), and volatile organic compounds (VOCs), at 14 locations at SSFL. Gross alpha and gross beta radioactivity were monitored at two locations this quarter near ETEC buildings at a location in the Radioactive Material Handling Facility (RMHF) and at Area 20. Data was also collected for four perimeter samplers (DOE-1 through DOE-4) for gross alpha and gross beta. Individual radionuclides concentrations were determined by analysis at an off-site laboratory for these same four locations. Meteorological data are also collected as a part of the Baseline Air Monitoring Program.

Figure 1 shows the air monitoring locations for the Baseline Air Monitoring Program. These locations were selected based on the areas to be remediated, with consideration of winds in the area, topographic features, and accessibility. The air monitoring sites were selected based on guidance obtained from the U.S. Environmental Protection Agency's (EPA's) *Quality Assurance Handbook for Air Pollution Measurement Systems*, Volume II, Ambient Air Monitoring Program (EPA 2013) and *Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA 2000). Sites were evaluated per 40 Code of Federal Regulations (CFR) 58, Appendix C – Probe and Monitoring Path Siting Criteria for Ambient Air Quality Monitoring. DOE is responsible for DOE-1, DOE-2, DOE-3, and DOE-4 of the 14 monitoring locations, represented in Figure 1. VOCs, PM_{10} , and radionuclides are monitored at the four DOE monitoring locations and meteorological conditions are monitored at the DOE-4 location. The DOE monitoring locations DOE-1 through DOE-4 are presented in Figure 2.

The duration of the baseline monitoring period is 1 year. This report summarizes the quarterly results and quality assurance (QA) activities performed at the DOE locations between April 15, 2018, and July 14, 2018, which represents the first quarter (Q1) of the 1-year baseline monitoring period.

1.1 Regional Climate and Wind Direction

The climate in the area of SSFL is characterized as “Mediterranean.” The mean temperature during the winter months is approximately 50 degrees Fahrenheit (°F) and the mean temperature in the summer months is approximately 70°F. Based on climate data between 2011 and 2017 from the National Weather Service, rainfall has ranged from approximately 4 inches to approximately 14.5 inches on a calendar year basis. Average rainfall is on the order of 10.45 inches per year. The majority of the rainfall occurs between October and April.

The average hourly wind speed in Simi Valley varies significantly by season. The more turbulent part of the year lasts for 6 months, from November to April, with average western wind speeds of more than 7 miles per hour. The calmer time of year lasts for 6 months, with northerly winds from May to October.

During the fall, winter, and spring, Santa Ana winds can blow from the north or northeast in excess of 30 knots.

2. ANALYTICAL SAMPLING EVENTS

VOCs are collected according to the EPA Toxic Compendium Method TO-15, *Determination of Volatile Organic Compounds (VOCs) Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)* (EPA 1999). Twenty-four-hour time-integrated samples are collected into Summa canisters via a flow controller and sent to an offsite laboratory for analysis. VOCs are collected every other week. There were six sampling events in this reporting period. One field duplicate sample was collected during each sampling event.

During the first calendar quarter of 2018, ambient air sampling was performed continuously at SSFL with two air samplers operating on 7-day sampling cycles. Locations of these two samplers are shown in Figure 3. These are referred herein as Set 1 Samplers. Airborne particulate radioactivity was collected on glass fiber (Type A/E) filters that were changed weekly. The samples were counted for gross alpha and beta radiation following a minimum 120-hour decay period to allow the decay of short-lived radon and thoron daughters. The volume of a typical weekly ambient air sample was approximately 50.4 m³. There were 13 sampling events in this reporting period.

The weekly ambient air samples were counted using a dual-phosphor solid scintillation detector. The solid scintillation detector uses separate phosphors to detect high linear energy transfer (i.e., alpha) particles and low linear energy transfer (i.e., beta) particles. This detector is capable of simultaneously counting alpha and beta radiation. The sample-detector configuration provides nearly hemispherical (2π) geometry. A preset time mode of operation is used for counting all samples. Counting system efficiencies were determined routinely with technetium-99 (Tc-99) and thorium-230 (Th-230) standard sources. The activities of the standard sources are traceable to the National Institute of Standards and Technology (NIST).

Radionuclide samples were also collected at four perimeter sampler locations (DOE-1 through DOE-4). These are referred to herein as Set 2 Samplers. These samples were also collected on glass fiber (Type A/E) filters that are changed twice a week. After a minimum 120-hour holding time to allow the decay of short-lived radon and thoron daughters, the samples are simultaneously counted for gross alpha and beta activity with a low-background, thin-window, gas-flow proportional-counting system continually purged with P-10 argon/methane counting gas over a preset time interval. There were 26 sampling events in this reporting period. All 26 separate sample filters were combined at each of the four sampling stations to form one composite sample at each location.

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3. DATA

Sections 3.1 through 3.4 discuss Q1 air monitoring data.

3.1 Meteorological Data

Meteorological data were collected at the onsite monitoring station DOE-4. Monitored meteorological parameters included wind speed, wind direction, air temperature at 2 meters (m) and 10 m, relative humidity, precipitation, barometric pressure, and solar radiation. In addition, statistical parameters were provided by the data logger to include delta temperature (i.e., difference between 10-m and 2-m temperature), maximum wind speed (i.e., wind gust), and standard deviation of wind direction. Meteorological data at this station are being processed and reported in 15-minute intervals (i.e., at :00, :15, :30; and :45 minutes of each hour).

A data validation screening was performed on the monitored meteorological parameters based on Table 8.4 – *Screening Criteria of the EPA's Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA 2000). The screening was performed at the end of the reporting period. The data validation screening provides the basis for evaluating data completeness and for determining sensor performance and/or maintenance status.

There were 91 days in this reporting period. The meteorological data collection did not begin, however, until 38 days into the quarter (22 May 2018) due to equipment issues as described in Section 4.1.7, Corrective Action. Project data completeness goals of 80% for the meteorological data were achieved based on the actual data period of record (22 May 2018 through 14 Jul 2018). However, based on the start date of the reporting period (15 April 2018), the data completeness goal was not achieved due to the 37 days of missed data collection, which accounts for the first 40% of the reporting period. Data completeness statistics are presented in Table 1 relative to both the actual data collection period and for the full reporting period. Specific findings and sensor maintenance recommendations associated with the data screening are presented in Section 4.1.7.

Table 1. Data screening summary for monitored meteorological parameters.

Meteorological Parameter	Screening Criteria ⁽¹⁾ (for valid sensor responses)	Data Completeness ⁽²⁾	
		Collection Period (22 May 2018 – 14 Jul 2018)	Reporting Period (15 April 2018 – 14 Jul 2018)
Wind Speed	between 0 and 25 m/sec > 0.1 m/sec variation over 3 hours > 0.5 m/sec variation over 12 hours	100%	58.6%
Wind Direction	between 0 and 360 degrees > 1 degree variation over 3 hours > 10 degree variation over 12 hours	100%	58.6%
Standard Deviation of Wind Direction	inherits the completeness stats of Wind Direction	100%	58.6%
Temperature @ 2 m	≤ local record high (monthly basis) ≥ local record low (monthly basis) > 0.5°C variation over 12 hours	98.81%	57.9%
Temperature @ 10 m	≤ local record high (monthly basis) ≥ local record low (monthly basis) > 0.5°C variation over 12 hours	98.57%	57.7%
Delta Temperature	≤ 0.1°C during daytime ≥ -0.1°C during nighttime between -3.0 and 5.0°C	99.61%	58.4%
Relative Humidity (and Dewpoint Temperature)	relative humidity between 0-100% dew point T ≤ ambient T dew point T ≤ 5.0°C variation over 1 hour dew point T > 0.5°C variation over 12 hours	98.65%	57.8%
Precipitation	≤ 1 inch in 1 hour ≤ 4 inches in 24 hours ≥ 2 inches in 3 months	96.87%	56.8%
Barometric Pressure	between 871 and 982 mb (local) (i.e., between 940 and 1060 mb sea level) ≤ 6 mb variation over 3 hours	100%	58.6%
Solar Radiation	> 0 at night ≤ maximum possible for the date and latitude.	99.98%	58.6%
Notes: (1) Screening criteria from EPA Meteorological Monitoring Guidance (EPA 2000), Table 8.4 – Suggested Data Screening Criteria. (2) Data completeness is the percentage of observations that pass screening divided by the total number of possible observations within the period (i.e., [Observations Passing Screening] / [Possible 15-minute observations]). Missing observations are considered as not passing screening and therefore count against the data completeness statistics. The number of possible observations in the Collection Period (22 May @ 16:30 – 14 Jul) = 5,118 The number of possible observations in the Reporting Period (15 Apr – 14 Jul) = 8,736			

The data validation screening involved comparing, on an individual parameter basis, the recorded values (i.e., observations) against the EPA screening criteria shown in Table 1. Values that fell outside the acceptable screening criteria were flagged as being “suspect.” These were excluded from the final dataset and counted against the data completeness percentage for the respective monitored parameter. No attempts were made to override the flags through meteorological judgment or comparison to observed values from nearby independent meteorological observations (i.e., Ventura County Air Pollution Control District station at Simi Valley – Cochran located 4 miles to the northeast, also referred to as MesoWest Station SV) or other Santa Susana Field Laboratory onsite meteorological observations. However, in the

case of precipitation, meteorological judgment was applied to invalidate the two recorded precipitation events during the month of May due to a determination that the rain gauge signal was being managed incorrectly within the data logger (see Section 4.1.8, Corrective Action, for a discussion).

In summary, the data validation screening determined that the lowest data completeness for all monitored parameters for the actual data collection period ranged from 96.87% for precipitation to 100% for wind speed/direction and barometric pressure. Based on the entire reporting period, data completeness was just below 60% for all parameters.

The final screened 15-minute meteorological dataset was used to develop the windrose presented on Figure 4. A windrose is a graphical representation of wind speed and direction distribution (or climatology) for the period of interest. The frequencies of winds blowing from a particular direction are shown as petals on the windrose. Wind speed is depicted by color bands on the windrose. During this monitoring period, the average wind speed at the site was 3.5 meters per second (m/sec), and the maximum recorded wind speed was 9.7 m/sec. The predominant wind direction was from the east-southeast with a secondary prevalence from the northwest to north-northwest. Calm winds are identified as being less than 0.5 m/sec.

3.2 PM₁₀ Data

PM₁₀ data are being collected with MetOne E-BAM monitors at four monitoring locations. The MetOne E-BAM uses the principle of beta attenuation to provide a determination of mass concentration. Twenty-four-hour concentrations are calculated from the hourly concentrations. There were 91 days in this reporting period. Monitors at locations DOE-1, DOE-3, and DOE-4 ran for all 91 days. The monitor at location DOE-2 was down for 5 of the 91 days (from July 10 to July 14) due to equipment issues. Data completeness for PM₁₀ exceeded the project goal of 80% completeness (see Table 2). The complete table of daily averages is presented in Appendix A.

Table 2. PM₁₀ data completeness for April 15–July 14, 2018.

Location	Valid Readings (Days)	Possible Readings (Days)	Data Completeness (Percent)
DOE-1	86	91	95
DOE-2	82	91	90
DOE-3	91	91	100
DOE-4	91	91	100

The five highest PM₁₀ results identified for the reporting period are listed in Table 3 along with the National Ambient Air Quality Standard (NAAQS) for PM₁₀. PM₁₀ concentrations were consistent with levels typically found in urban air. Four of the five highest results and were above the CAAQS during this reporting period.

Table 3. Top five PM₁₀ 24-hour average concentration days.

Date	Location	PM ₁₀ Value (µg/m ³)	CAAQS (µg/m ³)
6/18/2018	DOE-4	54.4583	50
7/9/2018	DOE-3	51.8333	50
6/19/2018	DOE-4	46.7500	50
7/9/2018	DOE-1	46.6667	50
7/9/2018	DOE-4	43.3333	50

Bold text and gray shaded - Value exceeds CAAQS

3.3 Volatile Organic Compound Data

There were six sampling events in this reporting period. Each of the four DOE locations was sampled during each sampling event. Data completeness goals for VOCs exceeded the project goal of 85% (see Table 4).

Table 4. Ambient air VOC data completeness.

Location	Valid Readings (Days)	Possible Readings (Days)	Data Completeness (Percent)
DOE-1	6	6	100
DOE-2	6	6	100
DOE-3	6	6	100
DOE-4	6	6	100

VOC detection results are presented in Table 5, including comparison to the June 2018 DTSC Human Health Risk Assessment (HHRA) Note 3 Screening Levels (DTSC 2018) or the May 2018 EPA Residential Air Regional Screening Levels (RSLs) (EPA 2018). Methylene chloride (6.2 µg/m³) was the only concentration detected above the respective DTSC HHRA Note 3 during the Q1 reporting period. Ethylbenzene (1.9 µg/m³), trichloroethene (3.8 µg/m³), and 4-ethyltoluene (3.3 µg/m³) were the only concentrations detected above the respective EPA Residential Air RSLs during the Q1 reporting period. Methylene chloride, ethylbenzene, and trichloroethene were detected once during Q1 at location DOE-1 during separate sampling events. 4-Ethyltoluene was detected twice during Q1, once at DOE-1 and once at DOE-4, both during the same sampling event. The detection at DOE-1 was below the EPA RSL and the detection at DOE-4 was above the EPA RSL. Complete VOC analytical results are presented in Appendix B.

Table 5. Ambient air VOC detection results compared to RSLs.

Location ID	Sample Date	Analyte	Result (µg/m ³)	Screening Level Value (µg/m ³)	SL Source
DOE-1	4/25/2018	Dichlorodifluoromethane	2	100	US EPA RSL
DOE-1	5/25/2018	Toluene	12	310	DTSC HHRA Note 3
DOE-1	6/8/2018	2-Butanone	4.2	5200	US EPA RSL
DOE-1	6/8/2018	Ethylbenzene	1.9	1.1	US EPA RSL
DOE-1	6/8/2018	Toluene	4.0	310	DTSC HHRA Note 3

Location ID	Sample Date	Analyte	Result (µg/m³)	Screening Level Value (µg/m³)	SL Source
DOE-1	6/21/2018	Chloromethane	1.9	94	US EPA RSL
DOE-1	6/21/2018	Dichlorodifluoromethane	3	100	US EPA RSL
DOE-1	6/21/2018	Ethyl acetate	1.4	73	US EPA RSL
DOE-1	7/3/2018	2-Butanone	3.0	5200	US EPA RSL
DOE-1	7/3/2018	4-Ethyltoluene	2.3*	3.1	US EPA RSL ¹
DOE-1	7/3/2018	Carbon disulfide	3.0	730	US EPA RSL
DOE-1	7/3/2018	Chloromethane	2.7	94	US EPA RSL
DOE-1	7/3/2018	Ethyl acetate	1.4	73	US EPA RSL
DOE-1	7/3/2018	Methylene chloride	6.2	1	DTSC HHRA Note 3
DOE-1	7/3/2018	Trichloroethene	3.8	0.48	US EPA RSL
DOE-2	4/25/2018	Dichlorodifluoromethane	2	100	US EPA RSL
DOE-2	4/25/2018	Ethyl acetate	8.9	73	US EPA RSL
DOE-2	4/25/2018	Toluene	1.7	310	DTSC HHRA Note 3
DOE-2	5/25/2018	Carbon disulfide	25	730	US EPA RSL
DOE-2	5/25/2018	Chloromethane	1.7	94	US EPA RSL
DOE-2	5/25/2018	Toluene	12	310	DTSC HHRA Note 3
DOE-2	6/21/2018	Chloromethane	1.9	94	US EPA RSL
DOE-2	6/21/2018	Dichlorodifluoromethane	3	100	US EPA RSL
DOE-2	6/21/2018	Ethyl acetate	2.3	73	US EPA RSL
DOE-2	7/3/2018	Chloromethane	2.5	94	US EPA RSL
DOE-3	4/25/2018	Dichlorodifluoromethane	2	100	US EPA RSL
DOE-3	5/25/2018	Dichlorodifluoromethane	2	100	US EPA RSL
DOE-3	5/25/2018	Ethyl acetate	2.9	73	US EPA RSL
DOE-3	5/25/2018	Styrene	2	940	DTSC HHRA Note 3
DOE-3	5/25/2018	Toluene	78	310	DTSC HHRA Note 3
DOE-3	6/21/2018	Chloromethane	2.0	94	US EPA RSL
DOE-3	6/21/2018	Dichlorodifluoromethane	3	100	US EPA RSL
DOE-3	6/21/2018	Ethyl acetate	1.6	73	US EPA RSL
DOE-3	7/3/2018	Chloromethane	2.5	94	US EPA RSL
DOE-4	4/25/2018	Dichlorodifluoromethane	2	100	US EPA RSL
DOE-4	5/25/2018	Toluene	21	310	DTSC HHRA Note 3
DOE-4	6/21/2018	Chloromethane	2.1	94	US EPA RSL
DOE-4	6/21/2018	Dichlorodifluoromethane	3	100	US EPA RSL
DOE-4	6/21/2018	Ethyl acetate	1.8	73	US EPA RSL
DOE-4	7/3/2018	1,2,4-Trimethylbenzene	14	63	US EPA RSL
DOE-4	7/3/2018	1,3,5-Trimethylbenzene	3.2	63	US EPA RSL
DOE-4	7/3/2018	2-Butanone	7.7	5200	US EPA RSL
DOE-4	7/3/2018	4-Ethyltoluene	3.3	3.1	US EPA RSL ¹
DOE-4	7/3/2018	4-Methyl-2-pentanone	13	3100	US EPA RSL
DOE-4	7/3/2018	Carbon disulfide	26	730	US EPA RSL
DOE-4	7/3/2018	Chloromethane	3.6	94	US EPA RSL
DOE-4	7/3/2018	Ethyl acetate	1.1	73	US EPA RSL

* = LCS or LCSD is outside acceptance limits

1 - RSL based on surrogate 1,1,1,2-Tetrafluoroethane (1,2-Dichlorotetrafluoroethane); 1,2-Dichlorobenzene (1,3-Dichlorobenzene); TPH, aromatic medium (4-Ethyltoluene); and TPH, aliphatic medium (n-Octane)

BOLD = detection above the reporting limit, and also exceeds the EPA or DTSC Screening Level

3.4 Radionuclide Data

There were 13 sampling events for Set 1 samplers and 26 sampling events for the Set 2 samplers this reporting period. Radionuclide samples were collected on glass fiber filters, as discussed in Section 2, and analyzed at the site. Results of the gross alpha and gross beta samples for Set 1 Samplers are provided in Table 6, below. Results of gross alpha and gross beta for Set 2 Samplers are provided in Table 7. Gross alpha and gross beta data results and minimum detectable concentration (MDC) are reported in Tables 6 and 7.

Results for the individual radionuclides from Set 2 Samplers are reported in Table 8. All 26 air filters for a sampling station were combined to form a composite sample. The four composite samples were processed at the laboratory and analyzed for the individual radionuclides. The laboratory reports the individual radionuclide data in units of pico-curies (pCi)/sample. This data is converted to airborne radioactivity concentrations by dividing by the volume of air represented by each composite filter sample. Reporting units are in micro-curie (uCi)/ milliliter (ml) as is referenced in the California regulations. Note that while each Set 2 Sampler operated at 35 liters per minute (lpm) the 4-inch diameter filters had to be cut into 1.85-inch diameter circles to be analyzed on-site in the gas flow proportional counter. These smaller diameter filters were sent to the laboratory for analysis, therefore the air volume represented by each individual filter was reduced accordingly (by a factor of 4.76).

Table 6. Gross Alpha and Gross Beta Air Sample Results.

Sample Collection Date	Gross Alpha (uCi/ml)	Gross Alpha MDA (uCi/ml)	Gross Beta (uCi/ml)	Gross Beta MDC (uCi/ml)
Sample Location – Area 20				
4/11/18	-5.12E-16	9.50E-15	-1.50E-13	2.64E-13
4/18/18	3.07E-15	8.60E-15	1.73E-13	2.62E-13
4/25/18	3.58E-15	6.13E-15	-9.31E-16	2.67E-13
5/2/18	-1.02E-15	9.07E-15	-9.78E-14	2.71E-13
5/9/18	2.09E-15	1.05E-14	2.53E-13	2.68E-13
5/16/18	0.00	1.17E-14	9.03E-14	2.65E-13
5/23/18	5.13E-16	1.07E-14	-1.24E-13	2.64E-13
5/30/18	3.07E-15	9.51E-15	1.19E-13	2.98E-13
6/6/18	-1.56E-15	9.64E-15	7.29E-14	2.62E-13
6/13/18	1.04E-15	1.15E-14	-2.12E-13	2.98E-13
6/20/18	2.08E-15	1.08E-14	1.37E-13	2.87E-13
6/27/18	4.15E-15	1.04E-14	-4.02E-14	2.89E-13
7/3/18	6.06E-16	1.52E-14	-4.56E-14	3.35E-13
Sample Location – RMHF				
4/11/18	2.05E-15	9.50E-15	-5.68E-14	2.64E-13
4/18/18	6.66E-15	8.60E-15	1.29E-13	2.62E-13
4/25/18	6.66E-15	6.14E-15	9.63E-16	2.67E-13
5/2/18	4.10E-15	9.07E-15	-6.52E-15	2.71E-13
5/9/18	0.00	1.05E-14	1.13E-13	2.68E-13
5/16/18	-5.12E-16	1.17E-14	3.17E-14	2.65E-13
5/23/18	3.08E-15	1.07E-14	1.12E-14	2.64E-13
5/30/18	2.56E-15	9.50E-15	1.02E-14	2.62E-13

6/6/18	-1.04E-15	9.64E-15	1.12E-13	2.99E-13
6/13/18	1.04E-15	1.15E-14	-1.82E-13	2.98E-13
6/20/18	1.56E-15	1.08E-14	1.20E-13	2.87E-13
6/27/18	4.67E-15	1.04E-14	-1.57E-13	2.89E-13
7/3/18	-4.85E-15	1.52E-14	9.62E-14	3.35E-13

Table 7. Gross Alpha and Gross Beta Air Sample Results for Set 2 Samplers

Sample Collection Date	Gross Alpha (uCi/ml)	Gross Alpha MDA (uCi/ml)	Gross Beta (uCi/ml)	Gross Beta MDC (uCi/ml)
Sample Location – DOE-1				
4/12/18	5.00E-15	1.57E-14	4.69E-14	6.12E-14
4/16/18	1.07E-14	1.19E-14	4.44E-14	4.65E-14
4/19/18	-3.38E-15	1.58E-14	-8.63E-16	6.18E-14
4/23/18	6.34E-15	1.19E-14	5.98E-14	4.65E-14
4/26/18	2.09E-14	1.57E-14	9.50E-14	6.15E-14
4/30/18	1.45E-14	1.19E-14	4.57E-14	4.64E-14
5/3/18	6.60E-15	1.17E-14	1.78E-14	5.81E-14
5/7/18	1.18E-14	8.77E-15	6.93E-14	4.37E-14
5/10/18	0.00E+00	1.17E-14	-1.37E-13	5.82E-14
5/14/18	6.46E-15	1.14E-14	4.51E-14	5.69E-14
5/17/18	1.58E-14	1.17E-14	1.95E-13	5.83E-14
5/21/18	6.81E-15	8.74E-15	5.39E-14	4.35E-14
5/24/18	1.65E-14	1.16E-14	5.88E-14	5.79E-14
5/29/18	-5.06E-16	6.99E-15	2.52E-14	3.48E-14
5/31/18	5.01E-15	1.76E-14	2.32E-14	8.75E-14
6/4/18	9.96E-15	6.70E-15	5.03E-14	4.50E-14
6/7/18	6.64E-15	8.96E-15	4.46E-14	6.02E-14
6/11/18	1.30E-14	6.69E-15	6.48E-14	4.49E-14
6/14/18	1.25E-14	8.96E-15	5.68E-14	6.02E-14
6/18/18	1.49E-14	6.69E-15	3.57E-14	4.49E-14
6/21/18	1.32E-14	8.90E-15	6.45E-14	5.98E-14
6/25/18	1.06E-14	6.74E-15	2.99E-14	4.52E-14
6/28/18	9.93E-15	8.91E-15	1.86E-14	5.98E-14
7/2/18	2.50E-15	1.73E-14	7.53E-14	6.21E-14
7/5/18	7.56E-15	1.74E-14	3.06E-14	6.25E-14
7/9/18	1.24E-15	1.30E-14	5.33E-14	4.66E-14
Sample Location – DOE-2				
4/12/18	1.01E-14	1.64E-14	3.40E-14	6.42E-14
4/16/18	1.21E-14	1.24E-14	4.77E-14	4.86E-14
4/19/18	-4.28E-15	1.66E-14	4.28E-15	6.48E-14
4/23/18	6.36E-15	1.24E-14	6.53E-14	4.87E-14
4/26/18	1.94E-14	1.65E-14	6.59E-14	6.45E-14
4/30/18	6.34E-15	1.24E-14	6.00E-14	4.86E-14
5/3/18	-8.43E-16	1.76E-14	3.83E-14	6.13E-14
5/7/18	8.70E-15	1.33E-14	5.70E-14	4.62E-14
5/10/18	1.41E-14	1.77E-14	5.33E-14	6.14E-14
5/14/18	-2.48E-15	1.32E-14	4.65E-14	4.57E-14

Sample Collection Date	Gross Alpha (uCi/ml)	Gross Alpha MDA (uCi/ml)	Gross Beta (uCi/ml)	Gross Beta MDC (uCi/ml)
5/17/18	-4.93E-15	1.75E-14	-4.97E-15	6.10E-14
5/21/18	-3.74E-15	1.33E-14	6.39E-16	4.62E-14
5/24/18	4.11E-15	1.76E-14	4.57E-14	6.12E-14
5/29/18	3.95E-15	1.06E-14	1.50E-15	3.68E-14
5/31/18	-1.12E-14	2.65E-14	-8.71E-15	9.23E-14
6/4/18	-6.34E-16	1.21E-14	-9.94E-14	4.62E-14
6/7/18	9.96E-15	1.62E-14	3.42E-14	6.17E-14
6/11/18	9.89E-15	1.21E-14	5.35E-14	4.61E-14
6/14/18	1.08E-14	1.62E-14	8.14E-14	6.18E-14
6/18/18	4.31E-15	1.21E-14	3.71E-14	4.61E-14
6/21/18	6.59E-15	1.61E-14	2.27E-14	6.15E-14
6/25/18	8.09E-15	1.22E-14	2.45E-14	4.64E-14
6/28/18	2.48E-15	1.61E-14	2.26E-14	6.14E-14
7/2/18	5.00E-15	1.57E-14	4.48E-14	6.14E-14
7/5/18	1.66E-15	1.58E-14	5.87E-14	6.18E-14
7/9/18	1.32E-14	1.18E-14	7.11E-14	4.61E-14
Sample Location – DOE-3				
4/12/18	-1.72E-15	2.06E-14	1.79E-14	6.55E-14
4/16/18	6.11E-16	1.56E-14	3.48E-14	4.95E-14
4/19/18	0.00E+00	2.08E-14	-9.44E-15	6.61E-14
4/23/18	7.66E-15	1.57E-14	3.56E-14	4.97E-14
4/26/18	-8.62E-16	2.08E-14	2.91E-14	6.58E-14
4/30/18	1.91E-15	1.56E-14	2.78E-14	4.96E-14
5/3/18	9.88E-15	1.66E-14	3.54E-14	5.92E-14
5/7/18	1.62E-14	1.25E-14	4.79E-14	4.47E-14
5/10/18	1.90E-14	1.66E-14	6.18E-14	5.92E-14
5/14/18	2.49E-15	1.24E-14	2.85E-14	4.45E-14
5/17/18	5.04E-15	1.69E-14	5.88E-14	6.03E-14
5/21/18	2.49E-15	1.25E-14	4.84E-14	4.46E-14
5/24/18	9.87E-15	1.65E-14	2.96E-14	5.92E-14
5/29/18	4.95E-15	9.94E-15	4.50E-14	3.55E-14
5/31/18	2.53E-15	2.50E-14	4.47E-14	8.93E-14
6/4/18	1.37E-14	8.54E-15	5.45E-14	4.32E-14
6/7/18	9.63E-15	1.14E-14	2.95E-14	5.78E-14
6/11/18	1.50E-14	8.53E-15	5.80E-14	4.32E-14
6/14/18	1.31E-14	1.14E-14	5.36E-14	5.78E-14
6/18/18	6.53E-15	8.53E-15	3.35E-14	4.32E-14
6/21/18	9.57E-15	1.14E-14	5.89E-14	5.75E-14
6/25/18	6.57E-15	8.59E-15	4.93E-14	4.35E-14
6/28/18	1.74E-14	1.14E-14	5.02E-14	5.75E-14
7/2/18	7.48E-15	1.56E-14	2.31E-14	5.90E-14
7/5/18	3.36E-15	1.57E-14	4.91E-14	5.94E-14
7/9/18	1.12E-14	1.17E-14	7.38E-14	4.43E-14
Sample Location – DOE-3				
4/12/18	2.05E-14	1.54E-14	9.25E-14	5.63E-14
4/16/18	1.05E-14	1.17E-14	6.77E-14	4.27E-14

Sample Collection Date	Gross Alpha (uCi/ml)	Gross Alpha MDA (uCi/ml)	Gross Beta (uCi/ml)	Gross Beta MDC (uCi/ml)
4/19/18	8.45E-16	1.56E-14	2.82E-14	5.69E-14
4/23/18	2.50E-15	1.17E-14	4.78E-14	4.27E-14
4/26/18	1.48E-14	1.55E-14	1.05E-13	5.66E-14
4/30/18	7.46E-15	1.17E-14	7.74E-14	4.27E-14
5/3/18	8.38E-15	1.57E-14	7.39E-15	6.25E-14
5/7/18	1.45E-14	1.19E-14	8.61E-14	4.72E-14
5/10/18	1.17E-14	1.57E-14	6.81E-14	6.25E-14
5/14/18	6.34E-16	1.17E-14	1.89E-14	4.65E-14
5/17/18	1.66E-15	1.58E-14	2.06E-14	6.27E-14
5/21/18	5.03E-15	1.19E-14	1.30E-14	4.71E-14
5/24/18	1.25E-14	1.57E-14	3.94E-14	6.24E-14
5/29/18	3.52E-15	9.45E-15	6.42E-15	3.75E-14
5/31/18	-1.29E-15	2.37E-14	-1.86E-14	9.43E-14
6/4/18	1.33E-14	1.01E-14	1.85E-14	4.44E-14
6/7/18	9.37E-15	1.35E-14	-8.17E-16	5.93E-14
6/11/18	1.14E-14	1.00E-14	5.62E-14	4.43E-14
6/14/18	1.87E-14	1.35E-14	5.05E-14	5.93E-14
6/18/18	3.80E-15	1.00E-14	3.83E-14	4.43E-14
6/21/18	5.92E-15	1.34E-14	5.50E-14	5.90E-14
6/25/18	1.09E-14	1.01E-14	2.47E-14	4.46E-14
6/28/18	9.32E-15	1.34E-14	2.55E-14	5.90E-14
7/2/18	1.44E-14	1.02E-14	1.58E-14	6.06E-14
7/5/18	1.36E-14	1.03E-14	2.54E-14	6.10E-14
7/9/18	1.14E-14	7.65E-15	4.21E-14	4.55E-14

Table 8. Individual Radionuclide Analysis

Radionuclide	Result (pCi/sample)	Minimum Detectable Concentration (pCi/sample)	Data Qualifier	Airborne Concentration (uCi/ml)
Location DOE-1 – Air volume/sample = 9.63E8 ml				
Americium-241	0.276	0.442	U	2.87E-16
Plutonium-238	0.0598	0.0966	U	6.21E-17
Plutonium-239/240	-0.018	0.0917	U	-1.87E-17
Polonium-210	5.19	3.32		5.39E-15
Thorium-228	0.681	0.308		7.07E-16
Thorium-230	1.13	0.373		1.17E-15
Thorium-232	0.752	0.183		7.81E-16
Uranium-233/234	0.886	0.473		9.20E-16
Uranium-235/236	0.105	0.315	U	1.09E-16
Uranium-238	0.674	0.253		7.00E-16
Beryllium-7	1.06	0.238		1.10E-15
Cesium-137	-0.0345	0.173	U	-3.58E-17
Cobalt-60	-0.0405	0.153	U	-4.21E-17
Manganese-54	-0.0666	0.152	U	-6.92E-17
Potassium-40	0.541	1.3	U	5.62E-16

Radionuclide	Result (pCi/sample)	Minimum Detectable Concentration (pCi/sample)	Data Qualifier	Airborne Concentration (uCi/ml)
Strontium-90	0.0947	1.12	U	9.83E-17
Plutonium-241	1.32	3.96	U	1.37E-15
Location DOE-2 – Air volume/sample = 9.74E8 ml				
Americium-241	0.425	0.433	U	4.36E-16
Plutonium-238	0.0315	0.129	U	3.23E-17
Plutonium-239/240	0.0316	0.0605	U	3.24E-17
Polonium-210	10.6	2.27		1.09E-14
Thorium-228	0.518	0.327		5.32E-16
Thorium-230	0.735	0.356		7.55E-16
Thorium-232	0.47	0.181		4.83E-16
Uranium-233/234	0.614	0.524		6.30E-16
Uranium-235/236	0	0.316	U	0.00E+00
Uranium-238	0.655	0.409		6.72E-16
Beryllium-7	1.18	1.04		1.21E-15
Cesium-137	-0.0532	0.271	U	-5.46E-17
Cobalt-60	-0.0197	0.152	U	-2.02E-17
Manganese-54	0.00609	0.124	U	6.25E-18
Potassium-40	1.45	1.67	U	1.49E-15
Strontium-90	0.133	1.41	U	1.37E-16
Plutonium-241	1.78	3.98	U	1.83E-15
Location DOE-3 – Air volume/sample = 1.01E9 ml				
Americium-241	0.0593	0.383	U	5.87E-17
Plutonium-238	0.065	0.105	U	6.44E-17
Plutonium-239/240	-0.0456	0.12	U	-4.51E-17
Polonium-210	2.93	5.4	U	2.90E-15
Thorium-228	0.246	0.323	U	2.44E-16
Thorium-230	0.897	0.383		8.88E-16
Thorium-232	0.479	0.19		4.74E-16
Uranium-233/234	0.747	0.499		7.40E-16
Uranium-235/236	-0.0251	0.486	U	-2.49E-17
Uranium-238	0.584	0.498		5.78E-16
Beryllium-7	1.55	0.31		1.53E-15
Cesium-137	0.032	0.106	U	3.17E-17
Cobalt-60	0.00753	0.11	U	7.46E-18
Manganese-54	-0.0281	0.113	U	-2.78E-17
Potassium-40	0.547	1.22	U	5.42E-16
Strontium-90	-0.546	1.17	U	-5.41E-16
Plutonium-241	2.15	4.21	U	2.13E-15
Location DOE-4 – Air volume/sample = 9.74E8 ml				
Americium-241	0.37	0.46	U	3.80E-16
Plutonium-238	0.0129	0.124	U	1.32E-17
Plutonium-239/240	0.0259	0.0496	U	2.66E-17
Polonium-210	5.46	1.36	U	5.61E-15
Thorium-228	0.565	0.348		5.80E-16
Thorium-230	0.876	0.398		8.99E-16

Radionuclide	Result (pCi/sample)	Minimum Detectable Concentration (pCi/sample)	Data Qualifier	Airborne Concentration (uCi/ml)
Thorium-232	0.514	0.21		5.28E-16
Uranium-233/234	0.929	0.511		9.54E-16
Uranium-235/236	0	0.308	U	0.00E+00
Uranium-238	1.3	0.399		1.33E-15
Beryllium-7	0.288	1.09	U	2.96E-16
Cesium-137	-0.0891	0.193	U	-9.15E-17
Cobalt-60	-0.0263	0.183	U	-2.70E-17
Manganese-54	-0.00925	0.127	U	-9.50E-18
Potassium-40	-0.0099	1.65	U	-1.02E-17
Strontium-90	0.168	1.41	U	1.72E-16
Plutonium-241	1.88	4.18	U	1.93E-15

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4. QA/QC ACTIVITIES

The following QA/quality control (QC) activities were conducted for the PM₁₀, VOC, and meteorological data collection and analysis. Radionuclide data collection and analysis also consisted of QA/QC activities, which will be discussed in the annual report.

4.1 Field QA/QC

4.1.1 PM₁₀

The twenty-four-hour daily averages for Q1 are presented in Appendix A along with the monthly average minimum, maximum, and 95th percentile for each station location.

Flow Verifications

Functionality of the MetOne E-BAM units is verified and recorded monthly during instrument audits; however, the instruments are also checked several times a week for operability. During the monthly audits, the MetOne E-BAM temperature, pressure, and flow rate are verified against a National Institute of Standards and Technology (NIST) traceable flowmeter. None of the results exceeded the flow rate measurement quality objective of +/- 7%.

4.1.2 VOCs

A minimum of 20% of the VOC results are undergoing third-party data validation. During this quarter, one of the six sample delivery groups (SDGs), SDG 320-39822-1, underwent data validation.

4.1.3 Field Duplicates

Six field duplicates were collected during this reporting period, one per each sampling event, which exceeds the minimum quality objective of 10%. Five of the analytes detected in the six field duplicates exceeded the quality objective of +/- 15% relative percent difference (RPD). Eleven analytes were detected near the reporting limit in either the sample or duplicate, and in comparison, were reported as a non-detect in the associated sample or duplicate. Three sample and duplicate analyte detections were within the quality objective of +/- 15% RPD. There were no other detections associated with the samples and associated duplicates collected during this reporting period.

4.1.4 Canister Pressure

Vacuum in the canisters is measured before and after sampling with a analog pressure gauge to ensure proper function. Final canister vacuums ranged from -17 inches Hg to -2 inches Hg during this reporting period.

4.1.5 Radiological

The detector for sample analysis is calibrated annually by a third party vendor using sources traceable to the National Institute of Science and Technology (NIST). The detector is checked in by counting alpha- and beta-emitting sources at the site when received from the vendor following calibration. This establishes an acceptable performance range for daily source checks. Each day the detector is used performance is determined with the site source. The detector may be used if the daily check is within the acceptable performance range.

4.1.6 Meteorological

At the close of the reporting period, a data validation screening was performed on the monitored meteorological parameters based on Table 8 – *Screening Criteria of the EPA's Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA 2000), as discussed in Section 3.1. The data validation screening provided the basis for evaluating data completeness and for determining sensor performance and/or maintenance status.

4.1.7 Maintenance

Equipment maintenance performed during this reporting period included the following:

- Cleaned MetOne E-BAM nozzle/vane, as needed
- Cleaned PM₁₀ inlets and downtubes, as needed.

4.1.8 Corrective Action

The following issues and corrective actions were noted during this reporting period.

4.1.9 PM₁₀ Monitors

The MetOne E-BAM monitor at DOE-2 shut down on July 10, as discussed in Section 3.2. The monitor was sent back to the manufacturer and was replaced with a new monitor once it was received. At the time that DOE-2 went down, the back-up monitor that was onsite was already in use and a replacement back-up had not yet been received. A back-up monitor is now currently onsite to reduce future downtime. On June 20 through June 22, July 7, and July 8 DOE-1 reported a flow of 0. On July 6 through July 9 DOE-2 reported a flow of 0. The data was removed for biasing.

4.1.10 Meteorological Station

During the data validation screening performed on the meteorological dataset from the DOE-4 station, several issues were identified that had an impact on the meteorological data quality and data completeness. Descriptions and recommendations regarding these issues are presented below.

Start of Data Collection – Data collection from the DOE-4 meteorological station did not begin at the start of the reporting period but was delayed until 38 days into the reporting period due to problems with the data downloading software. The resolution involved using different software (Comet) for the communications interface. Although the meteorological station and data logger were operational from the beginning of the reporting period, the memory on the data logger had already filled to capacity due to the originally-set monitoring interval of 1-minute and had been overwritten by the time the new software was installed and became operational.

Data Logger Timestamp – A timestamp jump of approximately 1 hour was identified in the 01 Jun 2018 raw data records. An investigation revealed that the clock setting in the data logger was manually adjusted to Pacific Daylight Time (PDT) on that date rather than being kept in Pacific Standard Time (PST). To remedy this issue, the timestamp in the final screened dataset was adjusted to remove this known offset. In addition, a corrective action was performed on 14 Aug 2018 to reset the data logger clock back to PST and to ensure the clocks for meteorological station and EBAM monitors are synchronized.

Relative Humidity – A number of high-humidity events were detected in the raw data record. In several instances, values of 100.1% were recorded over extended periods of time ranging from 30 minutes up to 12 hours. These events occurred during early morning hours. This is consistent with a typical diurnal

cycle for relative humidity: lower values during daytime hours when ambient temperatures are higher; and higher values during night time hours when ambient temperatures are lower. The climate at the site in southern California is generally arid to semi-arid, and high relative humidity conditions are uncommon. However, based on the ETEC facility manager's knowledge of local climate conditions at the meteorological station and visual observations, the site is occasionally impacted by fog conditions associated with inland intrusion of the marine boundary layer. While this can occur at any time of the year, it is most frequent in May and June. The onsite ETEC facility manager confirmed that there were several instances of thick fog conditions during late May 2018, which coincides with the 100.1% relative humidity observations from the meteorological station. The coincident E-BAM relative humidity observations were not considered to be reliable for verifying these high-humidity events since the E-BAM monitors use internal relative humidity sensors, which may be shielded from true ambient conditions (i.e., temperature and moisture levels) outside the monitor housing. Consequently, there was only one issue associated with the relative humidity observations in the raw dataset: values exceeding 100%. Since the sensor is calibrated by the factory to have an operating range of 0–100%, recorded values of 100.1% are likely associated with mathematical precision/rounding in the scaling equation for the relative humidity sensor within the data logger program. Although this exceedance (of the 100% upper limit for this sensor) is considered extremely small, a value greater than 100% would be flagged as “suspect” in the data validation screening. It is typical in meteorological data collection projects for the data logger programming to internally apply a correction to relative humidity values that slightly exceed 100%. Inspection of the ETEC data logger programming interface and communication with the manufacturer (MetOne reveals that there is no option to add such a correction. In regard to the raw data record for this reporting period, there were 248 relative humidity observations of 100.1%. A review indicated that very high relative humidity conditions (i.e., 99.9 or 100%) were recorded in the observations prior to and after each occurrence of the 100.1% values. Subsequently, a correction to 100.0% was applied to all observations of 100.1% in the raw data prior to application of the EPA screening criteria. Since it is not possible to apply a corrective action for this situation using an adjustment to the data logger program, the corrective action will instead involve applying any needed adjustment to relative humidity raw data values exceeding 100% after it is downloaded and prior to application of the EPA screening criteria.

Precipitation – Two precipitation events were identified in the data record. The rain gauge operates on the principle of a tipping bucket that is calibrated to 0.01 inch of rainfall per bucket tip. During each observation interval, 15 minutes in this case, the data logger counts the number of bucket tips and records the resulting sum (converted to inches) at the end of the observation interval. The data buffer for this value should then be reset to zero for the start of the next observation interval. Review of the precipitation events recorded by the DOE-4 meteorological station indicates that the data logger is not properly resetting the data buffer to zero between 15-minute observations. Instead, it is resetting the buffer at the end of each 24-hour day. The data logger will be reprogrammed to correct the precipitation data management so that it resets the buffer to zero at the end of each 15-minute interval, after the observation is recorded.

Meteorological Data Validation Screening – The goal of a data monitoring program is to collect continuous and valid observations with a minimum of data loss. The data validation screening procedure is a quality assessment tool intended to ensure that the meteorological sensors are responding accurately and in accordance with a set of established standards of performance. Properly used, the data validation screening procedures should be applied on a frequent basis throughout the data collection period, not just at the end of the period, as occurred for this first reporting period. With a frequent data quality review, potential issues with sensors or the data logger can be promptly identified and corrected. Despite the sensor and data logger issues identified through the screening procedure performed at the end of the reporting period, data completeness (based on the 22 May start of data collection) was determined to be well above the 80% goal for all monitored meteorological parameters at station DOE-4. However, since the sensors were just put into service, performance is expected to be good and within acceptable limits.

As the sensors age, monitoring their performance and performing regular maintenance become more critical for avoiding or minimizing data loss. Therefore, starting with the Quarter #2 meteorological data monitoring, a corrective action has been implemented such that the data validation screening is being performed on at least a bi-weekly basis to ensure sensors are operating and responding normally.

4.2 Laboratory QA/QC

This report covers 30 air monitoring samples for VOCs collected and analyzed according to the EPA Toxic Compendium Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)* (EPA 1999). These samples were reported under six SDGs by the laboratory. The analyses were performed by Test America Group in Sacramento, CA. For each SDG, the laboratory ran continuing calibration verification, a method blank, and laboratory control samples, and verified surrogate recoveries for each sample.

4.3 Audit Results

The PM₁₀ instruments were installed on April 9. They were calibrated at the manufacturer and were functioning properly upon installation. Beginning in May, the PM₁₀ instruments were audited monthly with a secondary NIST traceable flow meter. Although audits occur only monthly, the instruments were checked to ensure that they are functioning several times a week. Table 9 lists the dates for audits conducted in May and June. An audit was also conducted on July 17, which is not included in this report because it is outside of this reporting period. No flow rate comparisons exceeded the project's acceptance criterion of +/- 7%. Complete audit reports are presented in Appendix C.

Table 9. PM₁₀ audit completeness.

Location	MetOne E-BAM Serial Number	Parameter	Date
DOE-1	W23314	PM ₁₀	5/18/2018
DOE-2	W23310	PM ₁₀	5/17/2018
DOE-3	W23313	PM ₁₀	5/22/2018
DOE-4	W23316	PM ₁₀	5/22/2018
DOE-1	W23314	PM ₁₀	6/19/2018
DOE -2	W23310	PM ₁₀	6/19/2018
DOE-3	W23313	PM ₁₀	6/20/2018
DOE-4	W23316	PM ₁₀	6/22/2018
DOE-1	X16067	PM ₁₀	6/22/2018

5. SUMMARY

This report summarizes the air monitoring data collected during the Q1 reporting period: April 15 through July 14, 2018. Field and laboratory QA procedures were acceptable during this monitoring period.

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6. REFERENCES

- Department of Toxic Substances Control (DTSC). 2018. *Approval of the Final Air Monitoring Station Locations for the Santa Susana Field Laboratory, Ventura County, California*. January 2018.
- California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). 2018. Human and Ecological Risk Office Human Health Risk Assessment Note Number 3, DTSC-modified Screening Levels. <https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-June-2018.pdf>. June.
- National Aeronautics and Space Administration (NASA). 2017. *Santa Susana Field Laboratory Baseline Air Monitoring Report Work Plan Report*. Prepared for California Department of Toxic Substances Control. Prepared on behalf of National Aeronautics and Space Administration, George C. Marshall Space Flight Center, The Boeing Company, and Department of Energy, Energy Technology and Engineering Center. September. Available online at: https://www.dtsc-ssfl.com/files/lib_air_monitor/work_plan/67496_SSFL_AirMonitoringWorkPlan_Final.pdf
- U.S. Environmental Protection Agency (EPA). 1999. *Air Method, Toxic Organics-15 (TO-15), Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*. EPA 625/R-96/010b. January. Available online at: <https://www.epa.gov/homeland-security-research/epa-air-method-toxic-organics-15-15-determination-volatile-organic>
- U.S. Environmental Protection Agency (EPA). 2000. *Meteorological Monitoring Guidance for Regulatory Modeling Applications, United State Environmental Protection Agency, Office of Air Quality Planning and Standards*. EPA-454/R-99-005. February 2000.
- U.S. Environmental Protection Agency (EPA). 2018. Regional Screening Levels – Generic Tables. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>. May.

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Figure 1

SSFL Air Monitoring Locations

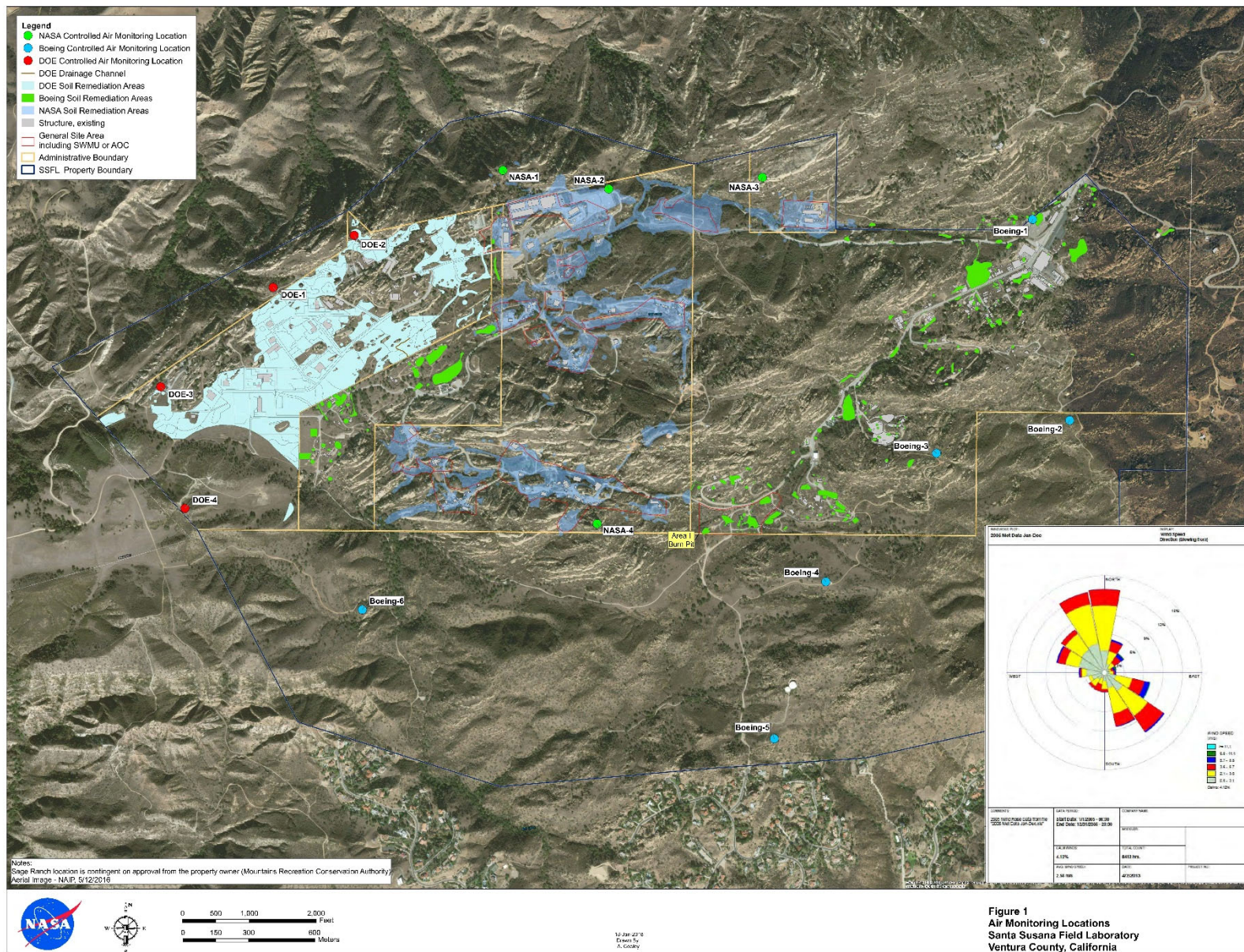


Figure 2

DOE Air Monitoring Locations

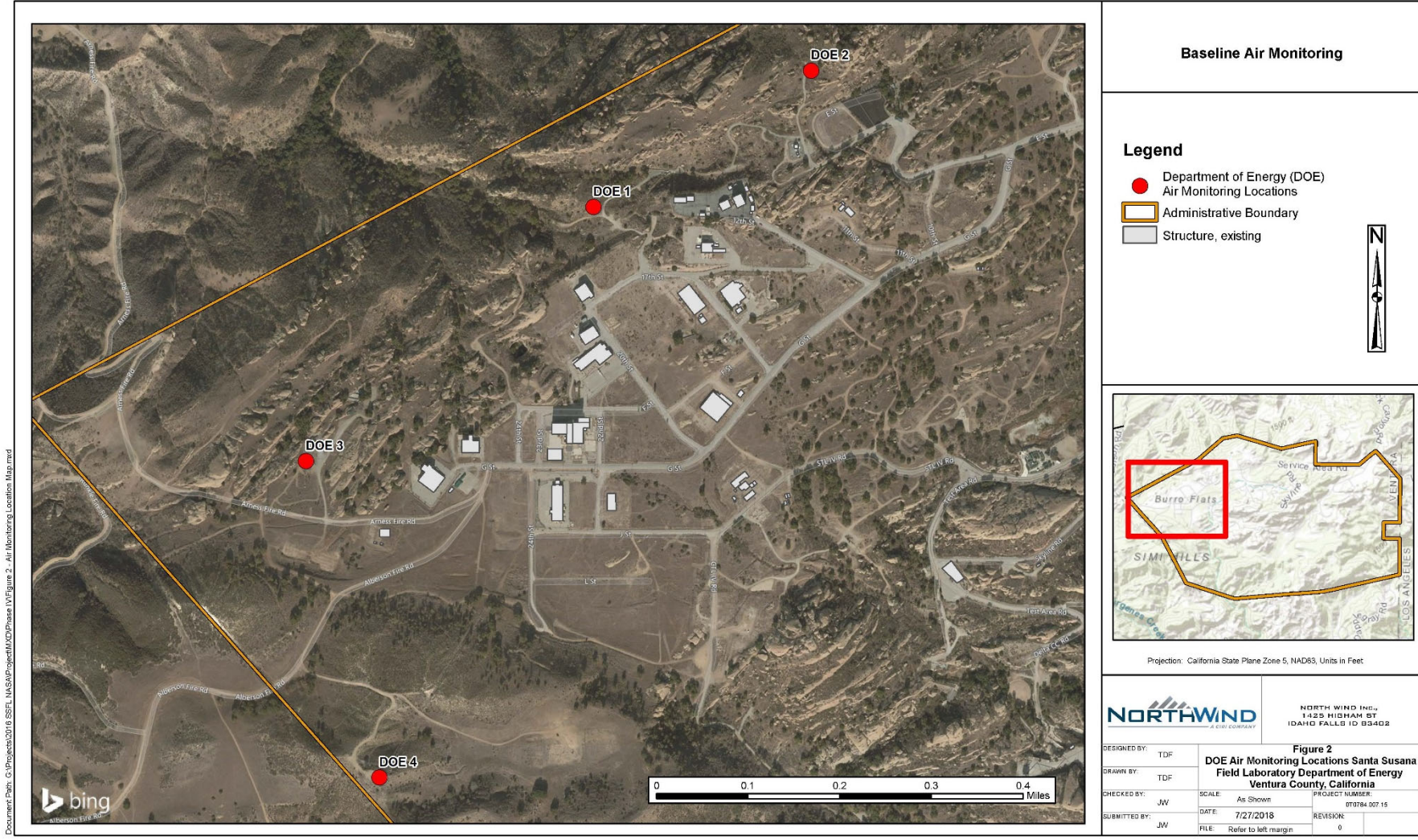


Figure 3

Map of Santa Susana Field Laboratory Area IV Sampling Stations

Map of Santa Susana Field Laboratory Area IV Sampling Stations

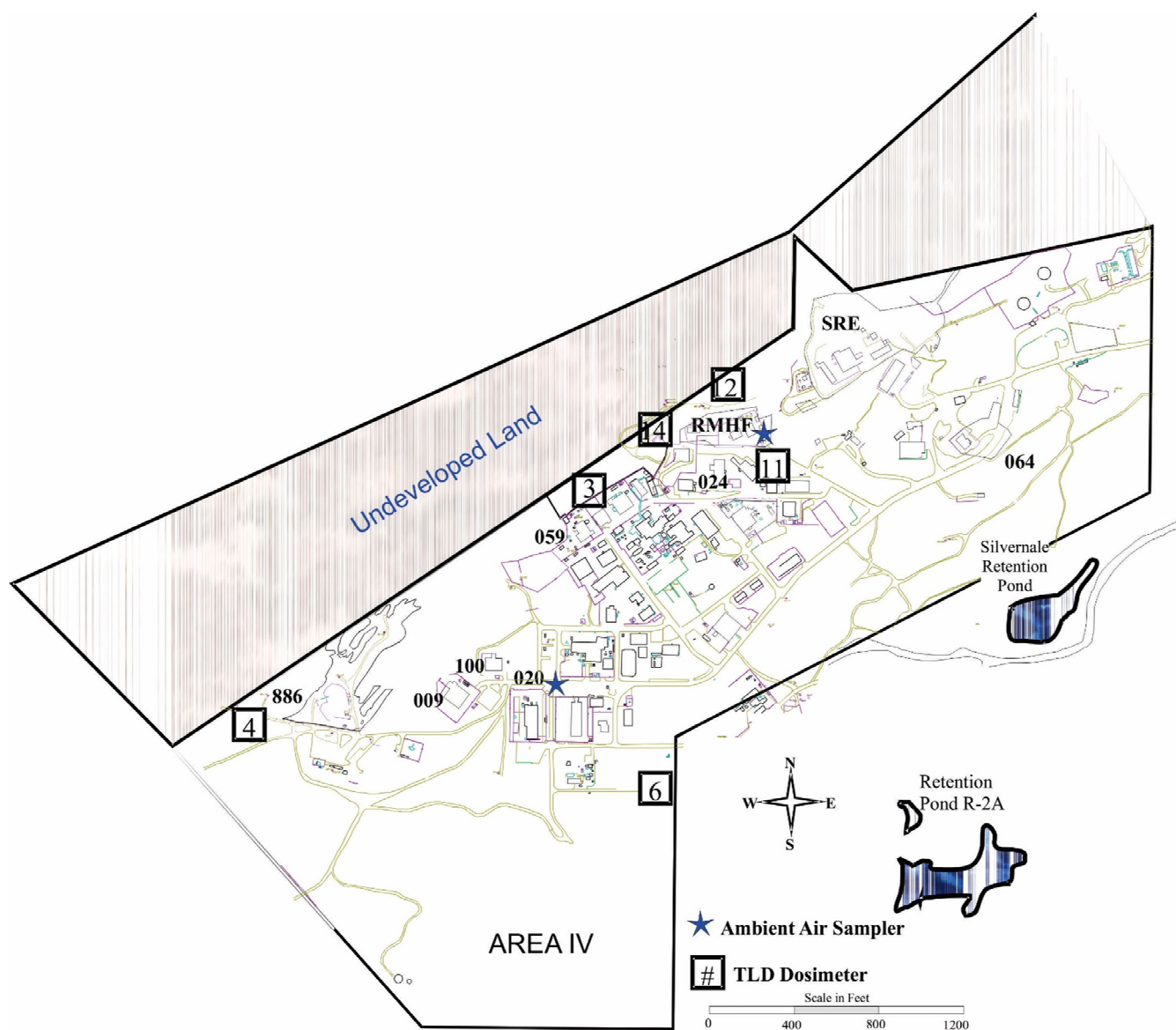
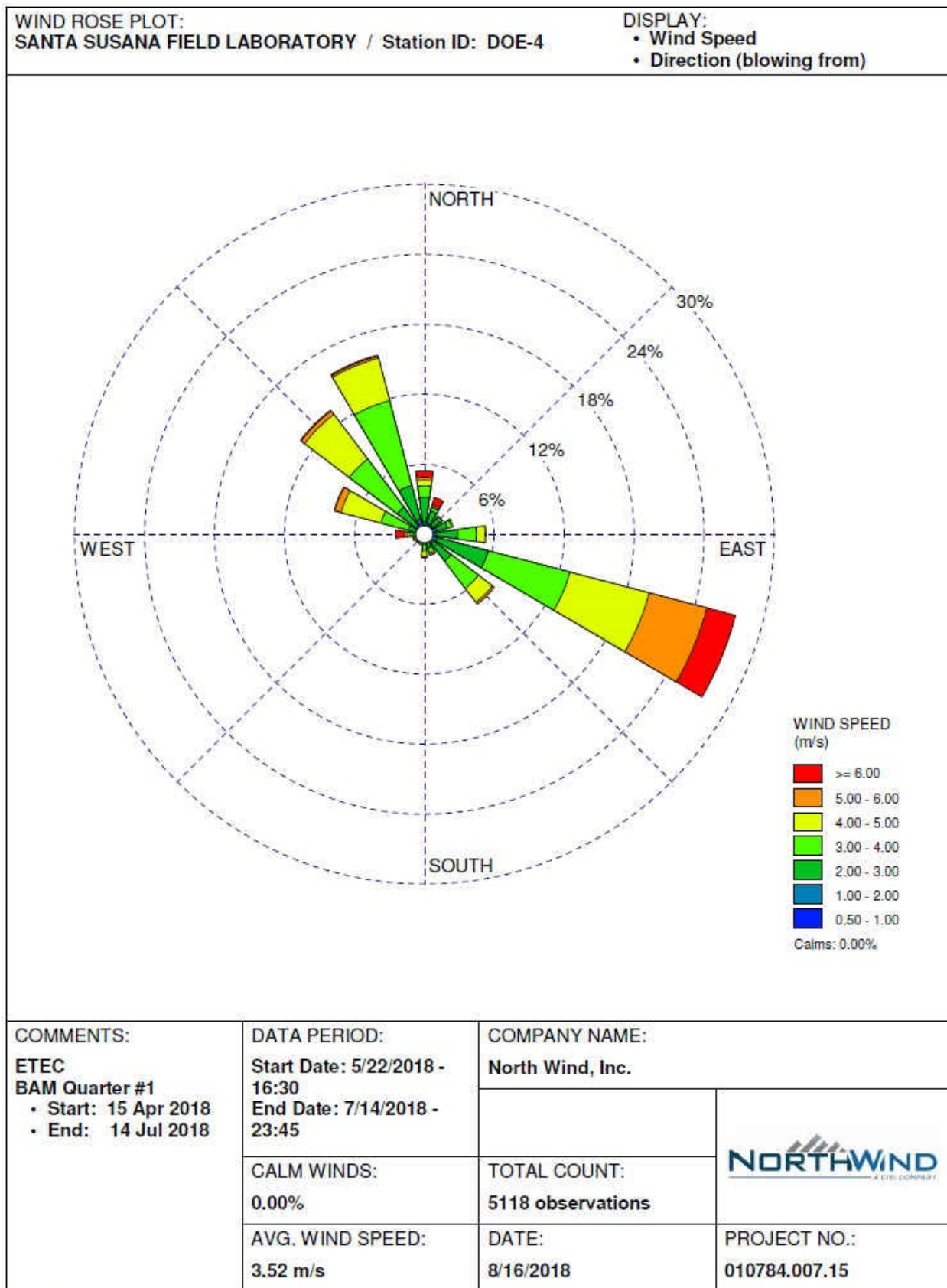


Figure 4

DOE Quarterly Windrose



WRPLOT View - Lakes Environmental Software

APPENDIX A

PM₁₀ Daily Averages and Monthly Statistics

PM₁₀ Daily Averages

Site ID	DOE-1	DOE-2	DOE-3	DOE-4
Sample Date	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)
4/15/2018	19.54167	18.25000	18.87500	19.00000
4/16/2018	17.04167	15.54167	20.41667	21.50000
4/17/2018	5.25000	3.58333	6.16667	5.66667
4/18/2018	8.70833	7.83333	9.66667	7.91667
4/19/2018	10.70833	12.16667	9.75000	7.87500
4/20/2018	13.08333	11.12500	13.16667	12.79167
4/21/2018	12.20833	9.70833	9.79167	9.25000
4/22/2018	13.16667	11.41667	13.00000	12.16667
4/23/2018	19.95833	18.50000	20.08333	9.45833
4/24/2018	17.95833	15.20833	17.37500	4.41667
4/25/2018	24.87500	21.29167	21.58333	20.20833
4/26/2018	18.45833	20.62500	19.08333	20.16667
4/27/2018	22.54167	28.83333	24.87500	26.95833
4/28/2018	21.58333	22.12500	24.45833	16.50000
4/29/2018	17.04167	20.41667	20.87500	15.70833
4/30/2018	19.83333	20.08333	22.33333	14.66667
5/1/2018	15.37500	25.04167	19.87500	11.16667
5/2/2018	15.37500	19.70833	18.62500	12.16667
5/3/2018	14.04167	11.58333	13.75000	12.16667
5/4/2018	15.33333	13.83333	15.00000	16.91667
5/5/2018	14.79167	11.58333	12.12500	11.91667
5/6/2018	10.62500	9.04167	21.62500	9.75000
5/7/2018	13.41667	11.66667	12.75000	12.91667
5/8/2018	16.33333	15.16667	16.54167	15.16667
5/9/2018	21.45833	18.50000	19.95833	17.70833
5/10/2018	26.20833	26.50000	28.54167	24.58333
5/11/2018	11.37500	14.87500	12.16667	7.66667
5/12/2018	14.50000	10.00000	9.79167	6.41667
5/13/2018	10.00000	10.75000	9.12500	9.08333
5/14/2018	12.12500	14.95833	10.95833	10.41667
5/15/2018	12.91667	9.83333	11.37500	10.50000
5/16/2018	11.75000	10.25000	14.58333	9.50000
5/17/2018	14.00000	12.33333	12.16667	12.16667
5/18/2018	21.41667	12.16667	13.16667	6.41667
5/19/2018	13.75000	14.91667	14.16667	6.00000
5/20/2018	16.54167	17.91667	18.08333	6.00000

Site ID	DOE-1	DOE-2	DOE-3	DOE-4
Sample Date	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)
5/21/2018	17.04167	14.66667	13.58333	8.62500
5/22/2018	11.50000	12.33333	12.79167	10.54054
5/23/2018	10.37500	9.50000	10.20833	10.29167
5/24/2018	6.87500	4.66667	4.62500	3.95833
5/25/2018	13.95833	4.08333	6.08333	4.62500
5/26/2018	12.70833	9.00000	10.00000	9.50000
5/27/2018	14.50000	15.87500	14.95833	13.95833
5/28/2018	16.83333	16.41667	17.37500	15.16667
5/29/2018	16.58333	21.79167	15.83333	20.16667
5/30/2018	7.50000	6.12500	6.50000	9.62500
5/31/2018	12.54167	10.87500	12.91667	10.95833
6/1/2018	13.87500	11.83333	12.83333	14.16667
6/2/2018	17.66667	15.29167	15.66667	18.08333
6/3/2018	22.29167	18.95833	22.25000	23.04167
6/4/2018	29.25000	26.12500	25.91667	22.87500
6/5/2018	20.75000	20.62500	22.00000	19.37500
6/6/2018	15.58333	17.87500	16.20833	13.37500
6/7/2018	21.20833	18.08333	24.00000	22.41667
6/8/2018	17.45833	16.50000	19.75000	21.29167
6/9/2018	25.50000	23.58333	26.37500	25.66667
6/10/2018	23.70833	20.29167	22.00000	20.20833
6/11/2018	19.91667	17.79167	18.91667	17.29167
6/12/2018	19.91667	17.79167	20.20833	18.33333
6/13/2018	19.08333	15.62500	19.41667	15.00000
6/14/2018	27.95833	20.29167	22.25000	18.54167
6/15/2018	24.41667	24.75000	24.75000	21.45833
6/16/2018	15.79167	21.66667	22.08333	15.66667
6/17/2018	8.83333	12.66667	10.54167	11.12500
6/18/2018	12.45833	23.79167	13.54167	54.45833
6/19/2018	16.54167	17.83333	19.20833	46.75000
6/20/2018		26.91667	22.12500	20.04167
6/21/2018		22.33333	25.58333	17.20833
6/22/2018		27.54167	25.45833	19.79167
6/23/2018	16.50000	28.37500	27.75000	16.58333
6/24/2018	13.37500	19.12500	21.50000	10.37500
6/25/2018	14.54167	27.12500	26.00000	13.66667
6/26/2018	13.16667	18.12500	21.37500	13.25000
6/27/2018	20.70833	30.25000	32.12500	18.95833

Site ID	DOE-1	DOE-2	DOE-3	DOE-4
Sample Date	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)	PM10 (ug/m3) (CAAQS 50 ug/m3)
6/28/2018	20.58333	25.37500	26.62500	20.75000
6/29/2018	18.91667	26.91667	28.45833	17.58333
6/30/2018	15.58333	21.29167	22.87500	15.00000
7/1/2018	9.87500	11.33333	24.87500	9.79167
7/2/2018	9.66667	17.00000	17.58333	11.62500
7/3/2018	11.29167	18.75000	14.54167	10.12500
7/4/2018	9.54167	14.75000	14.75000	11.66667
7/5/2018	18.58333	18.66667	21.87500	16.62500
7/6/2018	14.87500		22.08333	15.04167
7/7/2018			24.04167	21.58333
7/8/2018			22.12500	19.45833
7/9/2018	46.66667		51.83333	43.33333
7/10/2018	23.45833		32.00000	23.33333
7/11/2018	16.54167		16.41667	15.58333
7/12/2018	13.37500		14.20833	13.62500
7/13/2018	14.75000		19.91667	14.91667
7/14/2018	14.20833		15.20833	13.50000

The CAAQS annual average PM10 concentration standard is 20 micrograms per cubic meter (µg/m3) and the 24-hour average PM10 concentration standard is 50 µg/m3 .

PM₁₀ Monthly Statistics

Location ID	April 2018			May 2018			June 2018			July 2018		
	PM10			PM10			PM10			PM10		
	High	Low	95th PCTL	High	Low	95th PCTL	High	Low	95th PCTL	High	Low	95th PCTL
DOE-1	24.88	5.25	23.13	26.21	6.88	21.44	29.25	8.83	27.22	46.67	9.54	31.58
DOE-2	28.83	3.58	23.80	26.50	4.08	23.42	30.25	11.83	28.00	18.75	11.33	18.73
DOE-3	24.88	6.17	24.56	28.54	4.63	20.79	32.13	10.54	28.14	51.83	14.21	38.94
DOE-4	26.96	4.42	22.59	24.58	3.96	18.94	54.46	10.38	37.26	43.33	9.79	30.33

APPENDIX B

Analytical Results for Ambient Air VOCs

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APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-71-8	Dichlorodifluoromethane	2	ug/m3	2		100	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-1	DOE-1_042518_S-04252018	N	4/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-71-8	Dichlorodifluoromethane	2	ug/m3	2		100	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	141-78-6	Ethyl acetate	8.9	ug/m3	1.1		73	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	108-88-3	Toluene	1.7	ug/m3	1.5		310	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-2	DOE-2_042518_S-04252018	N	4/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	106-93-4	1,2-Dibromomethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	78-93-3	2-Butanone	2.6	ug/m3	2.4		5200	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-71-8	Dichlorodifluoromethane	3	ug/m3	2		100	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	141-78-6	Ethyl acetate	1.4	ug/m3	1.1		73	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-2	DOE-2_042518_D-04252018	FD	4/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-71-8	Dichlorodifluoromethane	2	ug/m3	2		100	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-3	DOE-3_042518_S-04252018	N	4/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-71-8	Dichlorodifluoromethane	2	ug/m3	2	U	100	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-4	DOE-4_042518_S-04252018	N	4/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-1	DOE-1_051018_S-05102018	N	5/10/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-2	DOE-2_051018_S-05102018	N	5/10/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-3	DOE-3_051018_S-05102018	N	5/10/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-3	DOE-3_051018_D-05102018	FD	5/10/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-4	DOE-4_051018_S-05102018	N	5/10/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	108-88-3	Toluene	12	ug/m3	1.5		310	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-1	DOE-1_052518_S-05252018	N	5/25/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-15-0	Carbon disulfide	25	ug/m3	2.5		730	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	74-87-3	Chloromethane	1.7	ug/m3	1.7		94	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	108-88-3	Toluene	12	ug/m3	1.5		310	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-2	DOE-2_052518_S-05252018	N	5/25/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-71-8	Dichlorodifluoromethane	2	ug/m3	2		100	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	141-78-6	Ethyl acetate	2.9	ug/m3	1.1		73	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	100-42-5	Styrene	2	ug/m3	1.7		940	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	108-88-3	Toluene	78	ug/m3	1.5		310	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-3	DOE-3_052518_S-05252018	N	5/25/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	108-88-3	Toluene	21	ug/m3	1.5		310	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-4	DOE-4_052518_S-05252018	N	5/25/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	108-88-3	Toluene	9.8	ug/m3	1.5		310	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-4	DOE-4_052518_D-05252018	FD	5/25/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.7	ug/m3	1.7	U	1000	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.9	ug/m3	2.9	U	0.048	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.2	ug/m3	3.2	U	5200	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.3	ug/m3	2.3	U	0.18	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.3	ug/m3	1.3	U	1.8	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.4	ug/m3	3.4	U	73	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 16	ug/m3	16	U	0.39	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 4.2	ug/m3	4.2	U	63	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.5	ug/m3	6.5	U	0.0047	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.5	ug/m3	2.5	U	210	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.4	ug/m3	3.4	U	0.11	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	78-87-5	1,2-Dichloropropane	< 2.0	ug/m3	2	U	0.28	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 3.0	ug/m3	3	U	83000	US EPA RSL ¹
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.1	ug/m3	2.1	U	63	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	106-99-0	1,3-Butadiene	< 1.9	ug/m3	1.9	U	0.017	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.5	ug/m3	2.5	U	210	US EPA RSL ¹
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.5	ug/m3	2.5	U	0.26	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	123-91-1	1,4-Dioxane	< 3.1	ug/m3	3.1	U	0.36	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	78-93-3	2-Butanone	4.2	ug/m3	2.5		5200	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	591-78-6	2-Hexanone	< 1.7	ug/m3	1.7	U	31	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	622-96-8	4-Ethyltoluene	< 2.1	ug/m3	2.1	U	3.1	US EPA RSL ¹
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.7	ug/m3	4.7	U	-----	-----
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.7	ug/m3	1.7	U	3100	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	107-02-8	Acrolein	< 4.9	ug/m3	4.9	U	0.021	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	107-13-1	Acrylonitrile	< 4.6	ug/m3	4.6	U	0.0097	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	71-43-2	Benzene	< 1.4	ug/m3	1.4	U	0.097	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	100-44-7	Benzyl chloride	< 4.4	ug/m3	4.4	U	0.057	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-27-4	Bromodichloromethane	< 2.1	ug/m3	2.1	U	0.076	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-25-2	Bromoform	< 4.4	ug/m3	4.4	U	2.6	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	74-83-9	Bromomethane	< 3.3	ug/m3	3.3	U	5.2	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	104-51-8	Butylbenzene, n-	< 2.3	ug/m3	2.3	U	210	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.3	ug/m3	2.3	U	420	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-15-0	Carbon disulfide	< 2.6	ug/m3	2.6	U	730	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	56-23-5	Carbon tetrachloride	< 5.3	ug/m3	5.3	U	0.067	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-00-3	Chloroethane	< 2.2	ug/m3	2.2	U	10000	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	67-66-3	Chloroform	< 1.6	ug/m3	1.6	U	0.12	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	74-87-3	Chloromethane	< 1.8	ug/m3	1.8	U	94	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.7	ug/m3	1.7	U	8.3	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.9	ug/m3	1.9	U	-----	-----
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	110-82-7	Cyclohexane	< 1.5	ug/m3	1.5	U	6300	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	124-48-1	Dibromochloromethane	< 3.6	ug/m3	3.6	U	0.13	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.1	ug/m3	2.1	U	100	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	100-41-4	Ethylbenzene	1.9	ug/m3	1.8		1.1	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 23	ug/m3	23	U	0.13	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	110-54-3	Hexane, n-	< 3.0	ug/m3	3	U	730	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	67-63-0	Isopropanol	< 5.2	ug/m3	5.2	U	210	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	98-82-8	Isopropylbenzene	< 4.2	ug/m3	4.2	U	420	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	179601-23-1	m,p-Xylene	< 3.7	ug/m3	3.7	U	100	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	1634-04-4	Methyl tert butyl ether	< 3.1	ug/m3	3.1	U	11	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-09-2	Methylene chloride	< 1.5	ug/m3	1.5	U	1	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	91-20-3	Naphthalene	< 4.4	ug/m3	4.4	U	0.083	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	142-82-5	n-Heptane	< 3.5	ug/m3	3.5	U	420	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	111-65-9	n-Octane	< 2.0	ug/m3	2	U	100	US EPA RSL ¹
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	103-65-1	n-Propylbenzene	< 2.1	ug/m3	2.1	U	1000	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	95-47-6	o-Xylene	< 1.8	ug/m3	1.8	U	100	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	100-42-5	Styrene	< 1.8	ug/m3	1.8	U	940	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	127-18-4	Tetrachloroethene	< 2.9	ug/m3	2.9	U	0.46	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	109-99-9	Tetrahydrofuran	< 2.5	ug/m3	2.5	U	2000	EPA IRIS
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	108-88-3	Toluene	4.0	ug/m3	1.6		310	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.7	ug/m3	1.7	U	83	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.9	ug/m3	1.9	U	-----	-----
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	79-01-6	Trichloroethene	< 2.3	ug/m3	2.3	U	0.48	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.4	ug/m3	2.4	U	1300	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	108-05-4	Vinyl acetate	< 3.0	ug/m3	3	U	210	US EPA RSL
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	75-01-4	Vinyl chloride	< 1.1	ug/m3	1.1	U	0.0095	DTSC HHRA Note 3
DOE-1	DOE-1_060818_S-06082018	N	6/8/2018	TO15	1330-20-7	Xylenes (Total)	< 5.5	ug/m3	5.5	U	100	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.7	ug/m3	1.7	U	1000	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.8	ug/m3	2.8	U	0.048	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.2	ug/m3	3.2	U	5200	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.3	ug/m3	1.3	U	1.8	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.3	ug/m3	3.3	U	73	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 4.1	ug/m3	4.1	U	63	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.3	ug/m3	6.3	U	0.0047	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.5	ug/m3	2.5	U	210	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.3	ug/m3	3.3	U	0.11	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.9	ug/m3	1.9	U	0.28	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.9	ug/m3	2.9	U	83000	US EPA RSL ¹
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.5	ug/m3	2.5	U	210	US EPA RSL ¹
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.5	ug/m3	2.5	U	0.26	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	123-91-1	1,4-Dioxane	< 3.0	ug/m3	3	U	0.36	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	78-93-3	2-Butanone	5.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	591-78-6	2-Hexanone	< 1.7	ug/m3	1.7	U	31	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.5	ug/m3	4.5	U	-----	-----
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.7	ug/m3	1.7	U	3100	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	107-02-8	Acrolein	< 4.7	ug/m3	4.7	U	0.021	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	107-13-1	Acrylonitrile	< 4.5	ug/m3	4.5	U	0.0097	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	100-44-7	Benzyl chloride	< 4.3	ug/m3	4.3	U	0.057	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-27-4	Bromodichloromethane	< 2.1	ug/m3	2.1	U	0.076	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-25-2	Bromoform	< 4.3	ug/m3	4.3	U	2.6	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	74-83-9	Bromomethane	< 3.2	ug/m3	3.2	U	5.2	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	104-51-8	Butylbenzene, n-	< 2.3	ug/m3	2.3	U	210	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.3	ug/m3	2.3	U	420	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-15-0	Carbon disulfide	3.5	ug/m3	2.6	U	730	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	56-23-5	Carbon tetrachloride	< 5.2	ug/m3	5.2	U	0.067	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-00-3	Chloroethane	< 2.2	ug/m3	2.2	U	10000	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	74-87-3	Chloromethane	1.9	ug/m3	1.7	U	94	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.9	ug/m3	1.9	U	-----	-----
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	124-48-1	Dibromochloromethane	< 3.5	ug/m3	3.5	U	0.13	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-71-8	Dichlorodifluoromethane	3	ug/m3	2	U	100	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	141-78-6	Ethyl acetate	1.4	ug/m3	1.1	U	73	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	100-41-4	Ethylbenzene	< 1.8	ug/m3	1.8	U	1.1	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 22	ug/m3	22	U	0.13	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	110-54-3	Hexane, n-	< 2.9	ug/m3	2.9	U	730	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	67-63-0	Isopropanol	< 5.1	ug/m3	5.1	U	210	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	98-82-8	Isopropylbenzene	< 4.1	ug/m3	4.1	U	420	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	179601-23-1	m,p-Xylene	< 3.6	ug/m3	3.6	U	100	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	1634-04-4	Methyl tert butyl ether	< 3.0	ug/m3	3	U	11	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-09-2	Methylene chloride	2	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	91-20-3	Naphthalene	< 4.3	ug/m3	4.3	U	0.083	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	142-82-5	n-Heptane	< 3.4	ug/m3	3.4	U	420	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	95-47-6	o-Xylene	< 1.8	ug/m3	1.8	U	100	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	100-42-5	Styrene	< 1.8	ug/m3	1.8	U	940	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	127-18-4	Tetrachloroethene	< 2.8	ug/m3	2.8	U	0.46	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	108-88-3	Toluene	2.3	ug/m3	1.6	U	310	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.9	ug/m3	1.9	U	-----	-----

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	79-01-6	Trichloroethene	< 2.2	ug/m3	2.2	U	0.48	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.3	ug/m3	2.3	U	1300	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	108-05-4	Vinyl acetate	< 2.9	ug/m3	2.9	U	210	US EPA RSL
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	75-01-4	Vinyl chloride	< 1.1	ug/m3	1.1	U	0.0095	DTSC HHRA Note 3
DOE-1	DOE-1_060818_D-06082018	FD	6/8/2018	TO15	1330-20-7	Xylenes (Total)	< 5.4	ug/m3	5.4	U	100	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-2	DOE-2_060818_S-06082018	N	6/8/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-3	DOE-3_060818_S-06082018	N	6/8/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2	U	100	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-4	DOE-4_060818_S-06082018	N	6/8/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	74-87-3	Chloromethane	1.9	ug/m3	1.7		94	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-71-8	Dichlorodifluoromethane	3	ug/m3	2		100	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	141-78-6	Ethyl acetate	1.4	ug/m3	1.1		73	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-1	DOE-1_062118_S-06212018	N	6/21/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	74-87-3	Chloromethane	1.9	ug/m3	1.7		94	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-71-8	Dichlorodifluoromethane	3	ug/m3	2		100	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	141-78-6	Ethyl acetate	2.3	ug/m3	1.1		73	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-2	DOE-2_062118_S-06212018	N	6/21/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	74-87-3	Chloromethane	1.8	ug/m3	1.7		94	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-71-8	Dichlorodifluoromethane	2	ug/m3	2		100	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	141-78-6	Ethyl acetate	1.9	ug/m3	1.1		73	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-2	DOE-2_062118_D-06212018	FD	6/21/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	74-87-3	Chloromethane	2.0	ug/m3	1.7		94	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-71-8	Dichlorodifluoromethane	3	ug/m3	2		100	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	141-78-6	Ethyl acetate	1.6	ug/m3	1.1		73	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-3	DOE-3_062118_S-06212018	N	6/21/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2	U	63	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2	U	3.1	US EPA RSL ¹
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2	U	0.076	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5	U	0.067	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	74-87-3	Chloromethane	2.1	ug/m3	1.7		94	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-71-8	Dichlorodifluoromethane	3	ug/m3	2		100	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	141-78-6	Ethyl acetate	1.8	ug/m3	1.1		73	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2	U	1000	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1	U	0.0095	DTSC HHRA Note 3
DOE-4	DOE-4_062118_S-06212018	N	6/21/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U*	0.048	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U*	0.18	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	.73	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U*	0.39	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U*	63	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U*	0.0047	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U*	210	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2.0	U*	63	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U*	210	US EPA RSL ¹
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U*	0.26	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	78-93-3	2-Butanone	3.0	ug/m3	2.4		5200	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	622-96-8	4-Ethyltoluene	2.3	ug/m3	2.0	*	3.1	US EPA RSL ¹
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U*	-----	-----
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U*	0.057	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2.0	U	0.076	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U*	2.6	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U*	210	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U*	420	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-15-0	Carbon disulfide	3.0	ug/m3	2.5		730	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5.0	U	0.067	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	74-87-3	Chloromethane	2.7	ug/m3	1.7		94	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U*	0.13	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2.0	U	100	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	141-78-6	Ethyl acetate	1.4	ug/m3	1.1		73	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U*	1.1	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U*	0.13	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U*	420	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U*	100	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-09-2	Methylene chloride	6.2	ug/m3	1.4		1	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U*	0.083	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U*	100	US EPA RSL ¹
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2.0	U*	1000	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U*	100	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U*	940	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U*	0.46	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U*	-----	-----
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	79-01-6	Trichloroethene	3.8	ug/m3	2.1		0.48	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1.0	U	0.0095	DTSC HHRA Note 3
DOE-1	DOE-1_070318_S-07032018	N	7/3/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U*	100	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2.0	U	63	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2.0	U	3.1	US EPA RSL ¹
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2.0	U	0.076	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5.0	U	0.067	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	74-87-3	Chloromethane	2.5	ug/m3	1.7		94	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2.0	U	100	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2.0	U	1000	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1.0	U	0.0095	DTSC HHRA Note 3
DOE-2	DOE-2_070318_S-07032018	N	7/3/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2.0	U	63	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2.0	U	3.1	US EPA RSL ¹
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2.0	U	0.076	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	56-23-3	Carbon tetrachloride	< 5.0	ug/m3	5.0	U	0.067	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	74-87-3	Chloromethane	2.5	ug/m3	1.7		94	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2.0	U	100	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	141-78-6	Ethyl acetate	< 1.1	ug/m3	1.1	U	73	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2.0	U	1000	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1.0	U	0.0095	DTSC HHRA Note 3
DOE-3	DOE-3_070318_S-07032018	N	7/3/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	< 3.9	ug/m3	3.9	U	63	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	< 2.0	ug/m3	2.0	U	63	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	78-93-3	2-Butanone	< 2.4	ug/m3	2.4	U	5200	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	622-96-8	4-Ethyltoluene	< 2.0	ug/m3	2.0	U	3.1	US EPA RSL ¹
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	108-10-1	4-Methyl-2-pentanone	< 1.6	ug/m3	1.6	U	3100	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2.0	U	0.076	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-15-0	Carbon disulfide	< 2.5	ug/m3	2.5	U	730	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5.0	U	0.067	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	74-87-3	Chloromethane	< 1.7	ug/m3	1.7	U	94	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-71-8	Dichlorodifluoromethane	2.4	ug/m3	2.0		100	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	141-78-6	Ethyl acetate	3.0	ug/m3	1.1		73	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2.0	U	1000	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1.0	U	0.0095	DTSC HHRA Note 3
DOE-3	DOE-3_070318_D-07032018	FD	7/3/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	71-55-6	1,1,1-Trichloroethane	< 1.6	ug/m3	1.6	U	1000	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	79-34-5	1,1,2,2-Tetrachloroethane	< 2.7	ug/m3	2.7	U	0.048	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.1	ug/m3	3.1	U	5200	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	79-00-5	1,1,2-Trichloroethane	< 2.2	ug/m3	2.2	U	0.18	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-34-3	1,1-Dichloroethane	< 1.2	ug/m3	1.2	U	1.8	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-35-4	1,1-Dichloroethene	< 3.2	ug/m3	3.2	U	73	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	120-82-1	1,2,4-Trichlorobenzene	< 15	ug/m3	15	U	0.39	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	95-63-6	1,2,4-Trimethylbenzene	14	ug/m3	3.9		63	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	106-93-4	1,2-Dibromoethane	< 6.1	ug/m3	6.1	U	0.0047	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	95-50-1	1,2-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	107-06-2	1,2-Dichloroethane	< 3.2	ug/m3	3.2	U	0.11	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	78-87-5	1,2-Dichloropropane	< 1.8	ug/m3	1.8	U	0.28	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	76-14-2	1,2-Dichlorotetrafluoroethane	< 2.8	ug/m3	2.8	U	83000	US EPA RSL ¹
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	108-67-8	1,3,5-Trimethylbenzene	3.2	ug/m3	2.0		63	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	106-99-0	1,3-Butadiene	< 1.8	ug/m3	1.8	U	0.017	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	541-73-1	1,3-Dichlorobenzene	< 2.4	ug/m3	2.4	U	210	US EPA RSL ¹
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	106-46-7	1,4-Dichlorobenzene	< 2.4	ug/m3	2.4	U	0.26	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	123-91-1	1,4-Dioxane	< 2.9	ug/m3	2.9	U	0.36	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	78-93-3	2-Butanone	7.7	ug/m3	2.4		5200	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	591-78-6	2-Hexanone	< 1.6	ug/m3	1.6	U	31	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	622-96-8	4-Ethyltoluene	3.3	ug/m3	2.0		3.1	US EPA RSL ¹
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	99-87-6	4-Isopropyltoluene	< 4.4	ug/m3	4.4	U	-----	-----
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	108-10-1	4-Methyl-2-pentanone	13	ug/m3	1.6		3100	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	107-02-8	Acrolein	< 4.6	ug/m3	4.6	U	0.021	US EPA RSL

APPENDIX B
Analytical Results for Ambient Air VOCs

Location ID	Sample ID	Sample Type	Sample Date	Analytical Method	CAS Number	Analyte	Result	Units	Reporting Limit	Lab Flags	Screening Level Value	SL Source
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	107-13-1	Acrylonitrile	< 4.3	ug/m3	4.3	U	0.0097	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	71-43-2	Benzene	< 1.3	ug/m3	1.3	U	0.097	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	100-44-7	Benzyl chloride	< 4.1	ug/m3	4.1	U	0.057	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-27-4	Bromodichloromethane	< 2.0	ug/m3	2.0	U	0.076	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-25-2	Bromoform	< 4.1	ug/m3	4.1	U	2.6	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	74-83-9	Bromomethane	< 3.1	ug/m3	3.1	U	5.2	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	104-51-8	Butylbenzene, n-	< 2.2	ug/m3	2.2	U	210	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	135-98-8	Butylbenzene, sec-	< 2.2	ug/m3	2.2	U	420	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-15-0	Carbon disulfide	26	ug/m3	2.5		730	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	56-23-5	Carbon tetrachloride	< 5.0	ug/m3	5.0	U	0.067	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-00-3	Chloroethane	< 2.1	ug/m3	2.1	U	10000	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	67-66-3	Chloroform	< 1.5	ug/m3	1.5	U	0.12	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	74-87-3	Chloromethane	3.6	ug/m3	1.7		94	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	156-59-2	cis-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	8.3	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	10061-01-5	cis-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	110-82-7	Cyclohexane	< 1.4	ug/m3	1.4	U	6300	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	124-48-1	Dibromochloromethane	< 3.4	ug/m3	3.4	U	0.13	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-71-8	Dichlorodifluoromethane	< 2.0	ug/m3	2.0	U	100	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	141-78-6	Ethyl acetate	1.1	ug/m3	1.1		73	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	100-41-4	Ethylbenzene	< 1.7	ug/m3	1.7	U	1.1	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	87-68-3	Hexachloro-1,3-butadiene	< 21	ug/m3	21	U	0.13	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	110-54-3	Hexane, n-	< 2.8	ug/m3	2.8	U	730	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	67-63-0	Isopropanol	< 4.9	ug/m3	4.9	U	210	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	98-82-8	Isopropylbenzene	< 3.9	ug/m3	3.9	U	420	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	179601-23-1	m,p-Xylene	< 3.5	ug/m3	3.5	U	100	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	1634-04-4	Methyl tert butyl ether	< 2.9	ug/m3	2.9	U	11	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-09-2	Methylene chloride	< 1.4	ug/m3	1.4	U	1	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	91-20-3	Naphthalene	< 4.2	ug/m3	4.2	U	0.083	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	142-82-5	n-Heptane	< 3.3	ug/m3	3.3	U	420	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	111-65-9	n-Octane	< 1.9	ug/m3	1.9	U	100	US EPA RSL ¹
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	103-65-1	n-Propylbenzene	< 2.0	ug/m3	2.0	U	1000	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	95-47-6	o-Xylene	< 1.7	ug/m3	1.7	U	100	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	100-42-5	Styrene	< 1.7	ug/m3	1.7	U	940	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	127-18-4	Tetrachloroethene	< 2.7	ug/m3	2.7	U	0.46	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	109-99-9	Tetrahydrofuran	< 2.4	ug/m3	2.4	U	2000	EPA IRIS
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	108-88-3	Toluene	< 1.5	ug/m3	1.5	U	310	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	156-60-5	trans-1,2-Dichloroethene	< 1.6	ug/m3	1.6	U	83	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	10061-02-6	trans-1,3-Dichloropropene	< 1.8	ug/m3	1.8	U	-----	-----
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	79-01-6	Trichloroethene	< 2.1	ug/m3	2.1	U	0.48	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-69-4	Trichlorofluoromethane	< 2.2	ug/m3	2.2	U	1300	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	108-05-4	Vinyl acetate	< 2.8	ug/m3	2.8	U	210	US EPA RSL
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	75-01-4	Vinyl chloride	< 1.0	ug/m3	1.0	U	0.0095	DTSC HHRA Note 3
DOE-4	DOE-4_070318_S-07032018	N	7/3/2018	TO15	1330-20-7	Xylenes (Total)	< 5.2	ug/m3	5.2	U	100	US EPA RSL

Legend

N = Normal (Parent) Sample

FD = Field Duplicate Sample

U = Non-Detect

* = LCS or LCSD is outside acceptance limits

----- = Screening Level Not Available

= Detection above the Reporting Limit, but below the EPA or DTSC Screening Level

BOLD = Detection above the Reporting Limit, and also exceeds the EPA or DTSC Screening Level

Footnotes:

1 - RSL based on surrogate 1,1,1,2-Tetrafluoroethane (1,2-Dichlorotetrafluoroethane);
1,2-Dichlorobenzene (1,3-Dichlorobenzene); TPH, aromatic medium (4-Ethyltoluene);
and TPH, aliphatic medium (n-Octane)

APPENDIX C

PM₁₀ Monthly Audit Reports

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Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Calibration

Station # DOE-1

Serial # W23314

Audit Date: 5/18/2018

Audited By: T.S. Williford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 12/19/2017

Leak Check Value: as found: 0.4 as left: 0.4

	E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found: <u>16.4</u> C	<u>16.5</u> C	as left:	<u>16.4</u> C	<u>16.5</u> C
Barometric Pressure:	as found: <u>713.6</u> mmHg	<u>711.5</u> mmHg	as left:	<u>713.6</u> mmHg	<u>711.5</u> mmHg
16.7 lpm Flow Rate (Actual)	as found: <u>16.7</u> lpm	<u>16.98</u> lpm	as left:	<u>16.7</u> lpm	<u>16.98</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Expected Span Mass (mg/cm2): 0.914
 Measured Span Mass (mg/cm2): 0.935
 Difference (mg/cm2): 0.21
 % Difference / Pass or Fail: 2.2% Pass

Pump Test

Flow Rate	Vacuum Value	Quality Category
14.0 - 15.0	<u>413.4</u>	<u>Marginal</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1027</u>	<u>1027</u>	Analog Mode	<u>Hourly</u>	<u>Hourly</u>	Flow Type	<u>Actual</u>	<u>Actual</u>
Location	<u>01</u>	<u>01</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5</u>	<u>12.5</u>
Tape Advance	<u>24hr</u>	<u>24hr</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25°C</u>	<u>25°C</u>
Realtime Avg	<u>60min</u>	<u>60min</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM10</u>	<u>PM10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>1.0</u>	<u>1.0</u>	Flow Setpoint	<u>16.7</u>	<u>16.7</u>			

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
<u>1 NONE</u>			<u>4</u>		
<u>2</u>			<u>5</u>		
<u>3</u>			<u>6</u>		

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Calibration

Station # DOE-2

Serial # W23310

Audit Date: 5/17/2018

Audited By: T. Stewart Williford

Flow Audit					
Flow Audit Device Model:	BGI Delta Cal DC-1A	Serial No:	158047	Calibration Date:	12/19/2017
Leak Check Value:	as found:	<u>0.6</u>	as left:	<u>0.6</u>	
Ambient Temperature:	as found:	<u>22.3</u> C	as left:	<u>20.2</u> C	
Barometric Pressure:	as found:	<u>710.8</u> mmHg	as left:	<u>709.0</u> mmHg	
16.7 lpm Flow Rate (Actual)	as found:	<u>16.7</u> lpm	as left:	<u>16.7</u> lpm	

Mechanical Audits (Y = Yes N = No)					
Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>	

Manual Span Membrane Test		Pump Test	
Expected Span Mass (mg/cm2) :	<u>0.921</u>	Flow Rate	Vacuum Value
Measured Span Mass (mg/cm2) :	<u>0.936</u>	14.0 - 15.0	Quality Category
Difference (mg/cm2) :	<u>0.015</u>		Good / Marginal / Poor
% Difference / Pass or Fail:	<u>1.6% Pass</u>	<u>14.9</u>	<u>407.3</u>
			<u>Good to Marginal</u>

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1246</u>	<u>1246</u>	Analog Mode	<u>Hourly</u>	<u>Hourly</u>	Flow Type	<u>Actual</u>	<u>Actual</u>
Location	<u>02</u>	<u>02</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5V</u>	<u>12.5V</u>
Tape Advance	<u>24</u>	<u>24</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25°C</u>	<u>25°C</u>
Realtime Avg	<u>60</u>	<u>60</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM10</u>	<u>PM10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>1.0</u>	<u>1.0</u>	Flow Setpoint	<u>16.7</u>	<u>16.7</u>			

Last 6 Errors in E-BAM Error Log						
Error	Date	Time	Error	Date	Time	
1 Filter Press failure 225.0	5/17/18	1153	4			
2 Inlet Press failure 224.5	5/17/18	1153	5			
3			6			

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Calibration

Station # DOE-3

Serial # W23313

Audit Date: 5/22/2018

Audited By: T. S. Williford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 12/19/2017

Leak Check Value: as found: 0.6 as left: 0.6

	E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found: <u>14.8</u> C	<u>14.4</u> C	as left:	<u>14.8</u> C	<u>14.4</u> C
Barometric Pressure:	as found: <u>711.6</u> mmHg	<u>709.5</u> mmHg	as left:	<u>711.6</u> mmHg	<u>709.5</u> mmHg
16.7 lpm Flow Rate (Actual)	as found: <u>16.7</u> lpm	<u>16.97</u> lpm	as left:	<u>16.7</u> lpm	<u>16.97</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Expected Span Mass (mg/cm2): 0.896
Measured Span Mass (mg/cm2): 0.894
Difference (mg/cm2): 0.002
% Difference / Pass or Fail: 0.22% Pass

Pump Test

Flow Rate: 14.0 - 15.0
Vacuum Value: 399.1
Quality Category: Good to Marginal

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>0910</u>	<u>0910</u>	Analog Mode	<u>hourly</u>	<u>hourly</u>	Flow Type	<u>Actual</u>	<u>Actual</u>
Location	<u>03</u>	<u>03</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5V</u>	<u>12.5V</u>
Tape Advance	<u>24hr</u>	<u>24hr</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25°C</u>	<u>25°C</u>
Realtime Avg	<u>60 min</u>	<u>60 min</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM10</u>	<u>PM10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>1.0 v</u>	<u>1.0 v</u>	Flow Setpoint	<u>16.7</u>	<u>16.7</u>			

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
1 <u>NONE</u>			4		
2			5		
3			6		

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Calibration

Station # DOE-4

Serial # W23316

Audit Date: 5/22/2018

Audited By: T.S. Williford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 12/19/2017

Leak Check Value: as found: 0.4 as left: 0.4

	E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found: <u>14.5</u> °C	<u>14.2</u> °C	as left:	<u>14.5</u> °C	<u>14.2</u> °C
Barometric Pressure:	as found: <u>703.5</u> mmHg	<u>701.5</u> mmHg	as left:	<u>703.5</u> mmHg	<u>701.5</u> mmHg
16.7 lpm Flow Rate (Actual)	as found: <u>16.7</u> lpm	<u>16.76</u> lpm	as left:	<u>16.7</u> lpm	<u>16.76</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Expected Span Mass (mg/cm2): 0.884
 Measured Span Mass (mg/cm2): 0.889
 Difference (mg/cm2): 0.005
 % Difference / Pass or Fail: 0.5% PASS

Pump Test

Flow Rate	Vacuum Value	Quality Category
<u>14.0 - 15.0</u>	<u>417.8</u>	<u>Marginal</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1002</u>	<u>1002</u>	Analog Mode	<u>hourly</u>	<u>hourly</u>	Flow Type	<u>Actual</u>	<u>Actual</u>
Location	<u>04</u>	<u>04</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5V</u>	<u>12.5V</u>
Tape Advance	<u>24 hr</u>	<u>24 hr</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25°C</u>	<u>25°C</u>
Realtime Avg	<u>60 min</u>	<u>60 min</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM10</u>	<u>PM10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>1.0</u>	<u>1.0</u>	Flow Setpoint	<u>16.7</u>	<u>16.7</u>			

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
<u>1 Flow Fail - Flow 3.2 lpm</u>	<u>5/18/18</u>	<u>0521</u>	<u>4</u>		
<u>2 Beta Count failed</u>	<u>4/23/18</u>	<u>0451</u>	<u>5</u>		
<u>3</u>			<u>6</u>		

Audit Notes:



Baseline Air Monitoring Program - DOE
E-BAM Monthly Audit and Maintenance

Station # DOE-1

Serial # W23314

Audit Date: 6/19/2018

Audited By: TS Williford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 12/19/2017

Leak Check Value: as found: 0.4 as left: 0.4

	E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found: <u>20.9</u> °C	<u>21.2</u> °C	as left:	<u>21.6</u> °C	<u>22.0</u> °C
Barometric Pressure:	as found: <u>714.0</u> mmHg	<u>712.0</u> mmHg	as left:	<u>714.0</u> mmHg	<u>712.0</u> mmHg
16.7 lpm Flow Rate (Actual)	as found: <u>16.7</u> lpm	<u>16.9</u> lpm	as left:	<u>16.7</u> lpm	<u>16.9</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test		Pump Test		
Expected Span Mass (mg/cm2):	<u>0.914</u>	Flow Rate	Vacuum Value	Quality Category
Measured Span Mass (mg/cm2):	<u>0.924</u>	14.0 - 15.0		
Difference (mg/cm2):	<u>0.010</u>	<u>14.8</u>	<u>409.3</u>	<u>Marginal</u>
% Difference / Pass or Fail:	<u>1.0% Passed</u>			

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1312</u>	<u>1312</u>	Analog Mode	<u>hourly</u>	<u>hourly</u>	Flow Type	<u>actual</u>	<u>actual</u>
Location	<u>1</u>	<u>1</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5</u>	<u>12.5</u>
Tape Advance	<u>24 hrs</u>	<u>24 hrs</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25°C</u>	<u>25°C</u>
Realtime Avg	<u>60 min</u>	<u>60 min</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM-10</u>	<u>PM-10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>1.0</u>	<u>1.0</u>	Flow Setpoint	<u>16.7</u>	<u>16.7</u>			

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
1 <u>Sensor Failure</u>	<u>6/19/18</u>	<u>1354</u>	4		
2			5		
3			6		

Audit Notes: 1035 Hardware Failure, Sensor failure, filter pressure
826.1



Baseline Air Monitoring Program - DOE
E-BAM Monthly Audit and Maintenance

Station # DOE-2

Serial # W23310

Audit Date: 6/19/2018

Audited By: TSwilliford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 12/19/2017

Leak Check Value: as found: 0.5 as left: 0.5

	E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found: <u>24.5</u> °C	<u>25.3</u> °C	as left:	<u>25.2</u> °C	<u>24.9</u> °C
Barometric Pressure:	as found: <u>709.4</u> mmHg	<u>709.5</u> mmHg	as left:	<u>709.4</u> mmHg	<u>709.5</u> mmHg
16.7 lpm Flow Rate (Actual)	as found: <u>16.7</u> lpm	<u>16.89</u> lpm	as left:	<u>16.7</u> lpm	<u>16.89</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Expected Span Mass (mg/cm2): 0.921

Measured Span Mass (mg/cm2): 0.938

Difference (mg/cm2): 0.017

% Difference / Pass or Fail: 1.8% Pass

Pump Test

Flow Rate	Vacuum Value	Quality Category
14.0 - 15.0		Good / Marginal / Poor
<u>14.8</u>	<u>402.1</u>	<u>Good</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1423</u>	<u>1423</u>	Analog Mode	<u>hourly</u>	<u>hourly</u>	Flow Type	<u>actual</u>	<u>actual</u>
Location	<u>2</u>	<u>2</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5</u>	<u>12.5</u>
Tape Advance	<u>24hr</u>	<u>24hr</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25°C</u>	<u>25°C</u>
Realtime Avg	<u>60min</u>	<u>60min</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM-10</u>	<u>PM-10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>8.0v</u>	<u>8.0v</u>	Flow Setpoint	<u>16.7</u>	<u>16.7</u>			

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
1 <u>None</u>			4		
2			5		
3			6		

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-3

Serial # W23313

Audit Date: 6/20/2018

Audited By: TBW

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 12/19/2017

Leak Check Value: as found: 0.5 as left: 0.5

		E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found:	<u>25.6</u> °C	<u>24.8</u> °C	as left:	<u>25.6</u> °C	<u>24.8</u> °C
Barometric Pressure:	as found:	<u>712</u> mmHg	<u>711.5</u> mmHg	as left:	<u>712.0</u> mmHg	<u>711.5</u> mmHg
16.7 lpm Flow Rate (Actual)	as found:	<u>16.7</u> lpm	<u>16.89</u> lpm	as left:	<u>16.7</u> lpm	<u>16.89</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Pump Test

Expected Span Mass (mg/cm2): <u>0.896</u>	Flow Rate	Vacuum Value	Quality Category
Measured Span Mass (mg/cm2): <u>0.893</u>	14.0 - 15.0		Good / Marginal / Poor
Difference (mg/cm2): <u>0.003</u>	<u>14.8</u>	<u>418.3</u>	<u>Marginal</u>
% Difference / Pass or Fail: <u>0.3% Pass</u>			

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1015</u>	<u>1015</u>	Analog Mode	<u>hourly</u>	<u>hourly</u>	Flow Type	<u>Act</u>	<u>Act</u>
Location	<u>3</u>	<u>3</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5</u>	<u>12.5</u>
Tape Advance	<u>24hrs</u>	<u>24hrs</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25.2</u>	<u>25.2</u>
Realtime Avg	<u>60 min</u>	<u>60 min</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM10</u>	<u>PM10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>1.0V</u>	<u>1.0V</u>	Flow Setpoint	<u>16.7</u>	<u>16.7</u>			

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
1 <u>NONE</u>			4		
2			5		
3			6		

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-4

Serial # W23316

Audit Date: 6/22/2018

Audited By: T.S. Williford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 12/19/2017

Leak Check Value: as found: 0.4 LPM as left: 0.4 LPM

		E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found:	<u>22.9</u> °C	<u>21.8</u> °C	as left:	<u>22.9</u> °C	<u>21.8</u> °C
Barometric Pressure:	as found:	<u>703.8</u> mmHg	<u>702.0</u> mmHg	as left:	<u>703.8</u> mmHg	<u>702.0</u> mmHg
16.7 lpm Flow Rate (Actual)	as found:	<u>16.7</u> lpm	<u>16.79</u> lpm	as left:	<u>16.7</u> lpm	<u>16.79</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Pump Test

Expected Span Mass (mg/cm2) <u>0.884</u>	Flow Rate	Vacuum Value	Quality Category
Measured Span Mass (mg/cm2) : <u>0.888</u>	14.0 - 15.0		Good / Marginal / Poor
Difference (mg/cm2) : <u>0.004</u>	<u>14.5</u>	<u>443.3</u>	<u>Good to Marginal</u>
% Difference / Pass or Fail: <u>0.4% Pass</u>			

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>0932</u>	<u>0932</u>	Analog Mode	<u>hourly</u>	<u>hourly</u>	Flow Type	<u>Actual</u>	<u>Actual</u>
Location	<u>4</u>	<u>4</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5V</u>	<u>12.5V</u>
Tape Advance	<u>24hrs</u>	<u>24hr</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25°C</u>	<u>25°C</u>
Realtime Avg	<u>60min</u>	<u>60min</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM-10</u>	<u>PM-10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>1.0V</u>	<u>1.0V</u>	Flow Setpoint	<u>16.7 LPM</u>	<u>16.7 LPM</u>			

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
1 <u>18 Flow Fail 3.2 LPM 5/18 TSW</u>			4		
2 <u>TSW</u>			5		
3 <u>None</u>			6		

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-1

Serial #

X16067

Audit Date: 6/22/2018

Audited By:

TJW

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 12/19/2017

Leak Check Value: as found: 0.5 LPM as left: 0.5 LPM

		E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found:	<u>27.1</u> °C	<u>26.8</u> °C	as left:	<u>27.1</u> °C	<u>26.8</u> °C
Barometric Pressure:	as found:	<u>711.5</u> mmHg	<u>710.5</u> mmHg	as left:	<u>711.5</u> mmHg	<u>710.5</u> mmHg
16.7 lpm Flow Rate (Actual)	as found:	<u>16.7</u> lpm	<u>16.98</u> lpm	as left:	<u>16.7</u> lpm	<u>16.98</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Expected Span Mass (mg/cm2): 0.906

Measured Span Mass (mg/cm2): 0.900

Difference (mg/cm2): 0.006

% Difference / Pass or Fail: Pass

Pump Test

Flow Rate

14.0 - 15.0

Vacuum Value

416.3

Quality Category

Good / Marginal / Poor

Good to Marginal

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1354</u>	<u>1354</u>	Analog Mode	<u>hourly</u>	<u>hourly</u>	Flow Type	<u>Actual</u>	<u>Actual</u>
Location	<u>1</u>	<u>1</u>	Baud Rate	<u>9600</u>	<u>9600</u>	Restart Voltage	<u>12.5</u>	<u>12.5</u>
Tape Advance	<u>24 hr</u>	<u>24 hr</u>	RH Setpoint	<u>45%</u>	<u>45%</u>	Std Cond Temp	<u>25°C</u>	<u>25°C</u>
Realtime Avg	<u>60 min</u>	<u>60 min</u>	Delta T Setpoint	<u>15°C</u>	<u>15°C</u>			
Machine Type	<u>PM-10</u>	<u>PM-10</u>	RH Control	<u>ON</u>	<u>ON</u>			
Analog FS	<u>1.0</u>	<u>1.0</u>	Flow Setpoint	<u>16.7</u>	<u>16.7</u>			

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
1 <u>None</u>			4		
2			5		
3			6		

Audit Notes: