

Memorandum

То:	Josephine Newton-Lund, PMP, Senior Project Manager, Environmental Branch, U.S. Army Corps of Engineers Shannon Smith, PE, Program Manager, Veterans Health Administration
From:	Nathan Smith, PMP, Senior Project Manager, CDM Federal Programs Corporation Neil Smith, PE, Project Technical Leader, CDM Federal Programs Corporation
Date:	March 9, 2022
Subject:	Modification #6 to the Phase 2 Remedial Investigation Work Plan, Final Quality Assurance Project Plan Revision 1 700 South 1600 East Tetrachloroethene Plume Superfund Site, Salt Lake City, Utah

On behalf of the U.S. Army Corps of Engineers (USACE), CDM Federal Programs Corporation (CDM Smith) prepared this minor field modification (MFM) #6 to the Final Quality Assurance Project Plan Revision 1 (QAPP). The QAPP is an appendix to the Operable Unit 1 Remedial Investigation Work Plan (RIWP) (CDM Smith 2020) for the 700 South 1600 East Tetrachloroethene (PCE) Plume Superfund Site located near the George E. Wahlen Veterans Affairs Medical Center (VAMC) in Salt Lake City, Utah. This MFM #6 to the QAPP proposes the addition of Pace Analytical Services Laboratory (Pace) for analysis of vapor samples, and notes the anticipated use of batch-certified Summa canisters during vapor intrusion sampling.

1.0 Scope of Work

Due to limited canister availability from Eurofins Air Toxics, LLC (Eurofins), and to avoid rescheduling of previously-scheduled residences for the winter 2022 vapor intrusion sampling event, Pace has been identified as a laboratory capable of providing supplemental Summa canisters in the required timeframe, and sample analysis using the TO-15 and TO-15 SIM methods as indicated in the project QAPP. The following QAPP sections are modified:

2.1.10 Laboratory Project Managers

Ms. Daphne Richards of Pace will be the laboratory project manager and primary point of contact, and will oversee laboratory performance.

The attached table, **Table 2-7(a) Project Laboratory (Pace Analytical) – Target Analytes and Reporting Limits – Volatile Organic Compounds in Air,** includes the Pace reporting and March 9, 2022 Page 2

detection limits. Limits provided by Pace are not expected to impact the ability to make project decisions, or impact completion of the risk assessment. Data quality is not expected to be impacted, as the analytical methods (TO-15 and TO-15SIM) are not being changed, and the reporting and detection limits are adequate compared to project screening levels.

3.3.2 Packaging and Shipping

Due to the urgent timeframe for receipt of canisters, individually-certified Summa canisters were unable to be provided by Pace. Instead, batch-certified canisters will be used.

Following a rigorous cleaning process, Summa canisters are either individually certified using TO-15 SIM analysis, or batch certified using TO-15 SIM analysis. Batch certification involves testing ten percent of the containers, preferentially selecting the containers that previously had the highest concentrations of contaminants. Therefore, it is assumed that if post-cleaning analysis of the previously highest concentration containers indicates residual concentrations are below detection limits, then the remainder of the batch also would have similar results.

The primary potential issue with using a batch-certified container could be if a sample collected for the project has anomalous or unexpected detections of chemicals that are not site-related, these compounds would need to be carried through the risk assessment for evaluation. Additionally, if there are detections of site contaminants of concern or contaminants of potential concern that are close to an action level, more sampling may be needed to verify that result. Based on the cleaning and certification methods, there is a low probability of either of these issues occurring; therefore data quality is not expected to be affected.

Following sample analysis, the results from locations where batch-certified canisters were used will be carefully examined for potential residual contamination effects.

2.0 References

CDM Smith. 2020. *FINAL Phase 2 Remedial Investigation Work Plan, Operable Unit 1, 700 South 1600 East PCE Plume, Salt Lake City, Utah*. Prepared for U.S. Army Corps of Engineers.

Tables

Table 2-7(a)Project Laboratory (Pace Analytical), Target Analytes and Reporting Limits, Volatile
Organic Compounds in Air

Table 2-7(a). Project Laboratory (Pace Analytical) – Target Analytes and Reporting Limits – Volatile Organic Compounds in Air

CAS Screening (ug/m ³) ^a Laboratory (ug/m ³) ^a NUMber (ug/m ³) ^a NUMber (ug				Lowest			
Analyte Number Air Method Level ^a (µg/m ³) (µg/m ³) (µg/m ³) Laboratory Analytical Parameters (SUMMA) 1,1,1-Trichloroethane 71-55-6 TO-15 SIM EPA RSL 5,200 0.109 0.035 1,1,2-Tertachloroethane 79-40-5 TO-15 SIM EPA RSL 0.48 ^b 0.137 0.060 1,1,2-Trichloroethane 79-44-5 TO-15 SIM EPA RSL 0.18 0.163 0.032 1,1-Dichloroethane 75-34-3 TO-15 SIM EPA RSL 1.8 0.080 0.037 1,1-Dichloroethane 75-37-6 TO-15 EPA RSL 42,000 2.701 0.348 1,2,4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 42,000 2.701 0.348 1,2,4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 6.3 0.982 0.375 1,2-Dichlorobenzene 106-93-4 TO-15 EPA RSL 0.0017 ^b 0.948 0.124 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.11 ^b					Screening	Laboratory	Laboratory
Laboratory Analytical Parameters (SUMMA) 1,1,1-Trichioroethane 71-55-6 TO-15 SIM EPA RSL 5,200 0.109 0.035 1,1,2-2-Tetrachloroethane 79-34-5 TO-15 SIM EPA RSL 0.448 ^b 0.137 0.060 1,1,2-Trichloroethane 79-00-5 TO-15 SIM EPA RSL 0.18 0.163 0.032 1,1,2-Trichloroethane 76-13-1 TO-15 SIM EPA RSL 1.8 0.163 0.037 1,1-Dichloroethane 75-34-3 TO-15 SIM EPA RSL 1.0 0.079 0.037 1,1-Dichloroethane 75-37-6 TO-15 SIM EPA RSL 42,000 2.701 0.348 1,2,4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 63 0.982 0.375 1,2-Loichlorobenzene 95-63-6 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2-Dibromoethane 106-93-4 TO-15 EPA RSL 0.0047 ^b 0.154 0.060 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.047 ^b <th></th> <th>CAS</th> <th></th> <th>Screening</th> <th>Level Value</th> <th>RL</th> <th>MDL</th>		CAS		Screening	Level Value	RL	MDL
1,1,1-Trichloroethane 71-55-6 TO-15 SIM EPA RSL 5,200 0.109 0.035 1,1,2-Trichloroethane 79-34-5 TO-15 SIM EPA RSL 0.48 0.137 0.060 1,1,2-Trichloroethane 79-00-5 TO-15 SIM EPA RSL 0.18 0.163 0.032 1,1,2-Trichloroethane 75-34-3 TO-15 SIM EPA RSL 5,200 1.533 0.608 1,1-Dichloroethane 75-34-4 TO-15 SIM EPA RSL 1.8 0.080 0.035 1,1-DicHUOROETHANE 75-37-6 TO-15 EPA RSL 21.0 0.079 0.348 1,2,1-Trichlorobenzene 120-82-1 TO-15 EPA RSL 42,000 2.701 0.348 1,2-11FRUMOETHANE 75-37-6 TO-15 EPA RSL 2.10 0.0982 0.375 1,2-417rinkorbenzene 120-82-1 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.017 ^b 0.154 0.060 1,2-Dichl	Analyte	Number	Air Method	Level ^a	(µg/m³)ª	(ug/m³)	(ug/m³)
1,1,2,2-Tetrachloroethane 79-34-5 TO-15 SIM EPA RSL .048 ^b 0.137 0.060 1,1,2-Trichloroethane 79-00-5 TO-15 SIM EPA RSL 0.18 0.163 0.032 1,1,2-Trichloroethane 76-13-1 TO-15 EPA RSL 5,200 1.533 0.608 1,1-Dichloroethane 75-34-3 TO-15 EPA RSL 210 0.079 0.037 1,1-Dichloroethane 75-37-6 TO-15 EPA RSL 210 0.079 0.037 1,2-ATrichlorobenzene 120-82-1 TO-15 EPA RSL 63 0.983 0.396 1,2-4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 63 0.982 0.375 1,2-DiBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2-Dichloroebnzene 95-50-1 TO-15 EPA RSL 0.0017 ^b 0.54 0.060 1,2-Dichloroptane 76-87-5 TO-15 EPA RSL 0.101 ^b 0.828 0.3282 1,2-Dichlor	Laboratory Analytical Parameters (So	UMMA)					
1,1,2-Trichloroethane 79-00-5 TO-15 EPA RSL 0.18 0.163 0.032 1,1,2-Trichloroethane 76-13-1 TO-15 EPA RSL 5,200 1,533 0.608 1,1-Dichloroethane 75-34-3 TO-15 EPA RSL 1.8 0.030 0.037 1,1-Dichloroethene 75-37-6 TO-15 EPA RSL 210 0.079 0.037 1,1-Dichloroethene 75-37-6 TO-15 EPA RSL 210 0.079 0.348 1,2,4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 63 0.982 0.375 1,2,4-Trichlorobenzene 95-63-6 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2,2-DIBROMO-3-CHICOROPROPANE 96-12-8 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.101 ^b 0.810 0.283 1,2-Dichlorobernane 107-06-2 TO-15 EPA RSL 0.104 0.202 0.770 1,2-Dichlorobernane<	1,1,1-Trichloroethane	71-55-6	TO-15 SIM	EPA RSL	5,200	0.109	0.035
1,1,2-Trichlorotrifluoroethane 76-13-1 TO-15 EPA RSL 5,200 1.533 0.608 1,1-Dichloroethane 75-34-3 TO-15 SIM EPA RSL 1.8 0.080 0.036 1,1-DicLOROETHANE 75-35-4 TO-15 SIM EPA RSL 210 0.079 0.037 1,1-DIFLUOROETHANE 75-37-6 TO-15 EPA RSL 42,000 2.701 0.348 1,2,3-TRIMETHYLBENZENE 526-73-8 TO-15 EPA RSL 6.3 0.983 0.396 1,2,4-Trimethyl benzene 95-63-6 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2-DibRomoethane 106-93-4 TO-15 EPA RSL 0.00017 ^b 0.154 0.060 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.104 0.202 0.770 1,2-Dichloroptaral 107-06-2 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichloroptaral 78-87-5 TO-15 EPA RSL 0.162 1,2-Dichloroptetrafluoroethane 16-49-7 TO-15 </td <td>1,1,2,2-Tetrachloroethane</td> <td>79-34-5</td> <td>TO-15 SIM</td> <td>EPA RSL</td> <td>.048^b</td> <td>0.137</td> <td>0.060</td>	1,1,2,2-Tetrachloroethane	79-34-5	TO-15 SIM	EPA RSL	.048 ^b	0.137	0.060
1,1-Dichloroethane 75-34-3 TO-15 SIM EPA RSL 1.8 0.080 0.036 1,1-Dichloroethane 75-35-4 TO-15 SIM EPA RSL 210 0.079 0.037 1,1-DIFLUOROETHANE 75-37-6 TO-15 EPA RSL 42,000 2.701 0.348 1,2,3-TRIMETHYLBENZENE 526-73-8 TO-15 EPA RSL 6.3 0.982 0.375 1,2,4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2-DiBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2-Diblorobenzene 95-50-1 TO-15 EPA RSL 0.0007 ^b 1.933 0.645 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.010 ^b 0.130 0.221 1,2-Dichlorobenzene 78-87-5 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichlorobenzene 76-14-2 TO-15 EPA RSL 6.3 0.982 0.382 1,3-Dichlor	1,1,2-Trichloroethane	79-00-5	TO-15 SIM	EPA RSL	0.18	0.163	0.032
1,1-Dichloroethene 75-35-4 TO-15 SIM EPA RSL 210 0.079 0.037 1,1-DIFLUOROETHANE 75-37-6 TO-15 EPA RSL 42,000 2.701 0.348 1,2,3-TRIMETHYLBENZENE 526-73-8 TO-15 EPA RSL 2.1 ^b 4.664 1.096 1,2,4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 2.1 ^b 4.664 1.096 1,2,4-Trimethyl benzene 95-63-6 TO-15 EPA RSL 0.0017 ^b 1.933 0.645 1,2-DIBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.0047 ^b 0.154 0.060 1,2-Dibromoethane 106-93-4 TO-15 EPA RSL 0.017 ^b 0.134 0.062 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichloroptrapane 78-87-5 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichloroethrafluoroethane 76-14-2 TO-15 EPA RSL 0.14 ^b 0.810 0.282	1,1,2-Trichlorotrifluoroethane	76-13-1	TO-15	EPA RSL	5,200	1.533	0.608
1.1-DIFLUOROETHANE 75-37-6 TO-15 EPA RSL 42,000 2.701 0.348 1.2,3-TRIMETHYLBENZENE 526-73-8 TO-15 EPA RSL 63 0.983 0.396 1.2,4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 63 0.982 0.375 1.2,4-Trimethyl benzene 95-63-6 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1.2,2-DIBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1.2-Dibromoethane 106-93-4 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1.2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1.2-Dichlorobenzene 107-06-2 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1.2-Dichlorobenzene 76-14-2 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1.3-5-Trimethyl benzene 106-69-0 TO-15 EPA RSL NA 1.202 1.094 1.4	1,1-Dichloroethane	75-34-3	TO-15 SIM	EPA RSL	1.8	0.080	0.036
1,2,3-TRIMETHYLBENZENE 526-73-8 TO-15 EPA RSL 63 0.983 0.396 1,2,4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 2.1 ^b 4.664 1.096 1,2,4-Trimethyl benzene 95-63-6 TO-15 EPA RSL 0.0017 ^b 1.933 0.645 1,2-DiBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.00017 ^b 0.154 0.060 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichlorobenzene 107-06-2 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichloroptropane 78-87-5 TO-15 EPA RSL 0.76 0.139 0.041 1,2-Dichloroptropane 78-87-5 TO-15 EPA RSL 0.76 0.139 0.041 1,2-Dichloroptropane 78-87-5 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,3-bitchlorobenzene 108-67-8 TO-15 EPA RSL NA 1.202 1.094 1,4-Dich	1,1-Dichloroethene	75-35-4	TO-15 SIM	EPA RSL	210	0.079	0.037
1.2.4-Trichlorobenzene 120-82-1 TO-15 EPA RSL 2.1 ^b 4.664 1.096 1.2.4-Trimethyl benzene 95-63-6 TO-15 EPA RSL 63 0.982 0.375 1.2-DIBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1.2-DiBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.0047 ^b 0.154 0.060 1.2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.1047 ^b 0.154 0.060 1.2-Dichloroptopane 78-87-5 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1.2-Dichloroptopane 78-87-5 TO-15 EPA RSL 0.76 0.139 0.041 1.2-Dichloropterpane 78-87-5 TO-15 EPA RSL 0.3 0.982 0.382 1.2-Dichlorobetrafluoroethane 76-14-2 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1.3-Dichlorobenzene 106-67-8 TO-15 EPA RSL NA 1.202 1.094 <	1,1-DIFLUOROETHANE	75-37-6	TO-15	EPA RSL	42,000	2.701	0.348
1,2,4-Trimethyl benzene 95-63-6 TO-15 EPA RSL 63 0.982 0.375 1,2-DIBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1,2-Dibromoethane 106-93-4 TO-15 EPA RSL 0.0047 ^b 0.154 0.060 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichlorotetnane 107-06-2 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichlorotetrafluorethane 76-14-2 TO-15 EPA RSL 0.76 0.139 0.041 1,2-Dichlorotetrafluorethane 76-14-2 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,3-5-Trimethyl benzene 106-99-0 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,3-bichlorobenzene 541-73-1 TO-15 EPA RSL 0.26 0.120 0.042 1,4-bichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1,4-bichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.	1,2,3-TRIMETHYLBENZENE	526-73-8	TO-15	EPA RSL			0.396
1.2-DIBROMO-3-CHLOROPROPANE 96-12-8 TO-15 EPA RSL 0.00017 ^b 1.933 0.645 1.2-Dibromoethane 106-93-4 TO-15 SIM EPA RSL 0.0047 ^b 0.154 0.060 1.2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 210 1.202 0.770 1.2-Dichlorobenzene 107-06-2 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1.2-Dichlorobenzene 78-87-5 TO-15 EPA RSL 0.76 0.139 0.041 1.2-Dichlorotetrafluoroethane 76-14-2 TO-15 EPA RSL NA 1.399 0.622 1.3-5-Trimethyl benzene 108-67-8 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1.3-butadiene 106-99-0 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1.4-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1.4-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.425 0.230 1.4-Dichlorobenzene	1,2,4-Trichlorobenzene	120-82-1	TO-15	EPA RSL	2.1 ^b	4.664	1.096
1,2-Dibromoethane 106-93-4 TO-15 SIM EPA RSL 0.0047 ^b 0.154 0.060 1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 210 1.202 0.770 1,2-Dichlorobenzene 107-06-2 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichloroptropane 78-87-5 TO-15 EPA RSL 0.76 0.139 0.041 1,2-Dichlorotetrafluoroethane 76-14-2 TO-15 EPA RSL NA 1.399 0.622 1,3-5-Trimethyl benzene 108-67-8 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,3-Dichlorobenzene 106-99-0 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,3-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1,4-Dickorane 123-91-1 TO-15 EPA RSL 0.26 0.120 0.042 2,-4-Trimethylpentane 540-84-1 TO-15 EPA RSL 0.300 2.2,4-Trimethylpentane 52003 3.686 <t< td=""><td>1,2,4-Trimethyl benzene</td><td>95-63-6</td><td>TO-15</td><td>EPA RSL</td><td>63</td><td>0.982</td><td>0.375</td></t<>	1,2,4-Trimethyl benzene	95-63-6	TO-15	EPA RSL	63	0.982	0.375
1,2-Dichlorobenzene 95-50-1 TO-15 EPA RSL 210 1.202 0.770 1,2-Dichloroethane 107-06-2 TO-15 EPA RSL 0.11 ^b 0.810 0.283 1,2-Dichloroptopane 78-87-5 TO-15 EPA RSL 0.76 0.139 0.041 1,2-Dichlorotetrafluoroethane 76-14-2 TO-15 EPA RSL NA 1.399 0.622 1,3-5-Trimethyl benzene 108-67-8 TO-15 EPA RSL 63 0.982 0.382 1,3-butadiene 106-99-0 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,3-butadiene 106-64-7 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,4-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1,4-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1,4-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1,4-Dichlorobenzene 10	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	TO-15	EPA RSL	0.00017 ^b	1.933	0.645
1,2-Dichloroethane107-06-2TO-15EPA RSL0.11b0.8100.2831,2-Dichloropropane78-87-5TO-15 SIMEPA RSL0.760.1390.0411,2-Dichlorotetrafluoroethane76-14-2TO-15EPA RSLNA1.3990.6221,3,5-Trimethyl benzene108-67-8TO-15EPA RSL630.9820.3821,3-butadiene106-99-0TO-15EPA RSL0.094b4.4250.2301,3-Dichlorobenzene541-73-1TO-15EPA RSLNA1.2021.0941,4-Dichlorobenzene106-46-7TO-15EPA RSL0.260.1200.0421,4-Dichlorobenzene106-46-7TO-15EPA RSL0.260.1200.0421,4-Dichlorobenzene106-46-7TO-15EPA RSL0.260.1200.0421,4-Dichlorobenzene106-46-7TO-15EPA RSL0.2660.1200.0421,4-Dichlorobenzene106-46-7TO-15EPA RSL0.2660.1200.0421,4-Dichlorobenzene106-46-7TO-15EPA RSL0.2660.2402,2,4-Trimethylpentane540-84+1TO-15EPA RSL5,2003.6860.2402-bropanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSL3.1005.1180.313Acetone67-64-1TO-15EPA RS	1,2-Dibromoethane	106-93-4	TO-15 SIM	EPA RSL	0.0047 ^b	0.154	0.060
1,2-Dichloropropane78-87-5TO-15 SIMEPA RSL0.760.1390.0411,2-Dichlorotetrafluoroethane76-14-2TO-15EPA RSLNA1.3990.6221,3,5-Trimethyl benzene108-67-8TO-15EPA RSL630.9820.3821,3-butadiene106-99-0TO-15EPA RSL0.0944.4250.2301,3-Dichlorobenzene541-73-1TO-15EPA RSLNA1.2021.0941,4-Dichlorobenzene106-46-7TO-15EPA RSL0.260.1200.0421,4-Dichlorobenzene106-46-7TO-15EPA RSL0.260.1200.0421,4-Dioxane123-91-1TO-15EPA RSL0.56 ^c 0.7210.3002,2,4-Trimethylpentane540-84-1TO-15EPA RSLNA0.9340.6212-Butanone78-93-3TO-15EPA RSLNA0.9340.6212-Iborotoluene95-49-8TO-15EPA RSL-1.0310.4272-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL0.021 ^b 2.2930.720ACRVLONITRILE107-02-8TO-15EPA RSL0.041 ^b 10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.36 </td <td>1,2-Dichlorobenzene</td> <td>95-50-1</td> <td>TO-15</td> <td>EPA RSL</td> <td>210</td> <td>1.202</td> <td>0.770</td>	1,2-Dichlorobenzene	95-50-1	TO-15	EPA RSL	210	1.202	0.770
1,2-Dichlorotetrafluoroethane 76-14-2 TO-15 EPA RSL NA 1.399 0.622 1,3,5-Trimethyl benzene 108-67-8 TO-15 EPA RSL 63 0.982 0.382 1,3-butadiene 106-99-0 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,3-Dichlorobenzene 541-73-1 TO-15 EPA RSL NA 1.202 1.094 1,4-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1,4-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1,4-Dioxane 123-91-1 TO-15 EPA RSL 0.26 0.120 0.042 1,4-Dioxane 123-91-1 TO-15 EPA RSL 0.4 0.934 0.621 2-Butanone 78-93-3 TO-15 EPA RSL NA 0.934 0.621 2-bropanol 67-63-0 TO-15 EPA RSL - 1.031 0.427 2-propanol 67-64-1 TO-15 EPA	1,2-Dichloroethane	107-06-2	TO-15	EPA RSL	0.11 ^b	0.810	0.283
1,3,5-Trimethyl benzene108-67-8TO-15EPA RSL630.9820.3821,3-butadiene106-99-0TO-15EPA RSL0.094b4.4250.2301,3-Dichlorobenzene541-73-1TO-15EPA RSLNA1.2021.0941,4-Dichlorobenzene106-46-7TO-15EPA RSL0.260.1200.0421,4-Dichlorobenzene123-91-1TO-15EPA RSL0.260.7210.3002,2,4-Trimethylpentane540-84-1TO-15EPA RSLNA0.9340.6212-Butanone78-93-3TO-15EPA RSL5,2003.6860.2402-Chlorotoluene95-49-8TO-15EPA RSL-1.0310.4272-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL-2.9701.388ACETONITRILE107-02-8TO-15EPA RSL0.021b2.2930.720ACRYLONITRILE107-05-1TO-15EPA RSL0.041b10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.041b10.390.311Bromodichloromethane75-27-4TO-15EPA RSL0.057b1.0390.311	1,2-Dichloropropane	78-87-5	TO-15 SIM	EPA RSL	0.76	0.139	0.041
1,3-butadiene 106-99-0 TO-15 EPA RSL 0.094 ^b 4.425 0.230 1,3-Dichlorobenzene 541-73-1 TO-15 EPA RSL NA 1.202 1.094 1,4-Dichlorobenzene 106-46-7 TO-15 EPA RSL 0.26 0.120 0.042 1,4-Dichlorobenzene 123-91-1 TO-15 EPA RSL 0.56 ^c 0.721 0.300 2,2,4-Trimethylpentane 540-84-1 TO-15 EPA RSL NA 0.934 0.621 2-Butanone 78-93-3 TO-15 EPA RSL 5,200 3.686 0.240 2-Chlorotoluene 95-49-8 TO-15 EPA RSL - 1.031 0.427 2-propanol 67-63-0 TO-15 EPA RSL 210 3.073 0.649 4-thyltoluene 622-96-8 TO-15 EPA RSL NA 0.982 0.384 4-Methyl-2-Pentanone 108-10-1 TO-15 EPA RSL - 2.970 1.388 ACETONITRILE 75-05-8 TO-15 EPA	1,2-Dichlorotetrafluoroethane	76-14-2	TO-15	EPA RSL	NA	1.399	0.622
1,3-Dichlorobenzene541-73-1TO-15EPA RSLNA1.2021.0941,4-Dichlorobenzene106-46-7TO-15 SIMEPA RSL0.260.1200.0421,4-Dichlorobenzene123-91-1TO-15EPA RSL0.56°0.7210.3002,2,4-Trimethylpentane540-84-1TO-15EPA RSLNA0.9340.6212-Butanone78-93-3TO-15EPA RSLS,2003.6860.2402-Chlorotoluene95-49-8TO-15EPA RSL-1.0310.4272-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSLNA0.9820.384Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL-2.9701.388ACETONITRILE107-02-8TO-15EPA RSL0.021 ^b 2.2930.720ACRYLONITRILE107-05-1TO-15EPA RSL0.47 ^b 0.6260.357Benzene71-43-2TO-15EPA RSL0.360.0640.036Benzene71-43-2TO-15EPA RSL0.076 ^b 1.3420.471	1,3,5-Trimethyl benzene	108-67-8	TO-15	EPA RSL	63	0.982	0.382
1,4-Dichlorobenzene106-46-7TO-15 SIMEPA RSL0.260.1200.0421,4-Dioxane123-91-1TO-15EPA RSL0.56°0.7210.3002,2,4-Trimethylpentane540-84-1TO-15EPA RSLNA0.9340.6212-Butanone78-93-3TO-15EPA RSL5,2003.6860.2402-Chlorotoluene95-49-8TO-15EPA RSL-1.0310.4272-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL3,1005.1180.313Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL0.021 ^b 2.2930.720ACRYLONITRILE107-02-8TO-15EPA RSL0.041 ^b 10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.360.0640.036Benzene71-43-2TO-15EPA RSL0.360.0640.036Benzene71-43-2TO-15EPA RSL0.076 ^b 1.3420.471	1,3-butadiene	106-99-0	TO-15	EPA RSL	0.094 ^b	4.425	0.230
1,4-Dioxane123-91-1TO-15EPA RSL0.56 ^c 0.7210.3002,2,4-Trimethylpentane540-84-1TO-15EPA RSLNA0.9340.6212-Butanone78-93-3TO-15EPA RSL5,2003.6860.2402-Chlorotoluene95-49-8TO-15EPA RSL-1.0310.4272-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL3,1005.1180.313Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL-2.9701.388ACROLEIN107-02-8TO-15EPA RSL0.021 ^b 2.2930.720ACRYLONITRILE107-13-1TO-15EPA RSL0.041 ^b 10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.47 ^b 0.6260.357Benzene71-43-2TO-15EPA RSL0.057 ^b 1.0390.311Bromodichloromethane75-27-4TO-15EPA RSL0.076 ^b 1.3420.471	1,3-Dichlorobenzene	541-73-1	TO-15	EPA RSL	NA	1.202	1.094
2,2,4-Trimethylpentane540-84-1TO-15EPA RSLNA0.9340.6212-Butanone78-93-3TO-15EPA RSL5,2003.6860.2402-Chlorotoluene95-49-8TO-15EPA RSL-1.0310.4272-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL3,1005.1180.313Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL638.3950.395ACROLEIN107-02-8TO-15EPA RSL0.021b2.2930.720ACRYLONITRILE107-05-1TO-15EPA RSL0.041b10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.360.0640.036Benzene71-43-2TO-15EPA RSL0.057b1.0390.311Bromodichloromethane75-27-4TO-15EPA RSL0.076b1.3420.471	1,4-Dichlorobenzene	106-46-7	TO-15 SIM	EPA RSL	0.26	0.120	0.042
2-Butanone78-93-3TO-15EPA RSL5,2003.6860.2402-Chlorotoluene95-49-8TO-15EPA RSL-1.0310.4272-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL3,1005.1180.313Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL638.3950.395ACROLEIN107-02-8TO-15EPA RSL0.021 ^b 2.2930.720ACRYLONITRILE107-13-1TO-15EPA RSL0.041 ^b 10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.360.0640.036Benzene71-43-2TO-15EPA RSL0.360.0640.036Benzyl Chloride100-44-7TO-15EPA RSL0.076 ^b 1.3420.471	1,4-Dioxane	123-91-1	TO-15	EPA RSL	0.56 ^c	0.721	0.300
2-Chlorotoluene95-49-8TO-15EPA RSL-1.0310.4272-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL3,1005.1180.313Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL-2.9701.388ACROLEIN107-02-8TO-15EPA RSL0.021b2.2930.720ACRYLONITRILE107-13-1TO-15EPA RSL0.041b10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.47b0.6260.357Benzene71-43-2TO-15EPA RSL0.057b1.0390.311Bromodichloromethane75-27-4TO-15EPA RSL0.076b1.3420.471	2,2,4-Trimethylpentane	540-84-1	TO-15	EPA RSL	NA	0.934	0.621
2-propanol67-63-0TO-15EPA RSL2103.0730.6494-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL3,1005.1180.313Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL638.3950.395ACROLEIN107-02-8TO-15EPA RSL0.021b2.2930.720ACRYLONITRILE107-13-1TO-15EPA RSL0.041b10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.47b0.6260.357Benzene71-43-2TO-15EPA RSL0.057b1.0390.311Bromodichloromethane75-27-4TO-15EPA RSL0.076b1.3420.471	2-Butanone	78-93-3	TO-15	EPA RSL	5,200	3.686	0.240
4-Ethyltoluene622-96-8TO-15EPA RSLNA0.9820.3844-Methyl-2-Pentanone108-10-1TO-15EPA RSL3,1005.1180.313Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL638.3950.395ACROLEIN107-02-8TO-15EPA RSL0.021b2.2930.720ACRYLONITRILE107-13-1TO-15EPA RSL0.041b10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.360.0640.036Benzene71-43-2TO-15EPA RSL0.057b1.0390.311Bromodichloromethane75-27-4TO-15EPA RSL0.076b1.3420.471	2-Chlorotoluene	95-49-8	TO-15	EPA RSL	-	1.031	0.427
4-Methyl-2-Pentanone108-10-1TO-15EPA RSL3,1005.1180.313Acetone67-64-1TO-15EPA RSL-2.9701.388ACETONITRILE75-05-8TO-15EPA RSL638.3950.395ACROLEIN107-02-8TO-15EPA RSL0.021b2.2930.720ACRYLONITRILE107-13-1TO-15EPA RSL0.041b10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.47b0.6260.357Benzene71-43-2TO-15EPA RSL0.360.0640.036Benzyl Chloride100-44-7TO-15EPA RSL0.076b1.3420.471	2-propanol	67-63-0	TO-15	EPA RSL	210	3.073	0.649
Acetone 67-64-1 TO-15 EPA RSL - 2.970 1.388 ACETONITRILE 75-05-8 TO-15 EPA RSL 63 8.395 0.395 ACROLEIN 107-02-8 TO-15 EPA RSL 0.021 ^b 2.293 0.720 ACRYLONITRILE 107-13-1 TO-15 EPA RSL 0.041 ^b 10.85 0.490 Allyl Chloride 107-05-1 TO-15 EPA RSL 0.47 ^b 0.626 0.357 Benzene 71-43-2 TO-15 SIM EPA RSL 0.36 0.064 0.036 Benzyl Chloride 100-44-7 TO-15 EPA RSL 0.076 ^b 1.342 0.471	4-Ethyltoluene	622-96-8	TO-15	EPA RSL	NA	0.982	0.384
ACETONITRILE75-05-8TO-15EPA RSL638.3950.395ACROLEIN107-02-8TO-15EPA RSL0.021b2.2930.720ACRYLONITRILE107-13-1TO-15EPA RSL0.041b10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.47b0.6260.357Benzene71-43-2TO-15 SIMEPA RSL0.360.0640.036Benzyl Chloride100-44-7TO-15EPA RSL0.057b1.0390.311Bromodichloromethane75-27-4TO-15EPA RSL0.076b1.3420.471	4-Methyl-2-Pentanone			EPA RSL	3,100	5.118	
ACROLEIN107-02-8TO-15EPA RSL0.021b2.2930.720ACRYLONITRILE107-13-1TO-15EPA RSL0.041b10.850.490Allyl Chloride107-05-1TO-15EPA RSL0.47b0.6260.357Benzene71-43-2TO-15 SIMEPA RSL0.360.0640.036Benzyl Chloride100-44-7TO-15EPA RSL0.057b1.0390.311Bromodichloromethane75-27-4TO-15EPA RSL0.076b1.3420.471	Acetone	67-64-1	TO-15	EPA RSL	-	2.970	1.388
ACRYLONITRILE 107-13-1 TO-15 EPA RSL 0.041 ^b 10.85 0.490 Allyl Chloride 107-05-1 TO-15 EPA RSL 0.47 ^b 0.626 0.357 Benzene 71-43-2 TO-15 EPA RSL 0.36 0.064 0.036 Benzyl Chloride 100-44-7 TO-15 EPA RSL 0.057 ^b 1.039 0.311 Bromodichloromethane 75-27-4 TO-15 EPA RSL 0.076 ^b 1.342 0.471	ACETONITRILE	75-05-8	TO-15	EPA RSL		8.395	0.395
Allyl Chloride107-05-1TO-15EPA RSL0.47b0.6260.357Benzene71-43-2TO-15 SIMEPA RSL0.360.0640.036Benzyl Chloride100-44-7TO-15EPA RSL0.057b1.0390.311Bromodichloromethane75-27-4TO-15EPA RSL0.076b1.3420.471	ACROLEIN	107-02-8	TO-15	EPA RSL	0.021 ^b	2.293	0.720
Benzene 71-43-2 TO-15 SIM EPA RSL 0.36 0.064 0.036 Benzyl Chloride 100-44-7 TO-15 EPA RSL 0.057 ^b 1.039 0.311 Bromodichloromethane 75-27-4 TO-15 EPA RSL 0.076 ^b 1.342 0.471	ACRYLONITRILE	107-13-1	TO-15	EPA RSL	0.041 ^b	10.85	0.490
Benzyl Chloride 100-44-7 TO-15 EPA RSL 0.057 ^b 1.039 0.311 Bromodichloromethane 75-27-4 TO-15 EPA RSL 0.076 ^b 1.342 0.471	Allyl Chloride	107-05-1	TO-15	EPA RSL	0.47 ^b	0.626	0.357
Bromodichloromethane 75-27-4 TO-15 EPA RSL 0.076 ^b 1.342 0.471	Benzene	71-43-2	TO-15 SIM	EPA RSL	0.36	0.064	0.036
Bromodichloromethane 75-27-4 TO-15 EPA RSL 0.076 ^b 1.342 0.471	Benzyl Chloride	100-44-7	TO-15	EPA RSL	0.057 ^b	1.039	0.311
	•		TO-15	EPA RSL	0.076 ^b		
	BROMOETHANE	74-96-4	TO-15	EPA RSL	NA	22.28	0.961

Quality Assurance Project Plan, Remedial Investigation 700 South 1600 East PCE Plume, Salt Lake City, Utah

Table 2-7(a). Project Laboratory (Pace Analytical) – Target Analytes and Reporting Limits – Volatile Organic Compounds in Air

		Lowest				
				Screening	Laboratory	Laboratory
	CAS		Screening	Level Value	RL	MDL
Analyte	Number	Air Method	Level ^a	(µg/m³)ª	(ug/m ³)	(ug/m ³)
Bromoform	75-25-2	TO-15	EPA RSL	2.6 ^b	6.209	0.757
Bromomethane	74-83-9	TO-15	EPA RSL	5.2	0.776	0.381
BUTANE	106-97-8	TO-15	EPA RSL	NA	0.475	0.124
Carbon Disulfide	75-15-0	TO-15	EPA RSL	730	0.622	0.317
Carbon Tetrachloride	56-23-5	TO-15 SIM	EPA RSL	0.47	0.126	0.063
Chlorobenzene	108-90-7	TO-15	EPA RSL	52	0.924	0.385
CHLORODIBROMOMETHANE	124-48-1	TO-15	EPA RSL	-	1.701	0.618
CHLORODIFLUOROMETHANE	75-45-6	TO-15	EPA RSL	52,000	0.707	0.463
Chloroethane	75-00-3	TO-15 SIM	EPA RSL	4,200	0.106	0.025
Chloroform	67-66-3	TO-15 SIM	EPA RSL	0.12	0.097	0.035
Chloromethane	74-87-3	TO-15 SIM	EPA RSL	94	0.062	0.033
Cis-1,2-Dichloroethene	156-59-2	TO-15 SIM	EPA RSL	-	0.079	0.563
Cis-1,3-Dichloropropene	10061-01-5	TO-15 SIM	EPA RSL	0.7	0.091	0.033
Cyclohexane	110-82-7	TO-15	EPA RSL	6,300	0.689	0.259
Dichlorodifluoromethane	75-71-8	TO-15	EPA RSL	100	0.989	0.678
DI-ISOPROPYL ETHER	108-20-3	TO-15	EPA RSL	730	0.836	0.351
Ethanol	64-17-5	TO-15	EPA RSL	NA	1.188	0.500
ETHYL ACETATE	141-78-6	TO-15	EPA RSL	73	0.721	0.360
ETHYL TERT-BUTYL ETHER	637-92-3	TO-15	EPA RSL	35	0.836	0.336
Ethylbenzene	100-41-4	TO-15 SIM	EPA RSL	1.1	0.130	0.055
Heptane	142-82-5	TO-15	EPA RSL	420	0.818	0.425
Hexachloro-1,3-Butadiene	87-68-3	TO-15	EPA RSL	0.13 ^b	6.725	1.121
Hexane	110-54-3	TO-15	EPA RSL	730	2.221	0.726
Isopropylbenzene	98-82-8	TO-15	EPA RSL	420	0.983	0.382
m&p-Xylene	1330-20-7	TO-15	EPA RSL	100	1.734	0.585
METHYL ACETATE	79-20-9	TO-15	EPA RSL	_	0.606	0.263
Methyl Butyl Ketone	591-78-6	TO-15	EPA RSL	31	5.112	0.544
METHYL CYCLOHEXANE	108-87-2	TO-15	EPA RSL	NA	0.803	0.326
Methyl Methacrylate	80-62-6	TO-15	EPA RSL	730	0.819	0.359
Methylene chloride	75-09-2	TO-15	EPA RSL	100	0.694	0.340
MTBE	1634-04-4	TO-15	EPA RSL	11	0.721	0.233
Naphthalene	91-20-3	TO-15	EPA RSL	0.083 ^b	3.298	1.832
N-BUTYLBENZENE	104-51-8	TO-15	EPA RSL	-	1.098	0.448
N-DECANE	124-18-5	TO 15	EPA RSL	NA	1.164	0.456
N-OCTANE	111-65-9	TO-15	EPA RSL	NA	0.934	0.430
NONANE	111-05-5	TO-15	EPA RSL	21	1.049	0.420
N-PROPYLBENZENE	103-65-1	TO-15	EPA RSL	1,000	0.983	0.190
o-Xylene	95-47-6	TO-15	EPA RSL	1,000	0.985	0.359
PENTANE	109-66-0	TO-15 TO-15	EPA RSL EPA RSL	1,000	0.867	0.339
P-ISOPROPYLTOLUENE	99-87-6	TO-15 TO-15	EPA RSL EPA RSL	1,000 NA	1.098	0.148

Table 2-7(a). Project Laboratory (Pace Analytical) - Target Analytes and Reporting Limits - Volatile Organic Compounds in Air

Quality Assurance Project Plan, Remedial Investigation 700 South 1600 East PCE Plume, Salt Lake City, Utah

	CAS		Screening	Lowest Screening Level Value	Laboratory RL	Laboratory MDL
Analyte	Number	Air Method	Level ^a	(µg/m³)ª	(ug/m ³)	(ug/m³)
Propene	115-07-1	TO-15	EPA RSL	3,100	0.689	0.160
SEC-BUTYLBENZENE	135-98-8	TO-15	EPA RSL	-	1.098	0.425
Styrene	100-42-5	TO-15	EPA RSL	1,000	0.851	0.335
TERT-AMYL ETHYL ETHER	919-94-8	TO-15	EPA RSL	NA	0.951	0.370
TERT-AMYL METHYL ETHER	994-05-8	TO-15	EPA RSL	NA	0.836	0.410
TERT-BUTYL ALCOHOL	75-65-0	TO-15	EPA RSL	5,200	0.606	0.176
TERT-BUTYLBENZENE	98.06-6	TO-15	EPA RSL	NA	1.098	0.405
Tetrachloroethylene	127-18-4	TO-15 SIM	EPA RSL	11	0.136	0.086
Tetrahydrofuran	109-99-9	TO-15	EPA RSL	2,100	0.590	0.216
Toluene	108-88-3	TO-15	EPA RSL	5,200	0.753	0.328
TPH (GC/MS) LOW FRACTION	8006-61-9	TO-15	EPA RSL	NA	826.2	163.996
TPH-GRO (C5-C10)	8006-61-10	TO-15	EPA RSL	NA	826.2	163.996
Trans-1,2-dichloroethene	156-60-5	TO-15 SIM	EPA RSL	42	0.079	0.020
Trans-1,3-Dichloropropene	10061-02-6	TO-15 SIM	EPA RSL	0.7	0.136	0.032
Trichloroethylene	79-01-6	TO-15 SIM	EPA RSL	0.48	0.107	0.040
Trichlorofluoromethane	75-69-4	TO-15	EPA RSL	-	1.124	0.460
Vinyl Acetate	108-05-4	TO-15 SIM	EPA RSL	210	0.070	0.039
Vinyl Bromide	593-60-2	TO-15	EPA RSL	0.19 ^b	0.875	0.373
Vinyl chloride	75-01-4	TO-15 SIM	EPA RSL	0.17	0.051	0.020

^a EPA RSL, Resident Air, November 2019, screening levels were based on a target excess lifetime cancer risk of 1 × 10⁻⁶ and a hazard quotient of 1.

^b Because of the low screening level for this analyte, the RL is greater than the screening level. However, this analyte is not a known COPC for the site.

^c Because of the low screening level for this analyte, the RL is greater than the screening level. The inadequate RL will be discussed in the risk assessment.

Notes:

 μ g/m³ = micrograms per cubic meter

COPC = constituent of potential concern

EPA = Environmental Protection Agency

MDL = method detection limit

RL= reporting limit

RSL = regional screening level