



HARGIS + ASSOCIATES, INC.

HYDROGEOLOGY • ENGINEERING

3131 Camino del Rio North, Suite 355
San Diego, CA 92108
Phone: 858.455.6500
Fax: 858.455.6533

March 7, 2023

VIA EMAIL AND GEOTRACKER UPLOAD

Mr. Gongde Chen, PhD
Water Resources Control Engineer
UST/SCP Section
SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501

Re: 2022 Annual Groundwater Monitoring and Remediation System
Operation Results, Raytheon Company, Former Building 684, Fullerton, California

Dear Mr. Chen:

This letter presents the results of groundwater monitoring and operation of the full-scale groundwater remediation system (groundwater remediation system) and of the soil vapor extraction system (SVE system) for the period January 2022 through December 2022 at the Raytheon Company, Former Building 684 site (the Site), located at 2357 Moore Avenue (formerly 651 North Gilbert Street), Fullerton, California (Figures 1 and 2). Groundwater monitoring was performed in general accordance with the monitoring schedule identified in the letter from Hargis + Associates, Inc. (H+A) to the California Regional Water Quality Control Board, Santa Ana Region (CRWQCB) dated November 8, 2002 (H+A, 2002).

GROUNDWATER MONITORING

Groundwater monitoring was conducted at the Site in March, May, August, and November 2022. The annual event was performed in August 2022 and comprised of water level measurements in accessible monitor and extraction wells and collection of groundwater samples in all accessible monitor and extraction wells (Tables 1 and 2).

GROUNDWATER LEVELS

Water levels were measured in accessible monitor wells, extraction wells, and two Orange County Water District (OCWD) test wells in March, May, August, and November 2022 (Table 1). Figures 3 through 8 depict water level elevations obtained during annual monitoring conducted in August 2022. The August 2022 water levels are representative of groundwater conditions.

The Site hydrostratigraphic units have been previously described in detail (H+A, 2013). Shallow zone and Upper Unit A water level data obtained in August 2022 indicate the same general patterns of hydraulic head and directions of groundwater flow that have been historically observed in these units prior to remediation system operations (Figures 3 through 5) (H+A, 1997). The direction of groundwater flow in the shallow zone was generally toward the east (Figure 3), and toward the north-northeast in the deeper shallow zone (Figure 4). The direction of groundwater flow in the Upper Unit A was generally toward the Upper Unit A groundwater extraction wells (Figure 5).

Other Offices:
Folsom, CA
Mesa, AZ
Tucson, AZ

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Extraction of groundwater from Lower Unit A ceased in April 2004 with approval from CRWQCB (CRWQCB, 2004). In August 2022, the direction of groundwater flow in Lower Unit A was generally toward the north-northwest (Figure 6), which is consistent with the flow direction observed prior to remediation system operations (H+A, 1997).

In August 2022, the direction of groundwater flow in the A/B aquitard near the Site was toward the southwest (Figure 7), which is consistent with the flow direction observed prior to remediation system operations (H+A, 1997). The direction of groundwater flow in Unit B was toward the west (Figure 8), which was consistent with the historical trends observed in this unit.

GROUNDWATER CHEMICAL QUALITY

All groundwater samples collected during monitoring activities conducted in 2022 were analyzed by Eurofins Calscience Inc., Garden Grove, California for volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260B and for analysis of 1,4-dioxane by EPA Method 8270C (Appendix A). Trichloroethylene (TCE) was the principal VOC detected in groundwater samples collected from extraction wells at the Site. Historically, other VOCs have been intermittently detected in groundwater samples collected from various wells at the Site (H+A, 1992). However, beginning in May 2005 and persisting to date at several locations, Tetrachloroethylene (PCE) and TCE have been detected in off-Site monitor wells at concentrations that are not consistent with historical groundwater concentration trends and observed water level elevation and gradient conditions associated with the respective wells. The lines of evidence that supported the conclusion that PCE and TCE concentrations in this area were increasing as a result of one or more off-Site, non-Raytheon source(s) of PCE and TCE to groundwater were previously described (H+A, 2013).

Chain-of-custody documentation was enclosed with each sample shipment. Quality assurance/quality control samples collected during monitoring in 2022 comprised trip blanks that accompanied each sample shipment, rinsate blanks, and field duplicates.

The principal VOC in groundwater is TCE (Table 2); PCE, 1,1-dichloroethylene (1,1-DCE), and all other detected compounds can be found in Table 3. Figures depicting the concentrations of TCE, PCE, and 1,1-DCE detected in groundwater samples collected in August 2022 have been prepared (Figures 9 through 18). Water quality hydrographs depicting the concentrations of TCE in extraction well groundwater samples obtained through November 2022 have been prepared (Figures 19 through 30). Comparisons of the historical concentrations of TCE with concentrations detected in August 2022 generally indicate stable or declining trends of TCE concentrations at the Site.

GROUNDWATER REMEDIATION SYSTEM

The remediation system is a semi-automated, pump-and-treat system designed to remediate groundwater at the Site in the underlying hydrostratigraphic units identified as the shallow zone and Unit A (H+A, 1993).

Full-scale groundwater remediation commenced March 12, 1996. Groundwater historically has been extracted from the Shallow Zone, Upper Unit A, and Lower Unit A. In April 2004, groundwater extraction from Lower Unit A was discontinued, as approved by the CRWQCB (CRWQCB, 2004).

During the period January 1, 2022 through December 31, 2022, the groundwater remediation system treated approximately 84,338,271 gallons of water and removed approximately 2.3 gallons of TCE. TCE concentrations detected in groundwater samples collected from extraction wells are summarized in

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Figures 19 through 30. Through December 2022, the full-scale remediation system has treated approximately 1,963,403,775 gallons of water and removed approximately 123 gallons of TCE.

SOIL VAPOR EXTRACTION SYSTEM

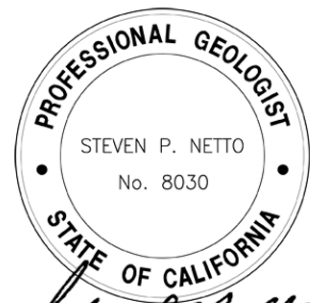
The SVE system is designed to treat VOCs in soil vapor, primarily TCE, which is extracted from two dual-nested SVE wells SVE-100S/D and SVE-101S/D. These two nested sets of SVE wells both have well screens that were installed at an angle of approximately 45-degrees from horizontal. Each nested SVE well has a shallow screened interval from approximately 5 to 25 feet below land surface (bls) and a deeper screened interval from approximately 25 to 50 feet bls. The trace of the SVE well screens in a horizontal plane projected onto land surface is illustrated on Figure 31. Treated soil vapors are discharged through a 35-foot stack which is regulated by the South Coast Air Quality Management District (SCAQMD) under permit G62501, A/N 623372.


During the period January 1, 2022 through December 31, 2022, the SVE system removed approximately 1.8 pounds of total VOCs and approximately 1.8 pounds of TCE (Table 4; Figure 32). Beginning on September 23, 2022, the SVE system was temporarily shut down to evaluate short-term rebound conditions. The system remained off through December 31, 2022, and is anticipated to restart in early 2023. System influent, effluent, and midpoint field samples were collected weekly at the SVE System while operational and analyzed in the field using a calibrated photo-ionization detector (PID). Weekly PID measurements collected at the system during operation were used to verify that the SCAQMD permit limits were not exceeded and, if necessary, operational adjustments were made to remain in permit compliance.

Please contact me at (858) 455-6500, extension 7430, or snetto@hargis.com, with any questions or comments.

Sincerely,

HARGIS + ASSOCIATES, INC




Steven P. Netto, PG 8030, CHG 872
Senior Hydrogeologist

SPN/ibj

Enclosures: Tables 1 through 4
Figures 1 through 32
Appendix A – Laboratory Analytical Data

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cc (w/encl.) Mr. Jonathan Hone, Raytheon Company
Mr. Daniel Samorano, Raytheon Company
Ms. Laurie Kaufman, Raytheon Company
Ms. Linda Tsoi, City of Fullerton
Ms. Delaney Cosgrove, City of Fullerton

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REFERENCES

- California Regional Water Quality Control Board (CRWQCB), 2004. Letter to P. Brewer, Raytheon Systems Company, from C. Bernhardt, RWQCB, re: Proposed Groundwater Monitoring Well Construction and Destruction, Former Raytheon Facility, 651 North Gilbert Street, Fullerton, California, Regional Board Case Number: 083000187T, dated March 12, 2004.
- Hargis + Associates, Inc., 1992. Phase V Groundwater Assessment, Hughes Aircraft Company, Building 684, Fullerton, California. Prepared for Hughes Aircraft Company (HAC), Fullerton, California. September 14, 1992.
- _____, 1993. Groundwater Remedial Action Plan, Hughes Aircraft Company, Building 684 Site, Fullerton, California. August 10, 1993.
- _____, 1997. Results of Groundwater Monitoring and Groundwater Remediation System Operation, March through December 1996, Hughes Aircraft Company, Building 684, Fullerton, California. March 26, 1997.
- _____, 2002. Letter to Mr. Carl A. Bernhardt California Regional Water Quality Control Board, re: Proposed Groundwater Monitoring Program, Hughes Aircraft Company, Building 684, Fullerton, California, dated November 8, 2002.
- _____, 2013. Results of Groundwater Monitoring and Groundwater Remediation System Operation, January through December 2012, Raytheon Company, Former Building 684, Fullerton, California. February 14, 2013.

TABLES

TABLE 1
WATER LEVEL ELEVATION DATA

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (feet msl)	DEPTH TO WATER (feet bmp)	WATER LEVEL ELEVATION (feet msl)
Shallow Zone Water Table Monitor Wells				
S-02	03/01/22	100.91	50.61	50.30
S-02 ⁽¹⁾	05/11/22	100.91	NM	--
S-02 ⁽¹⁾	08/15/22	100.91	NM	--
S-02 ⁽¹⁾	11/22/22	100.91	NM	--
S-03	03/01/22	101.60	52.91	48.69
S-03	05/11/22	101.60	52.68	48.92
S-03 ⁽¹⁾	08/15/22	101.60	NM	--
S-03	11/22/22	101.60	53.54	48.06
S-04	03/01/22	100.95	52.50	48.45
S-04	05/11/22	100.95	52.26	48.69
S-04	08/15/22	100.95	52.21	48.74
S-04	11/22/22	100.95	53.53	47.42
S-05	03/01/22	98.92	44.95	53.97
S-05	05/11/22	98.92	44.69	54.23
S-05	08/15/22	98.92	44.44	54.48
S-05	11/22/22	98.92	45.35	53.57
S-07	03/01/22	99.48	47.01	52.47
S-07	05/11/22	99.48	46.90	52.58
S-07	08/15/22	99.48	46.64	52.84
S-07	11/22/22	99.48	47.54	51.94
S-08	03/01/22	95.52	47.97	47.55
S-08	05/12/22	95.52	47.78	47.74
S-08	08/15/22	95.52	47.65	47.87
S-08	11/22/22	95.52	48.61	46.91
S-18	03/01/22	98.79	47.13	51.66
S-18	05/11/22	98.79	47.96	50.83
S-18	08/15/22	98.79	46.80	51.99
S-18	11/22/22	98.79	47.88	50.91
S-21	03/01/22	95.81	32.47	63.34
S-21	05/11/22	95.81	33.36	62.45
S-21	08/15/22	95.81	35.68	60.13
S-21	11/22/22	95.81	36.46	59.35
S-32	03/01/22	101.17	52.70	48.47
S-32	05/11/22	101.17	52.33	48.84
S-32	08/15/22	101.17	52.18	48.99
S-32 ⁽¹⁾	11/22/22	101.17	NM	--

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WATER LEVEL ELEVATION DATA

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (feet msl)	DEPTH TO WATER (feet bmp)	WATER LEVEL ELEVATION (feet msl)
Deeper Shallow Zone Monitor Wells				
S-14	03/01/22	96.96	44.56	52.40
S-14	05/11/22	96.96	44.40	52.56
S-14	08/15/22	96.96	44.30	52.66
S-14	11/22/22	96.96	44.83	52.13
S-15	03/01/22	95.76	39.69	56.07
S-15	05/11/22	95.76	39.57	56.19
S-15	08/15/22	95.76	39.30	56.46
S-15	11/22/22	95.76	40.30	55.46
S-24	03/01/22	95.66	39.59	56.07
S-24	05/11/22	95.66	39.54	56.12
S-24	08/15/22	95.66	39.36	56.30
S-24	11/22/22	95.66	40.20	55.46
S-26	03/01/22	97.68	39.55	58.13
S-26	05/11/22	97.68	39.33	58.35
S-26	08/15/22	97.68	39.50	58.18
S-26	11/22/22	97.68	40.35	57.33
S-27	03/01/22	119.98	73.20	46.78
S-27	05/11/22	119.98	72.78	47.20
S-27	08/15/22	119.98	73.17	46.81
S-27	11/22/22	119.98	74.40	45.58
S-29	03/01/22	91.42	34.58	56.84
S-29	05/11/22	91.42	34.34	57.08
S-29	08/15/22	91.42	34.35	57.07
S-29	11/22/22	91.42	35.34	56.08
S-30	03/01/22	95.00	38.23	56.77
S-30	05/11/22	95.00	37.94	57.06
S-30	08/15/22	95.00	38.16	56.84
S-30 ⁽¹⁾	11/22/22	95.00	NM	--
S-31	03/01/22	94.31	38.29	56.02
S-31	05/11/22	94.31	37.98	56.33
S-31	08/15/22	94.31	38.16	56.15
S-31	11/22/22	94.31	39.03	55.28
SE-01	03/01/22	98.27	50.10	48.17
SE-01	05/12/22	98.27	49.85	48.42
SE-01	08/15/22	98.27	49.56	48.71
SE-01	11/22/22	98.27	51.11	47.16

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WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (feet msl)	DEPTH TO WATER (feet bmp)	WATER LEVEL ELEVATION (feet msl)
Shallow Zone Extraction Wells				
SE-04	03/01/22	95.53	38.37	57.16
SE-04	05/11/22	95.53	38.33	57.20
SE-04	08/15/22	95.53	38.17	57.36
SE-04	11/22/22	95.53	38.57	56.96
Upper Unit A Monitor Wells				
UA-02	03/01/22	98.82	51.90	46.92
UA-02	05/11/22	98.82	51.33	47.49
UA-02	08/15/22	98.82	52.50	46.32
UA-02	11/22/22	98.82	53.65	45.17
UA-06	03/01/22	97.53	50.17	47.36
UA-06	05/11/22	97.53	49.64	47.89
UA-06	08/15/22	97.53	50.73	46.80
UA-06	11/22/22	97.53	51.90	45.63
UA-07	03/01/22	98.61	50.22	48.39
UA-07	05/11/22	98.61	49.78	48.83
UA-07	08/15/22	98.61	51.11	47.50
UA-07	11/22/22	98.61	52.02	46.59
UA-08	03/01/22	95.05	48.29	46.76
UA-08	05/11/22	95.05	47.79	47.26
UA-08	08/15/22	95.05	48.81	46.24
UA-08	11/22/22	95.05	50.00	45.05
UA-11	03/01/22	94.89	47.83	47.06
UA-11	05/11/22	94.89	47.34	47.55
UA-11	08/15/22	94.89	48.44	46.45
UA-11	11/22/22	94.89	49.53	45.36
UA-12	03/01/22	91.07	44.25	46.82
UA-12	05/11/22	91.07	43.78	47.29
UA-12	08/15/22	91.07	44.78	46.29
UA-12	11/22/22	91.07	45.89	45.18
Upper Unit A Extraction Wells				
UAX-01	03/01/22	97.45	62.15	35.30
UAX-01	05/11/22	97.45	61.54	35.91
UAX-01 ⁽²⁾	08/15/22	97.45	NM	--
UAX-01	11/23/22	97.45	64.21	33.24
UAX-02	03/01/22	97.08	85.70	11.38
UAX-02	05/11/22	97.08	85.83	11.25
UAX-02	08/15/22	97.08	87.29	9.79
UAX-02	11/22/22	97.08	90.67	6.41

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WATER LEVEL ELEVATION DATA

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (feet msl)	DEPTH TO WATER (feet bmp)	WATER LEVEL ELEVATION (feet msl)
Upper Unit A Extraction Wells (continued)				
UAX-03	03/01/22	92.63	76.91	15.72
UAX-03	05/11/22	92.63	76.59	16.04
UAX-03	08/15/22	92.63	77.08	15.55
UAX-03	11/22/22	92.63	79.08	13.55
Lower Unit A Monitor Wells				
UA-04D	03/01/22	100.31	52.34	47.97
UA-04D	05/11/22	100.31	51.76	48.55
UA-04D	08/15/22	100.31	52.89	47.42
UA-04D	11/22/22	100.31	54.11	46.20
UA-06D	03/01/22	97.45	48.85	48.60
UA-06D	05/11/22	97.45	48.42	49.03
UA-06D	08/15/22	97.45	48.75	48.70
UA-06D	11/22/22	97.45	50.65	46.80
UA-07D	03/01/22	99.46	49.20	50.26
UA-07D	05/11/22	99.46	48.78	50.68
UA-07D	08/15/22	99.46	50.23	49.23
UA-07D	11/22/22	99.46	51.11	48.35
UA-08D	03/01/22	94.86	47.15	47.71
UA-08D	05/11/22	94.86	46.68	48.18
UA-08D	08/15/22	94.86	47.94	46.92
UA-08D	11/22/22	94.86	48.93	45.93
UA-10D	03/01/22	93.89	44.94	48.95
UA-10D	05/11/22	93.89	44.50	49.39
UA-10D	08/15/22	93.89	46.12	47.77
UA-10D	11/22/22	93.89	46.80	47.09
UA-11D	03/01/22	94.35	46.21	48.14
UA-11D	05/11/22	94.35	45.81	48.54
UA-11D	08/15/22	94.35	47.15	47.20
UA-11D	11/22/22	94.35	47.98	46.37
UA-12D	03/01/22	90.57	43.26	47.31
UA-12D	05/11/22	90.57	42.75	47.82
UA-12D	08/15/22	90.57	43.95	46.62
UA-12D	11/22/22	90.57	44.91	45.66
UA-13D	03/01/22	91.28	41.97	49.31
UA-13D	05/11/22	91.28	41.86	49.42
UA-13D	08/15/22	91.28	43.73	47.55
UA-13D	11/22/22	91.28	43.75	47.53
UA-14D	03/01/22	91.08	43.01	48.07
UA-14D	05/11/22	91.08	42.62	48.46
UA-14D	08/15/22	91.08	43.93	47.15
UA-14D	11/22/22	91.08	44.78	46.30

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WATER LEVEL ELEVATION DATA

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (feet msl)	DEPTH TO WATER (feet bmp)	WATER LEVEL ELEVATION (feet msl)
Lower Unit A Monitor Wells (continued)				
UA-15D	03/01/22	95.69	48.86	46.83
UA-15D	05/11/22	95.69	48.25	47.44
UA-15D	08/15/22	95.69	49.30	46.39
UA-15D	11/22/22	95.69	50.53	45.16
UA-16D	03/01/22	93.86	45.28	48.58
UA-16D	05/11/22	93.86	44.97	48.89
UA-16D	08/15/22	93.86	46.57	47.29
UA-16D	11/22/22	93.86	47.11	46.75
UA-17D	03/01/22	93.89	45.30	48.59
UA-17D	05/11/22	93.89	45.03	48.86
UA-17D	08/15/22	93.89	46.61	47.28
UA-17D	11/22/22	93.89	47.15	46.74
Lower Unit A Extraction Wells				
LAX-01	03/02/22	88.77	40.29	48.48
LAX-01	05/12/22	88.77	39.39	49.38
LAX-01	08/16/22	88.77	41.42	47.35
LAX-01	11/23/22	88.77	42.11	46.66
LAX-02	03/01/22	96.18	48.22	47.96
LAX-02	05/11/22	96.18	47.77	48.41
LAX-02	08/15/22	96.18	48.97	47.21
LAX-02	11/22/22	96.18	49.98	46.20
LAX-03	03/02/22	96.66	49.10	47.56
LAX-03	05/11/22	96.66	48.54	48.12
LAX-03	08/15/22	96.66	49.75	46.91
LAX-03	11/22/22	96.66	50.86	45.80
A/B Aquitard Monitor Wells				
AB-01	03/01/22	97.24	48.39	48.85
AB-01	05/11/22	97.24	48.00	49.24
AB-01	08/15/22	97.24	49.43	47.81
AB-01	11/22/22	97.24	50.23	47.01
AB-02	03/01/22	96.29	47.46	48.83
AB-02	05/11/22	96.29	46.99	49.30
AB-02	08/15/22	96.29	49.18	47.11
AB-02	11/22/22	96.29	47.21	49.08
AB-03	03/01/22	96.64	47.85	48.79
AB-03	05/11/22	96.64	47.38	49.26
AB-03	08/15/22	96.64	48.78	47.86
AB-03	11/22/22	96.64	49.65	46.99
AB-05	03/01/22	90.99	42.25	48.74
AB-05	05/11/22	90.99	42.05	48.94
AB-05	08/15/22	90.99	43.26	47.73
AB-05	11/22/22	90.99	44.08	46.91

TABLE 1
WATER LEVEL ELEVATION DATA

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (feet msl)	DEPTH TO WATER (feet bmp)	WATER LEVEL ELEVATION (feet msl)
A/B Aquitard Monitor Wells (continued)				
AB-06	03/01/22	93.67	44.91	48.76
AB-06	05/11/22	93.67	44.66	49.01
AB-06	08/15/22	93.67	46.40	47.27
AB-06	11/22/22	93.67	46.75	46.92
AB-07	03/01/22	90.62	42.85	47.77
AB-07	05/11/22	90.62	42.51	48.11
AB-07	08/15/22	90.62	44.08	46.54
AB-07	11/22/22	90.62	44.65	45.97
AB-08	03/01/22	93.92	45.53	48.39
AB-08	05/11/22	93.92	45.28	48.64
AB-08	08/15/22	93.92	46.91	47.01
AB-08	11/22/22	93.92	47.43	46.49
Unit B Monitor Wells				
UB-01	03/01/22	100.47	51.57	48.90
UB-01	05/11/22	100.47	51.30	49.17
UB-01	08/15/22	100.47	53.11	47.36
UB-01	11/22/22	100.47	53.66	46.81
UB-02	03/01/22	91.38	44.58	46.80
UB-02	05/11/22	91.38	44.44	46.94
UB-02	08/15/22	91.38	46.56	44.82
UB-02	11/22/22	91.38	46.57	44.81
UB-03	03/01/22	94.94	47.60	47.34
UB-03	05/11/22	94.94	47.49	47.45
UB-03	08/15/22	94.94	49.40	45.54
UB-03	11/22/22	94.94	49.70	45.24
UB-04	03/01/22	94.00	46.20	47.80
UB-04	05/11/22	94.00	46.13	47.87
UB-04	08/15/22	94.00	48.00	46.00
UB-04	11/22/22	94.00	48.30	45.70
UB-05	03/01/22	90.59	43.50	47.09
UB-05	05/11/22	90.59	43.61	46.98
UB-05	08/15/22	90.59	45.24	45.35
UB-05	11/22/22	90.59	45.53	45.06
UB-06	03/01/22	93.83	46.49	47.34
UB-06	05/11/22	93.83	46.34	47.49
UB-06	08/15/22	93.83	48.33	45.50
UB-06	11/22/22	93.83	48.55	45.28

TABLE 1
WATER LEVEL ELEVATION DATA

WELL IDENTIFIER	DATE MEASURED	MEASURING POINT ELEVATION (feet msl)	DEPTH TO WATER (feet bmp)	WATER LEVEL ELEVATION (feet msl)
Orange County Water District Test Wells				
36A6-255	03/01/22	92.09	45.42	46.67
36A6-255	05/11/22	92.09	45.29	46.80
36A6-255	08/15/22	92.09	47.32	44.77
36A6-255	11/22/22	92.09	47.49	44.60
36A6-855	03/01/22	92.09	85.97	6.12
36A6-855	05/11/22	92.09	91.71	0.38
36A6-855	08/15/22	92.09	100.35	-8.26
36A6-855	11/22/22	92.09	71.25	20.84

FOOTNOTES

msl = Mean sea level

bmp = Below measuring point

NM = Not measured; well inaccessible during monitoring event.

(1) = Monitor wells S-02, S-03, S-30, and S-32 inaccessible during select quarterly monitoring events due to nearby property re-development and construction activities.

(2) = Extraction well UAX-01 water level elevation not measured in August 2022 due to obstruction in sounding tube. Obstruction was cleared following monitoring event.

TABLE 2
TRICHLOROETHYLENE IN GROUNDWATER SAMPLES

WELL IDENTIFIER	SAMPLE DATE	QUALITY ASSURANCE CODE	CONCENTRATION (ug/l)
Shallow Zone Water Table Monitor Wells			
SE-01	08/17/22	ORG	3,800
S-02 ⁽¹⁾	--	--	NS
S-03 ⁽¹⁾	--	--	NS
S-04	08/16/22	ORG	2.0
S-05	08/16/22	ORG	<0.50
S-07	08/17/22	ORG	<0.50
S-08	08/17/22	ORG	1,000
S-21	08/17/22	ORG	<0.50
S-32	08/16/22	ORG	11
Deeper Shallow Zone Monitor Wells			
S-14	08/16/22	ORG	<4.0
S-15	08/17/22	ORG	0.66
S-18	08/16/22	ORG	<0.50
S-24	08/17/22	ORG	<0.50
S-24	08/17/22	FD	<0.50
S-26	08/17/22	ORG	<0.50
S-27	08/17/22	ORG	<0.50
S-29	08/17/22	ORG	<0.50
S-30	08/17/22	ORG	<0.50
S-31	08/17/22	ORG	<0.50
Shallow Zone Extraction Well			
SE-04	08/16/22	ORG	6.9
Shallow Zone Horizontal Extraction Wells			
HEW-01	03/02/22	ORG	780
HEW-01	03/02/22	FD	750
HEW-01	05/12/22	ORG	550
HEW-01	08/16/22	ORG	690
HEW-01	11/23/22	ORG	800
HEW-02	03/01/22	ORG	96
HEW-02	05/12/22	ORG	94
HEW-02	08/16/22	ORG	98
HEW-02	11/23/22	ORG	99
HEW-03	03/02/22	ORG	110
HEW-03	05/12/22	ORG	93
HEW-03	08/17/22	ORG	100
HEW-03	11/23/22	ORG	110
HEW-03	11/23/22	FD	100
HEW-04	03/02/22	ORG	90
HEW-04	05/12/22	ORG	72
HEW-04	08/16/22	ORG	73
HEW-04	11/23/22	ORG	81
HEW-05	03/01/22	ORG	130
HEW-05	05/12/22	ORG	110
HEW-05	08/16/22	ORG	100
HEW-05	08/16/22	FD	110
HEW-05	11/23/22	ORG	110

TABLE 2
TRICHLOROETHYLENE IN GROUNDWATER SAMPLES

WELL IDENTIFIER	SAMPLE DATE	QUALITY ASSURANCE CODE	CONCENTRATION (ug/l)
Upper Unit A Monitor Wells			
UA-02	08/17/22	ORG	0.82
UA-06	08/17/22	ORG	3.6
UA-07	08/17/22	ORG	1.1
UA-08	08/16/22	ORG	3.2
UA-08	08/16/22	FD	0.67
UA-11	08/17/22	ORG	2.2
UA-12	08/17/22	ORG	1.7
Upper Unit A Extraction Wells			
UAX-01	03/01/22	ORG	2.5
UAX-01	05/12/22	ORG	1.9
UAX-01	08/16/22	ORG	2.7
UAX-01	08/16/22	FD	2.7
UAX-01	11/23/22	ORG	2.9
UAX-02	03/01/22	ORG	4.5
UAX-02	05/12/22	ORG	4.2
UAX-02	05/12/22	FD	4.1
UAX-02	08/16/22	ORG	4.3
UAX-02	11/23/22	ORG	4.7
UAX-03	03/01/22	ORG	10
UAX-03	05/12/22	ORG	8.4
UAX-03	08/17/22	ORG	9.1
UAX-03	11/23/22	ORG	9.2
Lower Unit A Monitor Wells			
UA-04D	08/16/22	ORG	<0.50
UA-06D	08/17/22	ORG	<0.50
UA-07D	08/17/22	ORG	<0.50
UA-08D	08/16/22	ORG	0.70
UA-10D	08/16/22	ORG	<0.50
UA-11D	08/17/22	ORG	<0.50
UA-12D	08/17/22	ORG	<0.50
UA-13D	08/16/22	ORG	<0.50
UA-14D	08/16/22	ORG	0.69
UA-15D	08/17/22	ORG	<0.50
UA-16D	08/16/22	ORG	<0.50
UA-16D	08/16/22	FD	<0.50
UA-17D	08/16/22	ORG	<0.50
UA-17D	08/16/22	FD	<0.50
Lower Unit A Extraction Wells			
LAX-01	03/02/22	ORG	<0.50
LAX-01	05/12/22	ORG	<0.50
LAX-01	08/16/22	ORG	<0.50
LAX-01	11/23/22	ORG	<0.50
LAX-02	03/01/22	ORG	<0.50
LAX-02	05/12/22	ORG	0.32 J
LAX-02	08/17/22	ORG	<0.50
LAX-02	11/23/22	ORG	0.31 J
LAX-03	03/01/22	ORG	<0.50
LAX-03	05/12/22	ORG	0.28 J
LAX-03	08/16/22	ORG	<0.50
LAX-03	11/23/22	ORG	0.47 J
Unit A Injection Wells			
UAI-01	--	--	NS
UAI-02	--	--	NS
UAI-03	--	--	NS
UAI-04	--	--	NS
UAI-05	--	--	NS

TABLE 2
TRICHLOROETHYLENE IN GROUNDWATER SAMPLES

WELL IDENTIFIER	SAMPLE DATE	QUALITY ASSURANCE CODE	CONCENTRATION (ug/l)
A/B Aquitard Monitor Wells			
AB-01	08/17/22	ORG	<0.50
AB-02	08/17/22	ORG	13
AB-03	08/16/22	ORG	<0.50
AB-03	08/16/22	FD	<0.50
AB-05	08/16/22	ORG	<0.50
AB-06	08/16/22	ORG	<0.50
AB-07	08/16/22	ORG	2.6
AB-08	08/16/22	ORG	<0.50
Unit B Monitor Wells			
UB-01	08/16/22	ORG	<0.50
UB-02	08/16/22	ORG	<0.50
UB-03	08/17/22	ORG	0.89
UB-04	08/16/22	ORG	9.6
UB-05	08/16/22	ORG	<2.0
UB-06	08/16/22	ORG	2.7
Quality Assurance/Quality Control Samples			
TB-030122	03/01/22	TB	<0.50
TB-051222	05/12/22	TB	<0.50
TB-081622	08/16/22	TB	<0.50
TB-081722	08/17/22	TB	<0.50
TB-112322	11/23/22	TB	<0.50
RB-030122	03/01/22	RB	<0.50
RB-051222	05/12/22	RB	<0.50
RB-081622A	08/16/22	RB	<0.50
RB-081622B	08/16/22	RB	<0.50
RB-081722A	08/17/22	RB	<0.50
RB-081722B	08/17/22	RB	<0.50
RB-112322	11/23/22	RB	<0.50

FOOTNOTES

- (<) = Less than; numerical value is the Reporting Limit for Trichloroethylene
- FD = Field duplicate sample
- NS = Not sampled
- ORG = Original sample
- RB = Rinsate blank sample
- TB = Trip blank sample
- ug/l = Micrograms per liter
- J = Estimated value; detected at less than the Reporting Limit and greater than or equal to the Method Detection Limit
- (1) = Monitor wells S-02 and S-03 inaccessible during August 2022 monitoring event due to property re-development and construction activities.

TABLE 3

OTHER VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER SAMPLES

WELL IDENTIFIER	SAMPLE DATE	QUALITY ASSURANCE CODE	COMPOUND	CONCENTRATION (ug/l)
Shallow Zone Water Table Monitor Wells				
SE-01	08/17/22	ORG	Chloroform	2.8
SE-01	08/17/22	ORG	cis-1,2-Dichloroethylene	2.9
SE-01	08/17/22	ORG	Tetrachloroethylene	86
S-08	08/17/22	ORG	Chloroform	1.0
S-08	08/17/22	ORG	cis-1,2-Dichloroethylene	0.68
S-08	08/17/22	ORG	Tetrachloroethylene	42
S-21	08/17/22	ORG	Chloroform	0.53
Deeper Shallow Zone Monitor Wells				
S-30	08/17/22	ORG	Tetrachloroethylene	1.5
Shallow Zone Extraction Well				
SE-04	08/16/22	ORG	cis-1,2-Dichloroethylene	0.78
Shallow Zone Horizontal Extraction Wells				
HEW-01	03/02/22	ORG	1,4-Dioxane	2.4
HEW-01	03/02/22	FD	1,4-Dioxane	1.7
HEW-01	03/02/22	ORG	Tetrachloroethylene	10
HEW-01	05/12/22	ORG	1,4-Dioxane	2.5
HEW-01	05/12/22	ORG	Tetrachloroethylene	6.8
HEW-01	08/16/22	ORG	1,1-Dichloroethylene	2.1
HEW-01	08/16/22	ORG	1,4-Dioxane	1.7
HEW-01	08/16/22	ORG	Tetrachloroethylene	12
HEW-01	11/23/22	ORG	1,1-Dichloroethylene	2.1 J
HEW-01	11/23/22	ORG	1,4-Dioxane	1.4
HEW-01	11/23/22	ORG	Tetrachloroethylene	12
HEW-02	08/16/22	ORG	1,4-Dioxane	0.62

TABLE 3

OTHER VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER SAMPLES

WELL IDENTIFIER	SAMPLE DATE	QUALITY ASSURANCE CODE	COMPOUND	CONCENTRATION (ug/l)
Shallow Zone Horizontal Extraction Wells (continued)				
HEW-03	03/02/22	ORG	1,4-Dioxane	1.5
HEW-03	03/02/22	ORG	Tetrachloroethylene	2.2
HEW-03	05/12/22	ORG	Tetrachloroethylene	1.8 J
HEW-03	08/17/22	ORG	Tetrachloroethylene	2.1
HEW-03	11/23/22	ORG	1,1-Dichloroethylene	0.48 J
HEW-03	11/23/22	FD	1,1-Dichloroethylene	0.45 J
HEW-03	11/23/22	ORG	Tetrachloroethylene	2.5
HEW-03	11/23/22	FD	Tetrachloroethylene	2.4
HEW-03	11/23/22	FD	1,4-Dioxane	0.56
HEW-04	03/02/22	ORG	1,4-Dioxane	8.4
HEW-04	05/12/22	ORG	1,1-Dichloroethylene	1.3 J
HEW-04	05/12/22	ORG	1,4-Dioxane	8.9
HEW-04	05/12/22	ORG	Tetrachloroethylene	0.91 J
HEW-04	08/16/22	ORG	1,1-Dichloroethylene	1.3
HEW-04	08/16/22	ORG	1,4-Dioxane	7.5
HEW-04	08/16/22	ORG	cis-1,2-Dichloroethylene	0.58
HEW-04	08/16/22	ORG	Tetrachloroethylene	1.3
HEW-04	11/23/22	ORG	1,1-Dichloroethane	0.25 J
HEW-04	11/23/22	ORG	1,1-Dichloroethylene	1.3
HEW-04	11/23/22	ORG	1,4-Dioxane	8.2
HEW-04	11/23/22	ORG	cis-1,2-Dichloroethylene	0.47 J
HEW-04	11/23/22	ORG	Tetrachloroethylene	1.3
HEW-05	03/01/22	ORG	cis-1,2-Dichloroethylene	7.2
HEW-05	05/12/22	ORG	cis-1,2-Dichloroethylene	2.5
HEW-05	08/16/22	ORG	cis-1,2-Dichloroethylene	2.6
HEW-05	08/16/22	FD	cis-1,2-Dichloroethylene	4.6
HEW-05	11/23/22	ORG	1,1-Dichloroethylene	0.55 J
HEW-05	11/23/22	ORG	cis-1,2-Dichloroethylene	8.7
Upper Unit A Monitor Wells				
UA-06	08/17/22	ORG	Tetrachloroethylene	1.2
UA-07	08/17/22	ORG	1,1-Dichloroethane	3.3
UA-11	08/17/22	ORG	Tetrachloroethylene	6.0
UA-12	08/17/22	ORG	Tetrachloroethylene	0.74

TABLE 3

OTHER VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER SAMPLES

WELL IDENTIFIER	SAMPLE DATE	QUALITY ASSURANCE CODE	COMPOUND	CONCENTRATION (ug/l)
Upper Unit A Extraction Wells				
UAX-01	03/01/22	ORG	1,1-Dichloroethylene	2.0
UAX-01	05/12/22	ORG	1,1-Dichloroethylene	1.7 F1, F2
UAX-01	05/12/22	ORG	1,4-Dioxane	0.99
UAX-01	08/16/22	ORG	1,1-Dichloroethylene	1.6
UAX-01	08/16/22	FD	1,1-Dichloroethylene	1.5
UAX-01	08/16/22	FD	1,4-Dioxane	0.67
UAX-01	11/23/22	ORG	1,1-Dichloroethylene	2.3
UAX-02	03/01/22	ORG	1,1-Dichloroethylene	3.6
UAX-02	03/01/22	ORG	1,4-Dioxane	1.9
UAX-02	05/12/22	ORG	1,1-Dichloroethylene	4.1
UAX-02	05/12/22	FD	1,1-Dichloroethylene	3.8
UAX-02	05/12/22	ORG	1,4-Dioxane	1.7
UAX-02	05/12/22	FD	1,4-Dioxane	2.0
UAX-02	08/16/22	ORG	1,1-Dichloroethylene	1.3
UAX-02	08/16/22	ORG	1,4-Dioxane	1.5
UAX-02	11/23/22	ORG	1,1-Dichloroethylene	4.0
UAX-02	11/23/22	ORG	1,4-Dioxane	1.4
UAX-03	03/01/22	ORG	1,1-Dichloroethylene	0.65
UAX-03	05/12/22	ORG	1,1-Dichloroethylene	0.69
UAX-03	08/17/22	ORG	1,1-Dichloroethylene	0.53
UAX-03	11/23/22	ORG	1,1-Dichloroethylene	0.56
Lower Unit A Monitor Wells				
UA-06D	08/17/22	ORG	Tetrachloroethylene	2.9
UA-07D	08/17/22	ORG	Tetrachloroethylene	0.72
UA-10D	08/16/22	ORG	Tetrachloroethylene	7.8
UA-11D	08/17/22	ORG	Tetrachloroethylene	0.89
UA-12D	08/17/22	ORG	Tetrachloroethylene	0.76
UA-14D	08/16/22	ORG	Tetrachloroethylene	35
UA-17D	08/16/22	ORG	Methyl-t-Butyl Ether (MTBE)	1.5
UA-17D	08/16/22	FD	Methyl-t-Butyl Ether (MTBE)	1.6

TABLE 3

**OTHER VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER SAMPLES**

WELL IDENTIFIER	SAMPLE DATE	QUALITY ASSURANCE CODE	COMPOUND	CONCENTRATION (ug/l)
A/B Aquitard Monitor Wells				
AB-02	08/17/22	ORG	cis-1,2-Dichloroethylene	7.3
AB-02	08/17/22	ORG	Tetrachloroethylene	1.4
AB-02	08/17/22	ORG	trans-1,2-Dichloroethylene	18
AB-06	08/16/22	ORG	cis-1,2-Dichloroethylene	3.6
AB-07	08/16/22	ORG	cis-1,2-Dichloroethylene	2.6
AB-07	08/16/22	ORG	Tetrachloroethylene	5.4
AB-07	08/16/22	ORG	trans-1,2-Dichloroethylene	2.3
AB-08	08/16/22	ORG	cis-1,2-Dichloroethylene	1.6
Unit B Monitor Wells				
UB-03	08/17/22	ORG	cis-1,2-Dichloroethylene	4.3
UB-03	08/17/22	ORG	Tetrachloroethylene	1.1
UB-03	08/17/22	ORG	trans-1,2-Dichloroethylene	7.2
UB-04	08/16/22	ORG	cis-1,2-Dichloroethylene	2.0
UB-04	08/16/22	ORG	Tetrachloroethylene	0.58
UB-04	08/16/22	ORG	trans-1,2-Dichloroethylene	3.4

FOOTNOTES

- FD = Field duplicate sample
- ORG = Original sample
- ug/l = Micrograms per liter
- J = Estimated value; detected at less than the Reporting Limit and greater than or equal to the Method Detection Limit
- F1 = MS and/or MSD recovery exceeds control limits
- F2 = MS/MSD RPD exceeds control limits

TABLE 4
SYSTEM CALCULATIONS
SOIL VAPOR EXTRACTION (SVE) SYSTEM

Sample Date	Volume Soil Gas Extracted				Mass Removed			
	Average Flowrate		Hours Operated	Volume Air Extracted	Monthly Mass of Total VOCs Removed	Cumulative Mass of Total VOCs Removed	Monthly Mass TCE Removed	Cumulative Mass TCE Removed
	scfm	m ³ /hr						
12/03/14	60.0	101.9	168.4	17,166.8	1.3	1.3	1.1	1.1
04/30/15	60.0	101.9	29.9	3,048.0	1.0	2.4	0.9	2.0
05/14/15	67.0	113.8	696.6	79,296.5	25.0	27.4	22.5	24.5
06/25/15	25.0	42.5	683.5	29,031.8	21.6	48.9	19.9	44.4
07/23/15	25.0	42.5	669.0	28,415.9	13.6	62.6	12.4	56.9
11/12/15	128.1	217.7	340.0	74,023.4	36.7	99.2	34.2	91.0
12/17/15	141.6	240.6	517.0	124,379.8	24.3	123.5	23.6	114.6
01/21/16	141.0	239.6	168.4	40,342.0	2.5	126.0	2.3	116.9
02/18/16	96.0	163.1	390.6	63,708.8	3.2	129.2	3.0	120.0
03/17/16	113.2	192.3	583.1	112,113.4	5.6	134.8	5.2	125.1
04/21/16	150.0	254.9	669.4	170,597.6	10.1	144.9	9.5	134.6
05/19/16	166.8	283.3	668.2	189,307.7	6.7	151.6	6.5	141.1
06/23/16	133.4	226.6	509.7	115,522.5	3.4	154.9	3.3	144.4
07/21/16	159.0	270.1	673.6	181,968.0	3.4	158.3	3.2	147.6
08/18/16	153.8	261.2	671.3	175,358.9	3.8	162.1	3.5	151.2
09/15/16	150.0	254.9	672.6	171,413.1	2.9	165.0	2.8	154.0
10/06/16	151.8	257.8	188.0	48,471.1	3.7	168.7	0.6	154.6
11/17/16	155.5	264.2	458.0	121,001.8	2.3	171.0	2.1	156.8
12/08/16	139.8	237.5	887.0	210,681.7	2.1	173.1	1.9	158.7
01/19/17	142.5	242.1	528.0	127,833.5	1.3	174.3	1.2	159.9
02/09/17	147.5	250.6	490.0	122,795.9	1.5	175.9	1.5	161.3
03/09/17	141.4	240.2	683.0	164,083.9	1.7	177.5	1.6	162.9
04/13/17	137.5	233.6	694.0	162,128.0	2.0	179.5	1.9	164.9
05/18/17	141.3	240.0	672.0	161,270.0	1.8	181.3	1.7	166.6
06/15/17	141.0	239.6	846.0	202,668.1	2.0	183.3	1.9	168.5
07/27/17	150.0	254.9	164.4	41,897.6	0.7	184.0	0.6	169.2
08/09/17	133.0	226.0	835.5	188,796.5	1.4	185.5	1.3	170.5
09/20/17	130.0	220.9	600.2	132,567.0	1.2	186.6	1.1	171.6
10/19/17	130.0	220.9	717.9	158,563.5	1.4	188.0	1.3	172.9
11/16/17	128.0	217.5	750.0	163,105.0	0.7	188.7	0.6	173.5
12/14/17	113.0	192.0	542.2	104,096.0	0.5	189.2	0.4	173.9
01/18/18	125.0	212.4	664.8	141,187.7	0.6	189.7	0.5	174.5
02/15/18	99.5	169.1	499.0	84,356.7	0.3	190.0	0.3	174.7
03/22/18	97.8	166.2	665.9	110,648.1	0.4	190.5	0.4	175.1
04/12/18	108.0	183.5	683.0	125,325.8	0.6	191.1	0.6	175.7
05/10/18	112.0	190.3	688.5	131,014.1	0.6	191.7	0.6	176.3
06/14/18	103.8	176.3	670.5	118,190.6	0.4	192.1	0.4	176.6
07/12/18	102.6	174.3	604.5	105,375.5	0.4	192.5	0.4	177.0
08/09/18	99.0	168.2	843.5	141,878.4	0.5	193.0	0.5	177.5
09/20/18	98.6	167.5	667.0	111,737.4	0.5	193.5	0.5	178.0
10/11/18	106.6	181.1	671.0	121,527.8	0.5	194.0	0.5	178.5
11/01/18	99.7	169.3	830.7	140,666.3	0.5	194.6	0.5	179.0
12/06/18	98.6	167.5	654.4	109,626.6	0.2	194.8	0.2	179.2
01/03/19	106.5	180.9	616.8	111,606.6	0.2	195.0	0.2	179.4
02/14/19	98.5	167.4	551.1	92,228.0	0.2	195.2	0.2	179.6
03/14/19	91.0	154.6	531.5	82,175.2	0.3	195.4	0.2	179.8
04/25/19	104.0	176.7	649.0	114,676.4	0.5	196.0	0.5	180.3
05/16/19	121.4	206.3	842.2	173,712.0	0.9	196.9	0.9	181.2
06/20/19	111.0	188.6	669.0	126,166.8	0.6	197.5	0.6	181.8
07/11/19	107.0	181.8	672.9	122,329.2	0.7	198.2	0.7	182.5
08/08/19	109.4	185.9	839.7	156,076.5	0.7	198.9	0.7	183.1
09/12/19	109.5	186.0	665.6	123,829.3	0.5	199.4	0.5	183.6
10/17/19	107.2	182.1	838.2	152,664.6	0.6	199.9	0.5	184.1
11/14/19	102.5	174.1	629.9	109,696.2	0.3	200.2	0.2	184.4
12/12/19	104.0	176.7	370.5	65,466.3	0.2	200.4	0.2	184.6

TABLE 4

SYSTEM CALCULATIONS
SOIL VAPOR EXTRACTION (SVE) SYSTEM

Sample Date	Volume Soil Gas Extracted				Mass Removed			
	Average Flowrate		Hours Operated	Volume Air Extracted	Monthly Mass of Total VOCs Removed	Cumulative Mass of Total VOCs Removed	Monthly Mass TCE Removed	Cumulative Mass TCE Removed
	scfm	m ³ /hr						
01/16/20	100.0	169.9	810.9	137,772.7	0.2	200.6	0.2	184.7
02/13/20	98.0	166.5	575.9	95,889.1	0.2	200.8	0.2	184.9
03/19/20	102.3	173.9	476.3	82,812.1	0.3	201.1	0.3	185.2
04/02/20	101.4	172.3	841.6	144,990.5	0.4	201.5	0.4	185.6
05/14/20	101.8	172.9	670.4	115,894.9	0.4	201.8	0.4	185.9
06/04/20	101.8	172.9	671.8	116,136.9	0.3	202.2	0.3	186.2
07/09/20	101.2	171.9	836.0	143,741.7	0.5	202.6	0.4	186.7
08/06/20	101.3	172.0	672.7	115,721.1	0.4	203.0	0.4	187.0
09/10/20	102.0	173.3	605.0	104,845.9	0.4	203.4	0.4	187.4
10/08/20	100.6	170.9	840.0	143,573.1	0.5	204.0	0.5	187.9
11/05/20	94.0	159.7	768.9	122,798.7	0.4	204.4	0.4	188.3
12/10/20	101.4	172.3	632.9	109,035.8	0.3	204.6	0.2	188.5
01/14/21	105.8	179.8	744.8	133,881.7	0.4	205.0	0.4	188.9
02/11/21	105.0	178.4	667.7	119,115.0	0.3	205.3	0.3	189.2
03/11/21	106.8	181.4	670.0	121,517.4	0.4	205.7	0.4	189.6
04/15/21	106.4	180.8	839.0	151,669.9	0.4	206.1	0.4	190.0
05/13/21	107.5	182.6	659.3	120,416.9	0.3	206.4	0.3	190.2
06/10/21	106.0	180.1	668.6	120,411.6	0.3	206.7	0.3	190.5
07/08/21	105.2	178.7	840.7	150,263.2	0.3	207.0	0.3	190.8
08/12/21	105.8	179.7	671.0	120,558.8	0.3	207.3	0.3	191.1
09/09/21	104.8	178.1	838.7	149,335.8	0.3	207.6	0.3	191.4
10/14/21	105.2	178.7	655.6	117,179.2	0.2	207.9	0.2	191.6
11/11/21	106.6	181.1	795.4	144,058.4	0.3	208.1	0.2	191.9
12/09/21	105.2	178.7	665.3	118,913.0	0.2	208.3	0.2	192.0
01/13/22	106.6	181.1	717.1	129,877.2	0.3	208.6	0.3	192.3
02/10/22	107.5	182.6	631.9	115,412.5	0.3	208.9	0.2	192.5
03/10/22	107.0	181.8	832.7	151,379.9	0.2	209.1	0.2	192.7
04/14/22	109.3	185.6	670.2	124,400.4	0.3	209.4	0.2	193.0
05/12/22	111.5	189.4	675.6	127,985.4	0.2	209.6	0.2	193.1
06/09/22	110.8	188.3	834.3	157,057.2	0.1	209.6	0.1	193.2
07/14/22	108.8	184.8	661.0	122,131.2	0.2	209.8	0.2	193.4
08/04/22	108.3	183.9	651.5	119,822.5	0.2	210.1	0.2	193.6
09/08/22	86.8	147.5	683.1	100,739.5	0.0	210.1	0.2	193.8
10/13/22	0.0	0.0	0.0	0.0	0.0	210.1	0.0	193.8
11/10/22	0.0	0.0	0.0	0.0	0.0	210.1	0.0	193.8
12/08/22	0.0	0.0	0.0	0.0	0.0	210.1	0.0	193.8

FOOTNOTES

- scfm = Standard cubic feet per minute
- m³/hr = Cubic meter per hour
- lb = Pound
- VOCs = Volatile organic compounds
- TCE = Trichloroethylene

FIGURES

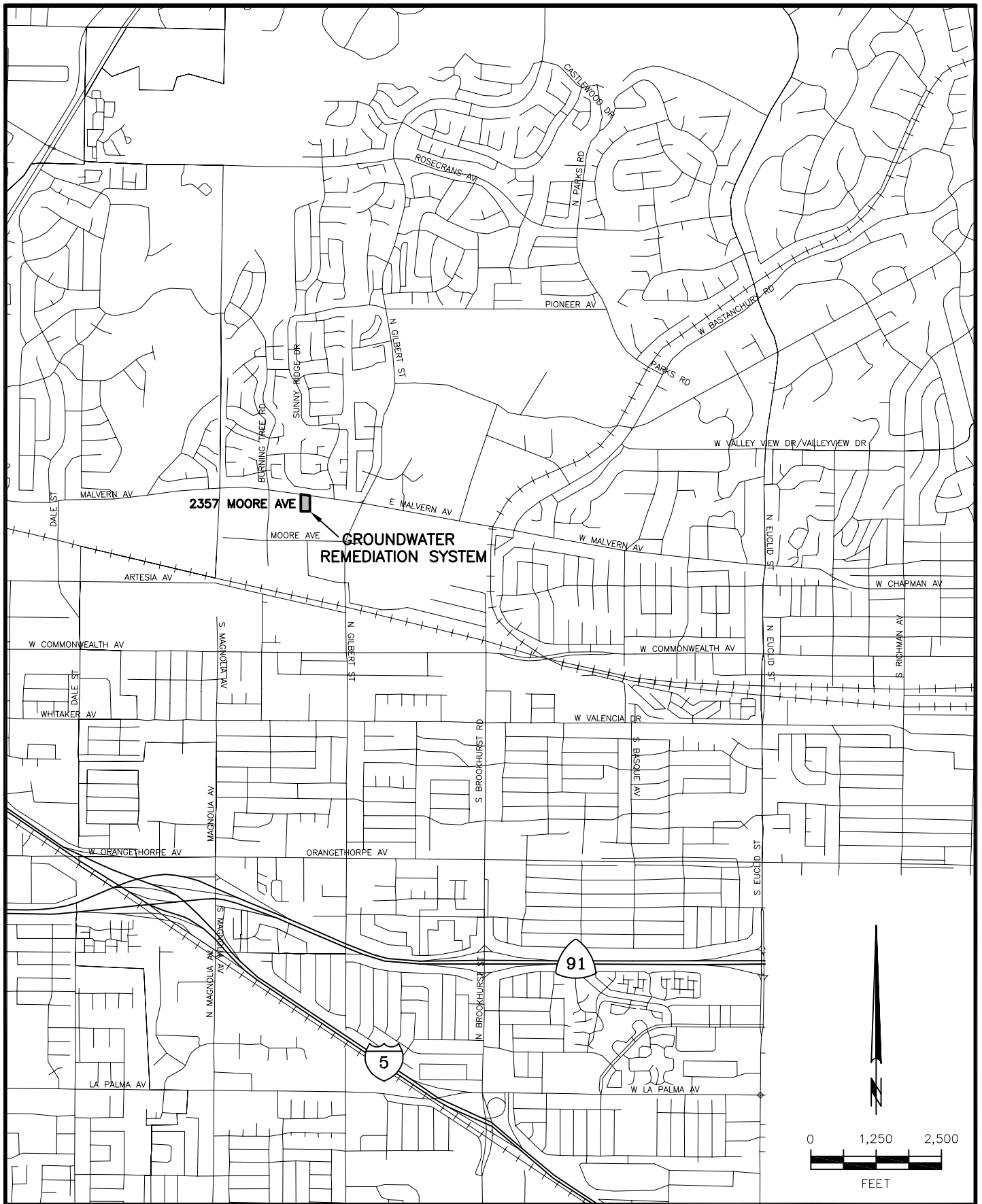
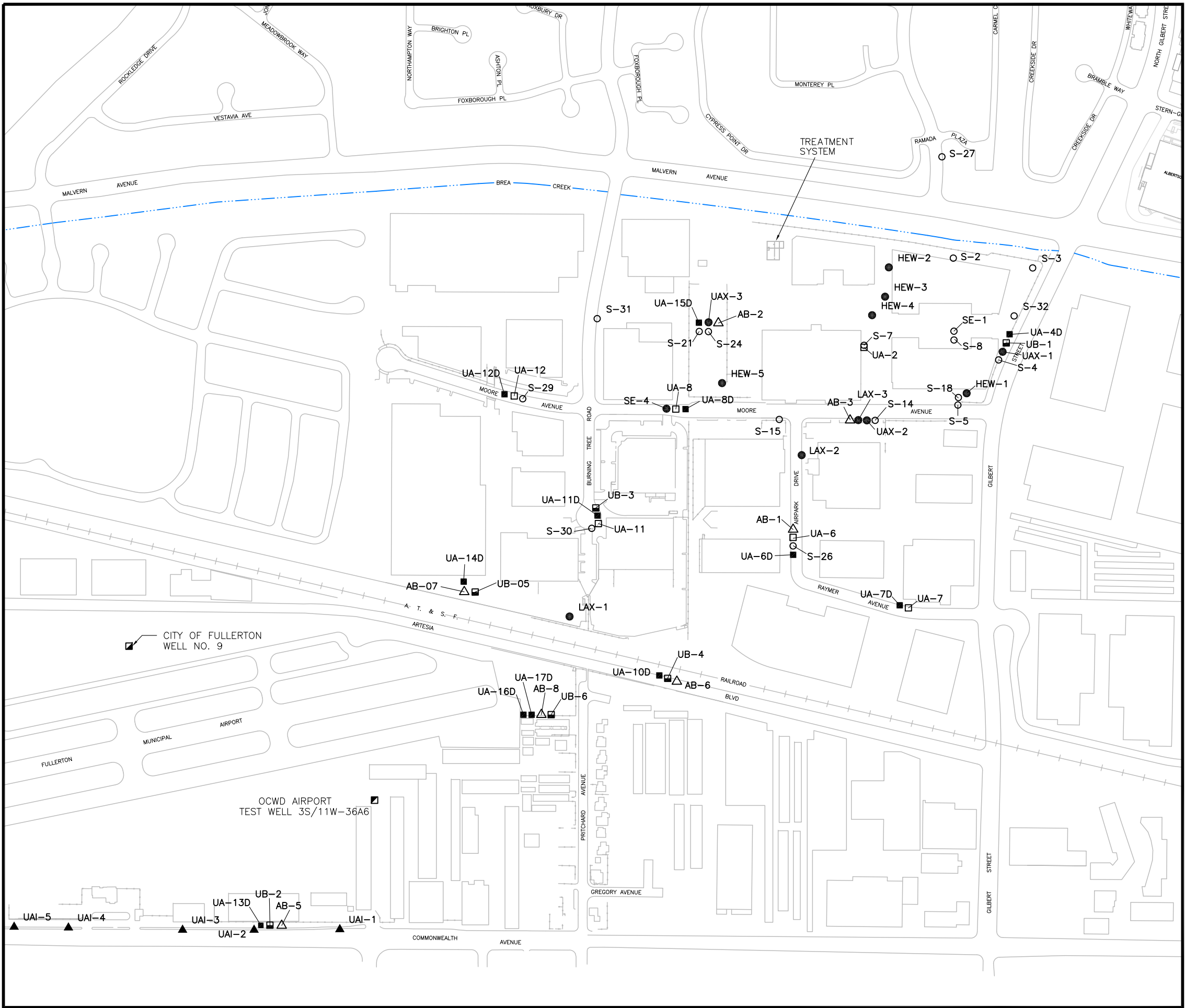


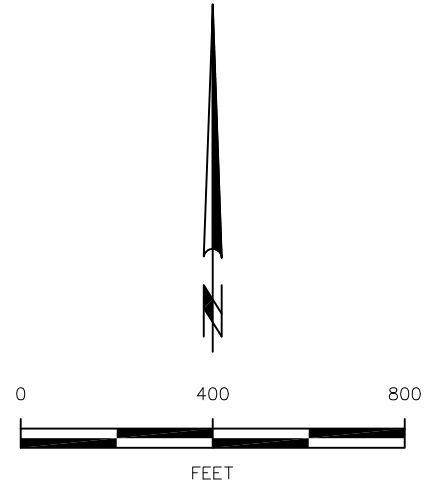
FIGURE 1. SITE LOCATION

Mar 13, 2020 - 1:02pm ADH - \\SAN DIEGO-FS01\dfs\sandiego\h+A\GRAPHIC-FILES\2020\700-799\764 Raytheon\Hydrogeology\H+A\Basemaps\410-10217.dwg



EXPLANATION

- S-29 APPROXIMATE LOCATION OF SHALLOW ZONE MONITOR WELL
- HEW-1 APPROXIMATE LOCATION OF EXTRACTION WELL FOR REMEDIATION SYSTEM
- UA-12 APPROXIMATE LOCATION OF UPPER UNIT A MONITOR WELL
- UA-12D APPROXIMATE LOCATION OF LOWER UNIT A MONITOR WELL
- ▲ UAI-2 APPROXIMATE LOCATION OF UNIT A INJECTION WELL
- △ AB-7 APPROXIMATE LOCATION OF A/B AQUITARD MONITOR WELL
- UB-3 APPROXIMATE LOCATION OF UNIT B MONITOR WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- AT & SF RAILROAD



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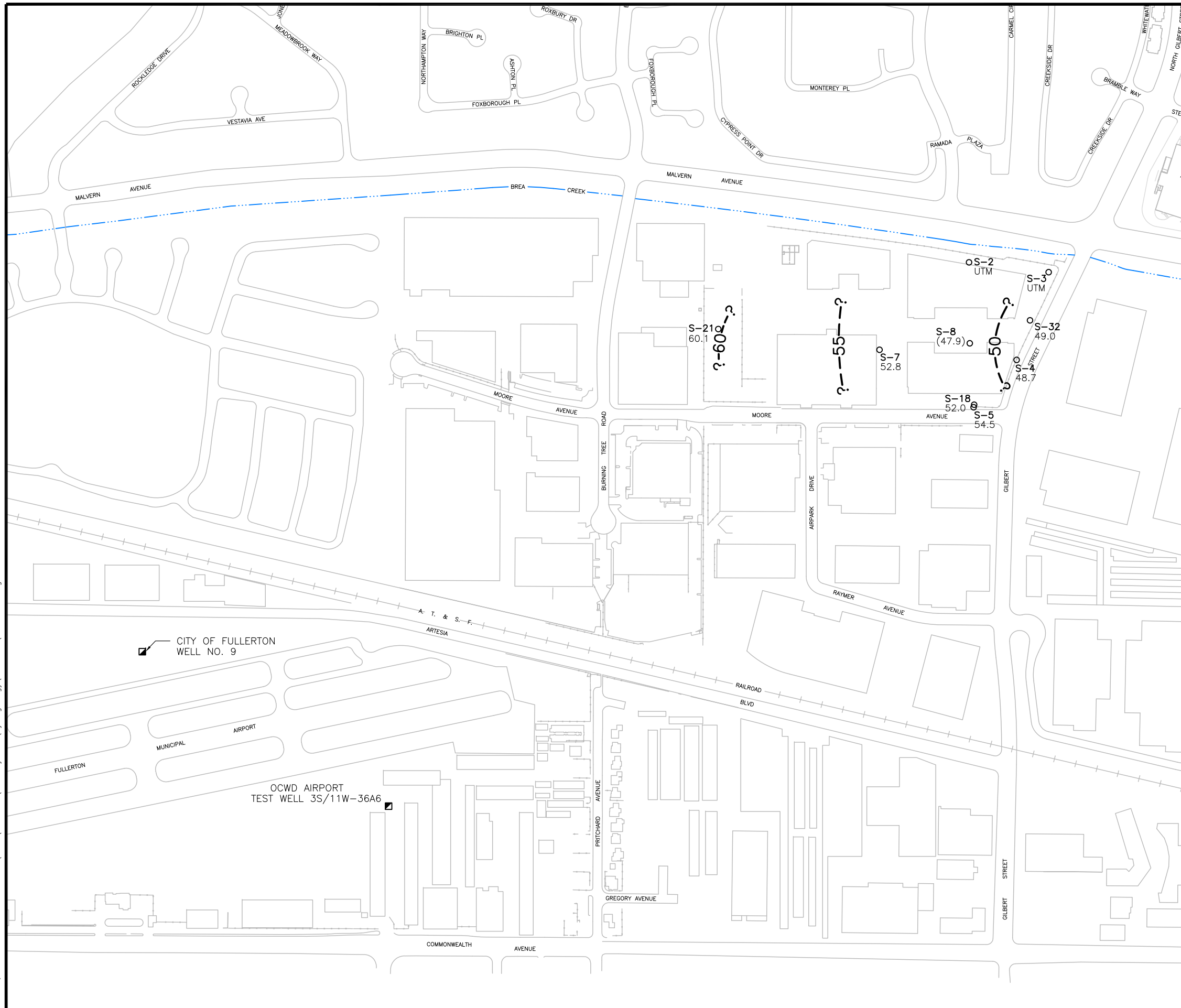
WELL LOCATIONS

HARGIS+ASSOCIATES, INC Hydrogeology/Engineering 03/20

FIGURE 2

PREP BY TJE REV BY KRP RPT NO. 764.11 410-10217 A

Feb 23, 2023 10:50am ESS - I: \2022\700-799\764 Raytheon\Hydrogeology\Water Lvl\220-2583.dwg

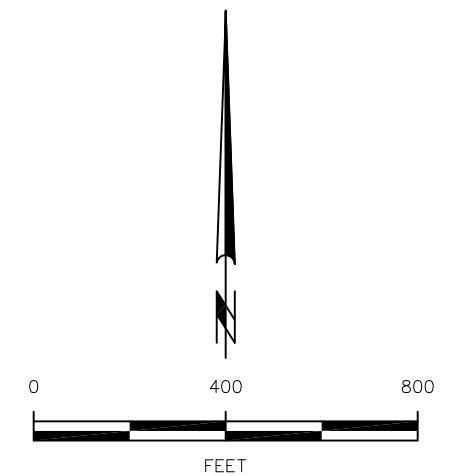


EXPLANATION

- S-7 APPROXIMATE LOCATION OF SHALLOW ZONE WATER TABLE MONITOR WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- S-32 WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
- (47.9) WATER LEVEL NOT CONTOURED
- UTM UNABLE TO MEASURE
- +—+—+—+— AT & SF RAILROAD

? ——— 50 ——— —? —? —?
 CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
 DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

NOTE: WATER LEVELS MEASURED AUGUST 15, 2022



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WATER LEVEL ELEVATIONS SHALLOW ZONE WATER TABLE AUGUST 2022



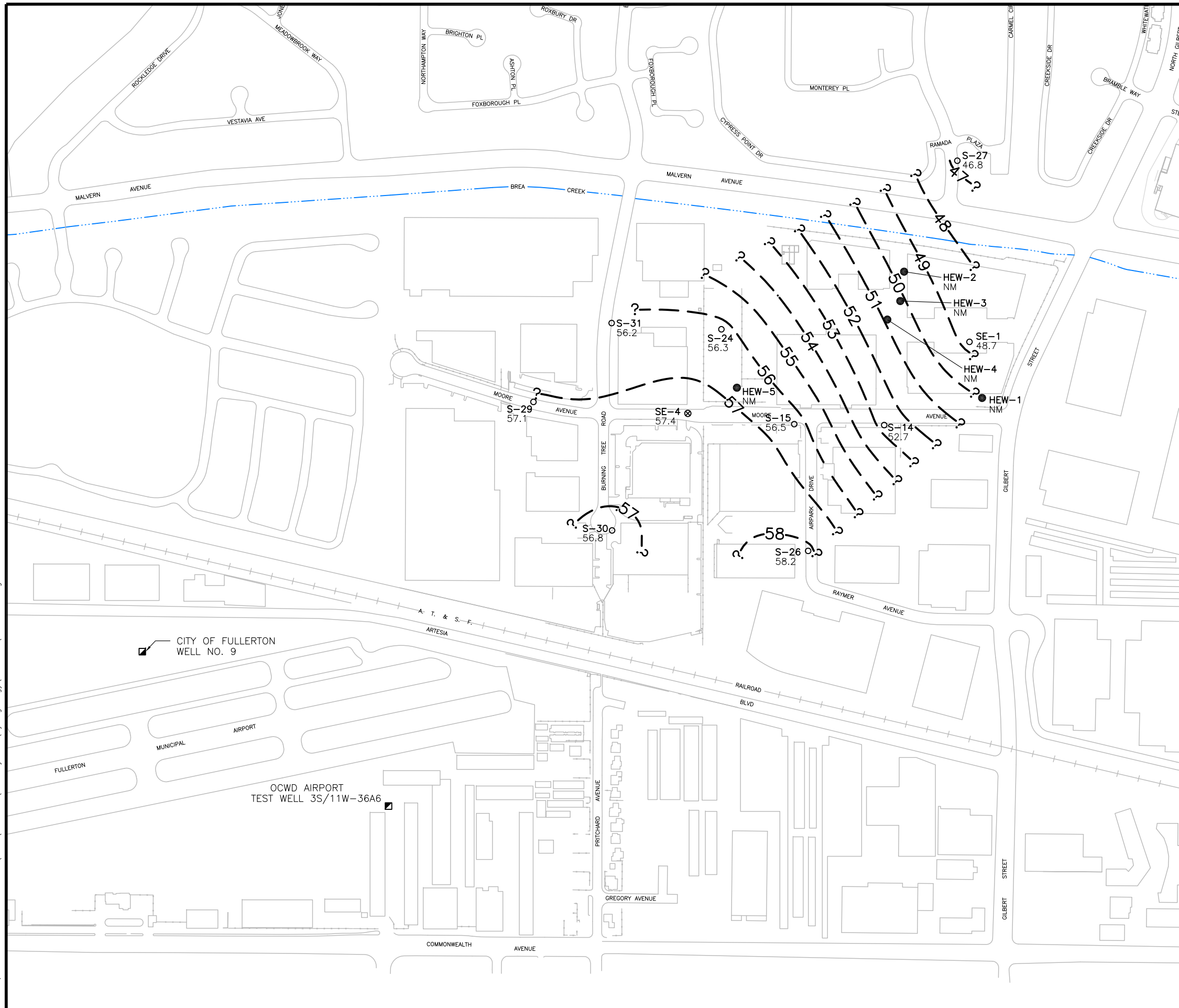
HARGIS+ASSOCIATES, INC.
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02/23

FIGURE 3

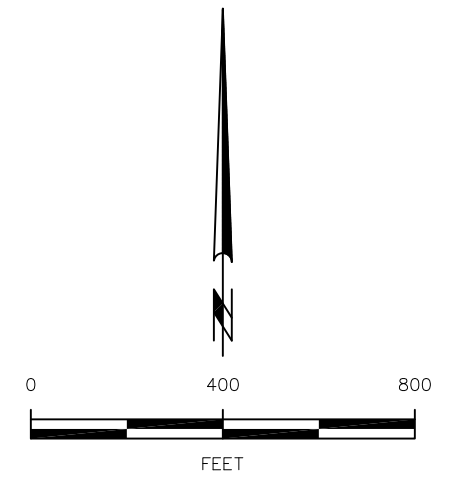
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Feb 23, 2023 10:51am ESS - T: \2022\700-799\764 Raytheon\Hydrogeology\Water_Lvl\220-2584.dwg



EXPLANATION

- S-29 APPROXIMATE LOCATION OF DEEPER SHALLOW ZONE MONITOR WELL
 - HEW-1 APPROXIMATE LOCATION OF SHALLOW ZONE HORIZONTAL EXTRACTION WELL
 - ⊗ SE-4 APPROXIMATE LOCATION OF DEEPER SHALLOW ZONE HORIZONTAL EXTRACTION WELL
 - CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
 - ▣ OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
 - S-27 46.8 WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
 - NM NOT MEASURED
 - +—+—+— AT & SF RAILROAD
 - ? ——— 50 ——— -? CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED
- NOTE: WATER LEVELS MEASURED AUGUST 15, 2022



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WATER LEVEL ELEVATIONS DEEPER SHALLOW ZONE AUGUST 2022


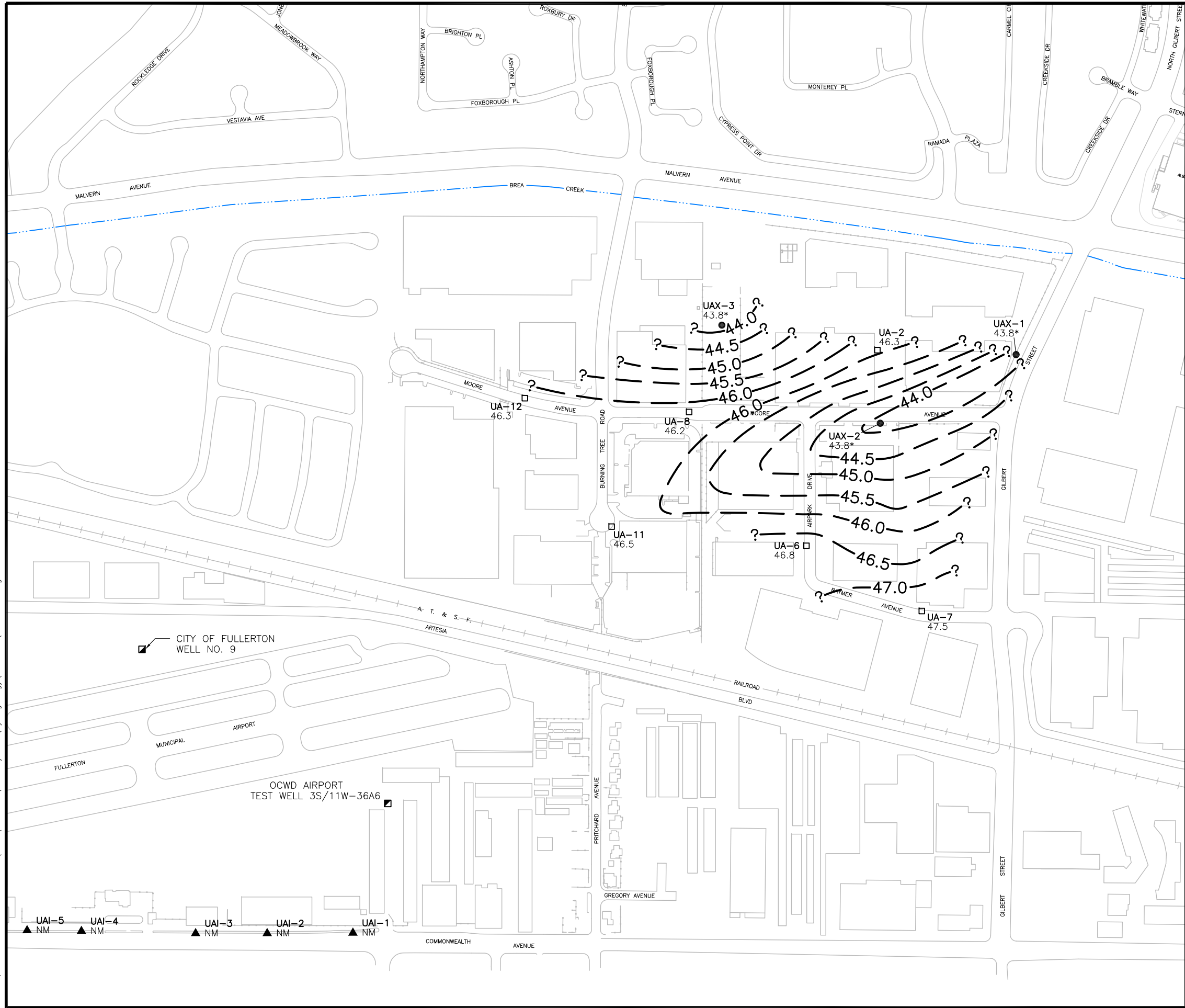
 **HARGIS+ASSOCIATES, INC.** 02/23
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FIGURE 4

PREP BY RA REV BY DJS RPT NO. 764.11 220-2584 A

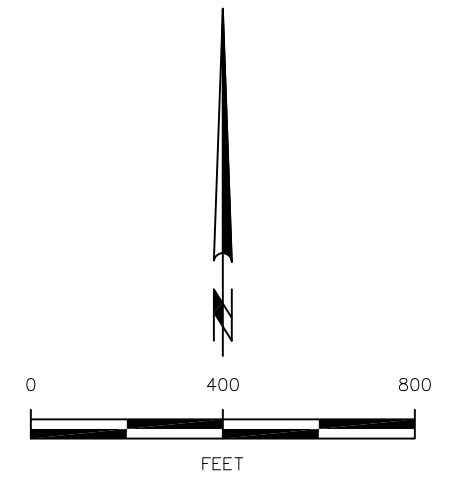
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EXPLANATION

- UA-12 APPROXIMATE LOCATION OF UPPER UNIT A MONITOR WELL
- UAX-3 APPROXIMATE LOCATION OF UPPER UNIT A EXTRACTION WELL
- ▲ UAI-2 APPROXIMATE LOCATION OF UNIT A INJECTION WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- UA-12 46.3 WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
- 43.8* WATER LEVEL ELEVATION ESTIMATED
- NM NOT MEASURED
- AT & SF RAILROAD
- ? — 46.0 — — — — ? CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

NOTE: WATER LEVELS MEASURED AUGUST 15, 2022



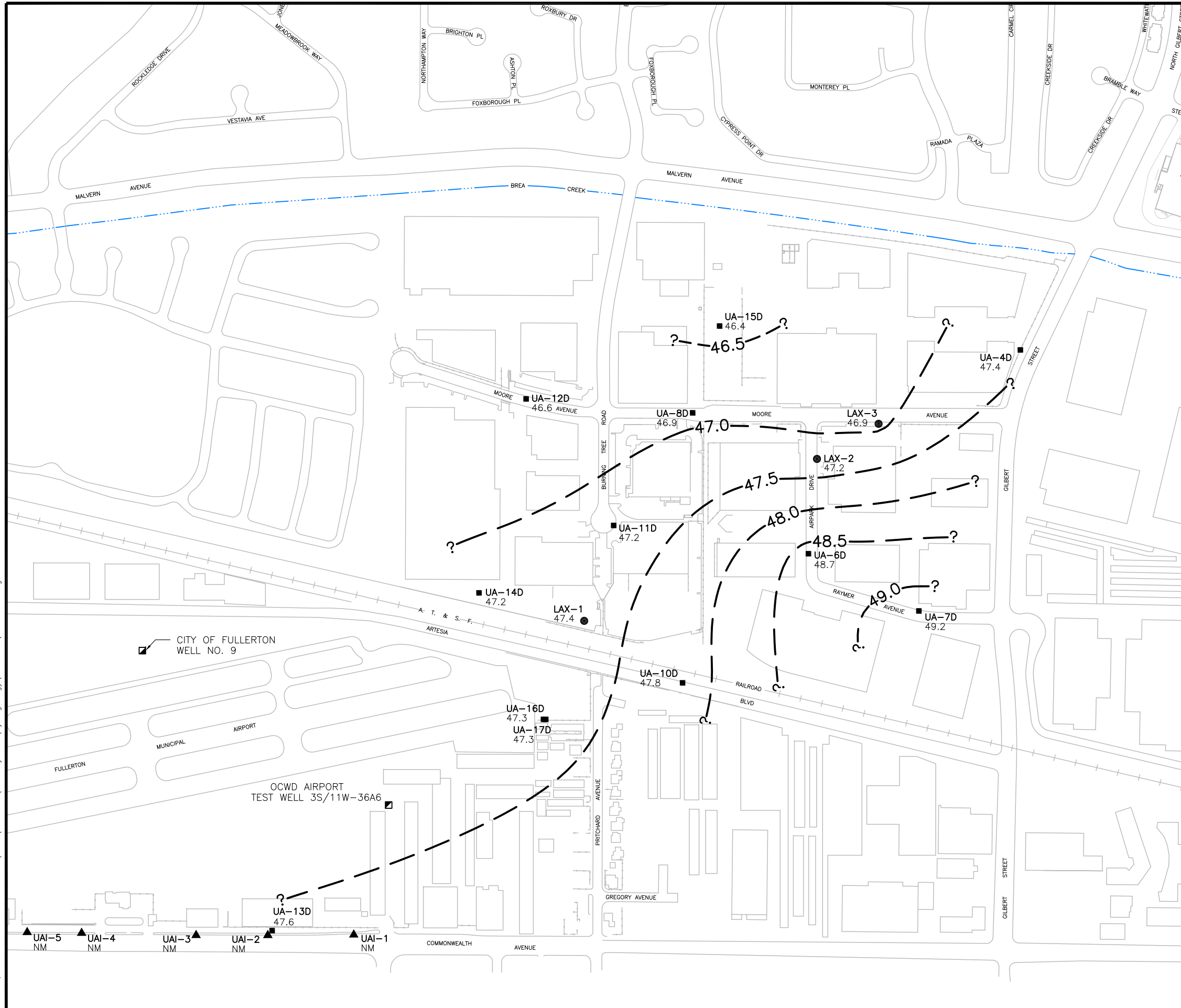
RAYTHEON COMPANY
FULLERTON, CALIFORNIA

**WATER LEVEL ELEVATIONS
UPPER UNIT A
AUGUST 2022**

 **HARGIS+ASSOCIATES, INC.** 02/23
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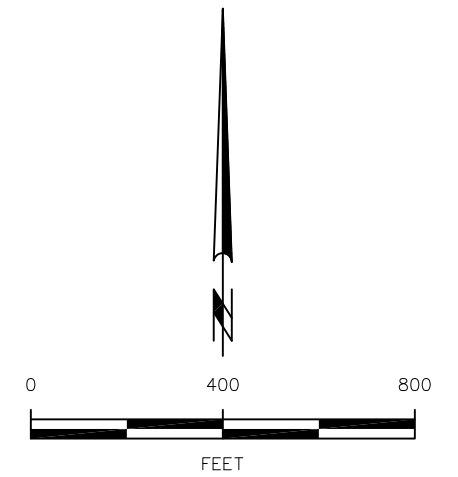
FIGURE 5

Feb 23, 2023 10:53am ESS - I: \2022\700-799\764 Raytheon\Hydrogeology\Water Lvl\220-2586.dwg



EXPLANATION

- UA-6D APPROXIMATE LOCATION OF LOWER UNIT A MONITOR WELL
 - ▲ UAI-2 APPROXIMATE LOCATION OF UNIT A INJECTION WELL
 - LAX-2 APPROXIMATE LOCATION OF LOWER UNIT A EXTRACTION WELL
 - CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
 - OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
 - UA-6D 48.7 WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
 - NM NOT MEASURED
 - +—+—+— AT & SF RAILROAD
 - ? ——— 47.0 ——— ——— ?
 CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
 DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED
- NOTE: WATER LEVELS MEASURED AUGUST 15, 2022

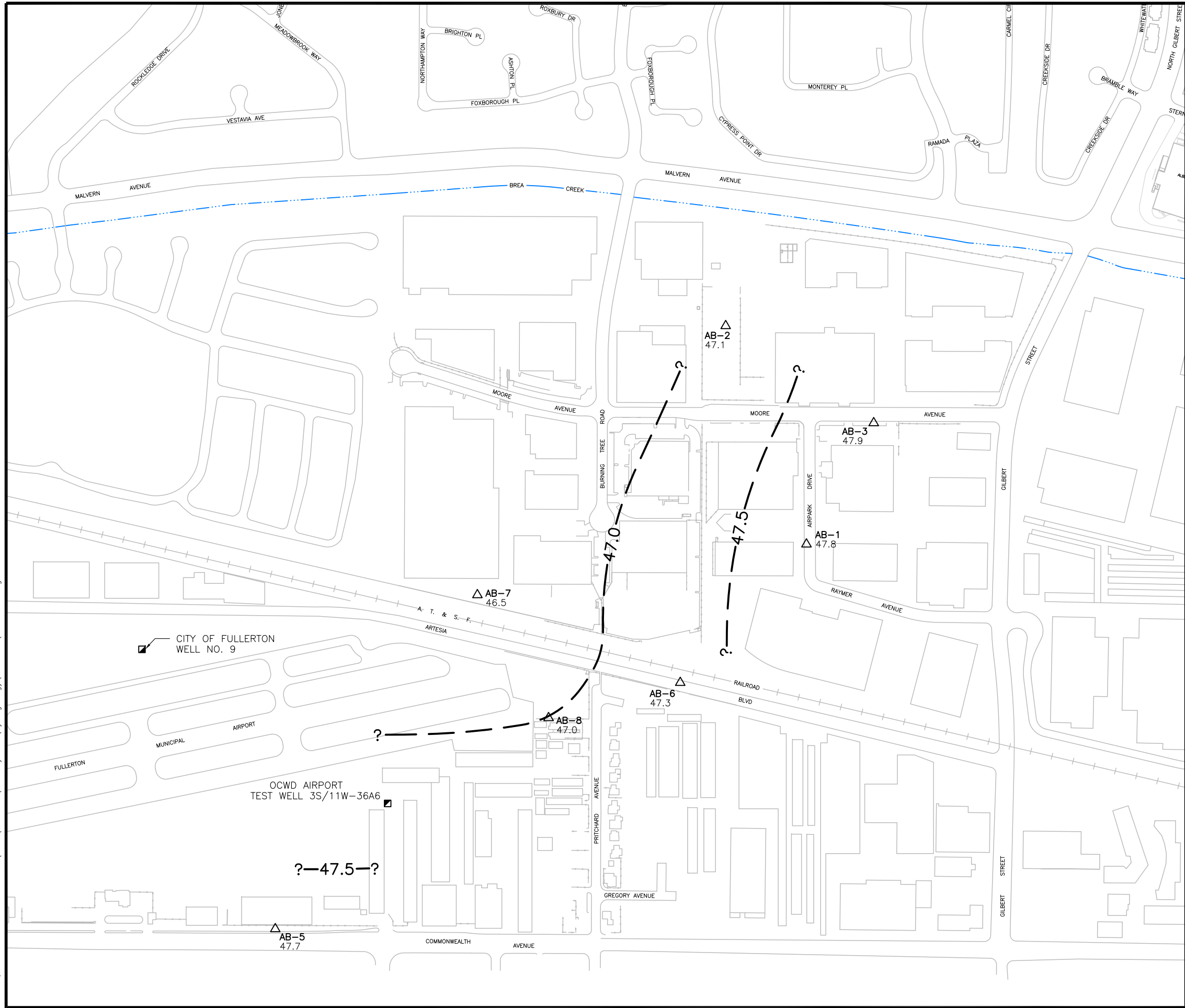


RAYTHEON COMPANY
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WATER LEVEL ELEVATIONS LOWER UNIT A AUGUST 2022

	HARGIS+ASSOCIATES, INC. HYDROGEOLOGY • ENGINEERING	02/23
	FIGURE 6	
PREP BY <u>RA</u> REV BY <u>DJS</u> RPT NO. <u>764.11</u>	<u>220-2586</u>	A

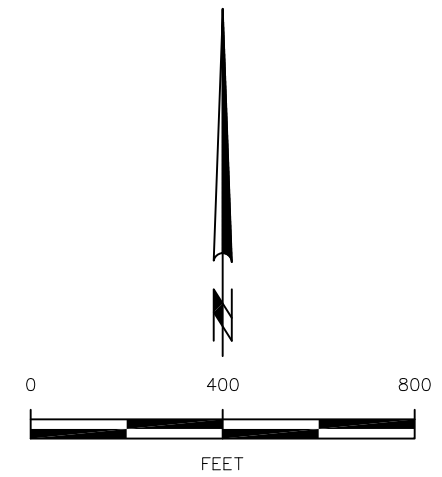
Jan 20, 2023 10:51am ESS - T: 2022\700-799\764 Raytheon\Hydrogeology\Water Lvl\220-2587.dwg



EXPLANATION

- △ AB-7 APPROXIMATE LOCATION OF A/B AQUITARD MONITOR WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- △ AB-1 47.8 WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
- +—+—+—+— AT & SF RAILROAD
- ? ——— 47.0 — — — — — ?
 CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
 DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

NOTE: WATER LEVELS MEASURED AUGUST 15, 2022



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**WATER LEVEL ELEVATIONS
A/B AQUITARD
AUGUST 2022**


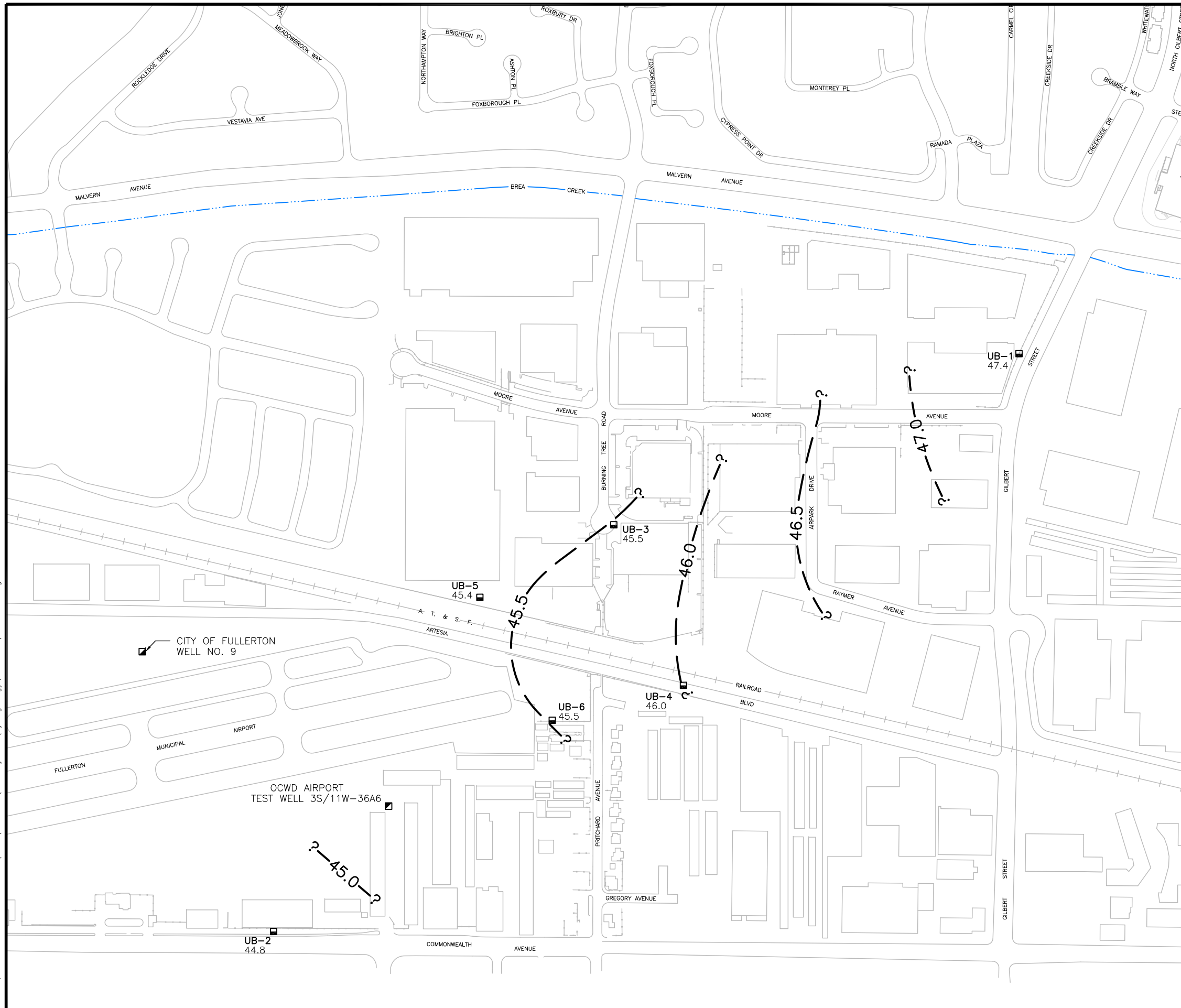

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FIGURE 7

PREP BY RA REV BY DJS RPT NO. 764.11 220-2587 A

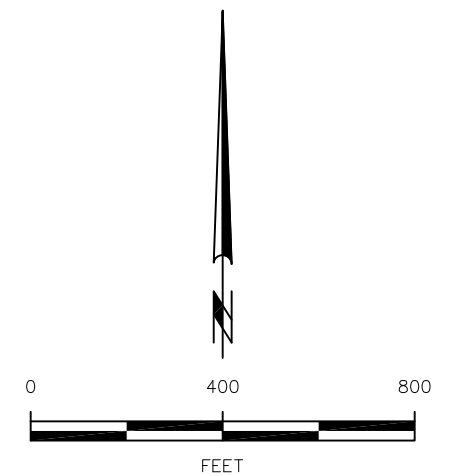
Feb 23, 2023 - 10:53am ESS - I: \2022\700-799\764 Raytheon\Hydrogeology\Water Lvl\220-2588.dwg



EXPLANATION

- UB-3 APPROXIMATE LOCATION OF UNIT B MONITOR WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- UB-1 47.4 WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
- +—+—+— AT & SF RAILROAD
- ? ——— 47.0 — — — — ?
 CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET MEAN SEA LEVEL
 DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

NOTE: WATER LEVELS MEASURED AUGUST 15, 2022



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WATER LEVEL ELEVATIONS UNIT B AUGUST 2022



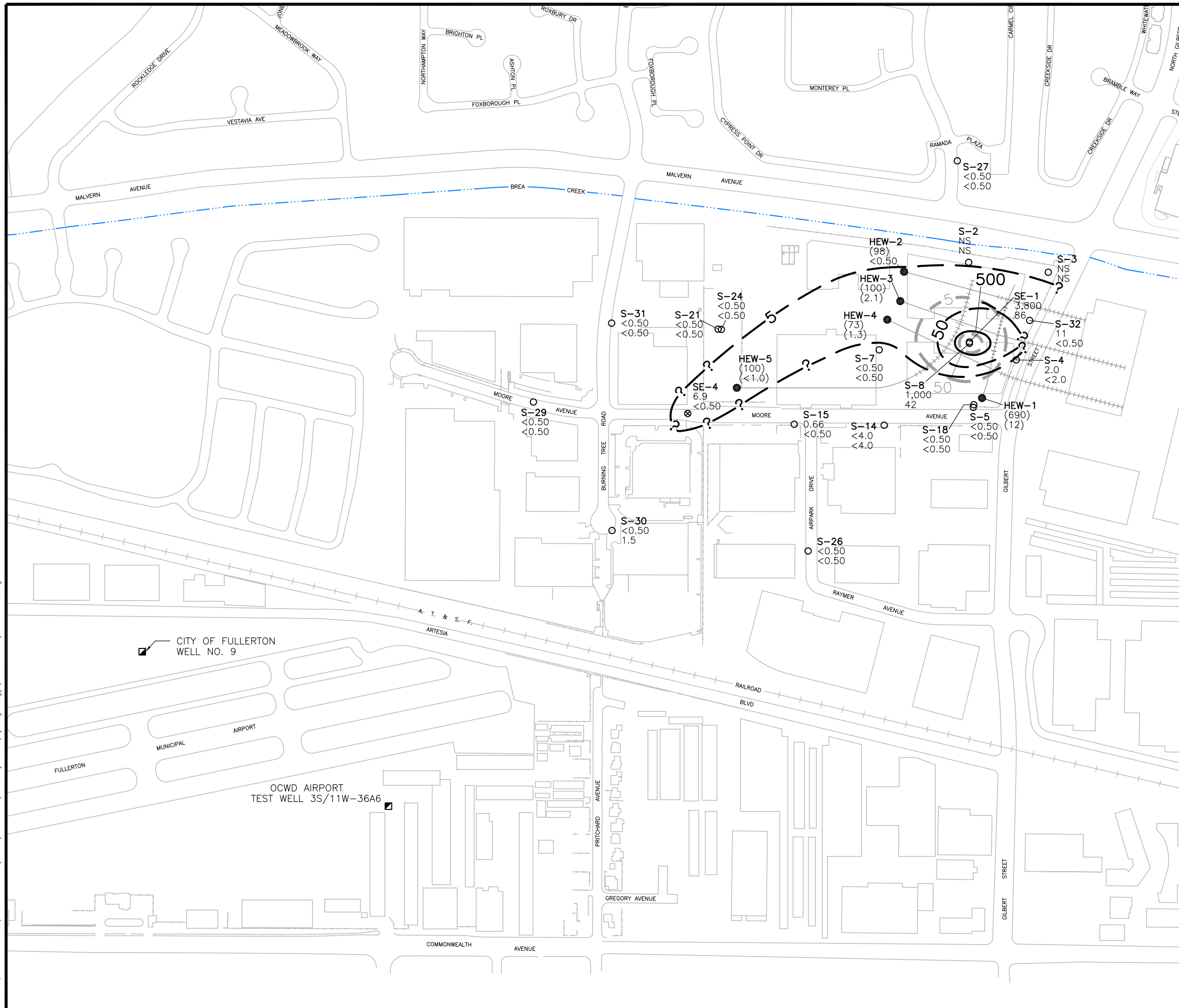
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FIGURE 8

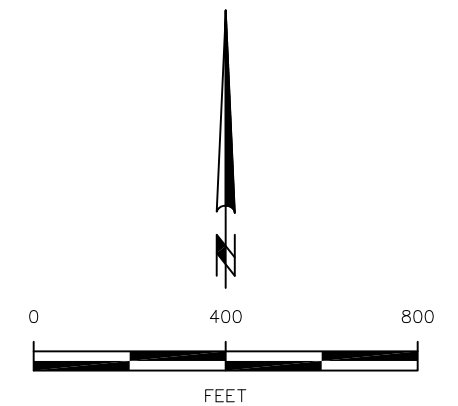
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Feb 27, 2023 - 1:45pm ESS - T:\2022\700-799\764 Raytheon Hydrogeology\Water Qual\210-5363.dwg



EXPLANATION

- S-29 APPROXIMATE LOCATION OF SHALLOW ZONE MONITOR WELL
 - ⊗ SE-4 APPROXIMATE LOCATION OF SHALLOW ZONE EXTRACTION WELL
 - HEW-2 APPROXIMATE LOCATION OF SHALLOW ZONE HORIZONTAL EXTRACTION WELL AND TRACE OF SCREENED INTERVAL
 - CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
 - OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
 - SE-1 3,800 CONCENTRATION OF TRICHLOROETHYLENE (TCE) IN MICROGRAMS PER LITER (ug/l)
 - 86 CONCENTRATION OF TETRACHLOROETHYLENE (PCE) IN MICROGRAMS PER LITER (ug/l)
 - (98) CONCENTRATION NOT CONTOURED
 - < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR THE SPECIFIED ANALYSIS
 - NS NOT SAMPLED
 - AT & SF RAILROAD
 - ? — 50 — — — — ? CONTOUR LINE OF EQUAL CONCENTRATION OF TCE IN ug/l
DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED
 - ? — 5 — — — — ? CONTOUR LINE OF EQUAL CONCENTRATION OF PCE IN ug/l
DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED
- NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022
ANALYSES PERFORMED BY EUROFINIS CALSCIENCE, INC.
TUSTIN, CALIFORNIA



RAYTHEON COMPANY
FULLERTON, CALIFORNIA

TRICHLOROETHYLENE AND TETRACHLOROETHYLENE SHALLOW ZONE, AUGUST 2022



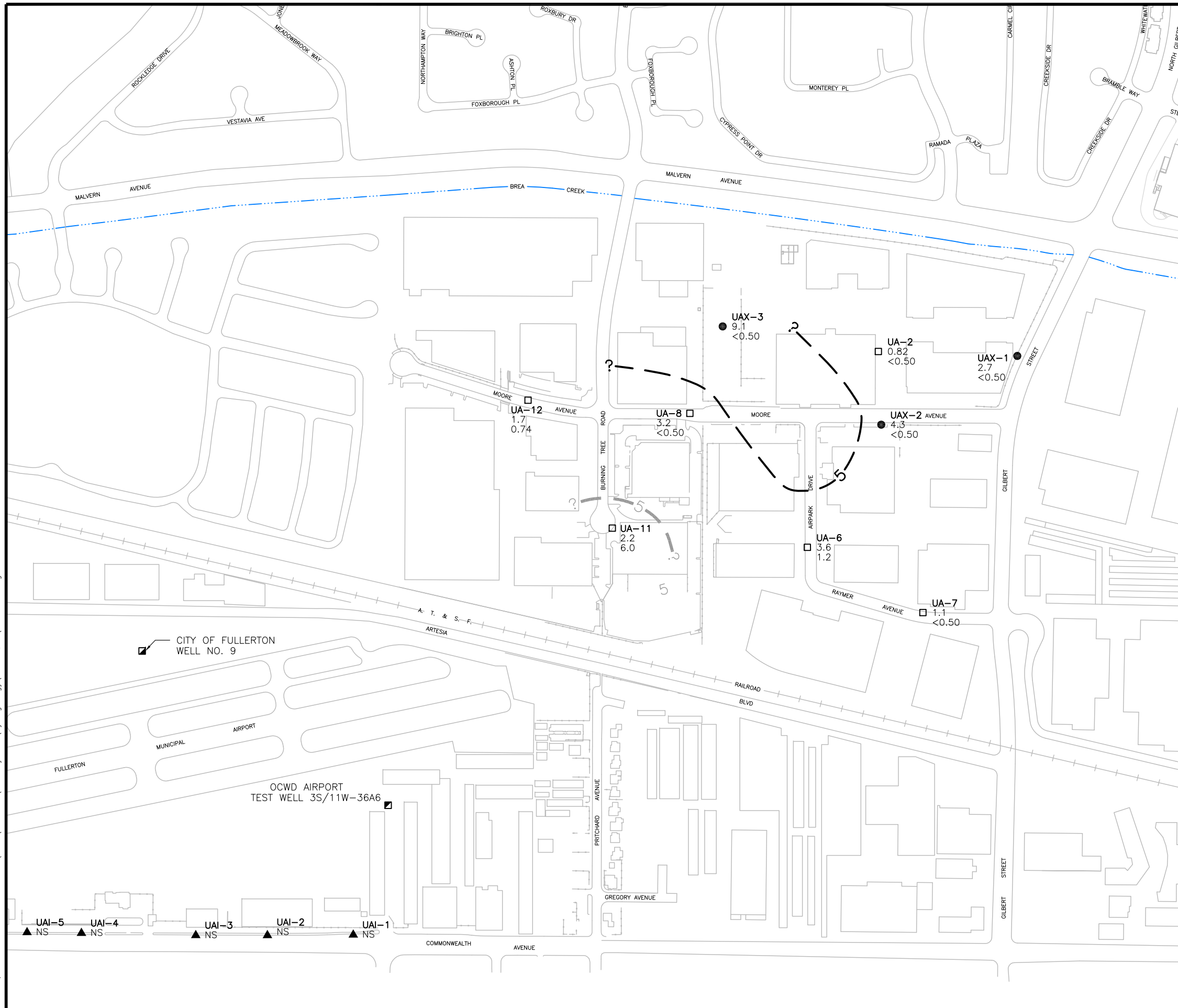
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02/23

FIGURE 9

PREP BY DJS REV BY RA RPT NO. 764.11 210-5363 A

Feb 23, 2023 10:56am ESS - I: \2022\700-799\764 Raytheon\Hydrogeology\Water_Qual\210-5364.dwg



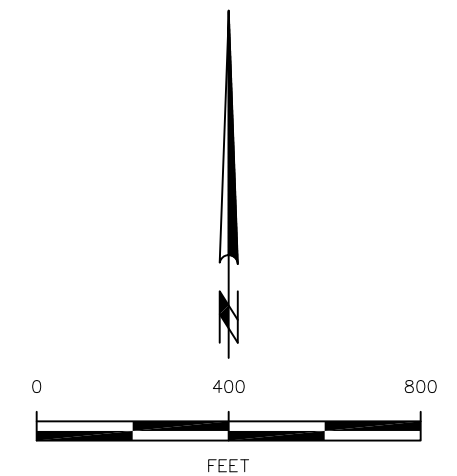
EXPLANATION

- UA-12 APPROXIMATE LOCATION OF UPPER UNIT A MONITOR WELL
- UAX-3 APPROXIMATE LOCATION OF UPPER UNIT A EXTRACTION WELL
- ▲ UAI-2 APPROXIMATE LOCATION OF UNIT A INJECTION WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- UA-2 0.82 CONCENTRATION OF TRICHLOROETHYLENE (TCE) IN MICROGRAMS PER LITER (ug/l)
- <0.50 CONCENTRATION OF TETRACHLOROETHYLENE (PCE) IN MICROGRAMS PER LITER (ug/l)
- < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR THE SPECIFIED ANALYSIS
- NS NOT SAMPLED
- +—+—+—+—+—+—+—+—+—+ AT & SF RAILROAD

? ——— 5 ——— —+—+—+—+—+—+—+—+—+—+ ?
 CONTOUR LINE OF EQUAL CONCENTRATION OF TCE IN ug/l
 DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

? ——— 5 ——— —+—+—+—+—+—+—+—+—+—+ ?
 CONTOUR LINE OF EQUAL CONCENTRATION OF PCE IN ug/l
 DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022
 ANALYSES PERFORMED BY EUROFINS CALSCIENCE, INC. TUSTIN, CALIFORNIA



RAYTHEON COMPANY
 FULLERTON, CALIFORNIA

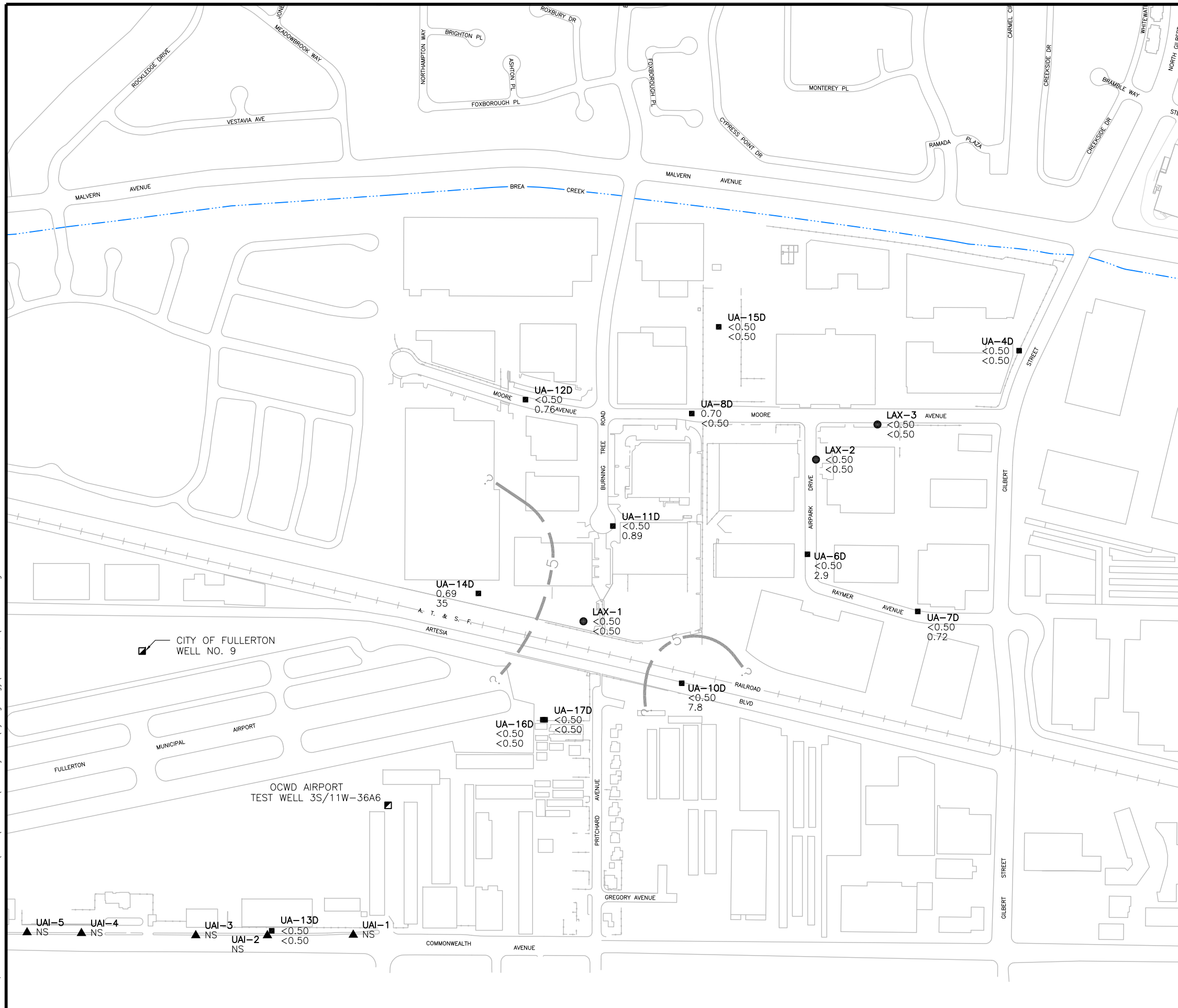
TRICHLOROETHYLENE AND TETRACHLOROETHYLENE UPPER UNIT A, AUGUST 2022

 HARGIS+ASSOCIATES, INC. 02/23
 HYDROGEOLOGY • ENGINEERING

FIGURE 10

PREP BY RA REV BY ANW RPT NO. 764.11 210-5364 A

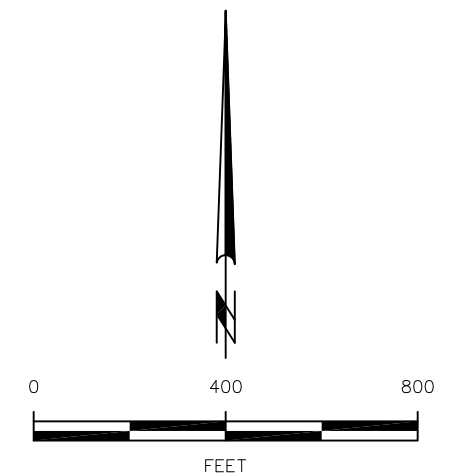
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EXPLANATION

- UA-6D APPROXIMATE LOCATION OF LOWER UNIT A MONITOR WELL
- LAX-2 APPROXIMATE LOCATION OF LOWER UNIT A EXTRACTION WELL
- ▲ UAI-2 APPROXIMATE LOCATION OF UNIT A INJECTION WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- UA-8D 0.70 CONCENTRATION OF TRICHLOROETHYLENE (TCE) IN MICROGRAMS PER LITER (ug/l)
- <0.50 CONCENTRATION OF TETRACHLOROETHYLENE (PCE) IN MICROGRAMS PER LITER (ug/l)
- < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR THE SPECIFIED ANALYSIS
- NS NOT SAMPLED
- +—+— AT & SF RAILROAD
- ? — 5 — — — — ? CONTOUR LINE OF EQUAL CONCENTRATION OF PCE IN ug/l
DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022. ANALYSES PERFORMED BY EUOFINS CALSCIENCE, INC. TUSTIN, CALIFORNIA



RAYTHEON COMPANY
FULLERTON, CALIFORNIA

TRICHLOROETHYLENE AND TETRACHLOROETHYLENE LOWER UNIT A, AUGUST 2022



HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

02/23

FIGURE 11

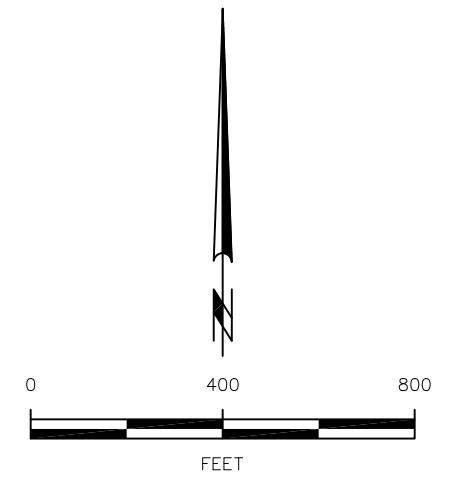
PREP BY RA REV BY DJS RPT NO. 764.11 210-5365 A

EXPLANATION

- Δ AB-7 APPROXIMATE LOCATION OF A/B AQUITARD MONITOR WELL
- \blacksquare CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- \blacksquare OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- Δ AB-7 2.6 CONCENTRATION OF TRICHLOROETHYLENE (TCE) IN MICROGRAMS PER LITER ($\mu\text{g}/\text{l}$)
- 5.4 CONCENTRATION OF TETRACHLOROETHYLENE (PCE) IN MICROGRAMS PER LITER ($\mu\text{g}/\text{l}$)
- < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR THE SPECIFIED ANALYSIS
- AT & SF RAILROAD

- ? ————— 5 ————— ?
CONTOUR LINE OF EQUAL CONCENTRATION OF TCE IN $\mu\text{g}/\text{l}$
DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED
- ? ————— 5 ————— ?
CONTOUR LINE OF EQUAL CONCENTRATION OF PCE IN $\mu\text{g}/\text{l}$
DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022
ANALYSES PERFORMED BY EUROFINIS CALSCIENCE, INC. TUSTIN, CALIFORNIA



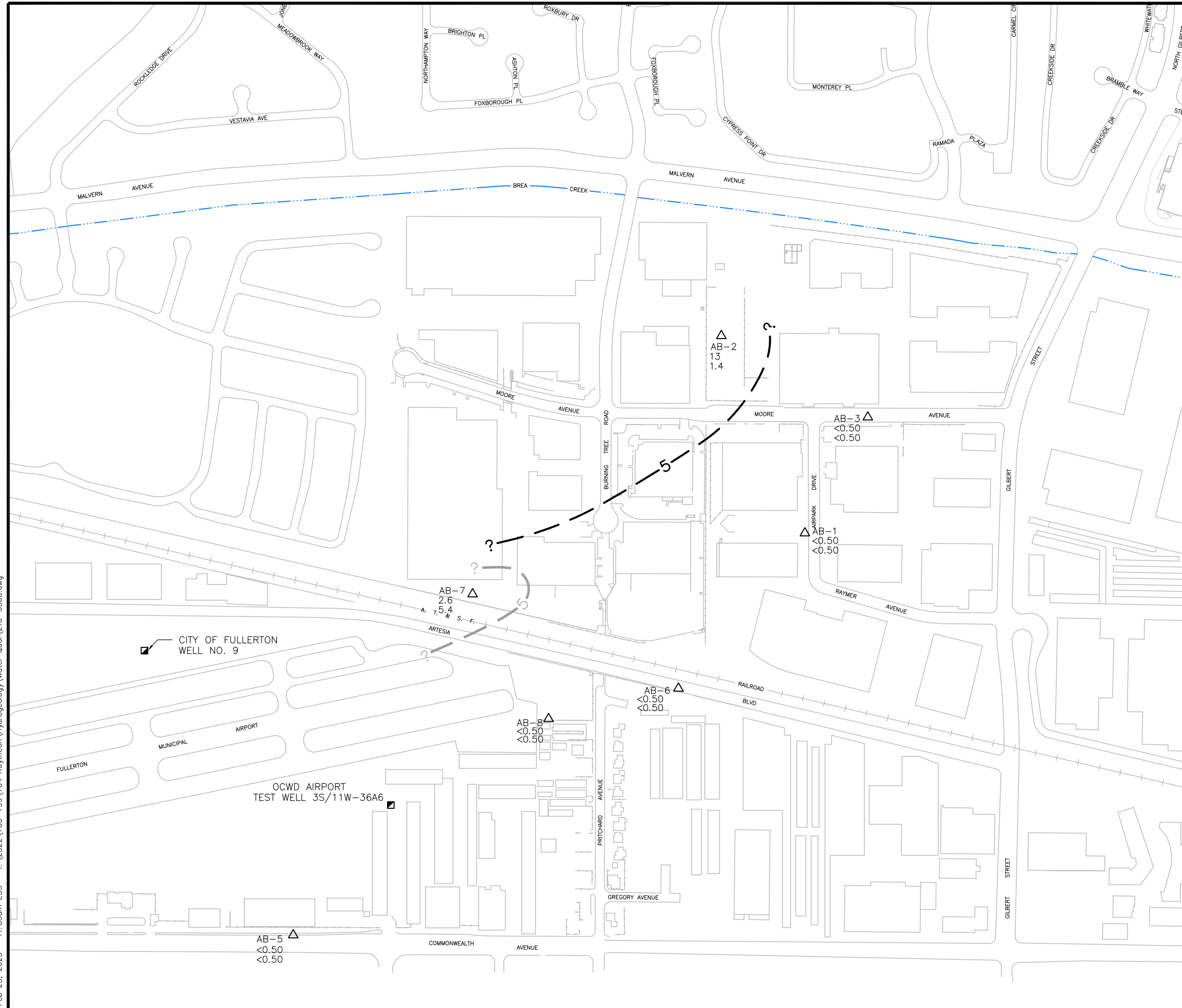
RAYTHEON COMPANY
FULLERTON, CALIFORNIA

TRICHLOROETHYLENE AND TETRACHLOROETHYLENE A/B AQUITARD, AUGUST 2022

HARGIS+ASSOCIATES, INC. 01/23
HYDROGEOLOGY • ENGINEERING

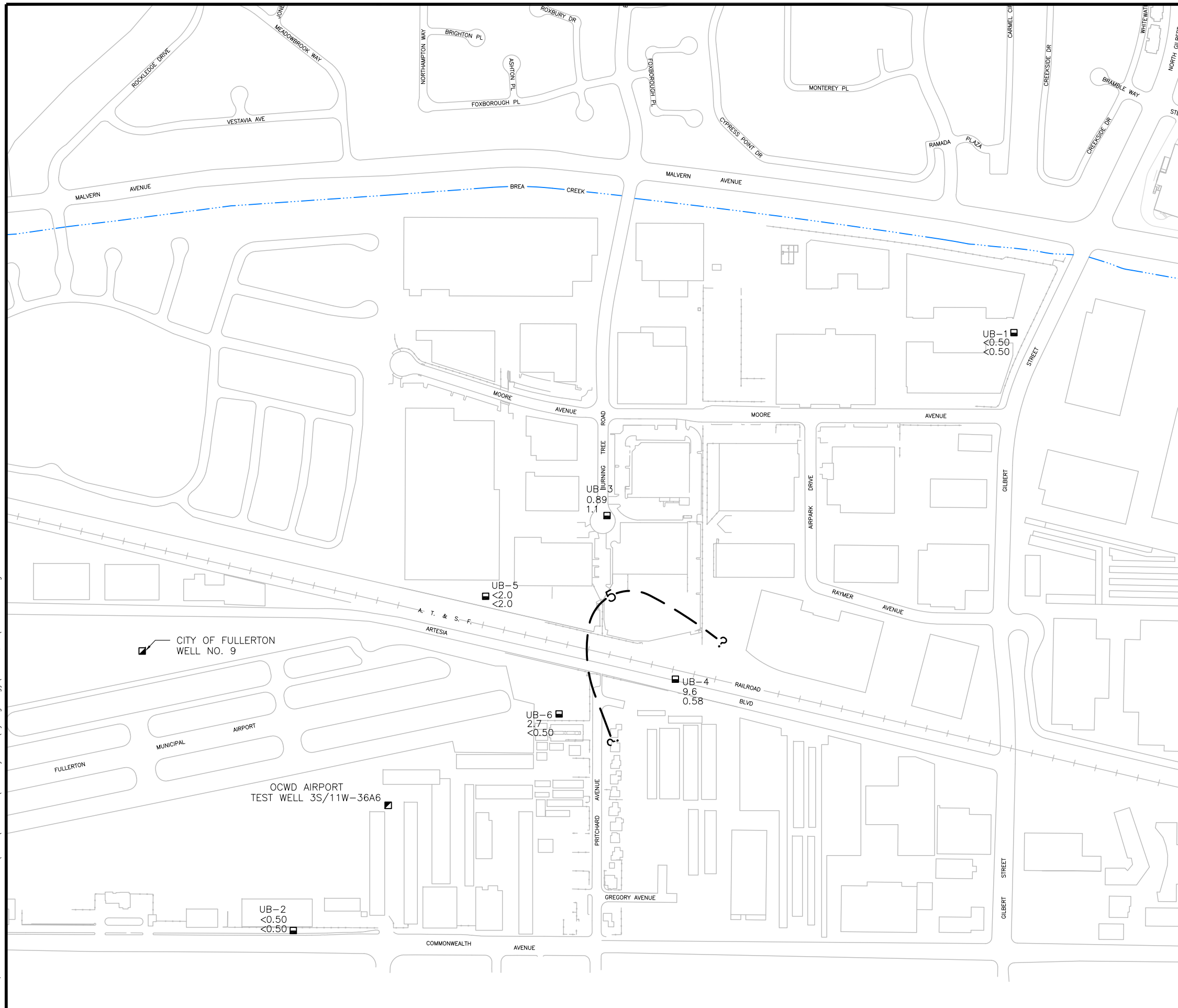
FIGURE 12

PREP BY RA REV BY ANW RPT NO. 764.11 210-5366 A



Feb 23, 2023 - 11:03am ESS - T: \\2022\700-799\764 Raytheon\Hydrogeology\Water_Qual\210-5366.dwg

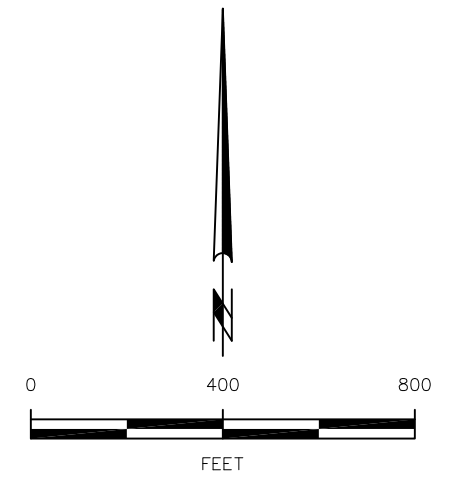
Feb 23, 2023 11:04am ESS - T: \2022\700-799\764 Raytheon\Hydrogeology\Water_Qual\210-5367.dwg



EXPLANATION

- UB-3 APPROXIMATE LOCATION OF UNIT B MONITOR WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- UB-3 0.89 CONCENTRATION OF TRICHLOROETHYLENE (TCE) IN MICROGRAMS PER LITER (ug/l)
- 1.1 CONCENTRATION OF TETRACHLOROETHYLENE (PCE) IN MICROGRAMS PER LITER (ug/l)
- < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR THE SPECIFIED ANALYSIS
- AT & SF RAILROAD
- ? ————— 5 ————— ? CONTOUR LINE OF EQUAL CONCENTRATION OF TCE IN ug/l
 DASHED WHERE APPROXIMATE, QUERIED WHERE INFERRED

NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022. ANALYSES PERFORMED BY EUROFINS CALSCIENCE, INC. TUSTIN, CALIFORNIA



RAYTHEON COMPANY
FULLERTON, CALIFORNIA

TRICHLOROETHYLENE AND TETRACHLOROETHYLENE UNIT B, AUGUST 2022



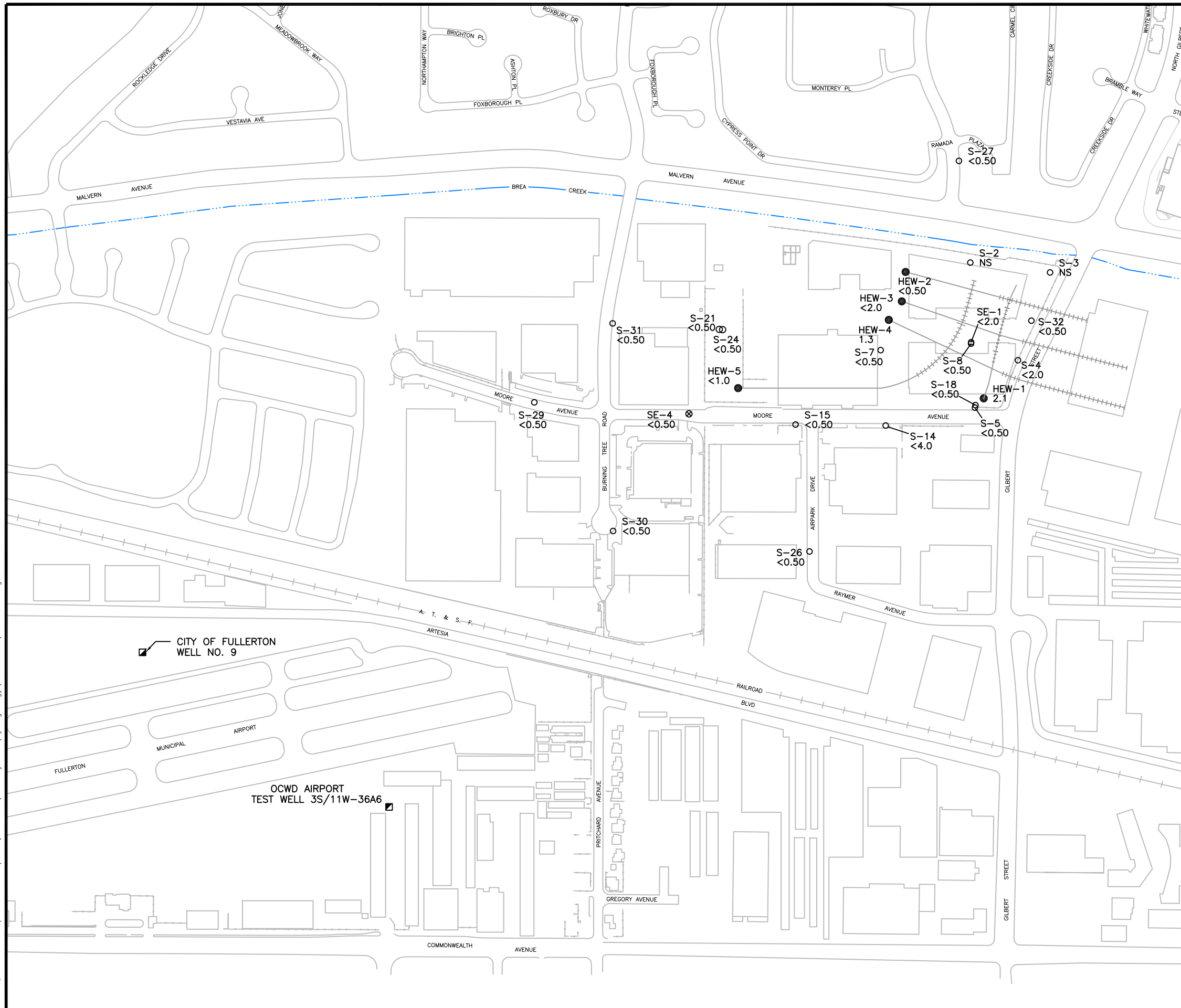
HARGIS+ASSOCIATES, INC.
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01/23

FIGURE 13

PREP BY RA REV BY ANW RPT NO. 764.11 210-5367 A

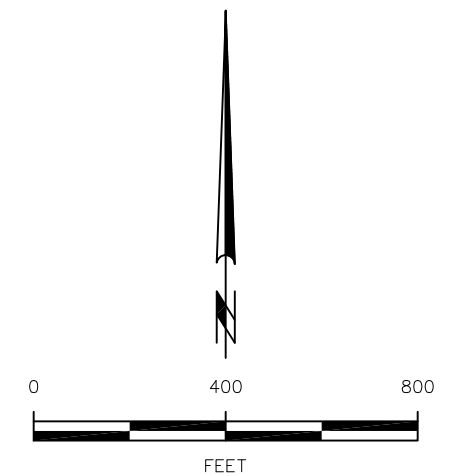
Feb 27, 2023 1:46pm ESS - T:\2022\700-799\764 Raytheon Hydrogeology\Water Qual\210-5368.dwg



EXPLANATION

- S-29 APPROXIMATE LOCATION OF SHALLOW ZONE MONITOR WELL
- ⊗ SE-4 APPROXIMATE LOCATION OF SHALLOW ZONE EXTRACTION WELL
- HEW-5 APPROXIMATE LOCATION OF SHALLOW ZONE HORIZONTAL EXTRACTION WELL AND TRACE OF SCREENED INTERVAL
- ▣ CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- ▣ OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- S-24 <0.50 CONCENTRATION OF 1,1-DICHLOROETHYLENE (1,1-DCE) IN MICROGRAMS PER LITER (ug/l)
- < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR THE SPECIFIED ANALYSIS
- NS NOT SAMPLED
- +—+—+—+— AT & SF RAILROAD

NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022
ANALYSES PERFORMED BY EUROFINs CALSCIENCE, INC.
TUSTIN, CALIFORNIA



RAYTHEON COMPANY
FULLERTON, CALIFORNIA

1,1-DICHLOROETHYLENE SHALLOW ZONE AUGUST 2022



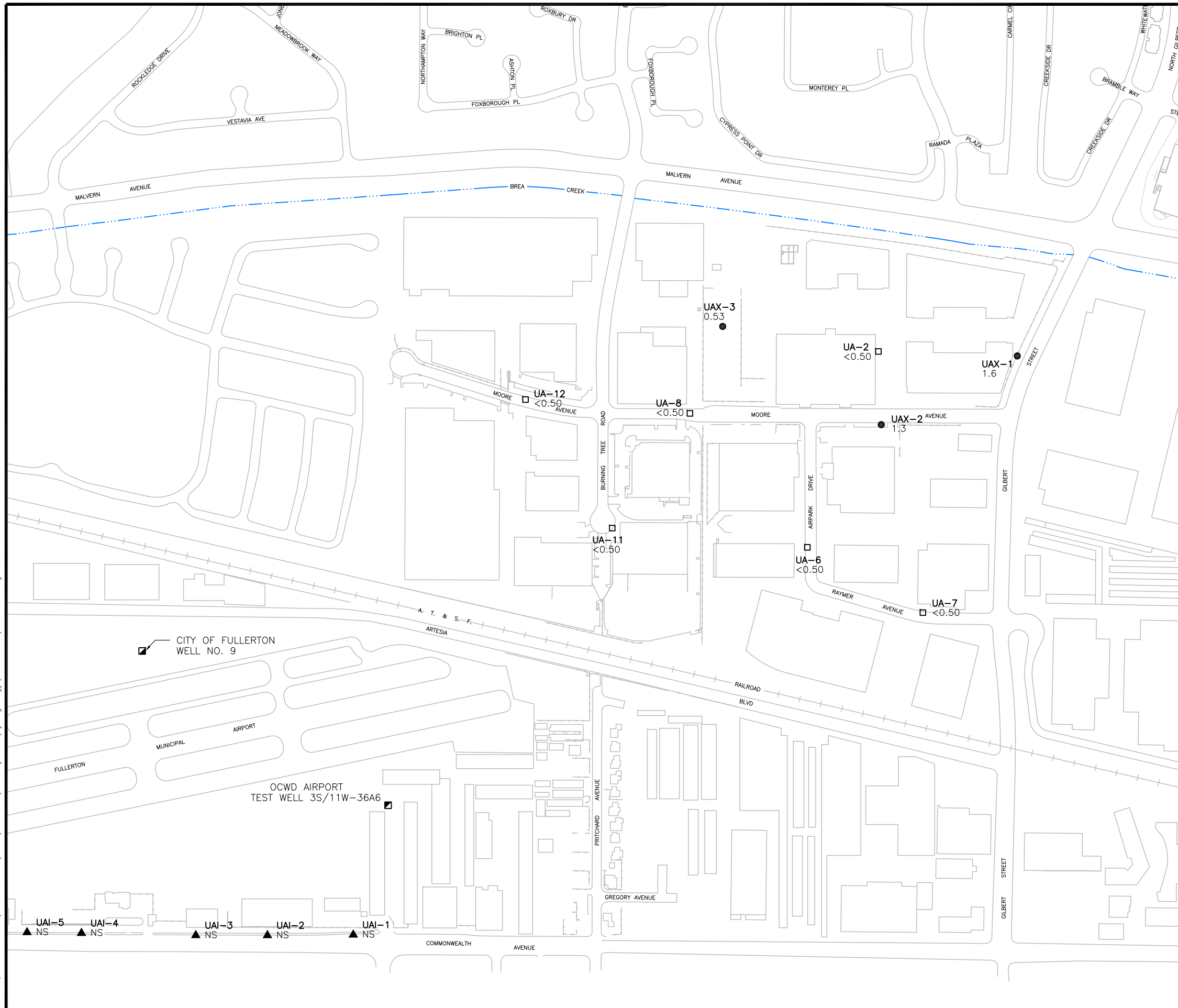
HARGIS+ASSOCIATES, INC.
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01/23

FIGURE 14

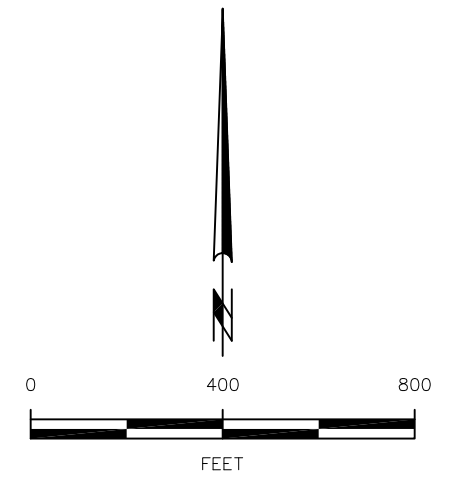
PREP BY RA REV BY ANW RPT NO. 764.11 210-5368 A

Jan 20, 2023 12:15pm ESS - T: 2022\700-799\764 Raytheon\Hydrogeology\Water_Qual\210-5369.dwg



EXPLANATION

- UA-12 APPROXIMATE LOCATION OF UPPER UNIT A MONITOR WELL
 - UAX-3 APPROXIMATE LOCATION OF UPPER UNIT A EXTRACTION WELL
 - ▲ UAI-2 APPROXIMATE LOCATION OF UNIT A INJECTION WELL
 - CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
 - OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
 - UAX-1 1.6 CONCENTRATION OF 1,1-DICHLOROETHYLENE (1,1-DCE) IN MICROGRAMS PER LITER (ug/l)
 - < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR THE SPECIFIED ANALYSIS
 - NS NOT SAMPLED
 - +—+—+—+— AT & SF RAILROAD
- NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022
ANALYSES PERFORMED BY EUROFIN'S CALSCIENCE, INC.
TUSTIN, CALIFORNIA



RAYTHEON COMPANY
FULLERTON, CALIFORNIA

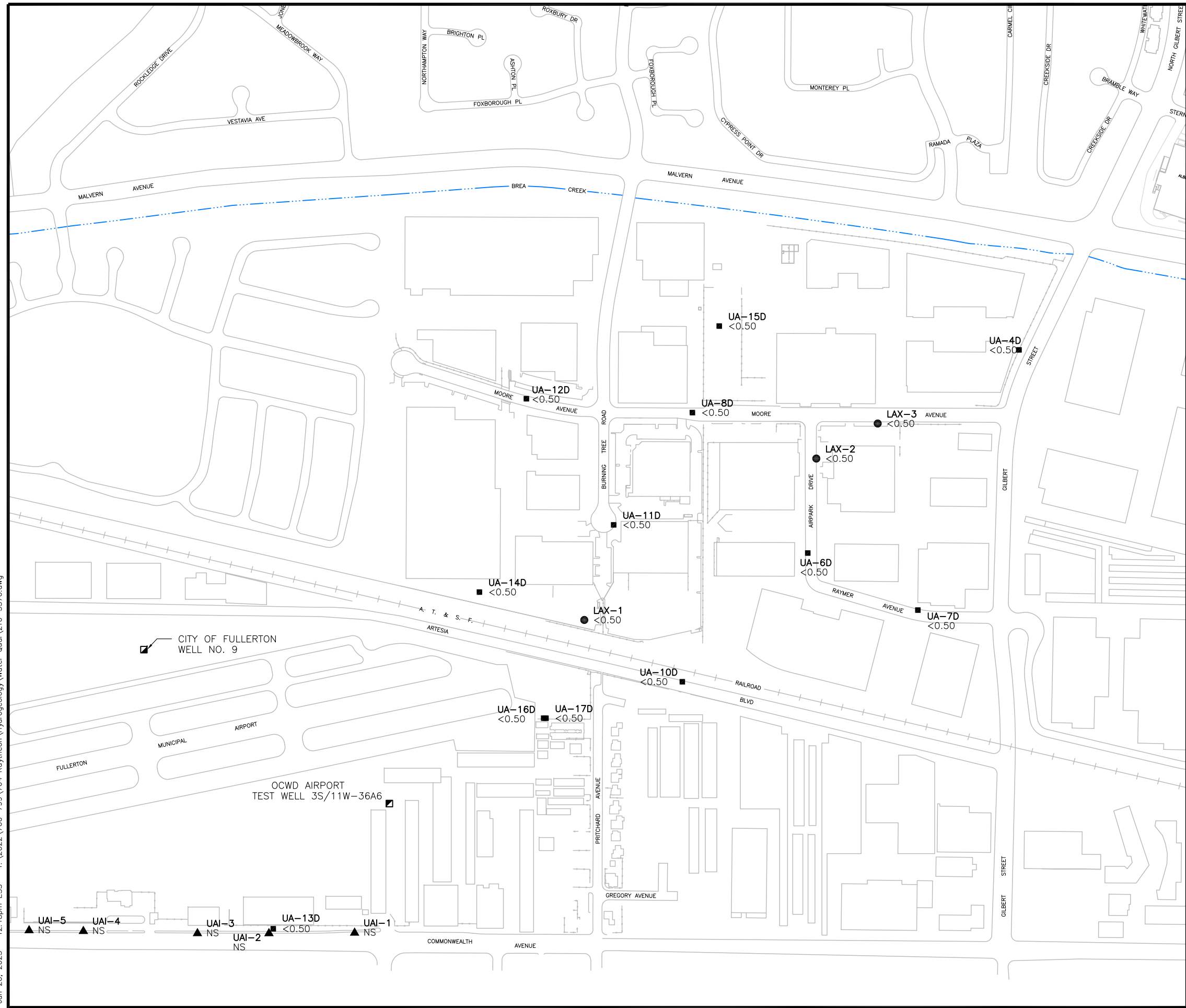
1,1-DICHLOROETHYLENE UPPER UNIT A AUGUST 2022

 **HARGIS+ASSOCIATES, INC.** 01/23
HYDROGEOLOGY • ENGINEERING

FIGURE 15

PREP BY RA REV BY ANW RPT NO. 764.11 210-5369 A

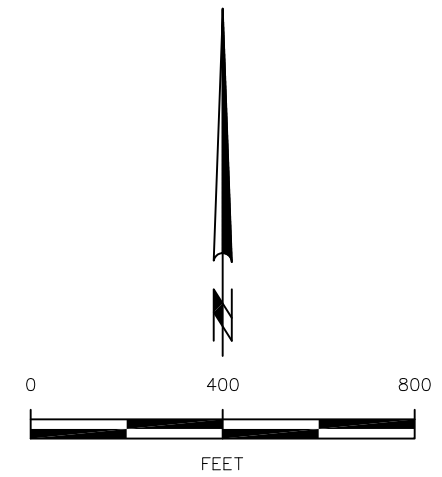
Jan 20, 2023 12:18pm ESS - T: 2022\700-799\764 Raytheon\Hydrogeology\Water_Qual\210-5370.dwg



EXPLANATION

- UA-6D APPROXIMATE LOCATION OF LOWER UNIT A MONITOR WELL
- LAX-2 APPROXIMATE LOCATION OF LOWER UNIT A EXTRACTION WELL
- ▲ UAI-2 APPROXIMATE LOCATION OF UNIT A INJECTION WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- LAX-2 <math><0.50</math> CONCENTRATION OF 1,1-DICHLOROETHYLENE (1,1-DCE) IN MICROGRAMS PER LITER (ug/l)
- <math><0.50</math> LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR THE SPECIFIED ANALYSIS
- NS NOT SAMPLED
- AT & SF RAILROAD

NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022
ANALYSES PERFORMED BY EUROFINs CALSCIENCE, INC.
TUSTIN, CALIFORNIA



RAYTHEON COMPANY
FULLERTON, CALIFORNIA

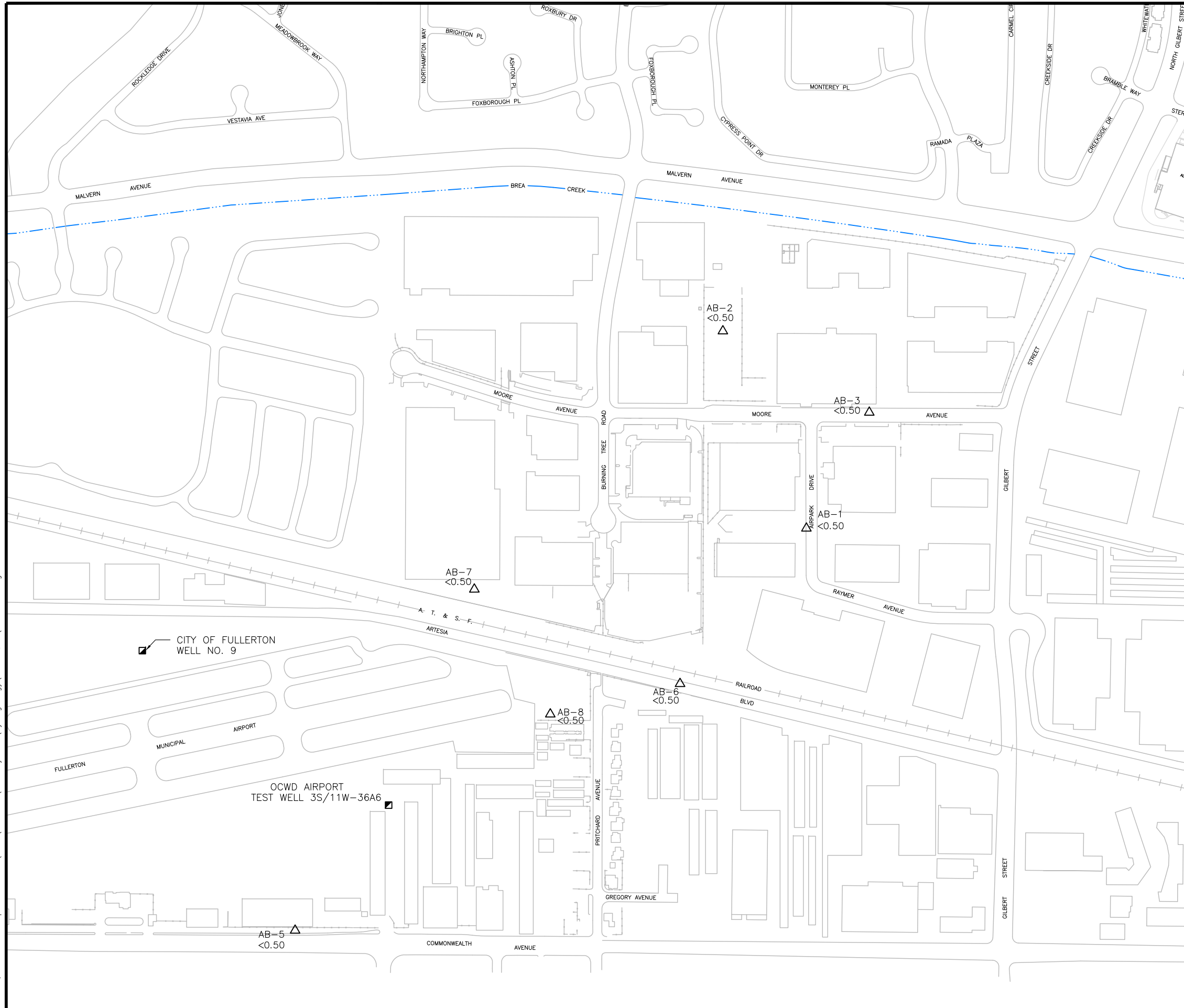
**1,1-DICHLOROETHYLENE
LOWER UNIT A
AUGUST 2022**

HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING
01/23

FIGURE 16

PREP BY RA
REV BY ANW
RPT NO. 764.11
210-5370
A

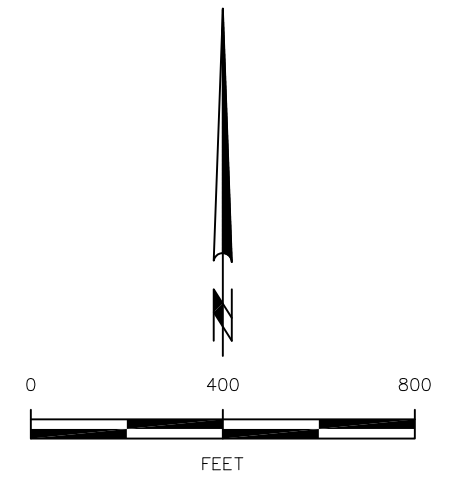
Jan 20, 2023 12:26pm ESS - I: \2022\700-799\764 Raytheon\Hydrogeology\Water Qual\210-5374.dwg



EXPLANATION

- △ AB-7 APPROXIMATE LOCATION OF A/B AQUITARD MONITOR WELL
- CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
- OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
- △ AB-7 <0.50 CONCENTRATION OF 1,1-DICHLOROETHYLENE (1,1-DCE) IN MICROGRAMS PER LITER (ug/l)
- < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR 1,1-DCE
- +—+—+— AT & SF RAILROAD

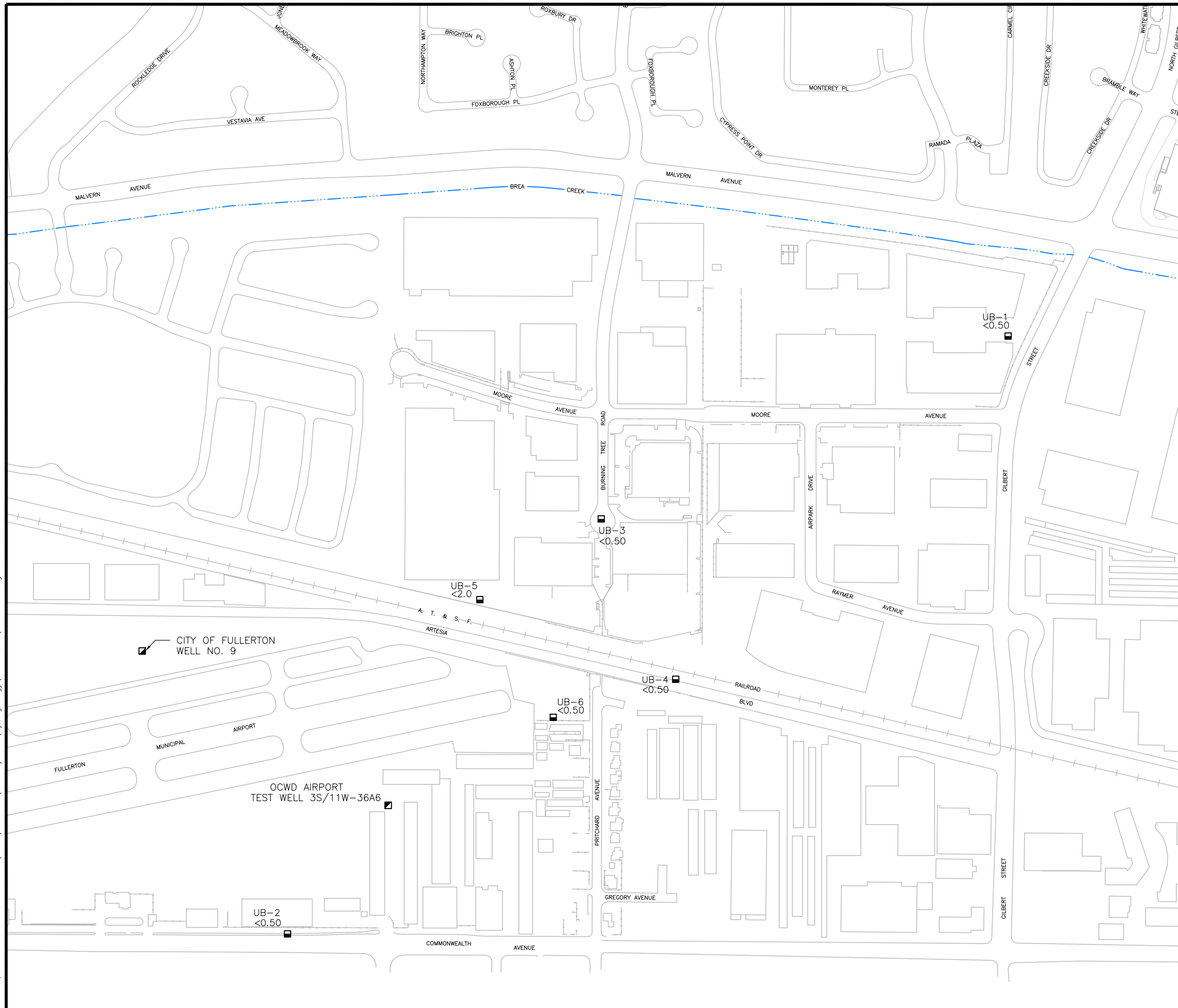
NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022
 ANALYSES PERFORMED BY EUROFINs CALSCIENCE, INC.
 TUSTIN, CALIFORNIA








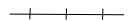
RAYTHEON COMPANY
 FULLERTON, CALIFORNIA

1,1-DICHLOROETHYLENE A/B AQUITARD AUGUST 2022

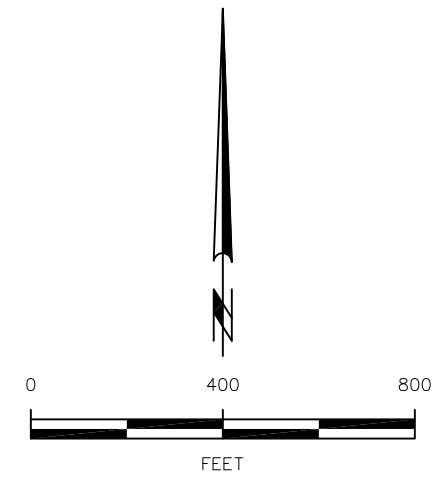
Feb 23, 2023 11:05am ESS - T: \2022\700-799\764 Raytheon\Hydrogeology\Water_Qual\210-5375.dwg



EXPLANATION

-  UB-3 APPROXIMATE LOCATION OF UNIT B MONITOR WELL
-  CITY OF FULLERTON WELL No.9 APPROXIMATE LOCATION OF CITY OF FULLERTON PRODUCTION WELL
-  OCWD TEST WELL 3S/11W-36A6 APPROXIMATE LOCATION OF ORANGE COUNTY WATER DISTRICT TEST WELL
-  UB-1 <0.50 CONCENTRATION OF 1,1-DICHLOROETHYLENE (1,1-DCE) IN MICROGRAMS PER LITER (ug/l) LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR 1,1-DCE
-  < LESS THAN; NUMERICAL VALUE IS THE REPORTING LIMIT FOR 1,1-DCE
-  AT & SF RAILROAD

NOTE: GROUNDWATER SAMPLES COLLECTED AUGUST 2022
ANALYSES PERFORMED BY EUROFINS CALSCIENCE, INC.
TUSTIN, CALIFORNIA



RAYTHEON COMPANY
FULLERTON, CALIFORNIA

1,1-DICHLOROETHYLENE
UNIT B
AUGUST 2022



HARGIS+ASSOCIATES, INC.
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01/23

FIGURE 18

PREP BY RA REV BY ANW RPT NO. 764.11 210-5375 A

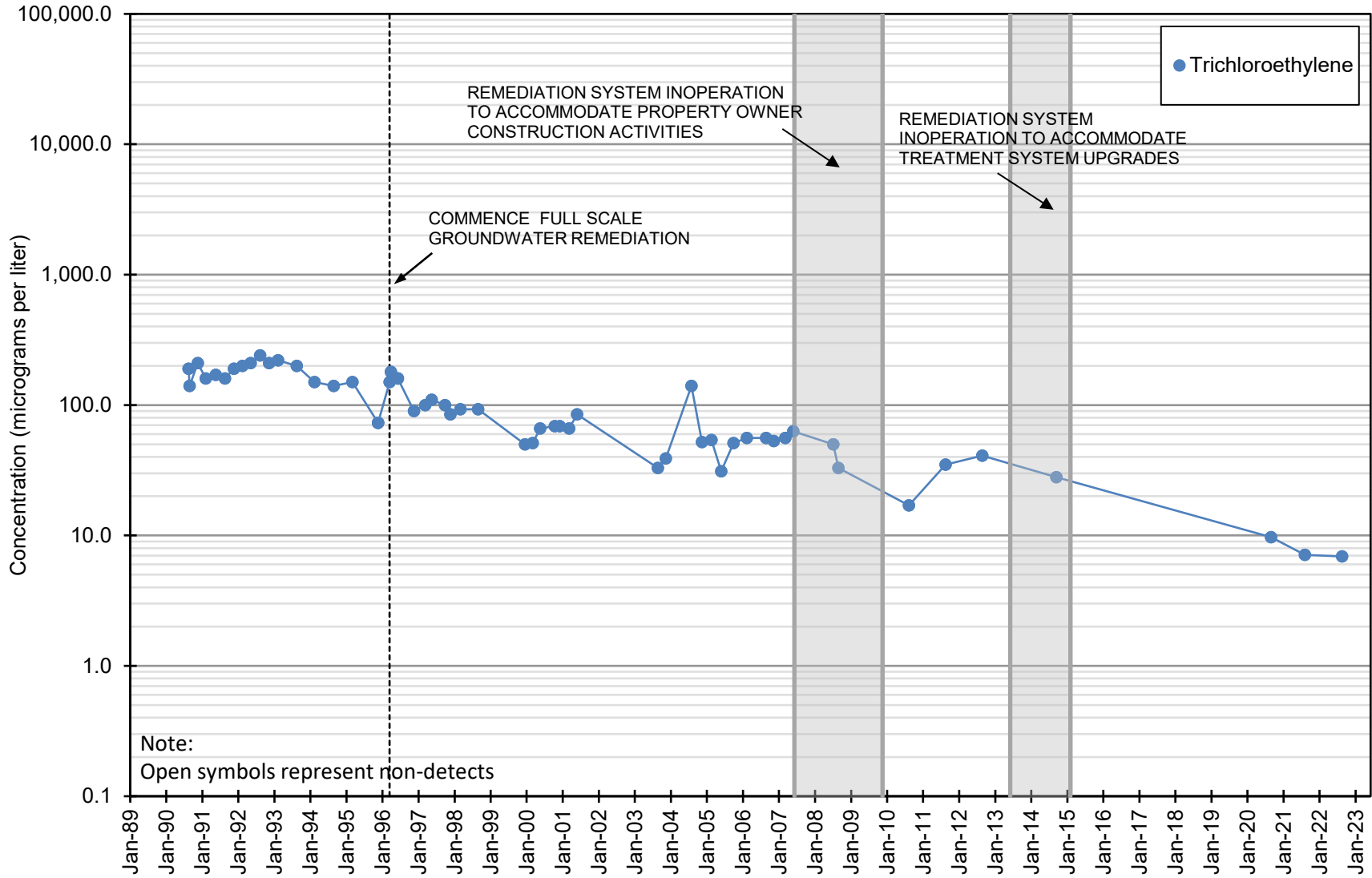


FIGURE 19. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL SE-04

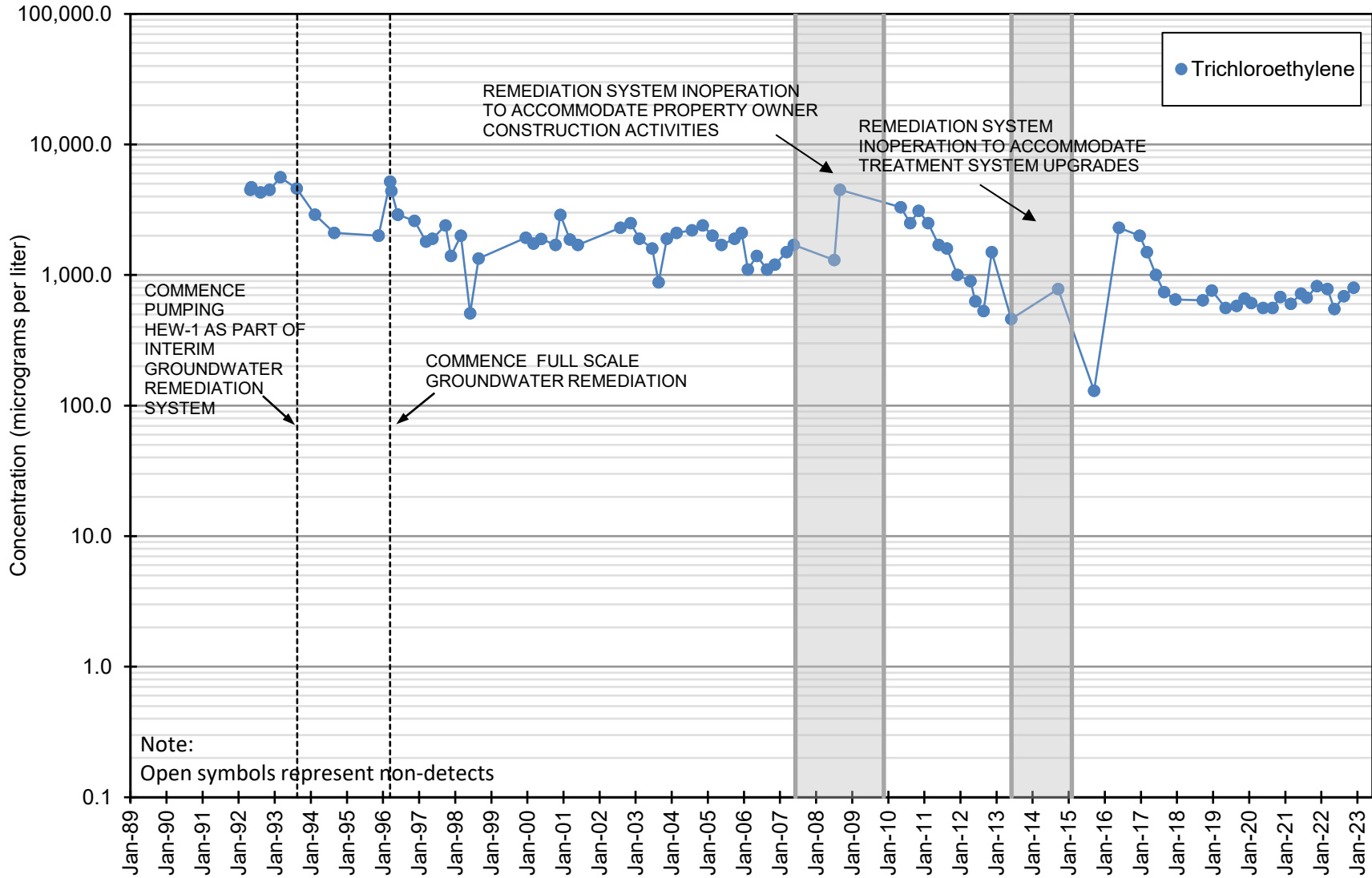


FIGURE 20. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL HEW-01

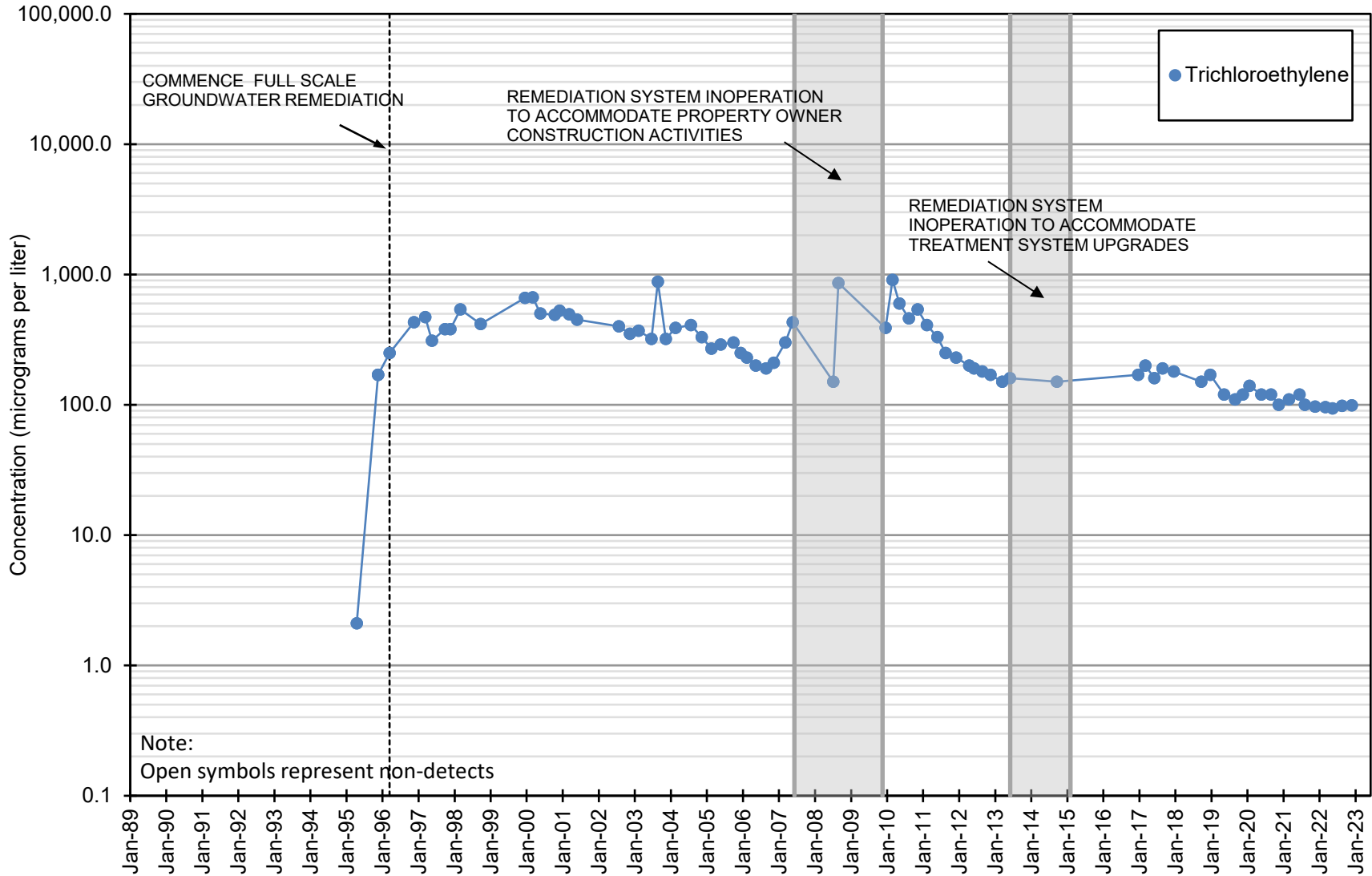


FIGURE 21. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL HEW-02

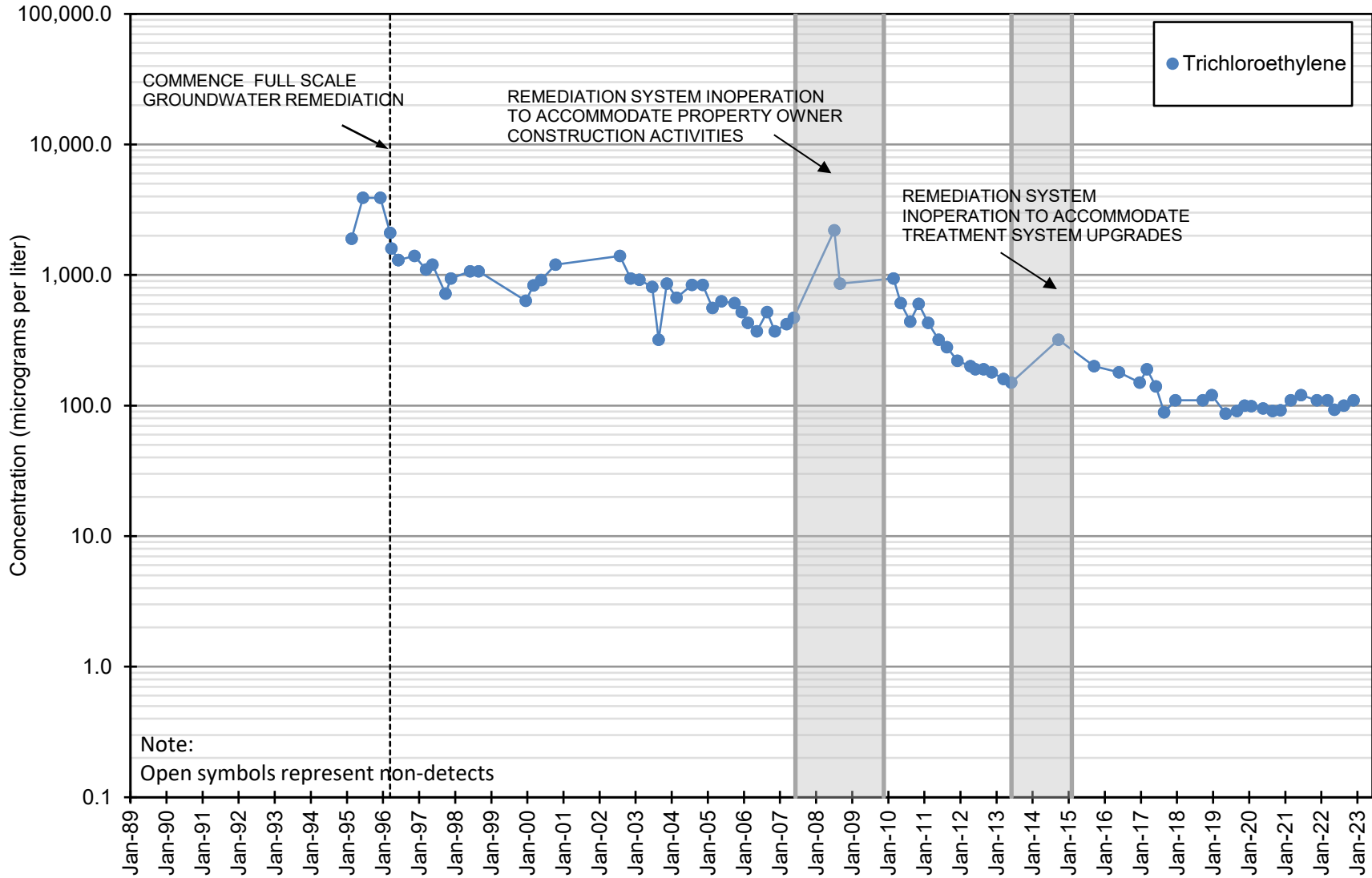


FIGURE 22. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL HEW-03

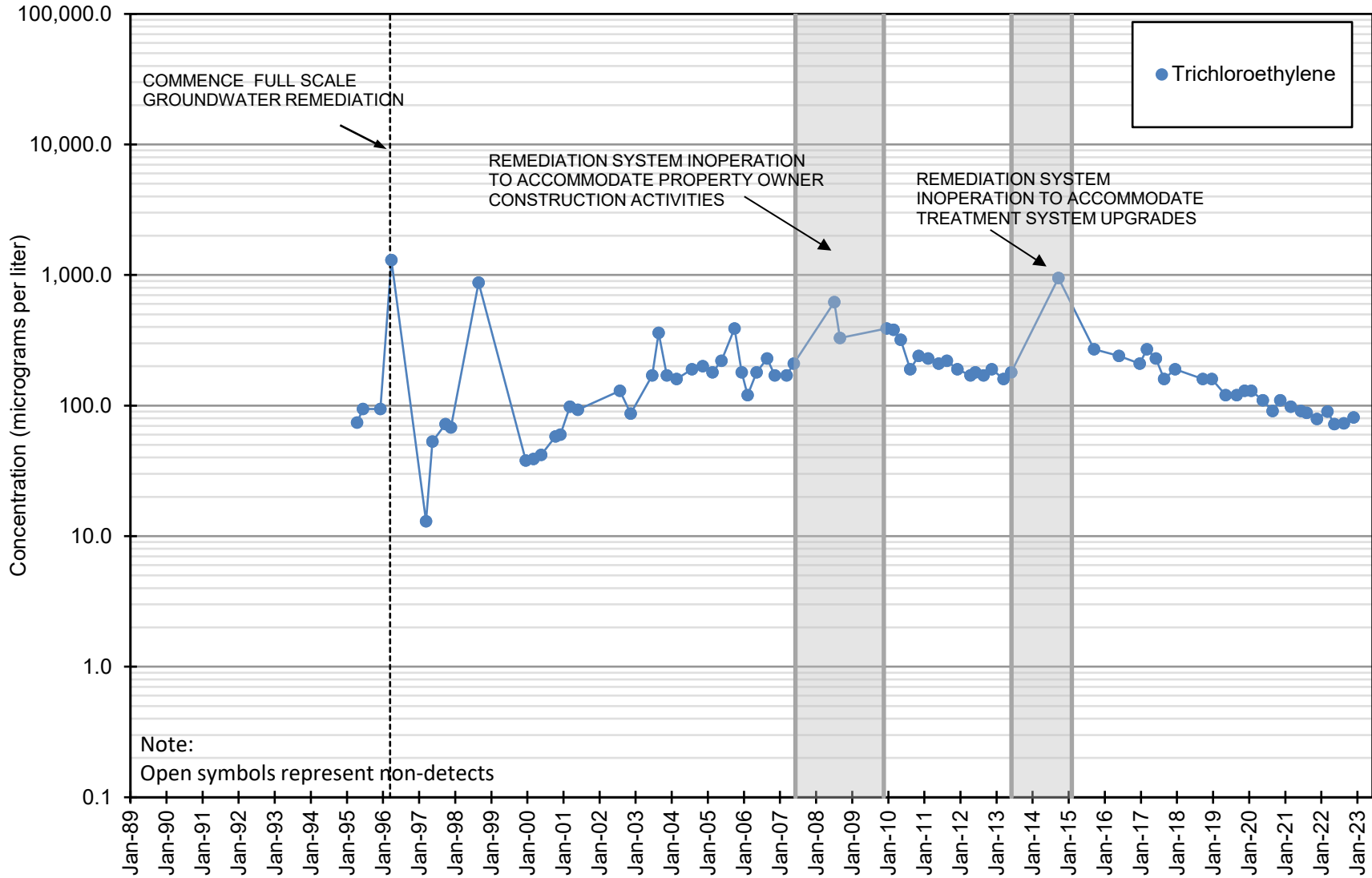


FIGURE 23. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL HEW-04

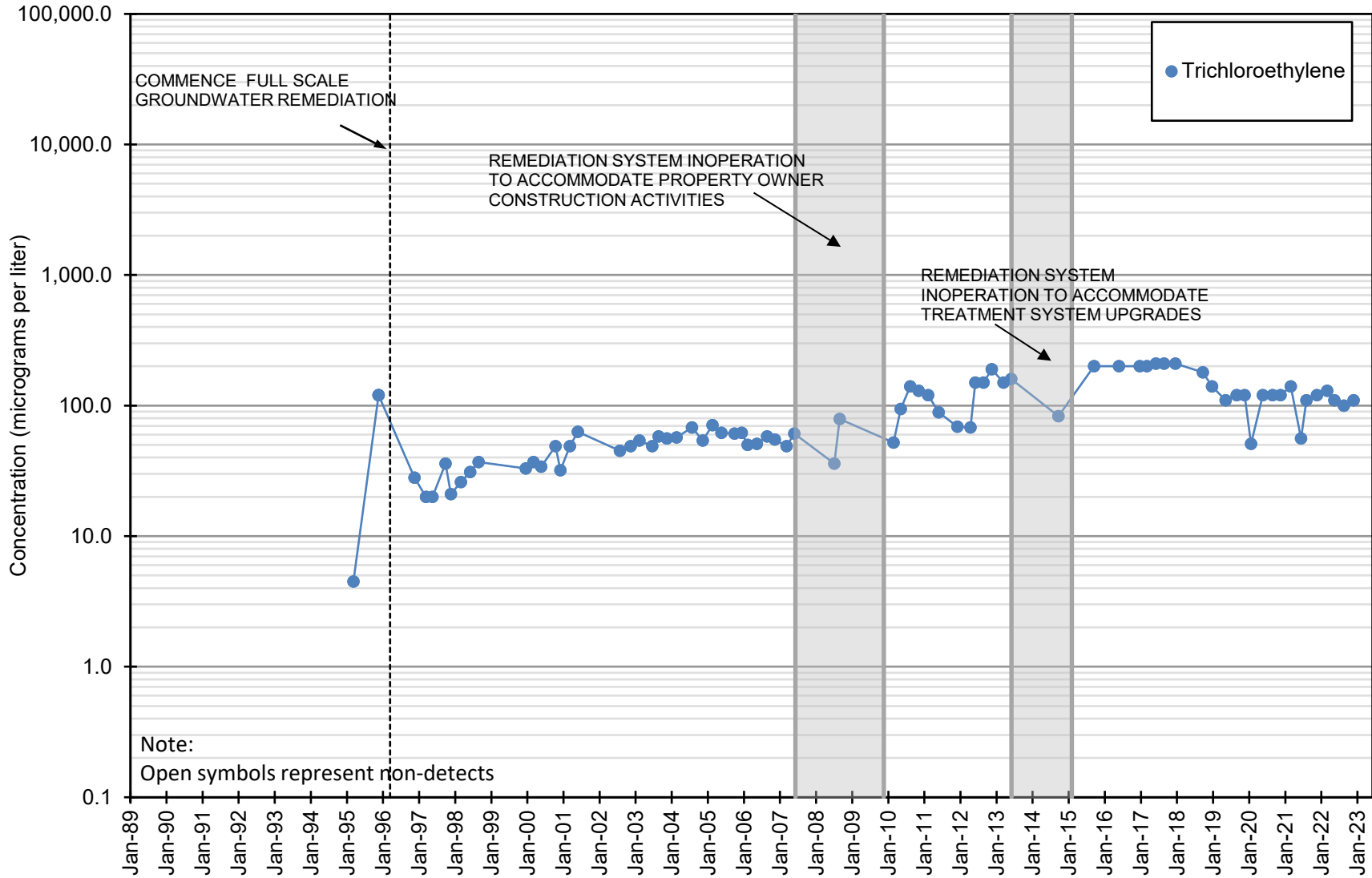


FIGURE 24. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL HEW-05

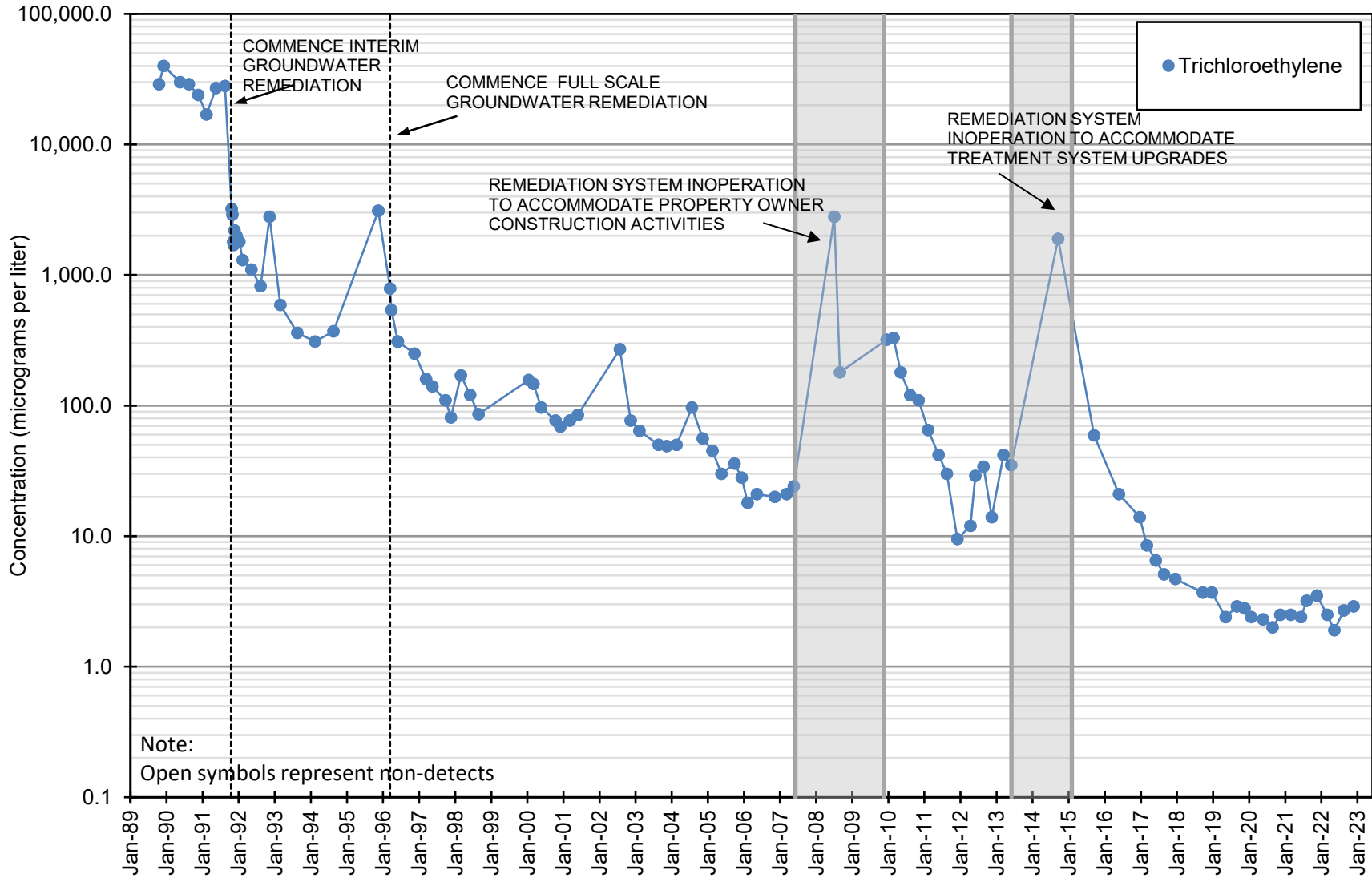


FIGURE 25. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL UAX-01

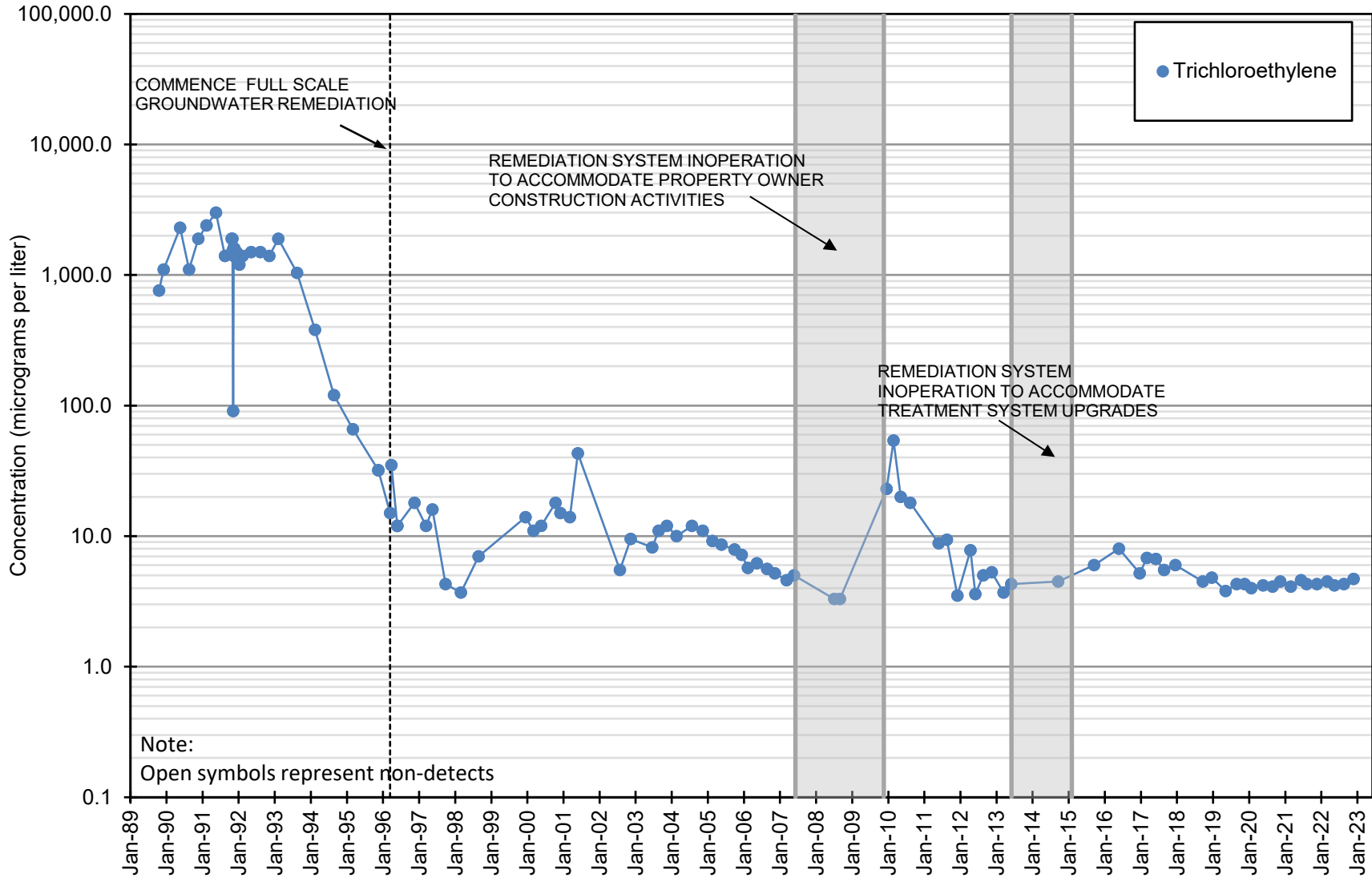


FIGURE 26. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL UAX-02

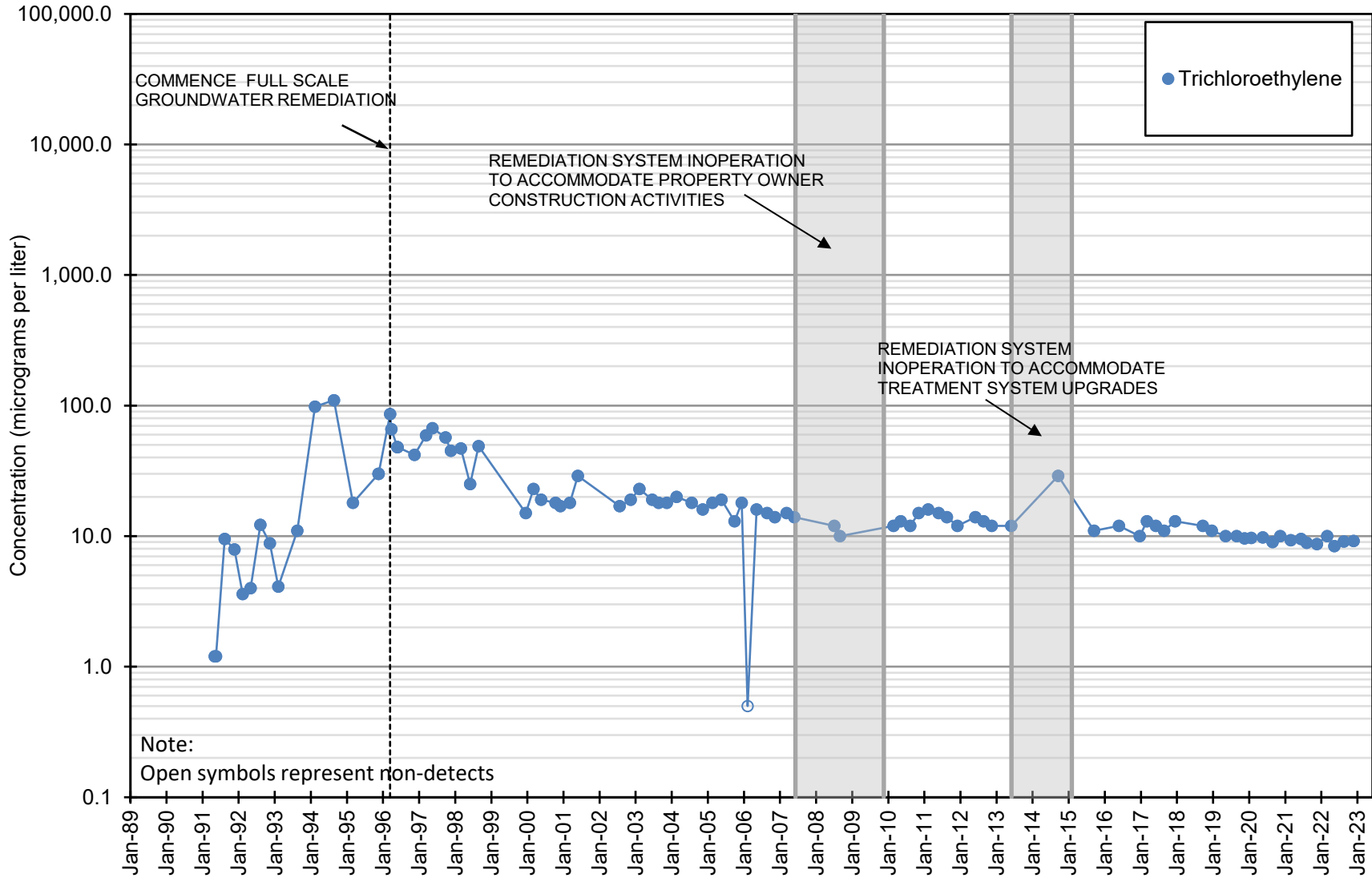


FIGURE 27. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL UAX-03

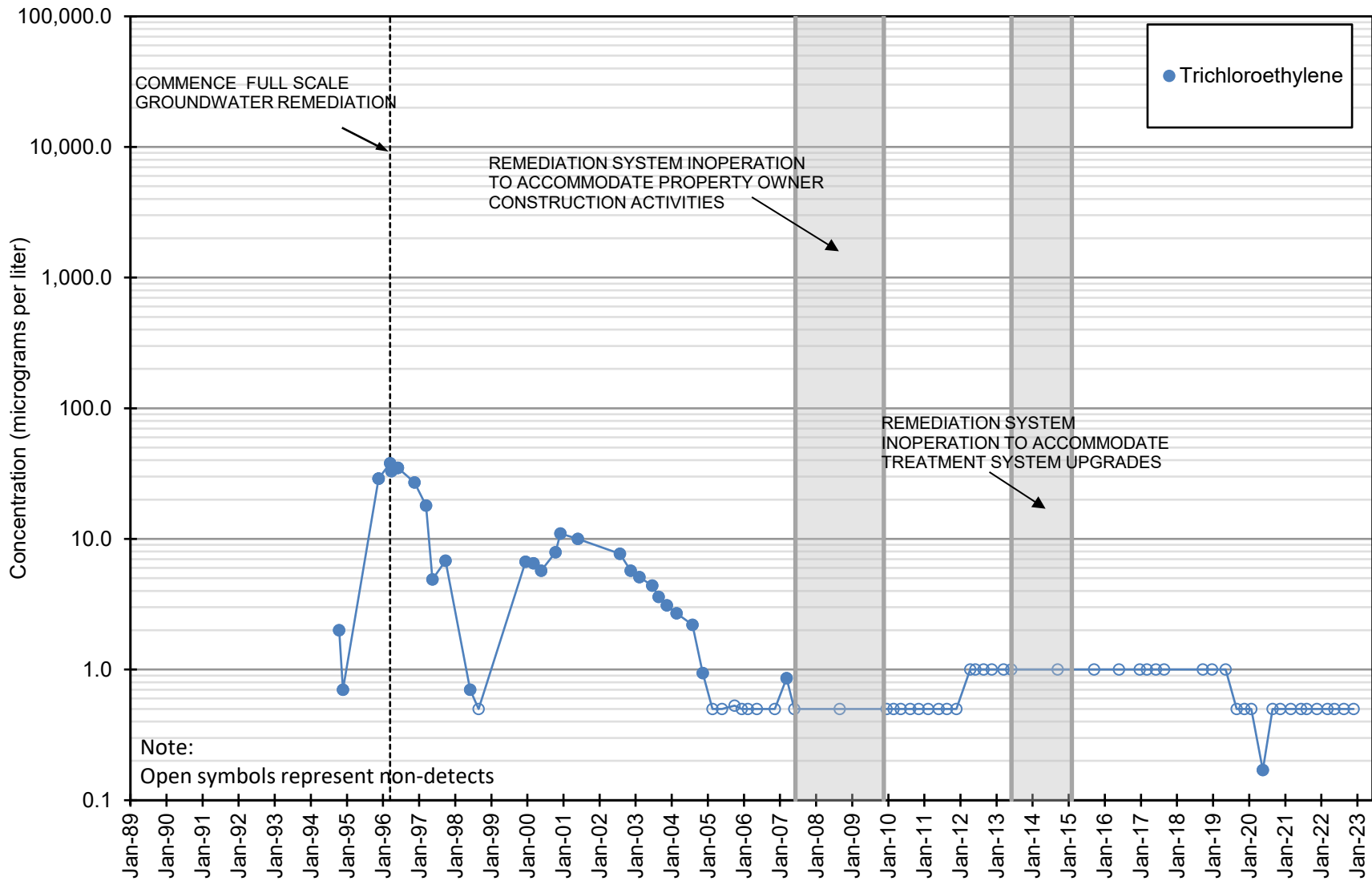


FIGURE 28. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL LAX-01

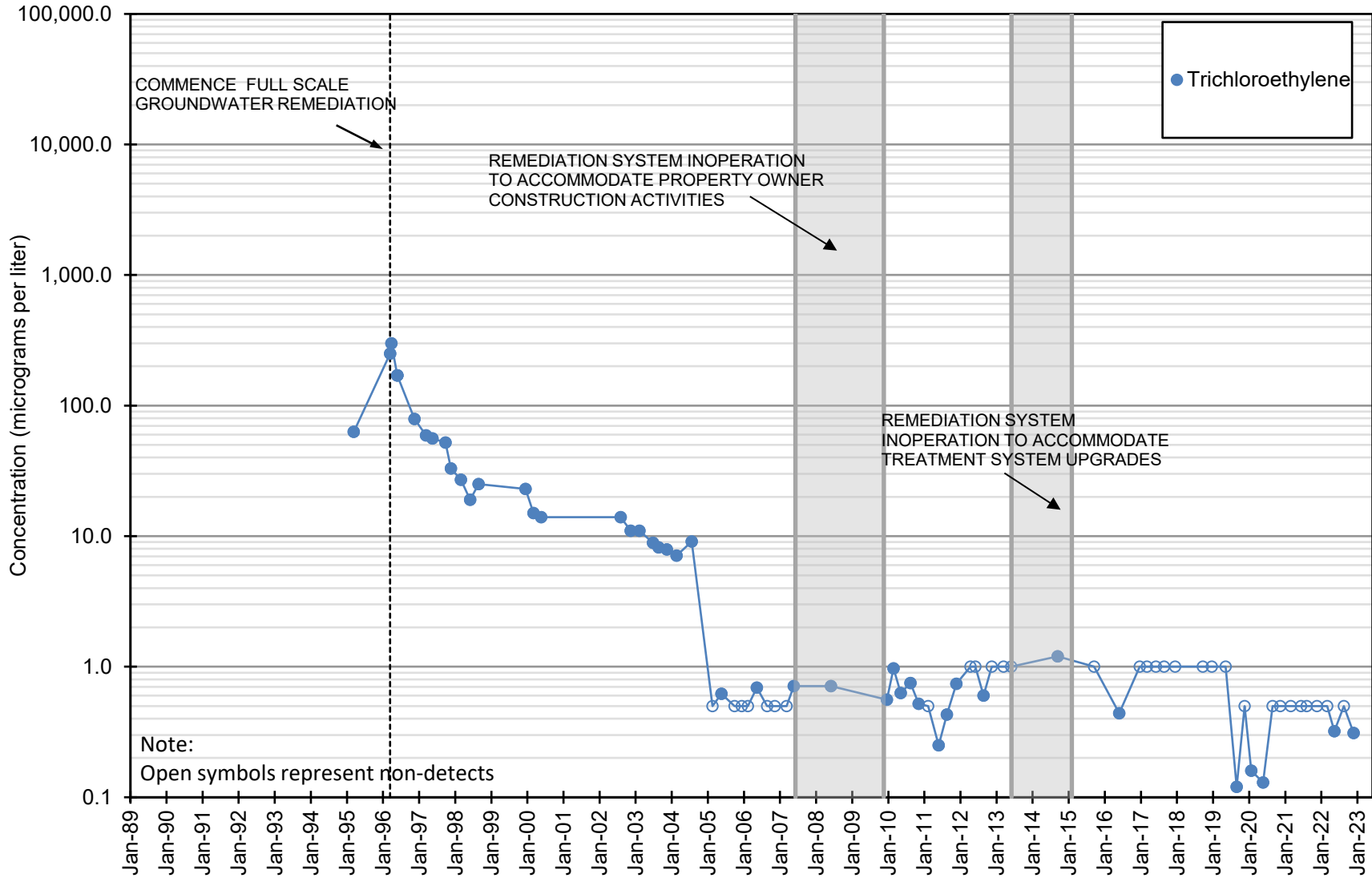


FIGURE 29. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL LAX-02

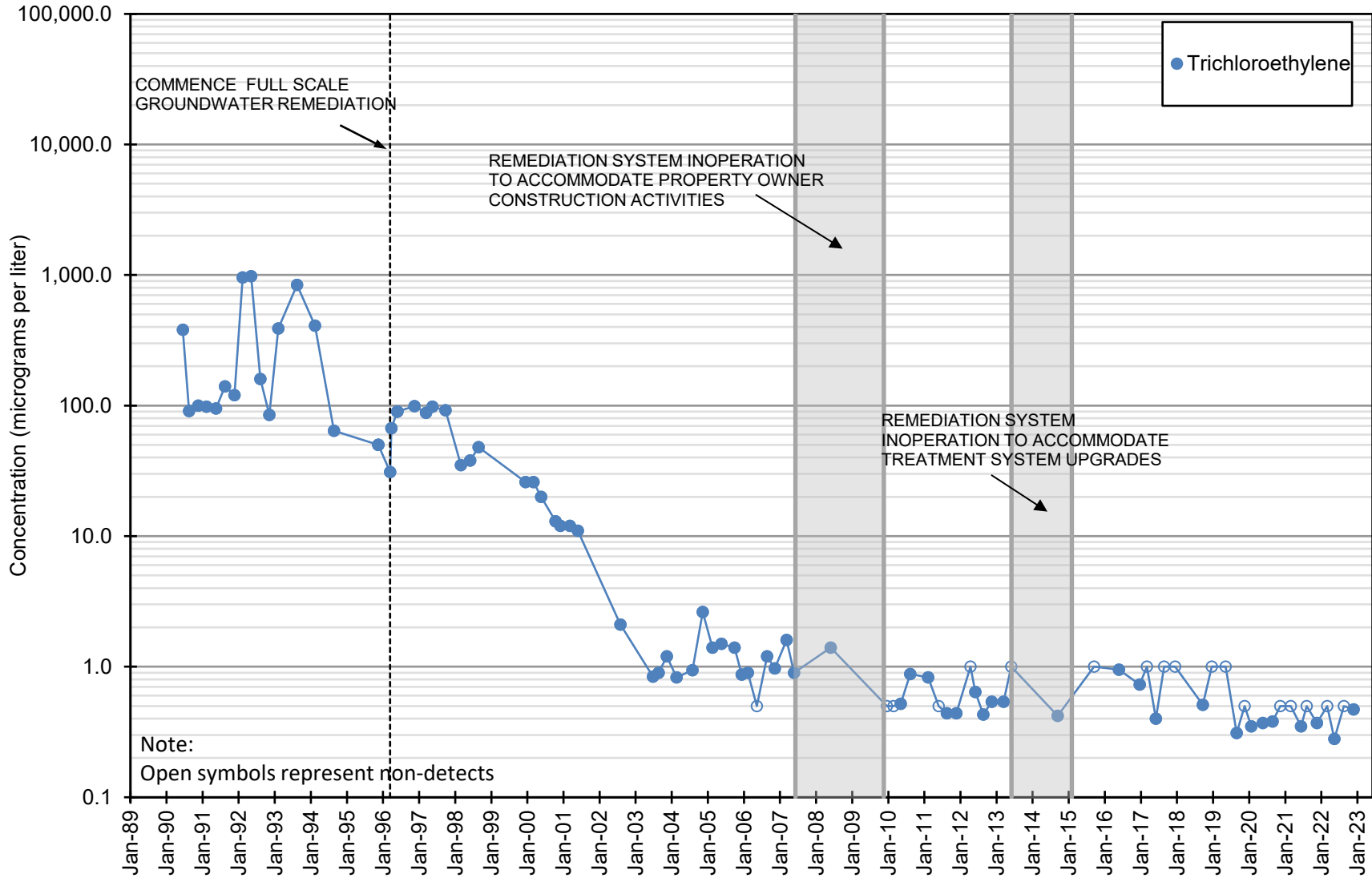
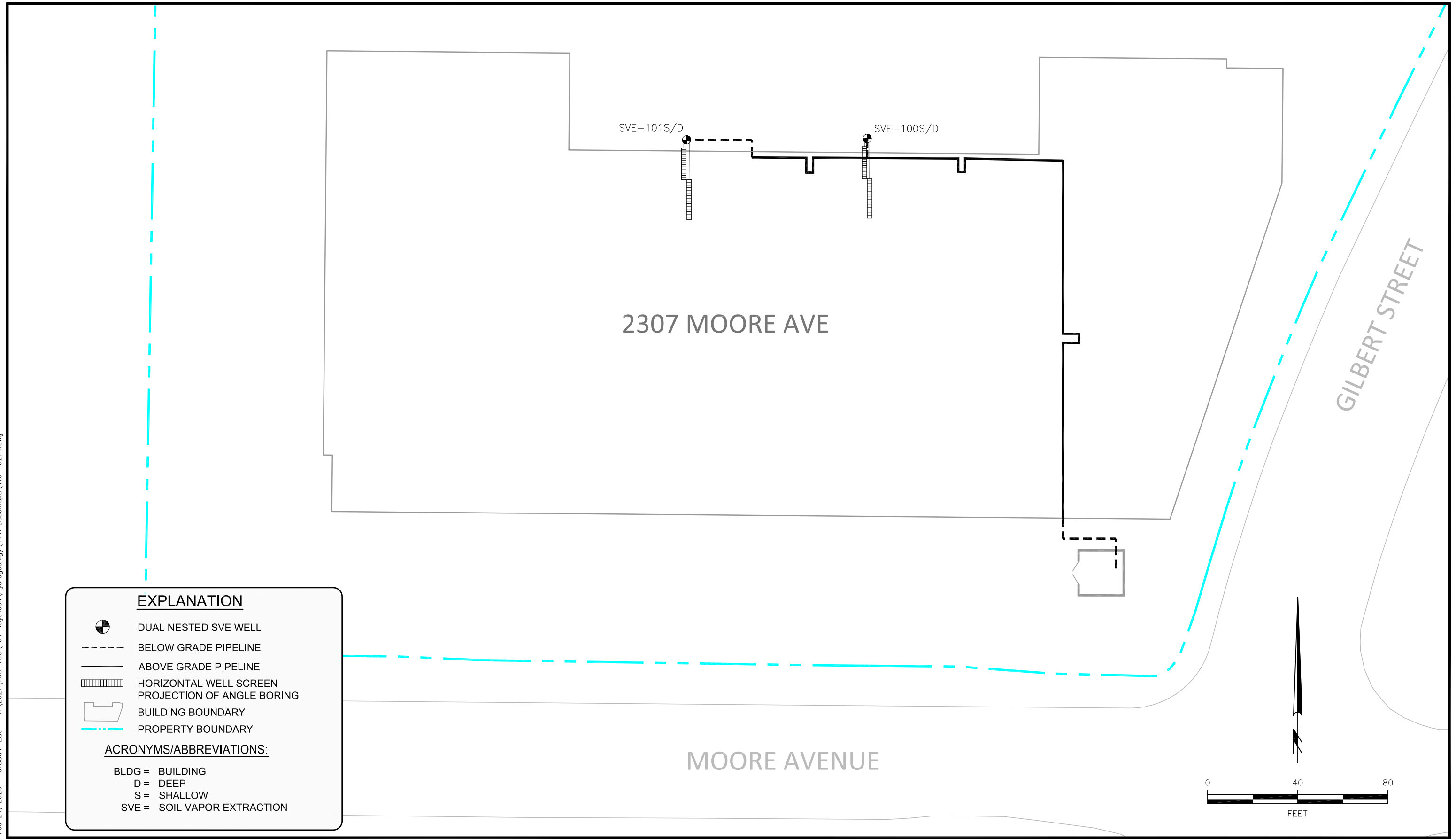









FIGURE 30. TRICHLOROETHYLENE CONCENTRATIONS IN EXTRACTION WELL LAX-03

Feb 24, 2023 - 9:38am ESS - I:\2021\700-799\764 Roytheon\Hydrogeology\H+A Basemaps\410-10274.dwg



EXPLANATION

-  DUAL NESTED SVE WELL
-  BELOW GRADE PIPELINE
-  ABOVE GRADE PIPELINE
-  HORIZONTAL WELL SCREEN
-  PROJECTION OF ANGLE BORING
-  BUILDING BOUNDARY
-  PROPERTY BOUNDARY

ACRONYMS/ABBREVIATIONS:

- BLDG = BUILDING
- D = DEEP
- S = SHALLOW
- SVE = SOIL VAPOR EXTRACTION

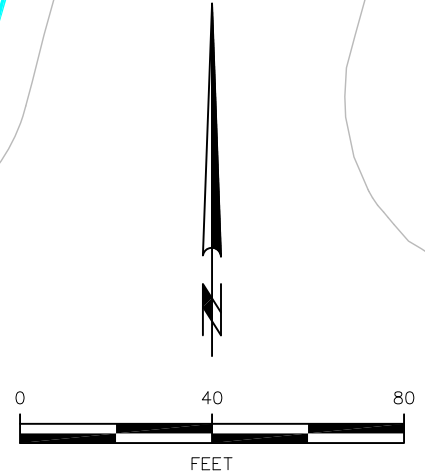


FIGURE 31. SITE PLAN
FORMER BUILDING 684 SVE SYSTEM, FULLERTON CALIFORNIA

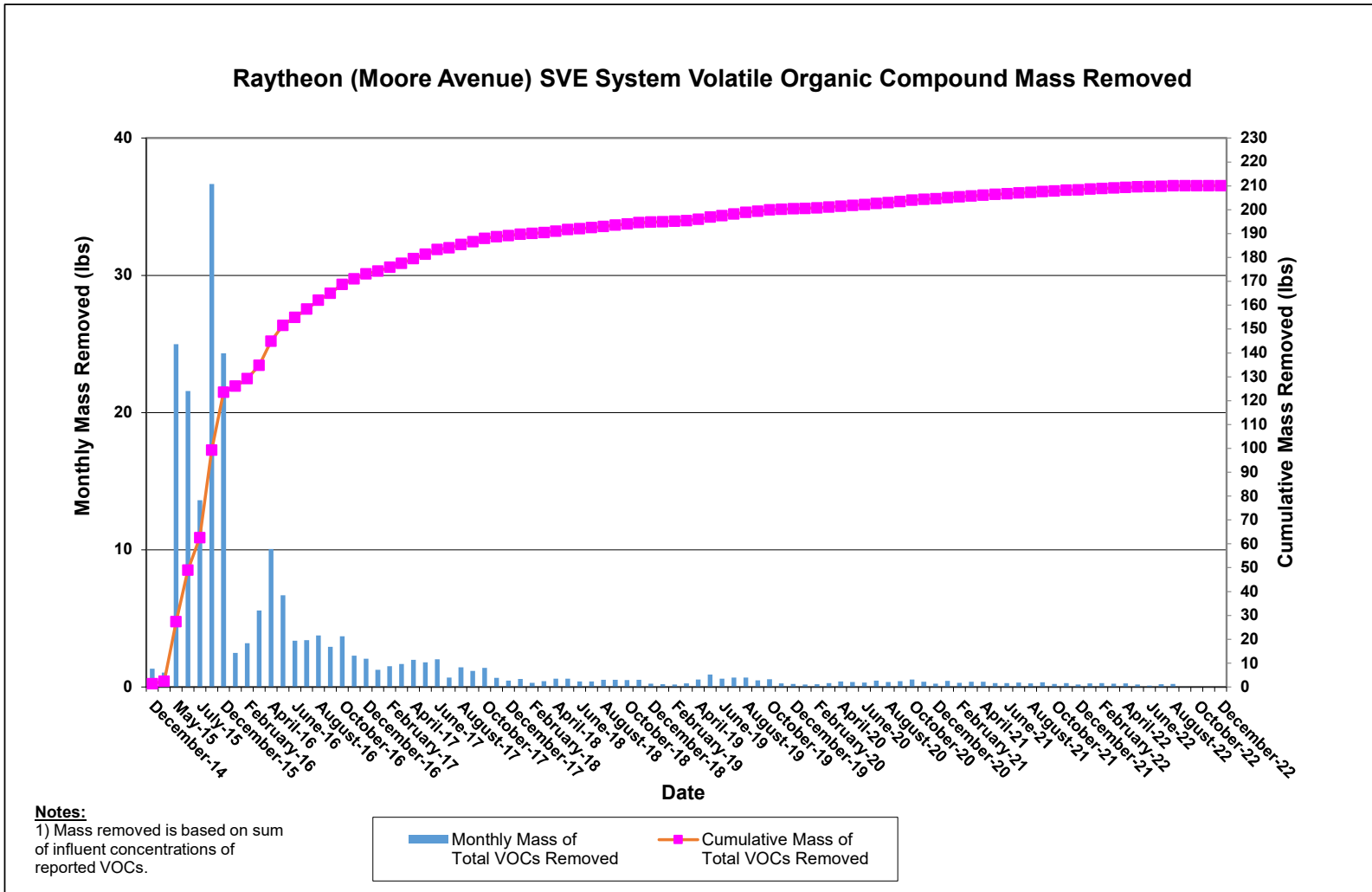


FIGURE 32. SVE SYSTEM CUMULATIVE VOC MASS REMOVED

APPENDIX A
LABORATORY ANALYTICAL DATA

ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-86626-1
Client Project/Site: Raytheon Full Scale/Bldg 684

For:
Hargis + Associates, Inc.
La Jolla Gateway
3131 Camino del Rio North
Suite 355
San Diego, California 92108

Attn: Steve Netto

Virendra & Patel

Authorized for release by:
3/15/2022 2:10:52 PM

Virendra Patel, Project Manager I
(714)895-5494
Virendra.Patel@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
me	LCS Recovery is within Marginal Exceedance (ME) control limit range (± 4 SD from the mean).

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Job ID: 570-86626-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-86626-1

Comments

No additional comments.

Receipt

The samples were received on 3/3/2022 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-218951 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 570-218951 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TB-030122 (570-86626-1), LAX-01 (570-86626-2), LAX-02 (570-86626-3), LAX-03 (570-86626-4), UAX-01 (570-86626-5), UAX-02 (570-86626-6), UAX-03 (570-86626-7), RB-030122 (570-86626-8), HEW-01 (570-86626-9), HEW-0100 (570-86626-10), HEW-02 (570-86626-11), HEW-03 (570-86626-12), HEW-04 (570-86626-13), HEW-05 (570-86626-14) and (CCVIS 570-218951/2).

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-218951. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-219230. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Client Sample ID: TB-030122

Lab Sample ID: 570-86626-1

No Detections.

Client Sample ID: LAX-01

Lab Sample ID: 570-86626-2

No Detections.

Client Sample ID: LAX-02

Lab Sample ID: 570-86626-3

No Detections.

Client Sample ID: LAX-03

Lab Sample ID: 570-86626-4

No Detections.

Client Sample ID: UAX-01

Lab Sample ID: 570-86626-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.0		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	2.5		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UAX-02

Lab Sample ID: 570-86626-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	3.6		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	4.5		0.50		ug/L	1		8260B	Total/NA
1,4-Dioxane	1.9		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: UAX-03

Lab Sample ID: 570-86626-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.65		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	10		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: RB-030122

Lab Sample ID: 570-86626-8

No Detections.

Client Sample ID: HEW-01

Lab Sample ID: 570-86626-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	10		5.0		ug/L	10		8260B	Total/NA
Trichloroethene	780		5.0		ug/L	10		8260B	Total/NA
1,4-Dioxane	2.4		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: HEW-0100

Lab Sample ID: 570-86626-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	750		10		ug/L	20		8260B	Total/NA
1,4-Dioxane	1.7		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: HEW-02

Lab Sample ID: 570-86626-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene - DL	96		1.0		ug/L	2		8260B	Total/NA

Client Sample ID: HEW-03

Lab Sample ID: 570-86626-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.2		2.0		ug/L	4		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Client Sample ID: HEW-03 (Continued)

Lab Sample ID: 570-86626-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	110		2.0		ug/L	4		8260B	Total/NA
1,4-Dioxane	1.5		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: HEW-04

Lab Sample ID: 570-86626-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	90		2.0		ug/L	4		8260B	Total/NA
1,4-Dioxane	8.4		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: HEW-05

Lab Sample ID: 570-86626-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.2		1.0		ug/L	2		8260B	Total/NA
Trichloroethene	130		1.0		ug/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-030122
Date Collected: 03/01/22 08:00
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/11/22 21:40	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/11/22 21:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/11/22 21:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/11/22 21:40	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/11/22 21:40	1
1,1-Dichloroethane	ND		0.50		ug/L			03/11/22 21:40	1
1,1-Dichloroethene	ND		0.50		ug/L			03/11/22 21:40	1
1,1-Dichloropropene	ND		0.50		ug/L			03/11/22 21:40	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/11/22 21:40	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/11/22 21:40	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/11/22 21:40	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/11/22 21:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/11/22 21:40	1
1,2-Dibromoethane	ND		0.50		ug/L			03/11/22 21:40	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/11/22 21:40	1
1,2-Dichloroethane	ND		0.50		ug/L			03/11/22 21:40	1
1,2-Dichloropropane	ND		0.50		ug/L			03/11/22 21:40	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/11/22 21:40	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/11/22 21:40	1
1,3-Dichloropropane	ND		0.50		ug/L			03/11/22 21:40	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/11/22 21:40	1
2,2-Dichloropropane	ND		0.50		ug/L			03/11/22 21:40	1
2-Butanone	ND		5.0		ug/L			03/11/22 21:40	1
2-Chlorotoluene	ND		0.50		ug/L			03/11/22 21:40	1
2-Hexanone	ND		6.0		ug/L			03/11/22 21:40	1
4-Chlorotoluene	ND		0.50		ug/L			03/11/22 21:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/11/22 21:40	1
Acetone	ND		8.0		ug/L			03/11/22 21:40	1
Benzene	ND		0.50		ug/L			03/11/22 21:40	1
Bromobenzene	ND		0.50		ug/L			03/11/22 21:40	1
Bromochloromethane	ND		1.0		ug/L			03/11/22 21:40	1
Bromodichloromethane	ND		0.50		ug/L			03/11/22 21:40	1
Bromoform	ND		0.50		ug/L			03/11/22 21:40	1
Bromomethane	ND	*+	2.0		ug/L			03/11/22 21:40	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/11/22 21:40	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/11/22 21:40	1
Carbon disulfide	ND		1.0		ug/L			03/11/22 21:40	1
Carbon tetrachloride	ND		0.50		ug/L			03/11/22 21:40	1
Chlorobenzene	ND		0.50		ug/L			03/11/22 21:40	1
Chloroethane	ND		0.50		ug/L			03/11/22 21:40	1
Chloroform	ND		0.50		ug/L			03/11/22 21:40	1
Chloromethane	ND		1.0		ug/L			03/11/22 21:40	1
Dibromochloromethane	ND		0.50		ug/L			03/11/22 21:40	1
Dibromomethane	ND		0.50		ug/L			03/11/22 21:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/11/22 21:40	1
Ethylbenzene	ND		0.50		ug/L			03/11/22 21:40	1
Isopropylbenzene	ND		0.50		ug/L			03/11/22 21:40	1
Methylene Chloride	ND		1.0		ug/L			03/11/22 21:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/11/22 21:40	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-030122
Date Collected: 03/01/22 08:00
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			03/11/22 21:40	1
n-Butylbenzene	ND		0.50		ug/L			03/11/22 21:40	1
N-Propylbenzene	ND		0.50		ug/L			03/11/22 21:40	1
o-Xylene	ND		0.50		ug/L			03/11/22 21:40	1
m,p-Xylene	ND		1.0		ug/L			03/11/22 21:40	1
p-Isopropyltoluene	ND		0.50		ug/L			03/11/22 21:40	1
sec-Butylbenzene	ND		0.50		ug/L			03/11/22 21:40	1
Styrene	ND		0.50		ug/L			03/11/22 21:40	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/11/22 21:40	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/11/22 21:40	1
tert-Butylbenzene	ND		0.50		ug/L			03/11/22 21:40	1
Tetrachloroethene	ND		0.50		ug/L			03/11/22 21:40	1
Toluene	ND		0.50		ug/L			03/11/22 21:40	1
Trichloroethene	ND		0.50		ug/L			03/11/22 21:40	1
Trichlorofluoromethane	ND		0.50		ug/L			03/11/22 21:40	1
Vinyl acetate	ND		5.0		ug/L			03/11/22 21:40	1
Vinyl chloride	ND		0.50		ug/L			03/11/22 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 132		03/11/22 21:40	1
4-Bromofluorobenzene (Surr)	84		76 - 120		03/11/22 21:40	1
Dibromofluoromethane	101		80 - 120		03/11/22 21:40	1
Toluene-d8 (Surr)	102		80 - 120		03/11/22 21:40	1

Client Sample ID: LAX-01
Date Collected: 03/02/22 09:05
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/11/22 23:43	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/11/22 23:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/11/22 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/11/22 23:43	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/11/22 23:43	1
1,1-Dichloroethane	ND		0.50		ug/L			03/11/22 23:43	1
1,1-Dichloroethene	ND		0.50		ug/L			03/11/22 23:43	1
1,1-Dichloropropene	ND		0.50		ug/L			03/11/22 23:43	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/11/22 23:43	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/11/22 23:43	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/11/22 23:43	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/11/22 23:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/11/22 23:43	1
1,2-Dibromoethane	ND		0.50		ug/L			03/11/22 23:43	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/11/22 23:43	1
1,2-Dichloroethane	ND		0.50		ug/L			03/11/22 23:43	1
1,2-Dichloropropane	ND		0.50		ug/L			03/11/22 23:43	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/11/22 23:43	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/11/22 23:43	1
1,3-Dichloropropane	ND		0.50		ug/L			03/11/22 23:43	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/11/22 23:43	1
2,2-Dichloropropane	ND		0.50		ug/L			03/11/22 23:43	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-01
Date Collected: 03/02/22 09:05
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			03/11/22 23:43	1
2-Chlorotoluene	ND		0.50		ug/L			03/11/22 23:43	1
2-Hexanone	ND		6.0		ug/L			03/11/22 23:43	1
4-Chlorotoluene	ND		0.50		ug/L			03/11/22 23:43	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/11/22 23:43	1
Acetone	ND		8.0		ug/L			03/11/22 23:43	1
Benzene	ND		0.50		ug/L			03/11/22 23:43	1
Bromobenzene	ND		0.50		ug/L			03/11/22 23:43	1
Bromochloromethane	ND		1.0		ug/L			03/11/22 23:43	1
Bromodichloromethane	ND		0.50		ug/L			03/11/22 23:43	1
Bromoform	ND		0.50		ug/L			03/11/22 23:43	1
Bromomethane	ND	*+	2.0		ug/L			03/11/22 23:43	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/11/22 23:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/11/22 23:43	1
Carbon disulfide	ND		1.0		ug/L			03/11/22 23:43	1
Carbon tetrachloride	ND		0.50		ug/L			03/11/22 23:43	1
Chlorobenzene	ND		0.50		ug/L			03/11/22 23:43	1
Chloroethane	ND		0.50		ug/L			03/11/22 23:43	1
Chloroform	ND		0.50		ug/L			03/11/22 23:43	1
Chloromethane	ND		1.0		ug/L			03/11/22 23:43	1
Dibromochloromethane	ND		0.50		ug/L			03/11/22 23:43	1
Dibromomethane	ND		0.50		ug/L			03/11/22 23:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/11/22 23:43	1
Ethylbenzene	ND		0.50		ug/L			03/11/22 23:43	1
Isopropylbenzene	ND		0.50		ug/L			03/11/22 23:43	1
Methylene Chloride	ND		1.0		ug/L			03/11/22 23:43	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/11/22 23:43	1
Naphthalene	ND		1.0		ug/L			03/11/22 23:43	1
n-Butylbenzene	ND		0.50		ug/L			03/11/22 23:43	1
N-Propylbenzene	ND		0.50		ug/L			03/11/22 23:43	1
o-Xylene	ND		0.50		ug/L			03/11/22 23:43	1
m,p-Xylene	ND		1.0		ug/L			03/11/22 23:43	1
p-Isopropyltoluene	ND		0.50		ug/L			03/11/22 23:43	1
sec-Butylbenzene	ND		0.50		ug/L			03/11/22 23:43	1
Styrene	ND		0.50		ug/L			03/11/22 23:43	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/11/22 23:43	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/11/22 23:43	1
tert-Butylbenzene	ND		0.50		ug/L			03/11/22 23:43	1
Tetrachloroethene	ND		0.50		ug/L			03/11/22 23:43	1
Toluene	ND		0.50		ug/L			03/11/22 23:43	1
Trichloroethene	ND		0.50		ug/L			03/11/22 23:43	1
Trichlorofluoromethane	ND		0.50		ug/L			03/11/22 23:43	1
Vinyl acetate	ND		5.0		ug/L			03/11/22 23:43	1
Vinyl chloride	ND		0.50		ug/L			03/11/22 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		64 - 132		03/11/22 23:43	1
4-Bromofluorobenzene (Surr)	85		76 - 120		03/11/22 23:43	1
Dibromofluoromethane	111		80 - 120		03/11/22 23:43	1
Toluene-d8 (Surr)	104		80 - 120		03/11/22 23:43	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LAX-02
Date Collected: 03/01/22 08:45
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 00:08	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/12/22 00:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/12/22 00:08	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/12/22 00:08	1
1,1-Dichloroethane	ND		0.50		ug/L			03/12/22 00:08	1
1,1-Dichloroethene	ND		0.50		ug/L			03/12/22 00:08	1
1,1-Dichloropropene	ND		0.50		ug/L			03/12/22 00:08	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/12/22 00:08	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/12/22 00:08	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/12/22 00:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/12/22 00:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/12/22 00:08	1
1,2-Dibromoethane	ND		0.50		ug/L			03/12/22 00:08	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:08	1
1,2-Dichloroethane	ND		0.50		ug/L			03/12/22 00:08	1
1,2-Dichloropropane	ND		0.50		ug/L			03/12/22 00:08	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/12/22 00:08	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:08	1
1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 00:08	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:08	1
2,2-Dichloropropane	ND		0.50		ug/L			03/12/22 00:08	1
2-Butanone	ND		5.0		ug/L			03/12/22 00:08	1
2-Chlorotoluene	ND		0.50		ug/L			03/12/22 00:08	1
2-Hexanone	ND		6.0		ug/L			03/12/22 00:08	1
4-Chlorotoluene	ND		0.50		ug/L			03/12/22 00:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/12/22 00:08	1
Acetone	ND		8.0		ug/L			03/12/22 00:08	1
Benzene	ND		0.50		ug/L			03/12/22 00:08	1
Bromobenzene	ND		0.50		ug/L			03/12/22 00:08	1
Bromochloromethane	ND		1.0		ug/L			03/12/22 00:08	1
Bromodichloromethane	ND		0.50		ug/L			03/12/22 00:08	1
Bromoform	ND		0.50		ug/L			03/12/22 00:08	1
Bromomethane	ND	*+	2.0		ug/L			03/12/22 00:08	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 00:08	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 00:08	1
Carbon disulfide	ND		1.0		ug/L			03/12/22 00:08	1
Carbon tetrachloride	ND		0.50		ug/L			03/12/22 00:08	1
Chlorobenzene	ND		0.50		ug/L			03/12/22 00:08	1
Chloroethane	ND		0.50		ug/L			03/12/22 00:08	1
Chloroform	ND		0.50		ug/L			03/12/22 00:08	1
Chloromethane	ND		1.0		ug/L			03/12/22 00:08	1
Dibromochloromethane	ND		0.50		ug/L			03/12/22 00:08	1
Dibromomethane	ND		0.50		ug/L			03/12/22 00:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/12/22 00:08	1
Ethylbenzene	ND		0.50		ug/L			03/12/22 00:08	1
Isopropylbenzene	ND		0.50		ug/L			03/12/22 00:08	1
Methylene Chloride	ND		1.0		ug/L			03/12/22 00:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/12/22 00:08	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-02
Date Collected: 03/01/22 08:45
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			03/12/22 00:08	1
n-Butylbenzene	ND		0.50		ug/L			03/12/22 00:08	1
N-Propylbenzene	ND		0.50		ug/L			03/12/22 00:08	1
o-Xylene	ND		0.50		ug/L			03/12/22 00:08	1
m,p-Xylene	ND		1.0		ug/L			03/12/22 00:08	1
p-Isopropyltoluene	ND		0.50		ug/L			03/12/22 00:08	1
sec-Butylbenzene	ND		0.50		ug/L			03/12/22 00:08	1
Styrene	ND		0.50		ug/L			03/12/22 00:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 00:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 00:08	1
tert-Butylbenzene	ND		0.50		ug/L			03/12/22 00:08	1
Tetrachloroethene	ND		0.50		ug/L			03/12/22 00:08	1
Toluene	ND		0.50		ug/L			03/12/22 00:08	1
Trichloroethene	ND		0.50		ug/L			03/12/22 00:08	1
Trichlorofluoromethane	ND		0.50		ug/L			03/12/22 00:08	1
Vinyl acetate	ND		5.0		ug/L			03/12/22 00:08	1
Vinyl chloride	ND		0.50		ug/L			03/12/22 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		64 - 132		03/12/22 00:08	1
<i>4-Bromofluorobenzene (Surr)</i>	86		76 - 120		03/12/22 00:08	1
<i>Dibromofluoromethane</i>	108		80 - 120		03/12/22 00:08	1
<i>Toluene-d8 (Surr)</i>	107		80 - 120		03/12/22 00:08	1

Client Sample ID: LAX-03
Date Collected: 03/01/22 09:35
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 00:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/12/22 00:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 00:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/12/22 00:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/12/22 00:33	1
1,1-Dichloroethane	ND		0.50		ug/L			03/12/22 00:33	1
1,1-Dichloroethene	ND		0.50		ug/L			03/12/22 00:33	1
1,1-Dichloropropene	ND		0.50		ug/L			03/12/22 00:33	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/12/22 00:33	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/12/22 00:33	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/12/22 00:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/12/22 00:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/12/22 00:33	1
1,2-Dibromoethane	ND		0.50		ug/L			03/12/22 00:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:33	1
1,2-Dichloroethane	ND		0.50		ug/L			03/12/22 00:33	1
1,2-Dichloropropane	ND		0.50		ug/L			03/12/22 00:33	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/12/22 00:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:33	1
1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 00:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:33	1
2,2-Dichloropropane	ND		0.50		ug/L			03/12/22 00:33	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-03
Date Collected: 03/01/22 09:35
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			03/12/22 00:33	1
2-Chlorotoluene	ND		0.50		ug/L			03/12/22 00:33	1
2-Hexanone	ND		6.0		ug/L			03/12/22 00:33	1
4-Chlorotoluene	ND		0.50		ug/L			03/12/22 00:33	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/12/22 00:33	1
Acetone	ND		8.0		ug/L			03/12/22 00:33	1
Benzene	ND		0.50		ug/L			03/12/22 00:33	1
Bromobenzene	ND		0.50		ug/L			03/12/22 00:33	1
Bromochloromethane	ND		1.0		ug/L			03/12/22 00:33	1
Bromodichloromethane	ND		0.50		ug/L			03/12/22 00:33	1
Bromoform	ND		0.50		ug/L			03/12/22 00:33	1
Bromomethane	ND	*+	2.0		ug/L			03/12/22 00:33	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 00:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 00:33	1
Carbon disulfide	ND		1.0		ug/L			03/12/22 00:33	1
Carbon tetrachloride	ND		0.50		ug/L			03/12/22 00:33	1
Chlorobenzene	ND		0.50		ug/L			03/12/22 00:33	1
Chloroethane	ND		0.50		ug/L			03/12/22 00:33	1
Chloroform	ND		0.50		ug/L			03/12/22 00:33	1
Chloromethane	ND		1.0		ug/L			03/12/22 00:33	1
Dibromochloromethane	ND		0.50		ug/L			03/12/22 00:33	1
Dibromomethane	ND		0.50		ug/L			03/12/22 00:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/12/22 00:33	1
Ethylbenzene	ND		0.50		ug/L			03/12/22 00:33	1
Isopropylbenzene	ND		0.50		ug/L			03/12/22 00:33	1
Methylene Chloride	ND		1.0		ug/L			03/12/22 00:33	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/12/22 00:33	1
Naphthalene	ND		1.0		ug/L			03/12/22 00:33	1
n-Butylbenzene	ND		0.50		ug/L			03/12/22 00:33	1
N-Propylbenzene	ND		0.50		ug/L			03/12/22 00:33	1
o-Xylene	ND		0.50		ug/L			03/12/22 00:33	1
m,p-Xylene	ND		1.0		ug/L			03/12/22 00:33	1
p-Isopropyltoluene	ND		0.50		ug/L			03/12/22 00:33	1
sec-Butylbenzene	ND		0.50		ug/L			03/12/22 00:33	1
Styrene	ND		0.50		ug/L			03/12/22 00:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 00:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 00:33	1
tert-Butylbenzene	ND		0.50		ug/L			03/12/22 00:33	1
Tetrachloroethene	ND		0.50		ug/L			03/12/22 00:33	1
Toluene	ND		0.50		ug/L			03/12/22 00:33	1
Trichloroethene	ND		0.50		ug/L			03/12/22 00:33	1
Trichlorofluoromethane	ND		0.50		ug/L			03/12/22 00:33	1
Vinyl acetate	ND		5.0		ug/L			03/12/22 00:33	1
Vinyl chloride	ND		0.50		ug/L			03/12/22 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		64 - 132		03/12/22 00:33	1
4-Bromofluorobenzene (Surr)	85		76 - 120		03/12/22 00:33	1
Dibromofluoromethane	110		80 - 120		03/12/22 00:33	1
Toluene-d8 (Surr)	105		80 - 120		03/12/22 00:33	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UAX-01
Date Collected: 03/01/22 15:50
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 00:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/12/22 00:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 00:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/12/22 00:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/12/22 00:58	1
1,1-Dichloroethane	ND		0.50		ug/L			03/12/22 00:58	1
1,1-Dichloroethene	2.0		0.50		ug/L			03/12/22 00:58	1
1,1-Dichloropropene	ND		0.50		ug/L			03/12/22 00:58	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/12/22 00:58	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/12/22 00:58	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/12/22 00:58	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/12/22 00:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/12/22 00:58	1
1,2-Dibromoethane	ND		0.50		ug/L			03/12/22 00:58	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:58	1
1,2-Dichloroethane	ND		0.50		ug/L			03/12/22 00:58	1
1,2-Dichloropropane	ND		0.50		ug/L			03/12/22 00:58	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/12/22 00:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:58	1
1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 00:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/12/22 00:58	1
2,2-Dichloropropane	ND		0.50		ug/L			03/12/22 00:58	1
2-Butanone	ND		5.0		ug/L			03/12/22 00:58	1
2-Chlorotoluene	ND		0.50		ug/L			03/12/22 00:58	1
2-Hexanone	ND		6.0		ug/L			03/12/22 00:58	1
4-Chlorotoluene	ND		0.50		ug/L			03/12/22 00:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/12/22 00:58	1
Acetone	ND		8.0		ug/L			03/12/22 00:58	1
Benzene	ND		0.50		ug/L			03/12/22 00:58	1
Bromobenzene	ND		0.50		ug/L			03/12/22 00:58	1
Bromochloromethane	ND		1.0		ug/L			03/12/22 00:58	1
Bromodichloromethane	ND		0.50		ug/L			03/12/22 00:58	1
Bromoform	ND		0.50		ug/L			03/12/22 00:58	1
Bromomethane	ND	+	2.0		ug/L			03/12/22 00:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 00:58	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 00:58	1
Carbon disulfide	ND		1.0		ug/L			03/12/22 00:58	1
Carbon tetrachloride	ND		0.50		ug/L			03/12/22 00:58	1
Chlorobenzene	ND		0.50		ug/L			03/12/22 00:58	1
Chloroethane	ND		0.50		ug/L			03/12/22 00:58	1
Chloroform	ND		0.50		ug/L			03/12/22 00:58	1
Chloromethane	ND		1.0		ug/L			03/12/22 00:58	1
Dibromochloromethane	ND		0.50		ug/L			03/12/22 00:58	1
Dibromomethane	ND		0.50		ug/L			03/12/22 00:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/12/22 00:58	1
Ethylbenzene	ND		0.50		ug/L			03/12/22 00:58	1
Isopropylbenzene	ND		0.50		ug/L			03/12/22 00:58	1
Methylene Chloride	ND		1.0		ug/L			03/12/22 00:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/12/22 00:58	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-01
Date Collected: 03/01/22 15:50
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			03/12/22 00:58	1
n-Butylbenzene	ND		0.50		ug/L			03/12/22 00:58	1
N-Propylbenzene	ND		0.50		ug/L			03/12/22 00:58	1
o-Xylene	ND		0.50		ug/L			03/12/22 00:58	1
m,p-Xylene	ND		1.0		ug/L			03/12/22 00:58	1
p-Isopropyltoluene	ND		0.50		ug/L			03/12/22 00:58	1
sec-Butylbenzene	ND		0.50		ug/L			03/12/22 00:58	1
Styrene	ND		0.50		ug/L			03/12/22 00:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 00:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 00:58	1
tert-Butylbenzene	ND		0.50		ug/L			03/12/22 00:58	1
Tetrachloroethene	ND		0.50		ug/L			03/12/22 00:58	1
Toluene	ND		0.50		ug/L			03/12/22 00:58	1
Trichloroethene	2.5		0.50		ug/L			03/12/22 00:58	1
Trichlorofluoromethane	ND		0.50		ug/L			03/12/22 00:58	1
Vinyl acetate	ND		5.0		ug/L			03/12/22 00:58	1
Vinyl chloride	ND		0.50		ug/L			03/12/22 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		64 - 132		03/12/22 00:58	1
4-Bromofluorobenzene (Surr)	84		76 - 120		03/12/22 00:58	1
Dibromofluoromethane	114		80 - 120		03/12/22 00:58	1
Toluene-d8 (Surr)	106		80 - 120		03/12/22 00:58	1

Client Sample ID: UAX-02
Date Collected: 03/01/22 09:50
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 01:23	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/12/22 01:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/12/22 01:23	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/12/22 01:23	1
1,1-Dichloroethane	ND		0.50		ug/L			03/12/22 01:23	1
1,1-Dichloroethene	3.6		0.50		ug/L			03/12/22 01:23	1
1,1-Dichloropropene	ND		0.50		ug/L			03/12/22 01:23	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/12/22 01:23	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/12/22 01:23	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/12/22 01:23	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/12/22 01:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/12/22 01:23	1
1,2-Dibromoethane	ND		0.50		ug/L			03/12/22 01:23	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/12/22 01:23	1
1,2-Dichloroethane	ND		0.50		ug/L			03/12/22 01:23	1
1,2-Dichloropropane	ND		0.50		ug/L			03/12/22 01:23	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/12/22 01:23	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/12/22 01:23	1
1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 01:23	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/12/22 01:23	1
2,2-Dichloropropane	ND		0.50		ug/L			03/12/22 01:23	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-02
Date Collected: 03/01/22 09:50
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			03/12/22 01:23	1
2-Chlorotoluene	ND		0.50		ug/L			03/12/22 01:23	1
2-Hexanone	ND		6.0		ug/L			03/12/22 01:23	1
4-Chlorotoluene	ND		0.50		ug/L			03/12/22 01:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/12/22 01:23	1
Acetone	ND		8.0		ug/L			03/12/22 01:23	1
Benzene	ND		0.50		ug/L			03/12/22 01:23	1
Bromobenzene	ND		0.50		ug/L			03/12/22 01:23	1
Bromochloromethane	ND		1.0		ug/L			03/12/22 01:23	1
Bromodichloromethane	ND		0.50		ug/L			03/12/22 01:23	1
Bromoform	ND		0.50		ug/L			03/12/22 01:23	1
Bromomethane	ND	*+	2.0		ug/L			03/12/22 01:23	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 01:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 01:23	1
Carbon disulfide	ND		1.0		ug/L			03/12/22 01:23	1
Carbon tetrachloride	ND		0.50		ug/L			03/12/22 01:23	1
Chlorobenzene	ND		0.50		ug/L			03/12/22 01:23	1
Chloroethane	ND		0.50		ug/L			03/12/22 01:23	1
Chloroform	ND		0.50		ug/L			03/12/22 01:23	1
Chloromethane	ND		1.0		ug/L			03/12/22 01:23	1
Dibromochloromethane	ND		0.50		ug/L			03/12/22 01:23	1
Dibromomethane	ND		0.50		ug/L			03/12/22 01:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/12/22 01:23	1
Ethylbenzene	ND		0.50		ug/L			03/12/22 01:23	1
Isopropylbenzene	ND		0.50		ug/L			03/12/22 01:23	1
Methylene Chloride	ND		1.0		ug/L			03/12/22 01:23	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/12/22 01:23	1
Naphthalene	ND		1.0		ug/L			03/12/22 01:23	1
n-Butylbenzene	ND		0.50		ug/L			03/12/22 01:23	1
N-Propylbenzene	ND		0.50		ug/L			03/12/22 01:23	1
o-Xylene	ND		0.50		ug/L			03/12/22 01:23	1
m,p-Xylene	ND		1.0		ug/L			03/12/22 01:23	1
p-Isopropyltoluene	ND		0.50		ug/L			03/12/22 01:23	1
sec-Butylbenzene	ND		0.50		ug/L			03/12/22 01:23	1
Styrene	ND		0.50		ug/L			03/12/22 01:23	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 01:23	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 01:23	1
tert-Butylbenzene	ND		0.50		ug/L			03/12/22 01:23	1
Tetrachloroethene	ND		0.50		ug/L			03/12/22 01:23	1
Toluene	ND		0.50		ug/L			03/12/22 01:23	1
Trichloroethene	4.5		0.50		ug/L			03/12/22 01:23	1
Trichlorofluoromethane	ND		0.50		ug/L			03/12/22 01:23	1
Vinyl acetate	ND		5.0		ug/L			03/12/22 01:23	1
Vinyl chloride	ND		0.50		ug/L			03/12/22 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		64 - 132		03/12/22 01:23	1
4-Bromofluorobenzene (Surr)	83		76 - 120		03/12/22 01:23	1
Dibromofluoromethane	115		80 - 120		03/12/22 01:23	1
Toluene-d8 (Surr)	105		80 - 120		03/12/22 01:23	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UAX-03
Date Collected: 03/01/22 15:00
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 01:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/12/22 01:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 01:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/12/22 01:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/12/22 01:47	1
1,1-Dichloroethane	ND		0.50		ug/L			03/12/22 01:47	1
1,1-Dichloroethene	0.65		0.50		ug/L			03/12/22 01:47	1
1,1-Dichloropropene	ND		0.50		ug/L			03/12/22 01:47	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/12/22 01:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/12/22 01:47	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/12/22 01:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/12/22 01:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/12/22 01:47	1
1,2-Dibromoethane	ND		0.50		ug/L			03/12/22 01:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/12/22 01:47	1
1,2-Dichloroethane	ND		0.50		ug/L			03/12/22 01:47	1
1,2-Dichloropropane	ND		0.50		ug/L			03/12/22 01:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/12/22 01:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/12/22 01:47	1
1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 01:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/12/22 01:47	1
2,2-Dichloropropane	ND		0.50		ug/L			03/12/22 01:47	1
2-Butanone	ND		5.0		ug/L			03/12/22 01:47	1
2-Chlorotoluene	ND		0.50		ug/L			03/12/22 01:47	1
2-Hexanone	ND		6.0		ug/L			03/12/22 01:47	1
4-Chlorotoluene	ND		0.50		ug/L			03/12/22 01:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/12/22 01:47	1
Acetone	ND		8.0		ug/L			03/12/22 01:47	1
Benzene	ND		0.50		ug/L			03/12/22 01:47	1
Bromobenzene	ND		0.50		ug/L			03/12/22 01:47	1
Bromochloromethane	ND		1.0		ug/L			03/12/22 01:47	1
Bromodichloromethane	ND		0.50		ug/L			03/12/22 01:47	1
Bromoform	ND		0.50		ug/L			03/12/22 01:47	1
Bromomethane	ND	*+	2.0		ug/L			03/12/22 01:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 01:47	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 01:47	1
Carbon disulfide	ND		1.0		ug/L			03/12/22 01:47	1
Carbon tetrachloride	ND		0.50		ug/L			03/12/22 01:47	1
Chlorobenzene	ND		0.50		ug/L			03/12/22 01:47	1
Chloroethane	ND		0.50		ug/L			03/12/22 01:47	1
Chloroform	ND		0.50		ug/L			03/12/22 01:47	1
Chloromethane	ND		1.0		ug/L			03/12/22 01:47	1
Dibromochloromethane	ND		0.50		ug/L			03/12/22 01:47	1
Dibromomethane	ND		0.50		ug/L			03/12/22 01:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/12/22 01:47	1
Ethylbenzene	ND		0.50		ug/L			03/12/22 01:47	1
Isopropylbenzene	ND		0.50		ug/L			03/12/22 01:47	1
Methylene Chloride	ND		1.0		ug/L			03/12/22 01:47	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/12/22 01:47	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-03
Date Collected: 03/01/22 15:00
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			03/12/22 01:47	1
n-Butylbenzene	ND		0.50		ug/L			03/12/22 01:47	1
N-Propylbenzene	ND		0.50		ug/L			03/12/22 01:47	1
o-Xylene	ND		0.50		ug/L			03/12/22 01:47	1
m,p-Xylene	ND		1.0		ug/L			03/12/22 01:47	1
p-Isopropyltoluene	ND		0.50		ug/L			03/12/22 01:47	1
sec-Butylbenzene	ND		0.50		ug/L			03/12/22 01:47	1
Styrene	ND		0.50		ug/L			03/12/22 01:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 01:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 01:47	1
tert-Butylbenzene	ND		0.50		ug/L			03/12/22 01:47	1
Tetrachloroethene	ND		0.50		ug/L			03/12/22 01:47	1
Toluene	ND		0.50		ug/L			03/12/22 01:47	1
Trichloroethene	10		0.50		ug/L			03/12/22 01:47	1
Trichlorofluoromethane	ND		0.50		ug/L			03/12/22 01:47	1
Vinyl acetate	ND		5.0		ug/L			03/12/22 01:47	1
Vinyl chloride	ND		0.50		ug/L			03/12/22 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		64 - 132		03/12/22 01:47	1
4-Bromofluorobenzene (Surr)	85		76 - 120		03/12/22 01:47	1
Dibromofluoromethane	115		80 - 120		03/12/22 01:47	1
Toluene-d8 (Surr)	105		80 - 120		03/12/22 01:47	1

Client Sample ID: RB-030122
Date Collected: 03/01/22 10:00
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 02:12	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/12/22 02:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 02:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/12/22 02:12	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/12/22 02:12	1
1,1-Dichloroethane	ND		0.50		ug/L			03/12/22 02:12	1
1,1-Dichloroethene	ND		0.50		ug/L			03/12/22 02:12	1
1,1-Dichloropropene	ND		0.50		ug/L			03/12/22 02:12	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/12/22 02:12	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/12/22 02:12	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/12/22 02:12	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/12/22 02:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/12/22 02:12	1
1,2-Dibromoethane	ND		0.50		ug/L			03/12/22 02:12	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/12/22 02:12	1
1,2-Dichloroethane	ND		0.50		ug/L			03/12/22 02:12	1
1,2-Dichloropropane	ND		0.50		ug/L			03/12/22 02:12	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/12/22 02:12	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/12/22 02:12	1
1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 02:12	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/12/22 02:12	1
2,2-Dichloropropane	ND		0.50		ug/L			03/12/22 02:12	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-030122
Date Collected: 03/01/22 10:00
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			03/12/22 02:12	1
2-Chlorotoluene	ND		0.50		ug/L			03/12/22 02:12	1
2-Hexanone	ND		6.0		ug/L			03/12/22 02:12	1
4-Chlorotoluene	ND		0.50		ug/L			03/12/22 02:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/12/22 02:12	1
Acetone	ND		8.0		ug/L			03/12/22 02:12	1
Benzene	ND		0.50		ug/L			03/12/22 02:12	1
Bromobenzene	ND		0.50		ug/L			03/12/22 02:12	1
Bromochloromethane	ND		1.0		ug/L			03/12/22 02:12	1
Bromodichloromethane	ND		0.50		ug/L			03/12/22 02:12	1
Bromoform	ND		0.50		ug/L			03/12/22 02:12	1
Bromomethane	ND	*+	2.0		ug/L			03/12/22 02:12	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 02:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 02:12	1
Carbon disulfide	ND		1.0		ug/L			03/12/22 02:12	1
Carbon tetrachloride	ND		0.50		ug/L			03/12/22 02:12	1
Chlorobenzene	ND		0.50		ug/L			03/12/22 02:12	1
Chloroethane	ND		0.50		ug/L			03/12/22 02:12	1
Chloroform	ND		0.50		ug/L			03/12/22 02:12	1
Chloromethane	ND		1.0		ug/L			03/12/22 02:12	1
Dibromochloromethane	ND		0.50		ug/L			03/12/22 02:12	1
Dibromomethane	ND		0.50		ug/L			03/12/22 02:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/12/22 02:12	1
Ethylbenzene	ND		0.50		ug/L			03/12/22 02:12	1
Isopropylbenzene	ND		0.50		ug/L			03/12/22 02:12	1
Methylene Chloride	ND		1.0		ug/L			03/12/22 02:12	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/12/22 02:12	1
Naphthalene	ND		1.0		ug/L			03/12/22 02:12	1
n-Butylbenzene	ND		0.50		ug/L			03/12/22 02:12	1
N-Propylbenzene	ND		0.50		ug/L			03/12/22 02:12	1
o-Xylene	ND		0.50		ug/L			03/12/22 02:12	1
m,p-Xylene	ND		1.0		ug/L			03/12/22 02:12	1
p-Isopropyltoluene	ND		0.50		ug/L			03/12/22 02:12	1
sec-Butylbenzene	ND		0.50		ug/L			03/12/22 02:12	1
Styrene	ND		0.50		ug/L			03/12/22 02:12	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 02:12	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 02:12	1
tert-Butylbenzene	ND		0.50		ug/L			03/12/22 02:12	1
Tetrachloroethene	ND		0.50		ug/L			03/12/22 02:12	1
Toluene	ND		0.50		ug/L			03/12/22 02:12	1
Trichloroethene	ND		0.50		ug/L			03/12/22 02:12	1
Trichlorofluoromethane	ND		0.50		ug/L			03/12/22 02:12	1
Vinyl acetate	ND		5.0		ug/L			03/12/22 02:12	1
Vinyl chloride	ND		0.50		ug/L			03/12/22 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		64 - 132		03/12/22 02:12	1
4-Bromofluorobenzene (Surr)	84		76 - 120		03/12/22 02:12	1
Dibromofluoromethane	115		80 - 120		03/12/22 02:12	1
Toluene-d8 (Surr)	106		80 - 120		03/12/22 02:12	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-01
Date Collected: 03/02/22 08:04
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			03/12/22 02:37	10
1,1,1-Trichloroethane	ND		5.0		ug/L			03/12/22 02:37	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			03/12/22 02:37	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			03/12/22 02:37	10
1,1,2-Trichloroethane	ND		5.0		ug/L			03/12/22 02:37	10
1,1-Dichloroethane	ND		5.0		ug/L			03/12/22 02:37	10
1,1-Dichloroethene	ND		5.0		ug/L			03/12/22 02:37	10
1,1-Dichloropropene	ND		5.0		ug/L			03/12/22 02:37	10
1,2,3-Trichlorobenzene	ND		5.0		ug/L			03/12/22 02:37	10
1,2,3-Trichloropropane	ND		5.0		ug/L			03/12/22 02:37	10
1,2,4-Trichlorobenzene	ND		5.0		ug/L			03/12/22 02:37	10
1,2,4-Trimethylbenzene	ND		5.0		ug/L			03/12/22 02:37	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			03/12/22 02:37	10
1,2-Dibromoethane	ND		5.0		ug/L			03/12/22 02:37	10
1,2-Dichlorobenzene	ND		5.0		ug/L			03/12/22 02:37	10
1,2-Dichloroethane	ND		5.0		ug/L			03/12/22 02:37	10
1,2-Dichloropropane	ND		5.0		ug/L			03/12/22 02:37	10
1,3,5-Trimethylbenzene	ND		5.0		ug/L			03/12/22 02:37	10
1,3-Dichlorobenzene	ND		5.0		ug/L			03/12/22 02:37	10
1,3-Dichloropropane	ND		5.0		ug/L			03/12/22 02:37	10
1,4-Dichlorobenzene	ND		5.0		ug/L			03/12/22 02:37	10
2,2-Dichloropropane	ND		5.0		ug/L			03/12/22 02:37	10
2-Butanone	ND		50		ug/L			03/12/22 02:37	10
2-Chlorotoluene	ND		5.0		ug/L			03/12/22 02:37	10
2-Hexanone	ND		60		ug/L			03/12/22 02:37	10
4-Chlorotoluene	ND		5.0		ug/L			03/12/22 02:37	10
4-Methyl-2-pentanone	ND		50		ug/L			03/12/22 02:37	10
Acetone	ND		80		ug/L			03/12/22 02:37	10
Benzene	ND		5.0		ug/L			03/12/22 02:37	10
Bromobenzene	ND		5.0		ug/L			03/12/22 02:37	10
Bromochloromethane	ND		10		ug/L			03/12/22 02:37	10
Bromodichloromethane	ND		5.0		ug/L			03/12/22 02:37	10
Bromoform	ND		5.0		ug/L			03/12/22 02:37	10
Bromomethane	ND	+	20		ug/L			03/12/22 02:37	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/12/22 02:37	10
cis-1,3-Dichloropropane	ND		5.0		ug/L			03/12/22 02:37	10
Carbon disulfide	ND		10		ug/L			03/12/22 02:37	10
Carbon tetrachloride	ND		5.0		ug/L			03/12/22 02:37	10
Chlorobenzene	ND		5.0		ug/L			03/12/22 02:37	10
Chloroethane	ND		5.0		ug/L			03/12/22 02:37	10
Chloroform	ND		5.0		ug/L			03/12/22 02:37	10
Chloromethane	ND		10		ug/L			03/12/22 02:37	10
Dibromochloromethane	ND		5.0		ug/L			03/12/22 02:37	10
Dibromomethane	ND		5.0		ug/L			03/12/22 02:37	10
Dichlorodifluoromethane	ND		10		ug/L			03/12/22 02:37	10
Ethylbenzene	ND		5.0		ug/L			03/12/22 02:37	10
Isopropylbenzene	ND		5.0		ug/L			03/12/22 02:37	10
Methylene Chloride	ND		10		ug/L			03/12/22 02:37	10
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/L			03/12/22 02:37	10

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-01
Date Collected: 03/02/22 08:04
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/L			03/12/22 02:37	10
n-Butylbenzene	ND		5.0		ug/L			03/12/22 02:37	10
N-Propylbenzene	ND		5.0		ug/L			03/12/22 02:37	10
o-Xylene	ND		5.0		ug/L			03/12/22 02:37	10
m,p-Xylene	ND		10		ug/L			03/12/22 02:37	10
p-Isopropyltoluene	ND		5.0		ug/L			03/12/22 02:37	10
sec-Butylbenzene	ND		5.0		ug/L			03/12/22 02:37	10
Styrene	ND		5.0		ug/L			03/12/22 02:37	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			03/12/22 02:37	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			03/12/22 02:37	10
tert-Butylbenzene	ND		5.0		ug/L			03/12/22 02:37	10
Tetrachloroethene	10		5.0		ug/L			03/12/22 02:37	10
Toluene	ND		5.0		ug/L			03/12/22 02:37	10
Trichloroethene	780		5.0		ug/L			03/12/22 02:37	10
Trichlorofluoromethane	ND		5.0		ug/L			03/12/22 02:37	10
Vinyl acetate	ND		50		ug/L			03/12/22 02:37	10
Vinyl chloride	ND		5.0		ug/L			03/12/22 02:37	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	121		64 - 132		03/12/22 02:37	10
<i>4-Bromofluorobenzene (Surr)</i>	82		76 - 120		03/12/22 02:37	10
<i>Dibromofluoromethane</i>	115		80 - 120		03/12/22 02:37	10
<i>Toluene-d8 (Surr)</i>	109		80 - 120		03/12/22 02:37	10

Client Sample ID: HEW-0100
Date Collected: 03/02/22 08:35
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			03/12/22 03:02	20
1,1,1-Trichloroethane	ND		10		ug/L			03/12/22 03:02	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			03/12/22 03:02	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10		ug/L			03/12/22 03:02	20
1,1,2-Trichloroethane	ND		10		ug/L			03/12/22 03:02	20
1,1-Dichloroethane	ND		10		ug/L			03/12/22 03:02	20
1,1-Dichloroethene	ND		10		ug/L			03/12/22 03:02	20
1,1-Dichloropropene	ND		10		ug/L			03/12/22 03:02	20
1,2,3-Trichlorobenzene	ND		10		ug/L			03/12/22 03:02	20
1,2,3-Trichloropropane	ND		10		ug/L			03/12/22 03:02	20
1,2,4-Trichlorobenzene	ND		10		ug/L			03/12/22 03:02	20
1,2,4-Trimethylbenzene	ND		10		ug/L			03/12/22 03:02	20
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			03/12/22 03:02	20
1,2-Dibromoethane	ND		10		ug/L			03/12/22 03:02	20
1,2-Dichlorobenzene	ND		10		ug/L			03/12/22 03:02	20
1,2-Dichloroethane	ND		10		ug/L			03/12/22 03:02	20
1,2-Dichloropropane	ND		10		ug/L			03/12/22 03:02	20
1,3,5-Trimethylbenzene	ND		10		ug/L			03/12/22 03:02	20
1,3-Dichlorobenzene	ND		10		ug/L			03/12/22 03:02	20
1,3-Dichloropropane	ND		10		ug/L			03/12/22 03:02	20
1,4-Dichlorobenzene	ND		10		ug/L			03/12/22 03:02	20
2,2-Dichloropropane	ND		10		ug/L			03/12/22 03:02	20

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-0100
Date Collected: 03/02/22 08:35
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		100		ug/L			03/12/22 03:02	20
2-Chlorotoluene	ND		10		ug/L			03/12/22 03:02	20
2-Hexanone	ND		120		ug/L			03/12/22 03:02	20
4-Chlorotoluene	ND		10		ug/L			03/12/22 03:02	20
4-Methyl-2-pentanone	ND		100		ug/L			03/12/22 03:02	20
Acetone	ND		160		ug/L			03/12/22 03:02	20
Benzene	ND		10		ug/L			03/12/22 03:02	20
Bromobenzene	ND		10		ug/L			03/12/22 03:02	20
Bromochloromethane	ND		20		ug/L			03/12/22 03:02	20
Bromodichloromethane	ND		10		ug/L			03/12/22 03:02	20
Bromoform	ND		10		ug/L			03/12/22 03:02	20
Bromomethane	ND	*+	40		ug/L			03/12/22 03:02	20
cis-1,2-Dichloroethene	ND		10		ug/L			03/12/22 03:02	20
cis-1,3-Dichloropropene	ND		10		ug/L			03/12/22 03:02	20
Carbon disulfide	ND		20		ug/L			03/12/22 03:02	20
Carbon tetrachloride	ND		10		ug/L			03/12/22 03:02	20
Chlorobenzene	ND		10		ug/L			03/12/22 03:02	20
Chloroethane	ND		10		ug/L			03/12/22 03:02	20
Chloroform	ND		10		ug/L			03/12/22 03:02	20
Chloromethane	ND		20		ug/L			03/12/22 03:02	20
Dibromochloromethane	ND		10		ug/L			03/12/22 03:02	20
Dibromomethane	ND		10		ug/L			03/12/22 03:02	20
Dichlorodifluoromethane	ND		20		ug/L			03/12/22 03:02	20
Ethylbenzene	ND		10		ug/L			03/12/22 03:02	20
Isopropylbenzene	ND		10		ug/L			03/12/22 03:02	20
Methylene Chloride	ND		20		ug/L			03/12/22 03:02	20
Methyl-t-Butyl Ether (MTBE)	ND		10		ug/L			03/12/22 03:02	20
Naphthalene	ND		20		ug/L			03/12/22 03:02	20
n-Butylbenzene	ND		10		ug/L			03/12/22 03:02	20
N-Propylbenzene	ND		10		ug/L			03/12/22 03:02	20
o-Xylene	ND		10		ug/L			03/12/22 03:02	20
m,p-Xylene	ND		20		ug/L			03/12/22 03:02	20
p-Isopropyltoluene	ND		10		ug/L			03/12/22 03:02	20
sec-Butylbenzene	ND		10		ug/L			03/12/22 03:02	20
Styrene	ND		10		ug/L			03/12/22 03:02	20
trans-1,2-Dichloroethene	ND		10		ug/L			03/12/22 03:02	20
trans-1,3-Dichloropropene	ND		10		ug/L			03/12/22 03:02	20
tert-Butylbenzene	ND		10		ug/L			03/12/22 03:02	20
Tetrachloroethene	ND		10		ug/L			03/12/22 03:02	20
Toluene	ND		10		ug/L			03/12/22 03:02	20
Trichloroethene	750		10		ug/L			03/12/22 03:02	20
Trichlorofluoromethane	ND		10		ug/L			03/12/22 03:02	20
Vinyl acetate	ND		100		ug/L			03/12/22 03:02	20
Vinyl chloride	ND		10		ug/L			03/12/22 03:02	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		64 - 132		03/12/22 03:02	20
4-Bromofluorobenzene (Surr)	83		76 - 120		03/12/22 03:02	20
Dibromofluoromethane	115		80 - 120		03/12/22 03:02	20
Toluene-d8 (Surr)	112		80 - 120		03/12/22 03:02	20

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-02
Date Collected: 03/01/22 11:15
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 03:27	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/12/22 03:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/12/22 03:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/12/22 03:27	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/12/22 03:27	1
1,1-Dichloroethane	ND		0.50		ug/L			03/12/22 03:27	1
1,1-Dichloroethene	ND		0.50		ug/L			03/12/22 03:27	1
1,1-Dichloropropene	ND		0.50		ug/L			03/12/22 03:27	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/12/22 03:27	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/12/22 03:27	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/12/22 03:27	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/12/22 03:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/12/22 03:27	1
1,2-Dibromoethane	ND		0.50		ug/L			03/12/22 03:27	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/12/22 03:27	1
1,2-Dichloroethane	ND		0.50		ug/L			03/12/22 03:27	1
1,2-Dichloropropane	ND		0.50		ug/L			03/12/22 03:27	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/12/22 03:27	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/12/22 03:27	1
1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 03:27	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/12/22 03:27	1
2,2-Dichloropropane	ND		0.50		ug/L			03/12/22 03:27	1
2-Butanone	ND		5.0		ug/L			03/12/22 03:27	1
2-Chlorotoluene	ND		0.50		ug/L			03/12/22 03:27	1
2-Hexanone	ND		6.0		ug/L			03/12/22 03:27	1
4-Chlorotoluene	ND		0.50		ug/L			03/12/22 03:27	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/12/22 03:27	1
Acetone	ND		8.0		ug/L			03/12/22 03:27	1
Benzene	ND		0.50		ug/L			03/12/22 03:27	1
Bromobenzene	ND		0.50		ug/L			03/12/22 03:27	1
Bromochloromethane	ND		1.0		ug/L			03/12/22 03:27	1
Bromodichloromethane	ND		0.50		ug/L			03/12/22 03:27	1
Bromoform	ND		0.50		ug/L			03/12/22 03:27	1
Bromomethane	ND	+	2.0		ug/L			03/12/22 03:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 03:27	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/12/22 03:27	1
Carbon disulfide	ND		1.0		ug/L			03/12/22 03:27	1
Carbon tetrachloride	ND		0.50		ug/L			03/12/22 03:27	1
Chlorobenzene	ND		0.50		ug/L			03/12/22 03:27	1
Chloroethane	ND		0.50		ug/L			03/12/22 03:27	1
Chloroform	ND		0.50		ug/L			03/12/22 03:27	1
Chloromethane	ND		1.0		ug/L			03/12/22 03:27	1
Dibromochloromethane	ND		0.50		ug/L			03/12/22 03:27	1
Dibromomethane	ND		0.50		ug/L			03/12/22 03:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/12/22 03:27	1
Ethylbenzene	ND		0.50		ug/L			03/12/22 03:27	1
Isopropylbenzene	ND		0.50		ug/L			03/12/22 03:27	1
Methylene Chloride	ND		1.0		ug/L			03/12/22 03:27	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/12/22 03:27	1

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-02
Date Collected: 03/01/22 11:15
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			03/12/22 03:27	1
n-Butylbenzene	ND		0.50		ug/L			03/12/22 03:27	1
N-Propylbenzene	ND		0.50		ug/L			03/12/22 03:27	1
o-Xylene	ND		0.50		ug/L			03/12/22 03:27	1
m,p-Xylene	ND		1.0		ug/L			03/12/22 03:27	1
p-Isopropyltoluene	ND		0.50		ug/L			03/12/22 03:27	1
sec-Butylbenzene	ND		0.50		ug/L			03/12/22 03:27	1
Styrene	ND		0.50		ug/L			03/12/22 03:27	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/12/22 03:27	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/12/22 03:27	1
tert-Butylbenzene	ND		0.50		ug/L			03/12/22 03:27	1
Tetrachloroethene	ND		0.50		ug/L			03/12/22 03:27	1
Toluene	ND		0.50		ug/L			03/12/22 03:27	1
Trichlorofluoromethane	ND		0.50		ug/L			03/12/22 03:27	1
Vinyl acetate	ND		5.0		ug/L			03/12/22 03:27	1
Vinyl chloride	ND		0.50		ug/L			03/12/22 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		64 - 132		03/12/22 03:27	1
4-Bromofluorobenzene (Surr)	83		76 - 120		03/12/22 03:27	1
Dibromofluoromethane	115		80 - 120		03/12/22 03:27	1
Toluene-d8 (Surr)	112		80 - 120		03/12/22 03:27	1

Client Sample ID: HEW-03
Date Collected: 03/02/22 08:18
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			03/12/22 03:51	4
1,1,1-Trichloroethane	ND		2.0		ug/L			03/12/22 03:51	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/12/22 03:51	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			03/12/22 03:51	4
1,1,2-Trichloroethane	ND		2.0		ug/L			03/12/22 03:51	4
1,1-Dichloroethane	ND		2.0		ug/L			03/12/22 03:51	4
1,1-Dichloroethene	ND		2.0		ug/L			03/12/22 03:51	4
1,1-Dichloropropene	ND		2.0		ug/L			03/12/22 03:51	4
1,2,3-Trichlorobenzene	ND		2.0		ug/L			03/12/22 03:51	4
1,2,3-Trichloropropane	ND		2.0		ug/L			03/12/22 03:51	4
1,2,4-Trichlorobenzene	ND		2.0		ug/L			03/12/22 03:51	4
1,2,4-Trimethylbenzene	ND		2.0		ug/L			03/12/22 03:51	4
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			03/12/22 03:51	4
1,2-Dibromoethane	ND		2.0		ug/L			03/12/22 03:51	4
1,2-Dichlorobenzene	ND		2.0		ug/L			03/12/22 03:51	4
1,2-Dichloroethane	ND		2.0		ug/L			03/12/22 03:51	4
1,2-Dichloropropane	ND		2.0		ug/L			03/12/22 03:51	4
1,3,5-Trimethylbenzene	ND		2.0		ug/L			03/12/22 03:51	4
1,3-Dichlorobenzene	ND		2.0		ug/L			03/12/22 03:51	4
1,3-Dichloropropane	ND		2.0		ug/L			03/12/22 03:51	4
1,4-Dichlorobenzene	ND		2.0		ug/L			03/12/22 03:51	4
2,2-Dichloropropane	ND		2.0		ug/L			03/12/22 03:51	4
2-Butanone	ND		20		ug/L			03/12/22 03:51	4

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-03
Date Collected: 03/02/22 08:18
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0		ug/L			03/12/22 03:51	4
2-Hexanone	ND		24		ug/L			03/12/22 03:51	4
4-Chlorotoluene	ND		2.0		ug/L			03/12/22 03:51	4
4-Methyl-2-pentanone	ND		20		ug/L			03/12/22 03:51	4
Acetone	ND		32		ug/L			03/12/22 03:51	4
Benzene	ND		2.0		ug/L			03/12/22 03:51	4
Bromobenzene	ND		2.0		ug/L			03/12/22 03:51	4
Bromochloromethane	ND		4.0		ug/L			03/12/22 03:51	4
Bromodichloromethane	ND		2.0		ug/L			03/12/22 03:51	4
Bromoform	ND		2.0		ug/L			03/12/22 03:51	4
Bromomethane	ND	*+	8.0		ug/L			03/12/22 03:51	4
cis-1,2-Dichloroethene	ND		2.0		ug/L			03/12/22 03:51	4
cis-1,3-Dichloropropene	ND		2.0		ug/L			03/12/22 03:51	4
Carbon disulfide	ND		4.0		ug/L			03/12/22 03:51	4
Carbon tetrachloride	ND		2.0		ug/L			03/12/22 03:51	4
Chlorobenzene	ND		2.0		ug/L			03/12/22 03:51	4
Chloroethane	ND		2.0		ug/L			03/12/22 03:51	4
Chloroform	ND		2.0		ug/L			03/12/22 03:51	4
Chloromethane	ND		4.0		ug/L			03/12/22 03:51	4
Dibromochloromethane	ND		2.0		ug/L			03/12/22 03:51	4
Dibromomethane	ND		2.0		ug/L			03/12/22 03:51	4
Dichlorodifluoromethane	ND		4.0		ug/L			03/12/22 03:51	4
Ethylbenzene	ND		2.0		ug/L			03/12/22 03:51	4
Isopropylbenzene	ND		2.0		ug/L			03/12/22 03:51	4
Methylene Chloride	ND		4.0		ug/L			03/12/22 03:51	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			03/12/22 03:51	4
Naphthalene	ND		4.0		ug/L			03/12/22 03:51	4
n-Butylbenzene	ND		2.0		ug/L			03/12/22 03:51	4
N-Propylbenzene	ND		2.0		ug/L			03/12/22 03:51	4
o-Xylene	ND		2.0		ug/L			03/12/22 03:51	4
m,p-Xylene	ND		4.0		ug/L			03/12/22 03:51	4
p-Isopropyltoluene	ND		2.0		ug/L			03/12/22 03:51	4
sec-Butylbenzene	ND		2.0		ug/L			03/12/22 03:51	4
Styrene	ND		2.0		ug/L			03/12/22 03:51	4
trans-1,2-Dichloroethene	ND		2.0		ug/L			03/12/22 03:51	4
trans-1,3-Dichloropropene	ND		2.0		ug/L			03/12/22 03:51	4
tert-Butylbenzene	ND		2.0		ug/L			03/12/22 03:51	4
Tetrachloroethene	2.2		2.0		ug/L			03/12/22 03:51	4
Toluene	ND		2.0		ug/L			03/12/22 03:51	4
Trichloroethene	110		2.0		ug/L			03/12/22 03:51	4
Trichlorofluoromethane	ND		2.0		ug/L			03/12/22 03:51	4
Vinyl acetate	ND		20		ug/L			03/12/22 03:51	4
Vinyl chloride	ND		2.0		ug/L			03/12/22 03:51	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		64 - 132		03/12/22 03:51	4
4-Bromofluorobenzene (Surr)	82		76 - 120		03/12/22 03:51	4
Dibromofluoromethane	112		80 - 120		03/12/22 03:51	4
Toluene-d8 (Surr)	110		80 - 120		03/12/22 03:51	4

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-04
Date Collected: 03/02/22 08:40
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			03/12/22 04:16	4
1,1,1-Trichloroethane	ND		2.0		ug/L			03/12/22 04:16	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			03/12/22 04:16	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			03/12/22 04:16	4
1,1,2-Trichloroethane	ND		2.0		ug/L			03/12/22 04:16	4
1,1-Dichloroethane	ND		2.0		ug/L			03/12/22 04:16	4
1,1-Dichloroethene	ND		2.0		ug/L			03/12/22 04:16	4
1,1-Dichloropropene	ND		2.0		ug/L			03/12/22 04:16	4
1,2,3-Trichlorobenzene	ND		2.0		ug/L			03/12/22 04:16	4
1,2,3-Trichloropropane	ND		2.0		ug/L			03/12/22 04:16	4
1,2,4-Trichlorobenzene	ND		2.0		ug/L			03/12/22 04:16	4
1,2,4-Trimethylbenzene	ND		2.0		ug/L			03/12/22 04:16	4
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			03/12/22 04:16	4
1,2-Dibromoethane	ND		2.0		ug/L			03/12/22 04:16	4
1,2-Dichlorobenzene	ND		2.0		ug/L			03/12/22 04:16	4
1,2-Dichloroethane	ND		2.0		ug/L			03/12/22 04:16	4
1,2-Dichloropropane	ND		2.0		ug/L			03/12/22 04:16	4
1,3,5-Trimethylbenzene	ND		2.0		ug/L			03/12/22 04:16	4
1,3-Dichlorobenzene	ND		2.0		ug/L			03/12/22 04:16	4
1,3-Dichloropropane	ND		2.0		ug/L			03/12/22 04:16	4
1,4-Dichlorobenzene	ND		2.0		ug/L			03/12/22 04:16	4
2,2-Dichloropropane	ND		2.0		ug/L			03/12/22 04:16	4
2-Butanone	ND		20		ug/L			03/12/22 04:16	4
2-Chlorotoluene	ND		2.0		ug/L			03/12/22 04:16	4
2-Hexanone	ND		24		ug/L			03/12/22 04:16	4
4-Chlorotoluene	ND		2.0		ug/L			03/12/22 04:16	4
4-Methyl-2-pentanone	ND		20		ug/L			03/12/22 04:16	4
Acetone	ND		32		ug/L			03/12/22 04:16	4
Benzene	ND		2.0		ug/L			03/12/22 04:16	4
Bromobenzene	ND		2.0		ug/L			03/12/22 04:16	4
Bromochloromethane	ND		4.0		ug/L			03/12/22 04:16	4
Bromodichloromethane	ND		2.0		ug/L			03/12/22 04:16	4
Bromoform	ND		2.0		ug/L			03/12/22 04:16	4
Bromomethane	ND	+	8.0		ug/L			03/12/22 04:16	4
cis-1,2-Dichloroethene	ND		2.0		ug/L			03/12/22 04:16	4
cis-1,3-Dichloropropane	ND		2.0		ug/L			03/12/22 04:16	4
Carbon disulfide	ND		4.0		ug/L			03/12/22 04:16	4
Carbon tetrachloride	ND		2.0		ug/L			03/12/22 04:16	4
Chlorobenzene	ND		2.0		ug/L			03/12/22 04:16	4
Chloroethane	ND		2.0		ug/L			03/12/22 04:16	4
Chloroform	ND		2.0		ug/L			03/12/22 04:16	4
Chloromethane	ND		4.0		ug/L			03/12/22 04:16	4
Dibromochloromethane	ND		2.0		ug/L			03/12/22 04:16	4
Dibromomethane	ND		2.0		ug/L			03/12/22 04:16	4
Dichlorodifluoromethane	ND		4.0		ug/L			03/12/22 04:16	4
Ethylbenzene	ND		2.0		ug/L			03/12/22 04:16	4
Isopropylbenzene	ND		2.0		ug/L			03/12/22 04:16	4
Methylene Chloride	ND		4.0		ug/L			03/12/22 04:16	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			03/12/22 04:16	4

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-04
Date Collected: 03/02/22 08:40
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.0		ug/L			03/12/22 04:16	4
n-Butylbenzene	ND		2.0		ug/L			03/12/22 04:16	4
N-Propylbenzene	ND		2.0		ug/L			03/12/22 04:16	4
o-Xylene	ND		2.0		ug/L			03/12/22 04:16	4
m,p-Xylene	ND		4.0		ug/L			03/12/22 04:16	4
p-Isopropyltoluene	ND		2.0		ug/L			03/12/22 04:16	4
sec-Butylbenzene	ND		2.0		ug/L			03/12/22 04:16	4
Styrene	ND		2.0		ug/L			03/12/22 04:16	4
trans-1,2-Dichloroethene	ND		2.0		ug/L			03/12/22 04:16	4
trans-1,3-Dichloropropene	ND		2.0		ug/L			03/12/22 04:16	4
tert-Butylbenzene	ND		2.0		ug/L			03/12/22 04:16	4
Tetrachloroethene	ND		2.0		ug/L			03/12/22 04:16	4
Toluene	ND		2.0		ug/L			03/12/22 04:16	4
Trichloroethene	90		2.0		ug/L			03/12/22 04:16	4
Trichlorofluoromethane	ND		2.0		ug/L			03/12/22 04:16	4
Vinyl acetate	ND		20		ug/L			03/12/22 04:16	4
Vinyl chloride	ND		2.0		ug/L			03/12/22 04:16	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	115		64 - 132		03/12/22 04:16	4
<i>4-Bromofluorobenzene (Surr)</i>	82		76 - 120		03/12/22 04:16	4
<i>Dibromofluoromethane</i>	110		80 - 120		03/12/22 04:16	4
<i>Toluene-d8 (Surr)</i>	111		80 - 120		03/12/22 04:16	4

Client Sample ID: HEW-05
Date Collected: 03/01/22 10:58
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			03/12/22 04:41	2
1,1,1-Trichloroethane	ND		1.0		ug/L			03/12/22 04:41	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			03/12/22 04:41	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			03/12/22 04:41	2
1,1,2-Trichloroethane	ND		1.0		ug/L			03/12/22 04:41	2
1,1-Dichloroethane	ND		1.0		ug/L			03/12/22 04:41	2
1,1-Dichloroethene	ND		1.0		ug/L			03/12/22 04:41	2
1,1-Dichloropropene	ND		1.0		ug/L			03/12/22 04:41	2
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/12/22 04:41	2
1,2,3-Trichloropropane	ND		1.0		ug/L			03/12/22 04:41	2
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/12/22 04:41	2
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/12/22 04:41	2
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/12/22 04:41	2
1,2-Dibromoethane	ND		1.0		ug/L			03/12/22 04:41	2
1,2-Dichlorobenzene	ND		1.0		ug/L			03/12/22 04:41	2
1,2-Dichloroethane	ND		1.0		ug/L			03/12/22 04:41	2
1,2-Dichloropropane	ND		1.0		ug/L			03/12/22 04:41	2
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/12/22 04:41	2
1,3-Dichlorobenzene	ND		1.0		ug/L			03/12/22 04:41	2
1,3-Dichloropropane	ND		1.0		ug/L			03/12/22 04:41	2
1,4-Dichlorobenzene	ND		1.0		ug/L			03/12/22 04:41	2
2,2-Dichloropropane	ND		1.0		ug/L			03/12/22 04:41	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-05
Date Collected: 03/01/22 10:58
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			03/12/22 04:41	2
2-Chlorotoluene	ND		1.0		ug/L			03/12/22 04:41	2
2-Hexanone	ND		12		ug/L			03/12/22 04:41	2
4-Chlorotoluene	ND		1.0		ug/L			03/12/22 04:41	2
4-Methyl-2-pentanone	ND		10		ug/L			03/12/22 04:41	2
Acetone	ND		16		ug/L			03/12/22 04:41	2
Benzene	ND		1.0		ug/L			03/12/22 04:41	2
Bromobenzene	ND		1.0		ug/L			03/12/22 04:41	2
Bromochloromethane	ND		2.0		ug/L			03/12/22 04:41	2
Bromodichloromethane	ND		1.0		ug/L			03/12/22 04:41	2
Bromoform	ND		1.0		ug/L			03/12/22 04:41	2
Bromomethane	ND	*+	4.0		ug/L			03/12/22 04:41	2
cis-1,2-Dichloroethene	7.2		1.0		ug/L			03/12/22 04:41	2
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/12/22 04:41	2
Carbon disulfide	ND		2.0		ug/L			03/12/22 04:41	2
Carbon tetrachloride	ND		1.0		ug/L			03/12/22 04:41	2
Chlorobenzene	ND		1.0		ug/L			03/12/22 04:41	2
Chloroethane	ND		1.0		ug/L			03/12/22 04:41	2
Chloroform	ND		1.0		ug/L			03/12/22 04:41	2
Chloromethane	ND		2.0		ug/L			03/12/22 04:41	2
Dibromochloromethane	ND		1.0		ug/L			03/12/22 04:41	2
Dibromomethane	ND		1.0		ug/L			03/12/22 04:41	2
Dichlorodifluoromethane	ND		2.0		ug/L			03/12/22 04:41	2
Ethylbenzene	ND		1.0		ug/L			03/12/22 04:41	2
Isopropylbenzene	ND		1.0		ug/L			03/12/22 04:41	2
Methylene Chloride	ND		2.0		ug/L			03/12/22 04:41	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			03/12/22 04:41	2
Naphthalene	ND		2.0		ug/L			03/12/22 04:41	2
n-Butylbenzene	ND		1.0		ug/L			03/12/22 04:41	2
N-Propylbenzene	ND		1.0		ug/L			03/12/22 04:41	2
o-Xylene	ND		1.0		ug/L			03/12/22 04:41	2
m,p-Xylene	ND		2.0		ug/L			03/12/22 04:41	2
p-Isopropyltoluene	ND		1.0		ug/L			03/12/22 04:41	2
sec-Butylbenzene	ND		1.0		ug/L			03/12/22 04:41	2
Styrene	ND		1.0		ug/L			03/12/22 04:41	2
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/12/22 04:41	2
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/12/22 04:41	2
tert-Butylbenzene	ND		1.0		ug/L			03/12/22 04:41	2
Tetrachloroethene	ND		1.0		ug/L			03/12/22 04:41	2
Toluene	ND		1.0		ug/L			03/12/22 04:41	2
Trichloroethene	130		1.0		ug/L			03/12/22 04:41	2
Trichlorofluoromethane	ND		1.0		ug/L			03/12/22 04:41	2
Vinyl acetate	ND		10		ug/L			03/12/22 04:41	2
Vinyl chloride	ND		1.0		ug/L			03/12/22 04:41	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		64 - 132		03/12/22 04:41	2
4-Bromofluorobenzene (Surr)	82		76 - 120		03/12/22 04:41	2
Dibromofluoromethane	113		80 - 120		03/12/22 04:41	2
Toluene-d8 (Surr)	111		80 - 120		03/12/22 04:41	2

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Client Sample ID: HEW-02
Date Collected: 03/01/22 11:15
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	96		1.0		ug/L			03/14/22 17:36	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 132					03/14/22 17:36	2
4-Bromofluorobenzene (Surr)	91		76 - 120					03/14/22 17:36	2
Dibromofluoromethane	104		80 - 120					03/14/22 17:36	2
Toluene-d8 (Surr)	109		80 - 120					03/14/22 17:36	2

- 1
- 2
- 3
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- 5
- 6
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- 11
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- 14
- 15
- 16

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8270C SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: LAX-01
Date Collected: 03/02/22 09:05
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/09/22 05:26	03/10/22 14:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	42		21 - 120				03/09/22 05:26	03/10/22 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	100		58 - 135				03/09/22 05:26	03/10/22 14:20	1

Client Sample ID: LAX-02
Date Collected: 03/01/22 08:45
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/08/22 05:16	03/09/22 17:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	48		21 - 120				03/08/22 05:16	03/09/22 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	116		58 - 135				03/08/22 05:16	03/09/22 17:51	1

Client Sample ID: LAX-03
Date Collected: 03/01/22 09:35
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/08/22 05:16	03/09/22 19:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	48		21 - 120				03/08/22 05:16	03/09/22 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	118		58 - 135				03/08/22 05:16	03/09/22 19:18	1

Client Sample ID: UAX-01
Date Collected: 03/01/22 15:50
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/08/22 05:16	03/09/22 18:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	47		21 - 120				03/08/22 05:16	03/09/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	126		58 - 135				03/08/22 05:16	03/09/22 18:05	1

Client Sample ID: UAX-02
Date Collected: 03/01/22 09:50
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9		0.50		ug/L		03/08/22 05:16	03/09/22 18:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	50		21 - 120				03/08/22 05:16	03/09/22 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	118		58 - 135				03/08/22 05:16	03/09/22 18:20	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8270C SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: UAX-03
Date Collected: 03/01/22 15:00
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/08/22 05:16	03/09/22 18:34	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	45		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	109		58 - 135						
							Prepared	Analyzed	Dil Fac
							03/08/22 05:16	03/09/22 18:34	1

Client Sample ID: HEW-01
Date Collected: 03/02/22 08:04
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.4		0.50		ug/L		03/09/22 05:26	03/10/22 13:22	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	32		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	96		58 - 135						
							Prepared	Analyzed	Dil Fac
							03/09/22 05:26	03/10/22 13:22	1

Client Sample ID: HEW-0100
Date Collected: 03/02/22 08:35
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		0.50		ug/L		03/09/22 05:26	03/10/22 13:36	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	40		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	95		58 - 135						
							Prepared	Analyzed	Dil Fac
							03/09/22 05:26	03/10/22 13:36	1

Client Sample ID: HEW-02
Date Collected: 03/01/22 11:15
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/08/22 05:16	03/09/22 18:49	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	52		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	112		58 - 135						
							Prepared	Analyzed	Dil Fac
							03/08/22 05:16	03/09/22 18:49	1

Client Sample ID: HEW-03
Date Collected: 03/02/22 08:18
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.5		0.50		ug/L		03/09/22 05:26	03/10/22 13:51	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	44		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	104		58 - 135						
							Prepared	Analyzed	Dil Fac
							03/09/22 05:26	03/10/22 13:51	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: HEW-04
Date Collected: 03/02/22 08:40
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.4		0.50		ug/L		03/09/22 05:26	03/10/22 14:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	38		21 - 120				03/09/22 05:26	03/10/22 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	99		58 - 135				03/09/22 05:26	03/10/22 14:05	1

Client Sample ID: HEW-05
Date Collected: 03/01/22 10:58
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/08/22 05:16	03/09/22 19:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	46		21 - 120				03/08/22 05:16	03/09/22 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	110		58 - 135				03/08/22 05:16	03/09/22 19:03	1

Surrogate Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-132)	BFB (76-120)	DBFM (80-120)	TOL (80-120)
570-86626-1	TB-030122	101	84	101	102
570-86626-2	LAX-01	117	85	111	104
570-86626-3	LAX-02	110	86	108	107
570-86626-4	LAX-03	115	85	110	105
570-86626-5	UAX-01	123	84	114	106
570-86626-6	UAX-02	122	83	115	105
570-86626-7	UAX-03	119	85	115	105
570-86626-8	RB-030122	120	84	115	106
570-86626-9	HEW-01	121	82	115	109
570-86626-10	HEW-0100	116	83	115	112
570-86626-11	HEW-02	124	83	115	112
570-86626-11 - DL	HEW-02	103	91	104	109
570-86626-12	HEW-03	113	82	112	110
570-86626-13	HEW-04	115	82	110	111
570-86626-14	HEW-05	118	82	113	111
LCS 570-218951/3	Lab Control Sample	97	102	105	104
LCS 570-219230/3	Lab Control Sample	96	99	102	100
LCS 570-218951/4	Lab Control Sample Dup	99	104	104	104
LCS 570-219230/4	Lab Control Sample Dup	95	99	102	102
MB 570-218951/6	Method Blank	107	86	105	106
MB 570-219230/7	Method Blank	99	92	100	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ
		(58-135)
570-86626-2	LAX-01	100
570-86626-3	LAX-02	116
570-86626-3 MS	LAX-02	117
570-86626-3 MSD	LAX-02	123
570-86626-4	LAX-03	118
570-86626-5	UAX-01	126
570-86626-6	UAX-02	118
570-86626-7	UAX-03	109
570-86626-9	HEW-01	96
570-86626-9 MS	HEW-01	94
570-86626-9 MSD	HEW-01	87
570-86626-10	HEW-0100	95
570-86626-11	HEW-02	112
570-86626-12	HEW-03	104
570-86626-13	HEW-04	99
570-86626-14	HEW-05	110

Surrogate Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

(Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (58-135)
LCS 570-217840/2-A	Lab Control Sample	108
LCS 570-218142/2-A	Lab Control Sample	109
LCSD 570-217840/3-A	Lab Control Sample Dup	100
LCSD 570-218142/3-A	Lab Control Sample Dup	102
MB 570-217840/1-A	Method Blank	122
MB 570-218142/1-A	Method Blank	111

Surrogate Legend

NBZ = Nitrobenzene-d5

Isotope Dilution Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (21-120)
570-86626-2	LAX-01	42
570-86626-3	LAX-02	48
570-86626-3 MS	LAX-02	43
570-86626-3 MSD	LAX-02	41
570-86626-4	LAX-03	48
570-86626-5	UAX-01	47
570-86626-6	UAX-02	50
570-86626-7	UAX-03	45
570-86626-9	HEW-01	32
570-86626-9 MS	HEW-01	35
570-86626-9 MSD	HEW-01	37
570-86626-10	HEW-0100	40
570-86626-11	HEW-02	52
570-86626-12	HEW-03	44
570-86626-13	HEW-04	38
570-86626-14	HEW-05	46
LCS 570-217840/2-A	Lab Control Sample	41
LCS 570-218142/2-A	Lab Control Sample	38
LCSD 570-217840/3-A	Lab Control Sample Dup	44
LCSD 570-218142/3-A	Lab Control Sample Dup	41
MB 570-217840/1-A	Method Blank	41
MB 570-218142/1-A	Method Blank	44

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-218951/6
Matrix: Water
Analysis Batch: 218951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/11/22 20:50	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/11/22 20:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/11/22 20:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/11/22 20:50	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/11/22 20:50	1
1,1-Dichloroethane	ND		0.50		ug/L			03/11/22 20:50	1
1,1-Dichloroethene	ND		0.50		ug/L			03/11/22 20:50	1
1,1-Dichloropropene	ND		0.50		ug/L			03/11/22 20:50	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/11/22 20:50	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/11/22 20:50	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/11/22 20:50	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/11/22 20:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/11/22 20:50	1
1,2-Dibromoethane	ND		0.50		ug/L			03/11/22 20:50	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/11/22 20:50	1
1,2-Dichloroethane	ND		0.50		ug/L			03/11/22 20:50	1
1,2-Dichloropropane	ND		0.50		ug/L			03/11/22 20:50	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/11/22 20:50	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/11/22 20:50	1
1,3-Dichloropropane	ND		0.50		ug/L			03/11/22 20:50	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/11/22 20:50	1
2,2-Dichloropropane	ND		0.50		ug/L			03/11/22 20:50	1
2-Butanone	ND		5.0		ug/L			03/11/22 20:50	1
2-Chlorotoluene	ND		0.50		ug/L			03/11/22 20:50	1
2-Hexanone	ND		6.0		ug/L			03/11/22 20:50	1
4-Chlorotoluene	ND		0.50		ug/L			03/11/22 20:50	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/11/22 20:50	1
Acetone	ND		8.0		ug/L			03/11/22 20:50	1
Benzene	ND		0.50		ug/L			03/11/22 20:50	1
Bromobenzene	ND		0.50		ug/L			03/11/22 20:50	1
Bromochloromethane	ND		1.0		ug/L			03/11/22 20:50	1
Bromodichloromethane	ND		0.50		ug/L			03/11/22 20:50	1
Bromoform	ND		0.50		ug/L			03/11/22 20:50	1
Bromomethane	ND		2.0		ug/L			03/11/22 20:50	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/11/22 20:50	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/11/22 20:50	1
Carbon disulfide	ND		1.0		ug/L			03/11/22 20:50	1
Carbon tetrachloride	ND		0.50		ug/L			03/11/22 20:50	1
Chlorobenzene	ND		0.50		ug/L			03/11/22 20:50	1
Chloroethane	ND		0.50		ug/L			03/11/22 20:50	1
Chloroform	ND		0.50		ug/L			03/11/22 20:50	1
Chloromethane	ND		1.0		ug/L			03/11/22 20:50	1
Dibromochloromethane	ND		0.50		ug/L			03/11/22 20:50	1
Dibromomethane	ND		0.50		ug/L			03/11/22 20:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/11/22 20:50	1
Ethylbenzene	ND		0.50		ug/L			03/11/22 20:50	1
Isopropylbenzene	ND		0.50		ug/L			03/11/22 20:50	1
Methylene Chloride	ND		1.0		ug/L			03/11/22 20:50	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-218951/6
Matrix: Water
Analysis Batch: 218951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/11/22 20:50	1
Naphthalene	ND		1.0		ug/L			03/11/22 20:50	1
n-Butylbenzene	ND		0.50		ug/L			03/11/22 20:50	1
N-Propylbenzene	ND		0.50		ug/L			03/11/22 20:50	1
o-Xylene	ND		0.50		ug/L			03/11/22 20:50	1
m,p-Xylene	ND		1.0		ug/L			03/11/22 20:50	1
p-Isopropyltoluene	ND		0.50		ug/L			03/11/22 20:50	1
sec-Butylbenzene	ND		0.50		ug/L			03/11/22 20:50	1
Styrene	ND		0.50		ug/L			03/11/22 20:50	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/11/22 20:50	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/11/22 20:50	1
tert-Butylbenzene	ND		0.50		ug/L			03/11/22 20:50	1
Tetrachloroethene	ND		0.50		ug/L			03/11/22 20:50	1
Toluene	ND		0.50		ug/L			03/11/22 20:50	1
Trichloroethene	ND		0.50		ug/L			03/11/22 20:50	1
Trichlorofluoromethane	ND		0.50		ug/L			03/11/22 20:50	1
Vinyl acetate	ND		5.0		ug/L			03/11/22 20:50	1
Vinyl chloride	ND		0.50		ug/L			03/11/22 20:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		03/11/22 20:50	1
4-Bromofluorobenzene (Surr)	86		76 - 120		03/11/22 20:50	1
Dibromofluoromethane	105		80 - 120		03/11/22 20:50	1
Toluene-d8 (Surr)	106		80 - 120		03/11/22 20:50	1

Lab Sample ID: LCS 570-218951/3
Matrix: Water
Analysis Batch: 218951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.941		ug/L		99	69 - 137
1,1,1-Trichloroethane	10.0	9.603		ug/L		96	73 - 127
1,1,2,2-Tetrachloroethane	10.0	10.42		ug/L		104	77 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.906		ug/L		99	65 - 139
1,1,2-Trichloroethane	10.0	10.07		ug/L		101	80 - 120
1,1-Dichloroethane	10.0	10.99		ug/L		110	79 - 121
1,1-Dichloroethene	10.0	10.85		ug/L		108	69 - 130
1,1-Dichloropropene	10.0	9.061		ug/L		91	80 - 121
1,2,3-Trichlorobenzene	10.0	9.642		ug/L		96	79 - 123
1,2,3-Trichloropropane	10.0	10.40		ug/L		104	75 - 120
1,2,4-Trichlorobenzene	10.0	8.916		ug/L		89	80 - 121
1,2,4-Trimethylbenzene	10.0	9.670		ug/L		97	79 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.172		ug/L		82	53 - 128
1,2-Dibromoethane	10.0	9.892		ug/L		99	80 - 120
1,2-Dichlorobenzene	10.0	10.37		ug/L		104	80 - 120
1,2-Dichloroethane	10.0	10.29		ug/L		103	78 - 122
1,2-Dichloropropane	10.0	9.238		ug/L		92	80 - 121
1,3,5-Trimethylbenzene	10.0	10.49		ug/L		105	80 - 124

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-218951/3

Matrix: Water

Analysis Batch: 218951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	10.0	10.21		ug/L		102	80 - 120
1,3-Dichloropropane	10.0	9.626		ug/L		96	80 - 120
1,4-Dichlorobenzene	10.0	10.32		ug/L		103	80 - 120
2,2-Dichloropropane	10.0	11.21		ug/L		112	62 - 148
2-Butanone	10.0	10.47		ug/L		105	49 - 137
2-Chlorotoluene	10.0	11.03		ug/L		110	80 - 120
2-Hexanone	10.0	8.311		ug/L		83	55 - 130
4-Chlorotoluene	10.0	10.43		ug/L		104	80 - 120
4-Methyl-2-pentanone	10.0	8.454		ug/L		85	57 - 120
Acetone	10.0	10.02		ug/L		100	41 - 148
Benzene	10.0	10.27		ug/L		103	80 - 120
Bromobenzene	10.0	10.91		ug/L		109	80 - 120
Bromochloromethane	10.0	11.57		ug/L		116	80 - 120
Bromodichloromethane	10.0	9.357		ug/L		94	80 - 123
Bromoform	10.0	8.910		ug/L		89	53 - 147
Bromomethane	10.0	15.84	*+ me	ug/L		158	61 - 146
cis-1,2-Dichloroethene	10.0	10.17		ug/L		102	80 - 120
cis-1,3-Dichloropropene	10.0	8.831		ug/L		88	79 - 120
Carbon disulfide	10.0	10.64		ug/L		106	70 - 126
Carbon tetrachloride	10.0	8.941		ug/L		89	53 - 153
Chlorobenzene	10.0	10.88		ug/L		109	80 - 120
Chloroethane	10.0	10.38		ug/L		104	69 - 139
Chloroform	10.0	10.62		ug/L		106	80 - 120
Chloromethane	10.0	7.477		ug/L		75	46 - 148
Dibromochloromethane	10.0	9.149		ug/L		91	72 - 137
Dibromomethane	10.0	10.17		ug/L		102	80 - 120
Dichlorodifluoromethane	10.0	8.332		ug/L		83	49 - 131
Ethylbenzene	10.0	10.55		ug/L		106	80 - 120
Isopropylbenzene	10.0	10.63		ug/L		106	80 - 123
Methylene Chloride	10.0	10.86		ug/L		109	71 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	8.288		ug/L		83	71 - 120
Naphthalene	10.0	8.157		ug/L		82	66 - 120
n-Butylbenzene	10.0	9.562		ug/L		96	79 - 121
N-Propylbenzene	10.0	10.84		ug/L		108	80 - 124
o-Xylene	10.0	10.59		ug/L		106	80 - 122
m,p-Xylene	20.0	21.70		ug/L		109	80 - 124
p-Isopropyltoluene	10.0	9.548		ug/L		95	80 - 121
sec-Butylbenzene	10.0	10.00		ug/L		100	80 - 122
Styrene	10.0	10.36		ug/L		104	80 - 122
trans-1,2-Dichloroethene	10.0	9.690		ug/L		97	76 - 120
trans-1,3-Dichloropropene	10.0	9.283		ug/L		93	70 - 131
tert-Butylbenzene	10.0	9.829		ug/L		98	80 - 120
Tetrachloroethene	10.0	10.24		ug/L		102	80 - 125
Toluene	10.0	10.91		ug/L		109	80 - 120
Trichloroethene	10.0	9.244		ug/L		92	80 - 120
Trichlorofluoromethane	10.0	10.25		ug/L		103	68 - 148
Vinyl acetate	10.0	9.033		ug/L		90	45 - 141
Vinyl chloride	10.0	11.14		ug/L		111	77 - 148

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-218951/3
Matrix: Water
Analysis Batch: 218951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		64 - 132
4-Bromofluorobenzene (Surr)	102		76 - 120
Dibromofluoromethane	105		80 - 120
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: LCSD 570-218951/4
Matrix: Water
Analysis Batch: 218951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	9.953		ug/L		100	69 - 137	0	20	
1,1,1-Trichloroethane	10.0	9.566		ug/L		96	73 - 127	0	20	
1,1,2,2-Tetrachloroethane	10.0	10.23		ug/L		102	77 - 121	2	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.687		ug/L		97	65 - 139	2	20	
1,1,2-Trichloroethane	10.0	9.996		ug/L		100	80 - 120	1	20	
1,1-Dichloroethane	10.0	10.92		ug/L		109	79 - 121	1	20	
1,1-Dichloroethene	10.0	10.96		ug/L		110	69 - 130	1	20	
1,1-Dichloropropene	10.0	9.295		ug/L		93	80 - 121	3	20	
1,2,3-Trichlorobenzene	10.0	10.01		ug/L		100	79 - 123	4	20	
1,2,3-Trichloropropane	10.0	10.16		ug/L		102	75 - 120	2	20	
1,2,4-Trichlorobenzene	10.0	9.163		ug/L		92	80 - 121	3	20	
1,2,4-Trimethylbenzene	10.0	9.577		ug/L		96	79 - 120	1	20	
1,2-Dibromo-3-Chloropropane	10.0	8.299		ug/L		83	53 - 128	2	20	
1,2-Dibromoethane	10.0	9.464		ug/L		95	80 - 120	4	20	
1,2-Dichlorobenzene	10.0	10.40		ug/L		104	80 - 120	0	20	
1,2-Dichloroethane	10.0	10.23		ug/L		102	78 - 122	1	20	
1,2-Dichloropropane	10.0	9.464		ug/L		95	80 - 121	2	20	
1,3,5-Trimethylbenzene	10.0	10.42		ug/L		104	80 - 124	1	20	
1,3-Dichlorobenzene	10.0	10.35		ug/L		103	80 - 120	1	20	
1,3-Dichloropropane	10.0	9.696		ug/L		97	80 - 120	1	20	
1,4-Dichlorobenzene	10.0	10.42		ug/L		104	80 - 120	1	20	
2,2-Dichloropropane	10.0	10.99		ug/L		110	62 - 148	2	20	
2-Butanone	10.0	10.49		ug/L		105	49 - 137	0	28	
2-Chlorotoluene	10.0	11.07		ug/L		111	80 - 120	0	20	
2-Hexanone	10.0	8.264		ug/L		83	55 - 130	1	24	
4-Chlorotoluene	10.0	10.45		ug/L		105	80 - 120	0	20	
4-Methyl-2-pentanone	10.0	8.198		ug/L		82	57 - 120	3	20	
Acetone	10.0	10.49		ug/L		105	41 - 148	5	30	
Benzene	10.0	10.34		ug/L		103	80 - 120	1	20	
Bromobenzene	10.0	10.89		ug/L		109	80 - 120	0	20	
Bromochloromethane	10.0	11.58		ug/L		116	80 - 120	0	20	
Bromodichloromethane	10.0	9.421		ug/L		94	80 - 123	1	20	
Bromoform	10.0	9.060		ug/L		91	53 - 147	2	20	
Bromomethane	10.0	15.12	*+ me	ug/L		151	61 - 146	5	20	
cis-1,2-Dichloroethene	10.0	10.05		ug/L		101	80 - 120	1	20	
cis-1,3-Dichloropropene	10.0	9.001		ug/L		90	79 - 120	2	20	
Carbon disulfide	10.0	10.66		ug/L		107	70 - 126	0	20	
Carbon tetrachloride	10.0	9.025		ug/L		90	53 - 153	1	20	

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-218951/4
Matrix: Water
Analysis Batch: 218951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	10.0	10.92		ug/L		109	80 - 120	0	20
Chloroethane	10.0	10.23		ug/L		102	69 - 139	1	20
Chloroform	10.0	10.63		ug/L		106	80 - 120	0	20
Chloromethane	10.0	7.324		ug/L		73	46 - 148	2	20
Dibromochloromethane	10.0	9.375		ug/L		94	72 - 137	2	20
Dibromomethane	10.0	9.857		ug/L		99	80 - 120	3	20
Dichlorodifluoromethane	10.0	8.204		ug/L		82	49 - 131	2	20
Ethylbenzene	10.0	10.57		ug/L		106	80 - 120	0	20
Isopropylbenzene	10.0	10.65		ug/L		107	80 - 123	0	20
Methylene Chloride	10.0	10.84		ug/L		108	71 - 120	0	20
Methyl-t-Butyl Ether (MTBE)	10.0	8.602		ug/L		86	71 - 120	4	20
Naphthalene	10.0	8.206		ug/L		82	66 - 120	1	20
n-Butylbenzene	10.0	9.797		ug/L		98	79 - 121	2	20
N-Propylbenzene	10.0	10.91		ug/L		109	80 - 124	1	20
o-Xylene	10.0	10.63		ug/L		106	80 - 122	0	20
m,p-Xylene	20.0	21.54		ug/L		108	80 - 124	1	20
p-Isopropyltoluene	10.0	9.504		ug/L		95	80 - 121	0	20
sec-Butylbenzene	10.0	10.13		ug/L		101	80 - 122	1	20
Styrene	10.0	10.49		ug/L		105	80 - 122	1	20
trans-1,2-Dichloroethene	10.0	9.621		ug/L		96	76 - 120	1	20
trans-1,3-Dichloropropene	10.0	9.323		ug/L		93	70 - 131	0	20
tert-Butylbenzene	10.0	9.821		ug/L		98	80 - 120	0	20
Tetrachloroethene	10.0	10.39		ug/L		104	80 - 125	1	20
Toluene	10.0	10.93		ug/L		109	80 - 120	0	20
Trichloroethene	10.0	9.351		ug/L		94	80 - 120	1	20
Trichlorofluoromethane	10.0	10.26		ug/L		103	68 - 148	0	23
Vinyl acetate	10.0	9.237		ug/L		92	45 - 141	2	20
Vinyl chloride	10.0	11.11		ug/L		111	77 - 148	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		64 - 132
4-Bromofluorobenzene (Surr)	104		76 - 120
Dibromofluoromethane	104		80 - 120
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: MB 570-219230/7
Matrix: Water
Analysis Batch: 219230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50		ug/L			03/14/22 11:39	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		64 - 132		03/14/22 11:39	1
4-Bromofluorobenzene (Surr)	92		76 - 120		03/14/22 11:39	1
Dibromofluoromethane	100		80 - 120		03/14/22 11:39	1
Toluene-d8 (Surr)	105		80 - 120		03/14/22 11:39	1

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-219230/3
Matrix: Water
Analysis Batch: 219230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	10.0	9.890		ug/L		99	80 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	96		64 - 132				
4-Bromofluorobenzene (Surr)	99		76 - 120				
Dibromofluoromethane	102		80 - 120				
Toluene-d8 (Surr)	100		80 - 120				

Lab Sample ID: LCSD 570-219230/4
Matrix: Water
Analysis Batch: 219230

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	10.0	10.05		ug/L		101	80 - 120	2	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	95		64 - 132						
4-Bromofluorobenzene (Surr)	99		76 - 120						
Dibromofluoromethane	102		80 - 120						
Toluene-d8 (Surr)	102		80 - 120						

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-217840/1-A
Matrix: Water
Analysis Batch: 218248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/08/22 05:16	03/09/22 16:38	1
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	41		21 - 120				03/08/22 05:16	03/09/22 16:38	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	122		58 - 135				03/08/22 05:16	03/09/22 16:38	1

Lab Sample ID: LCS 570-217840/2-A
Matrix: Water
Analysis Batch: 218248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	20.0	20.59		ug/L		103	63 - 144
Isotope Dilution	%Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	41		21 - 120				

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCS 570-217840/2-A
Matrix: Water
Analysis Batch: 218248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217840

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	108		58 - 135

Lab Sample ID: LCSD 570-217840/3-A
Matrix: Water
Analysis Batch: 218248

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
1,4-Dioxane	20.0	20.47		ug/L		102	63 - 144	1	20	
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits							
1,4-Dioxane-d8	44		21 - 120							
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
Nitrobenzene-d5	100		58 - 135							

Lab Sample ID: 570-86626-3 MS
Matrix: Water
Analysis Batch: 218248

Client Sample ID: LAX-02
Prep Type: Total/NA
Prep Batch: 217840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,4-Dioxane	ND		20.0	19.41		ug/L		97	48 - 164	
Isotope Dilution	MS %Recovery	MS Qualifier	Limits							
1,4-Dioxane-d8	43		21 - 120							
Surrogate	MS %Recovery	MS Qualifier	Limits							
Nitrobenzene-d5	117		58 - 135							

Lab Sample ID: 570-86626-3 MSD
Matrix: Water
Analysis Batch: 218248

Client Sample ID: LAX-02
Prep Type: Total/NA
Prep Batch: 217840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		20.0	22.49		ug/L		112	48 - 164	15	20
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
1,4-Dioxane-d8	41		21 - 120								
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Nitrobenzene-d5	123		58 - 135								

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: MB 570-218142/1-A
Matrix: Water
Analysis Batch: 218535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		03/09/22 05:25	03/10/22 12:09	1
Isotope Dilution									
	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	44		21 - 120				03/09/22 05:25	03/10/22 12:09	1
Surrogate									
	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	111		58 - 135				03/09/22 05:25	03/10/22 12:09	1

Lab Sample ID: LCS 570-218142/2-A
Matrix: Water
Analysis Batch: 218535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	20.0	24.36		ug/L		122	63 - 144
Isotope Dilution							
	%Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	38		21 - 120				
Surrogate							
	%Recovery	LCS Qualifier	Limits				
Nitrobenzene-d5	109		58 - 135				

Lab Sample ID: LCSD 570-218142/3-A
Matrix: Water
Analysis Batch: 218535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	20.0	25.04		ug/L		125	63 - 144	3	20
Isotope Dilution									
	%Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8	41		21 - 120						
Surrogate									
	%Recovery	LCSD Qualifier	Limits						
Nitrobenzene-d5	102		58 - 135						

Lab Sample ID: 570-86626-9 MS
Matrix: Water
Analysis Batch: 218535

Client Sample ID: HEW-01
Prep Type: Total/NA
Prep Batch: 218142

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.4		20.0	28.40		ug/L		130	48 - 164
Isotope Dilution									
	%Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8	35		21 - 120						
Surrogate									
	%Recovery	MS Qualifier	Limits						
Nitrobenzene-d5	94		58 - 135						

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: 570-86626-9 MSD
Matrix: Water
Analysis Batch: 218535

Client Sample ID: HEW-01
Prep Type: Total/NA
Prep Batch: 218142

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.4		20.0	24.65		ug/L		111	48 - 164	14	20
	<i>MSD</i>	<i>MSD</i>									
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>								
1,4-Dioxane-d8	37		21 - 120								
	<i>MSD</i>	<i>MSD</i>									
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>								
Nitrobenzene-d5	87		58 - 135								

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 570-218951/3

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance
								Status
1,1,1,2-Tetrachloroethane	10.0	9.941		ug/L	99	69 - 137	73 - 133	
1,1,1-Trichloroethane	10.0	9.603		ug/L	96	73 - 127	67 - 129	
1,1,2,2-Tetrachloroethane	10.0	10.42		ug/L	104	77 - 121	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.906		ug/L	99	65 - 139	43 - 145	
1,1,2-Trichloroethane	10.0	10.07		ug/L	101	80 - 120	73 - 128	
1,1-Dichloroethane	10.0	10.99		ug/L	110	79 - 121	73 - 127	
1,1-Dichloroethene	10.0	10.85		ug/L	108	69 - 130	72 - 134	
1,1-Dichloropropene	10.0	9.061		ug/L	91	80 - 121	64 - 130	
1,2,3-Trichlorobenzene	10.0	9.642		ug/L	96	79 - 123	73 - 133	
1,2,3-Trichloropropane	10.0	10.40		ug/L	104	75 - 120	66 - 136	
1,2,4-Trichlorobenzene	10.0	8.916		ug/L	89	80 - 121	73 - 131	
1,2,4-Trimethylbenzene	10.0	9.670		ug/L	97	79 - 120	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	8.172		ug/L	82	53 - 128	53 - 133	
1,2-Dibromoethane	10.0	9.892		ug/L	99	80 - 120	73 - 133	
1,2-Dichlorobenzene	10.0	10.37		ug/L	104	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	10.29		ug/L	103	78 - 122	67 - 139	
1,2-Dichloropropane	10.0	9.238		ug/L	92	80 - 121	66 - 132	
1,3,5-Trimethylbenzene	10.0	10.49		ug/L	105	80 - 124	73 - 129	
1,3-Dichlorobenzene	10.0	10.21		ug/L	102	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	9.626		ug/L	96	80 - 120	73 - 128	
1,4-Dichlorobenzene	10.0	10.32		ug/L	103	80 - 120	73 - 127	
2,2-Dichloropropane	10.0	11.21		ug/L	112	62 - 148	70 - 140	
2-Butanone	10.0	10.47		ug/L	105	49 - 137	32 - 161	
2-Chlorotoluene	10.0	11.03		ug/L	110	80 - 120	73 - 127	
2-Hexanone	10.0	8.311		ug/L	83	55 - 130	34 - 166	
4-Chlorotoluene	10.0	10.43		ug/L	104	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	8.454		ug/L	85	57 - 120	54 - 130	
Acetone	10.0	10.02		ug/L	100	41 - 148	29 - 155	
Benzene	10.0	10.27		ug/L	103	80 - 120	73 - 127	
Bromobenzene	10.0	10.91		ug/L	109	80 - 120	73 - 133	
Bromochloromethane	10.0	11.57		ug/L	116	80 - 120	73 - 127	
Bromodichloromethane	10.0	9.357		ug/L	94	80 - 123	63 - 141	
Bromoform	10.0	8.910		ug/L	89	53 - 147	68 - 132	
Bromomethane	10.0	15.84	*+ me	ug/L	158	61 - 146	1 - 206	ME
cis-1,2-Dichloroethene	10.0	10.17		ug/L	102	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	8.831		ug/L	88	79 - 120	68 - 131	
Carbon disulfide	10.0	10.64		ug/L	106	70 - 126	67 - 131	
Carbon tetrachloride	10.0	8.941		ug/L	89	53 - 153	48 - 152	
Chlorobenzene	10.0	10.88		ug/L	109	80 - 120	73 - 127	
Chloroethane	10.0	10.38		ug/L	104	69 - 139	38 - 166	
Chloroform	10.0	10.62		ug/L	106	80 - 120	73 - 127	
Chloromethane	10.0	7.477		ug/L	75	46 - 148	8 - 172	
Dibromochloromethane	10.0	9.149		ug/L	91	72 - 137	64 - 146	
Dibromomethane	10.0	10.17		ug/L	102	80 - 120	73 - 129	
Dichlorodifluoromethane	10.0	8.332		ug/L	83	49 - 131	6 - 175	
Ethylbenzene	10.0	10.55		ug/L	106	80 - 120	72 - 134	
Isopropylbenzene	10.0	10.63		ug/L	106	80 - 123	73 - 127	
Methylene Chloride	10.0	10.86		ug/L	109	71 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	8.288		ug/L	83	71 - 120	59 - 138	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-218951/3
Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Naphthalene	10.0	8.157		ug/L	82	66 - 120	60 - 140	
n-Butylbenzene	10.0	9.562		ug/L	96	79 - 121	70 - 135	
N-Propylbenzene	10.0	10.84		ug/L	108	80 - 124	73 - 128	
o-Xylene	10.0	10.59		ug/L	106	80 - 122	73 - 131	
m,p-Xylene	20.0	21.70		ug/L	109	80 - 124	73 - 130	
p-Isopropyltoluene	10.0	9.548		ug/L	95	80 - 121	72 - 136	
sec-Butylbenzene	10.0	10.00		ug/L	100	80 - 122	73 - 133	
Styrene	10.0	10.36		ug/L	104	80 - 122	73 - 128	
trans-1,2-Dichloroethene	10.0	9.690		ug/L	97	76 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	9.283		ug/L	93	70 - 131	72 - 134	
tert-Butylbenzene	10.0	9.829		ug/L	98	80 - 120	73 - 128	
Tetrachloroethene	10.0	10.24		ug/L	102	80 - 125	73 - 133	
Toluene	10.0	10.91		ug/L	109	80 - 120	73 - 127	
Trichloroethene	10.0	9.244		ug/L	92	80 - 120	69 - 132	
Trichlorofluoromethane	10.0	10.25		ug/L	103	68 - 148	21 - 183	
Vinyl acetate	10.0	9.033		ug/L	90	45 - 141	50 - 137	
Vinyl chloride	10.0	11.14		ug/L	111	77 - 148	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	1

ME = Marginal Exceedance

Lab Sample ID: LCSD 570-218951/4
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	10.0	9.953		ug/L	100	69 - 137	73 - 133	
1,1,1-Trichloroethane	10.0	9.566		ug/L	96	73 - 127	67 - 129	
1,1,2,2-Tetrachloroethane	10.0	10.23		ug/L	102	77 - 121	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.687		ug/L	97	65 - 139	43 - 145	
1,1,2-Trichloroethane	10.0	9.996		ug/L	100	80 - 120	73 - 128	
1,1-Dichloroethane	10.0	10.92		ug/L	109	79 - 121	73 - 127	
1,1-Dichloroethene	10.0	10.96		ug/L	110	69 - 130	72 - 134	
1,1-Dichloropropene	10.0	9.295		ug/L	93	80 - 121	64 - 130	
1,2,3-Trichlorobenzene	10.0	10.01		ug/L	100	79 - 123	73 - 133	
1,2,3-Trichloropropane	10.0	10.16		ug/L	102	75 - 120	66 - 136	
1,2,4-Trichlorobenzene	10.0	9.163		ug/L	92	80 - 121	73 - 131	
1,2,4-Trimethylbenzene	10.0	9.577		ug/L	96	79 - 120	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	8.299		ug/L	83	53 - 128	53 - 133	
1,2-Dibromoethane	10.0	9.464		ug/L	95	80 - 120	73 - 133	
1,2-Dichlorobenzene	10.0	10.40		ug/L	104	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	10.23		ug/L	102	78 - 122	67 - 139	
1,2-Dichloropropane	10.0	9.464		ug/L	95	80 - 121	66 - 132	
1,3,5-Trimethylbenzene	10.0	10.42		ug/L	104	80 - 124	73 - 129	
1,3-Dichlorobenzene	10.0	10.35		ug/L	103	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	9.696		ug/L	97	80 - 120	73 - 128	
1,4-Dichlorobenzene	10.0	10.42		ug/L	104	80 - 120	73 - 127	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-218951/4
 Matrix: Water

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
2,2-Dichloropropane	10.0	10.99		ug/L	110	62 - 148	70 - 140	
2-Butanone	10.0	10.49		ug/L	105	49 - 137	32 - 161	
2-Chlorotoluene	10.0	11.07		ug/L	111	80 - 120	73 - 127	
2-Hexanone	10.0	8.264		ug/L	83	55 - 130	34 - 166	
4-Chlorotoluene	10.0	10.45		ug/L	105	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	8.198		ug/L	82	57 - 120	54 - 130	
Acetone	10.0	10.49		ug/L	105	41 - 148	29 - 155	
Benzene	10.0	10.34		ug/L	103	80 - 120	73 - 127	
Bromobenzene	10.0	10.89		ug/L	109	80 - 120	73 - 133	
Bromochloromethane	10.0	11.58		ug/L	116	80 - 120	73 - 127	
Bromodichloromethane	10.0	9.421		ug/L	94	80 - 123	63 - 141	
Bromoform	10.0	9.060		ug/L	91	53 - 147	68 - 132	
Bromomethane	10.0	15.12	*+ me	ug/L	151	61 - 146	1 - 206	ME
cis-1,2-Dichloroethene	10.0	10.05		ug/L	101	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	9.001		ug/L	90	79 - 120	68 - 131	
Carbon disulfide	10.0	10.66		ug/L	107	70 - 126	67 - 131	
Carbon tetrachloride	10.0	9.025		ug/L	90	53 - 153	48 - 152	
Chlorobenzene	10.0	10.92		ug/L	109	80 - 120	73 - 127	
Chloroethane	10.0	10.23		ug/L	102	69 - 139	38 - 166	
Chloroform	10.0	10.63		ug/L	106	80 - 120	73 - 127	
Chloromethane	10.0	7.324		ug/L	73	46 - 148	8 - 172	
Dibromochloromethane	10.0	9.375		ug/L	94	72 - 137	64 - 146	
Dibromomethane	10.0	9.857		ug/L	99	80 - 120	73 - 129	
Dichlorodifluoromethane	10.0	8.204		ug/L	82	49 - 131	6 - 175	
Ethylbenzene	10.0	10.57		ug/L	106	80 - 120	72 - 134	
Isopropylbenzene	10.0	10.65		ug/L	107	80 - 123	73 - 127	
Methylene Chloride	10.0	10.84		ug/L	108	71 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	8.602		ug/L	86	71 - 120	59 - 138	
Naphthalene	10.0	8.206		ug/L	82	66 - 120	60 - 140	
n-Butylbenzene	10.0	9.797		ug/L	98	79 - 121	70 - 135	
N-Propylbenzene	10.0	10.91		ug/L	109	80 - 124	73 - 128	
o-Xylene	10.0	10.63		ug/L	106	80 - 122	73 - 131	
m,p-Xylene	20.0	21.54		ug/L	108	80 - 124	73 - 130	
p-Isopropyltoluene	10.0	9.504		ug/L	95	80 - 121	72 - 136	
sec-Butylbenzene	10.0	10.13		ug/L	101	80 - 122	73 - 133	
Styrene	10.0	10.49		ug/L	105	80 - 122	73 - 128	
trans-1,2-Dichloroethene	10.0	9.621		ug/L	96	76 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	9.323		ug/L	93	70 - 131	72 - 134	
tert-Butylbenzene	10.0	9.821		ug/L	98	80 - 120	73 - 128	
Tetrachloroethene	10.0	10.39		ug/L	104	80 - 125	73 - 133	
Toluene	10.0	10.93		ug/L	109	80 - 120	73 - 127	
Trichloroethene	10.0	9.351		ug/L	94	80 - 120	69 - 132	
Trichlorofluoromethane	10.0	10.26		ug/L	103	68 - 148	21 - 183	
Vinyl acetate	10.0	9.237		ug/L	92	45 - 141	50 - 137	
Vinyl chloride	10.0	11.11		ug/L	111	77 - 148	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	1

Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

ME = Marginal Exceedance

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

GC/MS VOA

Analysis Batch: 218951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-86626-1	TB-030122	Total/NA	Water	8260B	
570-86626-2	LAX-01	Total/NA	Water	8260B	
570-86626-3	LAX-02	Total/NA	Water	8260B	
570-86626-4	LAX-03	Total/NA	Water	8260B	
570-86626-5	UAX-01	Total/NA	Water	8260B	
570-86626-6	UAX-02	Total/NA	Water	8260B	
570-86626-7	UAX-03	Total/NA	Water	8260B	
570-86626-8	RB-030122	Total/NA	Water	8260B	
570-86626-9	HEW-01	Total/NA	Water	8260B	
570-86626-10	HEW-0100	Total/NA	Water	8260B	
570-86626-11	HEW-02	Total/NA	Water	8260B	
570-86626-12	HEW-03	Total/NA	Water	8260B	
570-86626-13	HEW-04	Total/NA	Water	8260B	
570-86626-14	HEW-05	Total/NA	Water	8260B	
MB 570-218951/6	Method Blank	Total/NA	Water	8260B	
LCS 570-218951/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-218951/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 219230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-86626-11 - DL	HEW-02	Total/NA	Water	8260B	
MB 570-219230/7	Method Blank	Total/NA	Water	8260B	
LCS 570-219230/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-219230/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 217840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-86626-3	LAX-02	Total/NA	Water	3510C	
570-86626-4	LAX-03	Total/NA	Water	3510C	
570-86626-5	UAX-01	Total/NA	Water	3510C	
570-86626-6	UAX-02	Total/NA	Water	3510C	
570-86626-7	UAX-03	Total/NA	Water	3510C	
570-86626-11	HEW-02	Total/NA	Water	3510C	
570-86626-14	HEW-05	Total/NA	Water	3510C	
MB 570-217840/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-217840/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-217840/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-86626-3 MS	LAX-02	Total/NA	Water	3510C	
570-86626-3 MSD	LAX-02	Total/NA	Water	3510C	

Prep Batch: 218142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-86626-2	LAX-01	Total/NA	Water	3510C	
570-86626-9	HEW-01	Total/NA	Water	3510C	
570-86626-10	HEW-0100	Total/NA	Water	3510C	
570-86626-12	HEW-03	Total/NA	Water	3510C	
570-86626-13	HEW-04	Total/NA	Water	3510C	
MB 570-218142/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-218142/2-A	Lab Control Sample	Total/NA	Water	3510C	

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QC Association Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

GC/MS Semi VOA (Continued)

Prep Batch: 218142 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-218142/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-86626-9 MS	HEW-01	Total/NA	Water	3510C	
570-86626-9 MSD	HEW-01	Total/NA	Water	3510C	

Analysis Batch: 218248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-86626-3	LAX-02	Total/NA	Water	8270C SIM ID	217840
570-86626-4	LAX-03	Total/NA	Water	8270C SIM ID	217840
570-86626-5	UAX-01	Total/NA	Water	8270C SIM ID	217840
570-86626-6	UAX-02	Total/NA	Water	8270C SIM ID	217840
570-86626-7	UAX-03	Total/NA	Water	8270C SIM ID	217840
570-86626-11	HEW-02	Total/NA	Water	8270C SIM ID	217840
570-86626-14	HEW-05	Total/NA	Water	8270C SIM ID	217840
MB 570-217840/1-A	Method Blank	Total/NA	Water	8270C SIM ID	217840
LCS 570-217840/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	217840
LCSD 570-217840/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	217840
570-86626-3 MS	LAX-02	Total/NA	Water	8270C SIM ID	217840
570-86626-3 MSD	LAX-02	Total/NA	Water	8270C SIM ID	217840

Analysis Batch: 218535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-86626-2	LAX-01	Total/NA	Water	8270C SIM ID	218142
570-86626-9	HEW-01	Total/NA	Water	8270C SIM ID	218142
570-86626-10	HEW-0100	Total/NA	Water	8270C SIM ID	218142
570-86626-12	HEW-03	Total/NA	Water	8270C SIM ID	218142
570-86626-13	HEW-04	Total/NA	Water	8270C SIM ID	218142
MB 570-218142/1-A	Method Blank	Total/NA	Water	8270C SIM ID	218142
LCS 570-218142/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	218142
LCSD 570-218142/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	218142
570-86626-9 MS	HEW-01	Total/NA	Water	8270C SIM ID	218142
570-86626-9 MSD	HEW-01	Total/NA	Water	8270C SIM ID	218142

Lab Chronicle

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Client Sample ID: TB-030122

Lab Sample ID: 570-86626-1

Date Collected: 03/01/22 08:00

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/11/22 21:40	OH1	ECL 4
Instrument ID: GCMSVV										

Client Sample ID: LAX-01

Lab Sample ID: 570-86626-2

Date Collected: 03/02/22 09:05

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/11/22 23:43	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	218142	03/09/22 05:26	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218535	03/10/22 14:20	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: LAX-02

Lab Sample ID: 570-86626-3

Date Collected: 03/01/22 08:45

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/12/22 00:08	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	217840	03/08/22 05:16	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218248	03/09/22 17:51	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: LAX-03

Lab Sample ID: 570-86626-4

Date Collected: 03/01/22 09:35

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/12/22 00:33	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	217840	03/08/22 05:16	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218248	03/09/22 19:18	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-01

Lab Sample ID: 570-86626-5

Date Collected: 03/01/22 15:50

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/12/22 00:58	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	217840	03/08/22 05:16	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218248	03/09/22 18:05	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Lab Chronicle

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Client Sample ID: UAX-02

Lab Sample ID: 570-86626-6

Date Collected: 03/01/22 09:50

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/12/22 01:23	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	217840	03/08/22 05:16	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218248	03/09/22 18:20	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-03

Lab Sample ID: 570-86626-7

Date Collected: 03/01/22 15:00

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/12/22 01:47	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	217840	03/08/22 05:16	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218248	03/09/22 18:34	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: RB-030122

Lab Sample ID: 570-86626-8

Date Collected: 03/01/22 10:00

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/12/22 02:12	OH1	ECL 4
Instrument ID: GCMSVV										

Client Sample ID: HEW-01

Lab Sample ID: 570-86626-9

Date Collected: 03/02/22 08:04

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	20 mL	20 mL	218951	03/12/22 02:37	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	218142	03/09/22 05:26	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218535	03/10/22 13:22	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-0100

Lab Sample ID: 570-86626-10

Date Collected: 03/02/22 08:35

Matrix: Water

Date Received: 03/03/22 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	20 mL	20 mL	218951	03/12/22 03:02	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	218142	03/09/22 05:26	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218535	03/10/22 13:36	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Lab Chronicle

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Client Sample ID: HEW-02
Date Collected: 03/01/22 11:15
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	218951	03/12/22 03:27	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Analysis	8260B	DL	2	20 mL	20 mL	219230	03/14/22 17:36	UJHB	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	217840	03/08/22 05:16	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218248	03/09/22 18:49	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-03
Date Collected: 03/02/22 08:18
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	218951	03/12/22 03:51	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	218142	03/09/22 05:26	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218535	03/10/22 13:51	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-04
Date Collected: 03/02/22 08:40
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	218951	03/12/22 04:16	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	218142	03/09/22 05:26	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218535	03/10/22 14:05	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-05
Date Collected: 03/01/22 10:58
Date Received: 03/03/22 10:16

Lab Sample ID: 570-86626-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	218951	03/12/22 04:41	OH1	ECL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	217840	03/08/22 05:16	PQS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			218248	03/09/22 19:03	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494
 ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	CA300001	01-31-23

- 1
- 2
- 3
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- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	ECL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



Sample Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale/Bldg 684

Job ID: 570-86626-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-86626-1	TB-030122	Water	03/01/22 08:00	03/03/22 10:16
570-86626-2	LAX-01	Water	03/02/22 09:05	03/03/22 10:16
570-86626-3	LAX-02	Water	03/01/22 08:45	03/03/22 10:16
570-86626-4	LAX-03	Water	03/01/22 09:35	03/03/22 10:16
570-86626-5	UAX-01	Water	03/01/22 15:50	03/03/22 10:16
570-86626-6	UAX-02	Water	03/01/22 09:50	03/03/22 10:16
570-86626-7	UAX-03	Water	03/01/22 15:00	03/03/22 10:16
570-86626-8	RB-030122	Water	03/01/22 10:00	03/03/22 10:16
570-86626-9	HEW-01	Water	03/02/22 08:04	03/03/22 10:16
570-86626-10	HEW-0100	Water	03/02/22 08:35	03/03/22 10:16
570-86626-11	HEW-02	Water	03/01/22 11:15	03/03/22 10:16
570-86626-12	HEW-03	Water	03/02/22 08:18	03/03/22 10:16
570-86626-13	HEW-04	Water	03/02/22 08:40	03/03/22 10:16
570-86626-14	HEW-05	Water	03/01/22 10:58	03/03/22 10:16

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PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Laboratory
Eurofins Calscience, Inc
Attn: **Virendra Patel**
ECI Project #57001317
2841 Dow Avenue, Suite 100
Tustin, CA 92780

Project BCI Fullerton 764 10	Sampled By: A. DONNELLY, A. WARDEN	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	250 mL Amber	VOCs by EPA 8260B	1,4-Dioxane by 8270C	ESTIMATED CONCENTRATION				Standard TAT	MS/MSD Requested	REMARKS	
		Date	Time										0-10	10-100	100-1,000	>1,000				
1	TB-030122	03/01/22	0800	X	X		X	2		X			X							
2	LAX-01	03/02/22	0905	X	X		X	3		X			X							
	↓	↓	↓	X			X					X								
3	LAX-02	03/01/22	0845	X	X		X	3		X			X							
	↓		↓	X			X					X								
4	LAX-03		0935	X	X		X	3		X			X							
	↓		↓	X			X					X								
5	UAX-01		1550	X	X		X	3		X			X							
	↓		↓	X			X					X								
6	UAX-02		0950	X	X		X	3		X			X							
	↓		↓	X			X					X								
7	UAX-03		1500	X	X		X	3		X			X							
	↓		↓	X			X					X								
8	RB-030122	√	1000		X	X	X	3		X			X							

Total number of containers per analysis. _____ Total No of Containers. _____

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company	Date / Time	Received By / Company	Date / Time
<i>ADW / H+A</i>	3/2/22 1030	<i>[Signature]</i>	3/2 10:16
Relinquished By / Company	Date / Time	Received By / Company	Date / Time

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to:
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com



2.0/2.0
510
Temperature on receipt





PROJECT Building 684 - Raytheon
TASK NO 764 10

Date 03/02/2022
Page 2 of 2

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Laboratory
Eurofins Calscience, Inc
Attn: Virendra Patel
ECI Project #57001317
2841 Dow Avenue, Suite 100
Tustin, CA 92780

Project BCI Fullerton 764 10	Sampled By A. DONNELLY, A. WARDEN	SAMPLE COLLECTION		Groundwater Lab prepared water Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber 250 mL Amber VOCs by EPA 8260B	1,4-Dioxane by 8270C	ESTIMATED CONCENTRATION				Standard TAT	MS/MSD Requested	REMARKS
		Date	Time						0-10	10-100	100-1,000	>1,000			
9	HEW-01	03/02/22	0804	X	X	X	3	X			X		X		
	↓		↓	X		X			X				X		
10	HEW-0100		0835	X	X	X	3	X			X		X		
	↓		↓	X		X			X				X		
11	HEW-02	03/01/22	1115	X	X	X	3	X			X		X		
	↓		↓	X		X			X				X		
12	HEW-03	03/02/22	0818	X	X	X	3	X		X			X		
	↓		↓	X		X			X				X		
13	HEW-04		0840	X	X	X	3	X			X		X		
	↓		↓	X		X			X				X		
14	HEW-05	03/01/22	1058	X	X	X	3	X			X		X		
	↓		↓	X		X			X				X		

Total number of containers per analysis _____ Total No of Containers _____
 Comments Report "J" Flags
 Geotracker ID T0605900143, Log Code HARG
 Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company	Date / Time	Received By / Company	Date / Time
<i>AD</i> / H+A	3/2/22 1030	<i>Steve Netto</i>	3/2/22
Relinquished By / Company	Date / Time	Received By / Company	Date / Time

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

_____ Temperature on receipt



Login Sample Receipt Checklist

Client: Hargis + Associates, Inc.

Job Number: 570-86626-1

Login Number: 86626

List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-96070-1
Client Project/Site: Raytheon Bldg 684

For:
Hargis + Associates, Inc.
3131 Camino del Rio N
Suite 355
San Diego, California 92108

Attn: Steve Netto

Virendra R Patel

Authorized for release by:
5/25/2022 11:32:02 AM

Virendra Patel, Project Manager I
(714)895-5494

Virendra.Patel@et.eurofinsus.com

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Job ID: 570-96070-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-96070-1

Comments

No additional comments.

Receipt

The samples were received on 5/12/2022 1:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 2.9° C.

GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 570-236670 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260B: The matrix spike (MS) associated with parent sample 570-96070-A-14 for analytical batch 570-236670 was analyzed outside of the 12-hour tune window. The associated laboratory control sample and duplicate (LCS/LCSD) and matrix spike duplicate (MSD) were analyzed within the 12-hour tune window. Precision and accuracy met acceptance criteria

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Client Sample ID: TB-051222

Lab Sample ID: 570-96070-1

No Detections.

Client Sample ID: LAX-03

Lab Sample ID: 570-96070-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.28	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: UAX-02

Lab Sample ID: 570-96070-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.1		0.50	0.21	ug/L	1		8260B	Total/NA
Trichloroethene	4.2		0.50	0.15	ug/L	1		8260B	Total/NA
1,4-Dioxane	1.7		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: UAX-0200

Lab Sample ID: 570-96070-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	3.8		0.50	0.21	ug/L	1		8260B	Total/NA
Trichloroethene	4.1		0.50	0.15	ug/L	1		8260B	Total/NA
1,4-Dioxane	2.0		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: LAX-02

Lab Sample ID: 570-96070-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.32	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: RB-051222

Lab Sample ID: 570-96070-6

No Detections.

Client Sample ID: LAX-01

Lab Sample ID: 570-96070-7

No Detections.

Client Sample ID: UAX-03

Lab Sample ID: 570-96070-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.69		0.50	0.21	ug/L	1		8260B	Total/NA
Trichloroethene	8.4		0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: HEW-04

Lab Sample ID: 570-96070-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.3	J	2.0	0.84	ug/L	4		8260B	Total/NA
Tetrachloroethene	0.91	J	2.0	0.62	ug/L	4		8260B	Total/NA
Trichloroethene	72		2.0	0.61	ug/L	4		8260B	Total/NA
1,4-Dioxane	8.9		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: HEW-02

Lab Sample ID: 570-96070-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	94		1.0	0.31	ug/L	2		8260B	Total/NA

Client Sample ID: HEW-05

Lab Sample ID: 570-96070-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.31	ug/L	2		8260B	Total/NA
Trichloroethene	110		1.0	0.31	ug/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Client Sample ID: HEW-01

Lab Sample ID: 570-96070-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.8		5.0	1.6	ug/L	10		8260B	Total/NA
Trichloroethene	550		5.0	1.5	ug/L	10		8260B	Total/NA
1,4-Dioxane	2.5		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: HEW-03

Lab Sample ID: 570-96070-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.8	J	2.0	0.62	ug/L	4		8260B	Total/NA
Trichloroethene	93		2.0	0.61	ug/L	4		8260B	Total/NA

Client Sample ID: UAX-01

Lab Sample ID: 570-96070-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.7	F2 F1	0.50	0.21	ug/L	1		8260B	Total/NA
Trichloroethene	1.9		0.50	0.15	ug/L	1		8260B	Total/NA
1,4-Dioxane	0.99		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-051222
Date Collected: 05/12/22 07:30
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 01:23	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 01:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 01:23	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 01:23	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 01:23	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			05/25/22 01:23	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 01:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 01:23	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 01:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 01:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 01:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 01:23	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 01:23	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 01:23	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 01:23	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 01:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 01:23	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 01:23	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 01:23	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 01:23	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 01:23	1
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 01:23	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 01:23	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 01:23	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 01:23	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 01:23	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 01:23	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 01:23	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 01:23	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 01:23	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 01:23	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 01:23	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 01:23	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 01:23	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/25/22 01:23	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 01:23	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 01:23	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 01:23	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 01:23	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 01:23	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 01:23	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 01:23	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 01:23	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 01:23	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 01:23	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 01:23	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 01:23	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 01:23	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-051222
Date Collected: 05/12/22 07:30
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 01:23	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 01:23	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 01:23	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 01:23	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 01:23	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 01:23	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 01:23	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 01:23	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 01:23	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 01:23	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 01:23	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 01:23	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 01:23	1
Trichloroethene	ND		0.50	0.15	ug/L			05/25/22 01:23	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 01:23	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 01:23	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 132		05/25/22 01:23	1
4-Bromofluorobenzene (Surr)	96		76 - 120		05/25/22 01:23	1
Dibromofluoromethane	100		80 - 120		05/25/22 01:23	1
Toluene-d8 (Surr)	103		80 - 120		05/25/22 01:23	1

Client Sample ID: LAX-03
Date Collected: 05/12/22 08:05
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 02:49	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 02:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 02:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 02:49	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 02:49	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 02:49	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			05/25/22 02:49	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 02:49	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 02:49	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 02:49	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 02:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 02:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 02:49	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 02:49	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 02:49	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 02:49	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 02:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 02:49	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 02:49	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 02:49	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 02:49	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 02:49	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-03
Date Collected: 05/12/22 08:05
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 02:49	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 02:49	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 02:49	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 02:49	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 02:49	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 02:49	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 02:49	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 02:49	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 02:49	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 02:49	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 02:49	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 02:49	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 02:49	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			05/25/22 02:49	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 02:49	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 02:49	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 02:49	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 02:49	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 02:49	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 02:49	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 02:49	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 02:49	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 02:49	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 02:49	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 02:49	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 02:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 02:49	1
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 02:49	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 02:49	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 02:49	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 02:49	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 02:49	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 02:49	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 02:49	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 02:49	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 02:49	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 02:49	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 02:49	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 02:49	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 02:49	1
Trichloroethene	0.28	J	0.50	0.15	ug/L			05/25/22 02:49	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 02:49	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 02:49	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		05/25/22 02:49	1
4-Bromofluorobenzene (Surr)	93		76 - 120		05/25/22 02:49	1
Dibromofluoromethane	103		80 - 120		05/25/22 02:49	1
Toluene-d8 (Surr)	102		80 - 120		05/25/22 02:49	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UAX-02
Date Collected: 05/12/22 08:25
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 03:18	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 03:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 03:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 03:18	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 03:18	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 03:18	1
1,1-Dichloroethene	4.1		0.50	0.21	ug/L			05/25/22 03:18	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 03:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 03:18	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 03:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 03:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 03:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 03:18	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 03:18	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 03:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 03:18	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 03:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 03:18	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 03:18	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 03:18	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 03:18	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 03:18	1
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 03:18	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 03:18	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 03:18	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 03:18	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 03:18	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 03:18	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 03:18	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 03:18	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 03:18	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 03:18	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 03:18	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 03:18	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 03:18	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/25/22 03:18	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 03:18	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 03:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 03:18	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 03:18	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 03:18	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 03:18	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 03:18	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 03:18	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 03:18	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 03:18	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 03:18	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 03:18	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 03:18	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-02
Date Collected: 05/12/22 08:25
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 03:18	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 03:18	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 03:18	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 03:18	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 03:18	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 03:18	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 03:18	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 03:18	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 03:18	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 03:18	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 03:18	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 03:18	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 03:18	1
Trichloroethene	4.2		0.50	0.15	ug/L			05/25/22 03:18	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 03:18	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 03:18	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		64 - 132		05/25/22 03:18	1
<i>4-Bromofluorobenzene (Surr)</i>	97		76 - 120		05/25/22 03:18	1
<i>Dibromofluoromethane</i>	100		80 - 120		05/25/22 03:18	1
<i>Toluene-d8 (Surr)</i>	102		80 - 120		05/25/22 03:18	1

Client Sample ID: UAX-0200
Date Collected: 05/12/22 09:00
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 03:47	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 03:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 03:47	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 03:47	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 03:47	1
1,1-Dichloroethene	3.8		0.50	0.21	ug/L			05/25/22 03:47	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 03:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 03:47	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 03:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 03:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 03:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 03:47	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 03:47	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 03:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 03:47	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 03:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 03:47	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 03:47	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 03:47	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 03:47	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 03:47	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-0200
Date Collected: 05/12/22 09:00
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 03:47	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 03:47	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 03:47	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 03:47	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 03:47	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 03:47	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 03:47	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 03:47	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 03:47	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 03:47	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 03:47	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 03:47	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 03:47	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			05/25/22 03:47	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 03:47	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 03:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 03:47	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 03:47	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 03:47	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 03:47	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 03:47	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 03:47	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 03:47	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 03:47	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 03:47	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 03:47	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 03:47	1
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 03:47	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 03:47	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 03:47	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 03:47	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 03:47	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 03:47	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 03:47	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 03:47	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 03:47	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 03:47	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 03:47	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 03:47	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 03:47	1
Trichloroethene	4.1		0.50	0.15	ug/L			05/25/22 03:47	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 03:47	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 03:47	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 132		05/25/22 03:47	1
4-Bromofluorobenzene (Surr)	91		76 - 120		05/25/22 03:47	1
Dibromofluoromethane	100		80 - 120		05/25/22 03:47	1
Toluene-d8 (Surr)	105		80 - 120		05/25/22 03:47	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LAX-02
Date Collected: 05/12/22 08:50
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 04:16	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 04:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 04:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 04:16	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 04:16	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 04:16	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			05/25/22 04:16	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 04:16	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 04:16	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 04:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 04:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 04:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 04:16	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 04:16	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 04:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 04:16	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 04:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 04:16	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 04:16	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 04:16	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 04:16	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 04:16	1
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 04:16	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 04:16	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 04:16	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 04:16	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 04:16	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 04:16	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 04:16	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 04:16	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 04:16	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 04:16	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 04:16	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 04:16	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 04:16	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/25/22 04:16	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 04:16	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 04:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 04:16	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 04:16	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 04:16	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 04:16	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 04:16	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 04:16	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 04:16	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 04:16	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 04:16	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 04:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 04:16	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-02
Date Collected: 05/12/22 08:50
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 04:16	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 04:16	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 04:16	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 04:16	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 04:16	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 04:16	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 04:16	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 04:16	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 04:16	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 04:16	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 04:16	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 04:16	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 04:16	1
Trichloroethene	0.32	J	0.50	0.15	ug/L			05/25/22 04:16	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 04:16	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 04:16	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 132		05/25/22 04:16	1
4-Bromofluorobenzene (Surr)	104		76 - 120		05/25/22 04:16	1
Dibromofluoromethane	102		80 - 120		05/25/22 04:16	1
Toluene-d8 (Surr)	99		80 - 120		05/25/22 04:16	1

Client Sample ID: RB-051222
Date Collected: 05/12/22 09:10
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 04:45	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 04:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 04:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 04:45	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 04:45	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 04:45	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			05/25/22 04:45	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 04:45	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 04:45	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 04:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 04:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 04:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 04:45	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 04:45	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 04:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 04:45	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 04:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 04:45	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 04:45	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 04:45	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 04:45	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 04:45	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-051222
Date Collected: 05/12/22 09:10
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 04:45	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 04:45	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 04:45	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 04:45	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 04:45	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 04:45	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 04:45	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 04:45	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 04:45	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 04:45	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 04:45	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 04:45	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 04:45	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			05/25/22 04:45	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 04:45	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 04:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 04:45	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 04:45	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 04:45	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 04:45	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 04:45	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 04:45	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 04:45	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 04:45	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 04:45	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 04:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 04:45	1
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 04:45	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 04:45	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 04:45	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 04:45	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 04:45	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 04:45	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 04:45	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 04:45	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 04:45	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 04:45	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 04:45	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 04:45	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 04:45	1
Trichloroethene	ND		0.50	0.15	ug/L			05/25/22 04:45	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 04:45	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 04:45	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		05/25/22 04:45	1
4-Bromofluorobenzene (Surr)	96		76 - 120		05/25/22 04:45	1
Dibromofluoromethane	102		80 - 120		05/25/22 04:45	1
Toluene-d8 (Surr)	102		80 - 120		05/25/22 04:45	1

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LAX-01
Date Collected: 05/12/22 09:30
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 05:14	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 05:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 05:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 05:14	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 05:14	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 05:14	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			05/25/22 05:14	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 05:14	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 05:14	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 05:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 05:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 05:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 05:14	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 05:14	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 05:14	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 05:14	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 05:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 05:14	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 05:14	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 05:14	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 05:14	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 05:14	1
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 05:14	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 05:14	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 05:14	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 05:14	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 05:14	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 05:14	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 05:14	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 05:14	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 05:14	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 05:14	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 05:14	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 05:14	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 05:14	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/25/22 05:14	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 05:14	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 05:14	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 05:14	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 05:14	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 05:14	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 05:14	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 05:14	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 05:14	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 05:14	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 05:14	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 05:14	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 05:14	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 05:14	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-01
Date Collected: 05/12/22 09:30
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 05:14	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 05:14	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 05:14	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 05:14	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 05:14	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 05:14	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 05:14	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 05:14	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 05:14	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 05:14	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 05:14	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 05:14	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 05:14	1
Trichloroethene	ND		0.50	0.15	ug/L			05/25/22 05:14	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 05:14	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 05:14	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		05/25/22 05:14	1
4-Bromofluorobenzene (Surr)	97		76 - 120		05/25/22 05:14	1
Dibromofluoromethane	103		80 - 120		05/25/22 05:14	1
Toluene-d8 (Surr)	108		80 - 120		05/25/22 05:14	1

Client Sample ID: UAX-03
Date Collected: 05/12/22 09:55
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 05:43	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 05:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 05:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 05:43	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 05:43	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 05:43	1
1,1-Dichloroethene	0.69		0.50	0.21	ug/L			05/25/22 05:43	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 05:43	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 05:43	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 05:43	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 05:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 05:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 05:43	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 05:43	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 05:43	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 05:43	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 05:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 05:43	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 05:43	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 05:43	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 05:43	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 05:43	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-03
Date Collected: 05/12/22 09:55
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 05:43	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 05:43	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 05:43	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 05:43	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 05:43	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 05:43	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 05:43	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 05:43	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 05:43	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 05:43	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 05:43	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 05:43	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 05:43	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			05/25/22 05:43	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 05:43	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 05:43	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 05:43	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 05:43	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 05:43	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 05:43	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 05:43	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 05:43	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 05:43	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 05:43	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 05:43	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 05:43	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 05:43	1
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 05:43	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 05:43	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 05:43	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 05:43	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 05:43	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 05:43	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 05:43	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 05:43	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 05:43	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 05:43	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 05:43	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 05:43	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 05:43	1
Trichloroethene	8.4		0.50	0.15	ug/L			05/25/22 05:43	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 05:43	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 05:43	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		05/25/22 05:43	1
4-Bromofluorobenzene (Surr)	95		76 - 120		05/25/22 05:43	1
Dibromofluoromethane	99		80 - 120		05/25/22 05:43	1
Toluene-d8 (Surr)	100		80 - 120		05/25/22 05:43	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-04
Date Collected: 05/12/22 10:10
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.80	ug/L			05/25/22 06:11	4
1,1,1-Trichloroethane	ND		2.0	0.79	ug/L			05/25/22 06:11	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/L			05/25/22 06:11	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	1.0	ug/L			05/25/22 06:11	4
1,1,2-Trichloroethane	ND		2.0	0.72	ug/L			05/25/22 06:11	4
1,1-Dichloroethane	ND		2.0	0.85	ug/L			05/25/22 06:11	4
1,1-Dichloroethene	1.3	J	2.0	0.84	ug/L			05/25/22 06:11	4
1,1-Dichloropropene	ND		2.0	0.65	ug/L			05/25/22 06:11	4
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/L			05/25/22 06:11	4
1,2,3-Trichloropropane	ND		2.0	1.2	ug/L			05/25/22 06:11	4
1,2,4-Trichlorobenzene	ND		2.0	1.0	ug/L			05/25/22 06:11	4
1,2,4-Trimethylbenzene	ND		2.0	0.90	ug/L			05/25/22 06:11	4
1,2-Dibromo-3-Chloropropane	ND		4.0	3.4	ug/L			05/25/22 06:11	4
1,2-Dibromoethane	ND		2.0	1.1	ug/L			05/25/22 06:11	4
1,2-Dichlorobenzene	ND		2.0	0.57	ug/L			05/25/22 06:11	4
1,2-Dichloroethane	ND		2.0	0.55	ug/L			05/25/22 06:11	4
1,2-Dichloropropane	ND		2.0	0.58	ug/L			05/25/22 06:11	4
1,3,5-Trimethylbenzene	ND		2.0	0.74	ug/L			05/25/22 06:11	4
1,3-Dichlorobenzene	ND		2.0	0.63	ug/L			05/25/22 06:11	4
1,3-Dichloropropane	ND		2.0	0.77	ug/L			05/25/22 06:11	4
1,4-Dichlorobenzene	ND		2.0	0.45	ug/L			05/25/22 06:11	4
2,2-Dichloropropane	ND		2.0	1.0	ug/L			05/25/22 06:11	4
2-Butanone	ND		20	11	ug/L			05/25/22 06:11	4
2-Chlorotoluene	ND		2.0	0.92	ug/L			05/25/22 06:11	4
2-Hexanone	ND		24	8.2	ug/L			05/25/22 06:11	4
4-Chlorotoluene	ND		2.0	0.96	ug/L			05/25/22 06:11	4
4-Methyl-2-pentanone	ND		20	6.5	ug/L			05/25/22 06:11	4
Acetone	ND		32	14	ug/L			05/25/22 06:11	4
Benzene	ND		2.0	0.55	ug/L			05/25/22 06:11	4
Bromobenzene	ND		2.0	0.56	ug/L			05/25/22 06:11	4
Bromochloromethane	ND		4.0	1.1	ug/L			05/25/22 06:11	4
Bromodichloromethane	ND		2.0	0.61	ug/L			05/25/22 06:11	4
Bromoform	ND		2.0	1.1	ug/L			05/25/22 06:11	4
Bromomethane	ND		8.0	7.5	ug/L			05/25/22 06:11	4
cis-1,2-Dichloroethene	ND		2.0	0.62	ug/L			05/25/22 06:11	4
cis-1,3-Dichloropropane	ND		2.0	0.62	ug/L			05/25/22 06:11	4
Carbon disulfide	ND		4.0	1.3	ug/L			05/25/22 06:11	4
Carbon tetrachloride	ND		2.0	1.1	ug/L			05/25/22 06:11	4
Chlorobenzene	ND		2.0	0.47	ug/L			05/25/22 06:11	4
Chloroethane	ND		2.0	1.5	ug/L			05/25/22 06:11	4
Chloroform	ND		2.0	0.68	ug/L			05/25/22 06:11	4
Chloromethane	ND		4.0	2.6	ug/L			05/25/22 06:11	4
Dibromochloromethane	ND		2.0	0.84	ug/L			05/25/22 06:11	4
Dibromomethane	ND		2.0	0.65	ug/L			05/25/22 06:11	4
Dichlorodifluoromethane	ND		4.0	2.0	ug/L			05/25/22 06:11	4
Ethylbenzene	ND		2.0	0.66	ug/L			05/25/22 06:11	4
Isopropylbenzene	ND		2.0	0.85	ug/L			05/25/22 06:11	4
Methylene Chloride	ND		4.0	1.6	ug/L			05/25/22 06:11	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.57	ug/L			05/25/22 06:11	4

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-04
Date Collected: 05/12/22 10:10
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.0	2.2	ug/L			05/25/22 06:11	4
n-Butylbenzene	ND		2.0	0.97	ug/L			05/25/22 06:11	4
N-Propylbenzene	ND		2.0	0.70	ug/L			05/25/22 06:11	4
o-Xylene	ND		2.0	0.72	ug/L			05/25/22 06:11	4
m,p-Xylene	ND		4.0	1.6	ug/L			05/25/22 06:11	4
p-Isopropyltoluene	ND		2.0	0.80	ug/L			05/25/22 06:11	4
sec-Butylbenzene	ND		2.0	0.78	ug/L			05/25/22 06:11	4
Styrene	ND		2.0	1.1	ug/L			05/25/22 06:11	4
trans-1,2-Dichloroethene	ND		2.0	0.88	ug/L			05/25/22 06:11	4
trans-1,3-Dichloropropene	ND		2.0	0.85	ug/L			05/25/22 06:11	4
tert-Butylbenzene	ND		2.0	0.83	ug/L			05/25/22 06:11	4
Tetrachloroethene	0.91	J	2.0	0.62	ug/L			05/25/22 06:11	4
Toluene	ND		2.0	0.57	ug/L			05/25/22 06:11	4
Trichloroethene	72		2.0	0.61	ug/L			05/25/22 06:11	4
Trichlorofluoromethane	ND		2.0	1.0	ug/L			05/25/22 06:11	4
Vinyl acetate	ND		20	13	ug/L			05/25/22 06:11	4
Vinyl chloride	ND		2.0	0.90	ug/L			05/25/22 06:11	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 132		05/25/22 06:11	4
4-Bromofluorobenzene (Surr)	95		76 - 120		05/25/22 06:11	4
Dibromofluoromethane	99		80 - 120		05/25/22 06:11	4
Toluene-d8 (Surr)	102		80 - 120		05/25/22 06:11	4

Client Sample ID: HEW-02
Date Collected: 05/12/22 11:20
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/L			05/25/22 06:41	2
1,1,1-Trichloroethane	ND		1.0	0.40	ug/L			05/25/22 06:41	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.27	ug/L			05/25/22 06:41	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			05/25/22 06:41	2
1,1,2-Trichloroethane	ND		1.0	0.36	ug/L			05/25/22 06:41	2
1,1-Dichloroethane	ND		1.0	0.42	ug/L			05/25/22 06:41	2
1,1-Dichloroethene	ND		1.0	0.42	ug/L			05/25/22 06:41	2
1,1-Dichloropropene	ND		1.0	0.32	ug/L			05/25/22 06:41	2
1,2,3-Trichlorobenzene	ND		1.0	0.52	ug/L			05/25/22 06:41	2
1,2,3-Trichloropropane	ND		1.0	0.62	ug/L			05/25/22 06:41	2
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L			05/25/22 06:41	2
1,2,4-Trimethylbenzene	ND		1.0	0.45	ug/L			05/25/22 06:41	2
1,2-Dibromo-3-Chloropropane	ND		2.0	1.7	ug/L			05/25/22 06:41	2
1,2-Dibromoethane	ND		1.0	0.53	ug/L			05/25/22 06:41	2
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			05/25/22 06:41	2
1,2-Dichloroethane	ND		1.0	0.27	ug/L			05/25/22 06:41	2
1,2-Dichloropropane	ND		1.0	0.29	ug/L			05/25/22 06:41	2
1,3,5-Trimethylbenzene	ND		1.0	0.37	ug/L			05/25/22 06:41	2
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			05/25/22 06:41	2
1,3-Dichloropropane	ND		1.0	0.38	ug/L			05/25/22 06:41	2
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			05/25/22 06:41	2
2,2-Dichloropropane	ND		1.0	0.51	ug/L			05/25/22 06:41	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-02
Date Collected: 05/12/22 11:20
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	5.7	ug/L			05/25/22 06:41	2
2-Chlorotoluene	ND		1.0	0.46	ug/L			05/25/22 06:41	2
2-Hexanone	ND		12	4.1	ug/L			05/25/22 06:41	2
4-Chlorotoluene	ND		1.0	0.48	ug/L			05/25/22 06:41	2
4-Methyl-2-pentanone	ND		10	3.3	ug/L			05/25/22 06:41	2
Acetone	ND		16	7.1	ug/L			05/25/22 06:41	2
Benzene	ND		1.0	0.28	ug/L			05/25/22 06:41	2
Bromobenzene	ND		1.0	0.28	ug/L			05/25/22 06:41	2
Bromochloromethane	ND		2.0	0.55	ug/L			05/25/22 06:41	2
Bromodichloromethane	ND		1.0	0.31	ug/L			05/25/22 06:41	2
Bromoform	ND		1.0	0.57	ug/L			05/25/22 06:41	2
Bromomethane	ND		4.0	3.7	ug/L			05/25/22 06:41	2
cis-1,2-Dichloroethene	ND		1.0	0.31	ug/L			05/25/22 06:41	2
cis-1,3-Dichloropropene	ND		1.0	0.31	ug/L			05/25/22 06:41	2
Carbon disulfide	ND		2.0	0.65	ug/L			05/25/22 06:41	2
Carbon tetrachloride	ND		1.0	0.54	ug/L			05/25/22 06:41	2
Chlorobenzene	ND		1.0	0.24	ug/L			05/25/22 06:41	2
Chloroethane	ND		1.0	0.75	ug/L			05/25/22 06:41	2
Chloroform	ND		1.0	0.34	ug/L			05/25/22 06:41	2
Chloromethane	ND		2.0	1.3	ug/L			05/25/22 06:41	2
Dibromochloromethane	ND		1.0	0.42	ug/L			05/25/22 06:41	2
Dibromomethane	ND		1.0	0.32	ug/L			05/25/22 06:41	2
Dichlorodifluoromethane	ND		2.0	1.0	ug/L			05/25/22 06:41	2
Ethylbenzene	ND		1.0	0.33	ug/L			05/25/22 06:41	2
Isopropylbenzene	ND		1.0	0.42	ug/L			05/25/22 06:41	2
Methylene Chloride	ND		2.0	0.81	ug/L			05/25/22 06:41	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.28	ug/L			05/25/22 06:41	2
Naphthalene	ND		2.0	1.1	ug/L			05/25/22 06:41	2
n-Butylbenzene	ND		1.0	0.48	ug/L			05/25/22 06:41	2
N-Propylbenzene	ND		1.0	0.35	ug/L			05/25/22 06:41	2
o-Xylene	ND		1.0	0.36	ug/L			05/25/22 06:41	2
m,p-Xylene	ND		2.0	0.79	ug/L			05/25/22 06:41	2
p-Isopropyltoluene	ND		1.0	0.40	ug/L			05/25/22 06:41	2
sec-Butylbenzene	ND		1.0	0.39	ug/L			05/25/22 06:41	2
Styrene	ND		1.0	0.55	ug/L			05/25/22 06:41	2
trans-1,2-Dichloroethene	ND		1.0	0.44	ug/L			05/25/22 06:41	2
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			05/25/22 06:41	2
tert-Butylbenzene	ND		1.0	0.41	ug/L			05/25/22 06:41	2
Tetrachloroethene	ND		1.0	0.31	ug/L			05/25/22 06:41	2
Toluene	ND		1.0	0.28	ug/L			05/25/22 06:41	2
Trichloroethene	94		1.0	0.31	ug/L			05/25/22 06:41	2
Trichlorofluoromethane	ND		1.0	0.52	ug/L			05/25/22 06:41	2
Vinyl acetate	ND		10	6.4	ug/L			05/25/22 06:41	2
Vinyl chloride	ND		1.0	0.45	ug/L			05/25/22 06:41	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 132		05/25/22 06:41	2
4-Bromofluorobenzene (Surr)	106		76 - 120		05/25/22 06:41	2
Dibromofluoromethane	106		80 - 120		05/25/22 06:41	2
Toluene-d8 (Surr)	106		80 - 120		05/25/22 06:41	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-05
Date Collected: 05/12/22 11:40
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/L			05/25/22 07:09	2
1,1,1-Trichloroethane	ND		1.0	0.40	ug/L			05/25/22 07:09	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.27	ug/L			05/25/22 07:09	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			05/25/22 07:09	2
1,1,2-Trichloroethane	ND		1.0	0.36	ug/L			05/25/22 07:09	2
1,1-Dichloroethane	ND		1.0	0.42	ug/L			05/25/22 07:09	2
1,1-Dichloroethene	ND		1.0	0.42	ug/L			05/25/22 07:09	2
1,1-Dichloropropene	ND		1.0	0.32	ug/L			05/25/22 07:09	2
1,2,3-Trichlorobenzene	ND		1.0	0.52	ug/L			05/25/22 07:09	2
1,2,3-Trichloropropane	ND		1.0	0.62	ug/L			05/25/22 07:09	2
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L			05/25/22 07:09	2
1,2,4-Trimethylbenzene	ND		1.0	0.45	ug/L			05/25/22 07:09	2
1,2-Dibromo-3-Chloropropane	ND		2.0	1.7	ug/L			05/25/22 07:09	2
1,2-Dibromoethane	ND		1.0	0.53	ug/L			05/25/22 07:09	2
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			05/25/22 07:09	2
1,2-Dichloroethane	ND		1.0	0.27	ug/L			05/25/22 07:09	2
1,2-Dichloropropane	ND		1.0	0.29	ug/L			05/25/22 07:09	2
1,3,5-Trimethylbenzene	ND		1.0	0.37	ug/L			05/25/22 07:09	2
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			05/25/22 07:09	2
1,3-Dichloropropane	ND		1.0	0.38	ug/L			05/25/22 07:09	2
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			05/25/22 07:09	2
2,2-Dichloropropane	ND		1.0	0.51	ug/L			05/25/22 07:09	2
2-Butanone	ND		10	5.7	ug/L			05/25/22 07:09	2
2-Chlorotoluene	ND		1.0	0.46	ug/L			05/25/22 07:09	2
2-Hexanone	ND		12	4.1	ug/L			05/25/22 07:09	2
4-Chlorotoluene	ND		1.0	0.48	ug/L			05/25/22 07:09	2
4-Methyl-2-pentanone	ND		10	3.3	ug/L			05/25/22 07:09	2
Acetone	ND		16	7.1	ug/L			05/25/22 07:09	2
Benzene	ND		1.0	0.28	ug/L			05/25/22 07:09	2
Bromobenzene	ND		1.0	0.28	ug/L			05/25/22 07:09	2
Bromochloromethane	ND		2.0	0.55	ug/L			05/25/22 07:09	2
Bromodichloromethane	ND		1.0	0.31	ug/L			05/25/22 07:09	2
Bromoform	ND		1.0	0.57	ug/L			05/25/22 07:09	2
Bromomethane	ND		4.0	3.7	ug/L			05/25/22 07:09	2
cis-1,2-Dichloroethene	2.5		1.0	0.31	ug/L			05/25/22 07:09	2
cis-1,3-Dichloropropene	ND		1.0	0.31	ug/L			05/25/22 07:09	2
Carbon disulfide	ND		2.0	0.65	ug/L			05/25/22 07:09	2
Carbon tetrachloride	ND		1.0	0.54	ug/L			05/25/22 07:09	2
Chlorobenzene	ND		1.0	0.24	ug/L			05/25/22 07:09	2
Chloroethane	ND		1.0	0.75	ug/L			05/25/22 07:09	2
Chloroform	ND		1.0	0.34	ug/L			05/25/22 07:09	2
Chloromethane	ND		2.0	1.3	ug/L			05/25/22 07:09	2
Dibromochloromethane	ND		1.0	0.42	ug/L			05/25/22 07:09	2
Dibromomethane	ND		1.0	0.32	ug/L			05/25/22 07:09	2
Dichlorodifluoromethane	ND		2.0	1.0	ug/L			05/25/22 07:09	2
Ethylbenzene	ND		1.0	0.33	ug/L			05/25/22 07:09	2
Isopropylbenzene	ND		1.0	0.42	ug/L			05/25/22 07:09	2
Methylene Chloride	ND		2.0	0.81	ug/L			05/25/22 07:09	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.28	ug/L			05/25/22 07:09	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-05
Date Collected: 05/12/22 11:40
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	1.1	ug/L			05/25/22 07:09	2
n-Butylbenzene	ND		1.0	0.48	ug/L			05/25/22 07:09	2
N-Propylbenzene	ND		1.0	0.35	ug/L			05/25/22 07:09	2
o-Xylene	ND		1.0	0.36	ug/L			05/25/22 07:09	2
m,p-Xylene	ND		2.0	0.79	ug/L			05/25/22 07:09	2
p-Isopropyltoluene	ND		1.0	0.40	ug/L			05/25/22 07:09	2
sec-Butylbenzene	ND		1.0	0.39	ug/L			05/25/22 07:09	2
Styrene	ND		1.0	0.55	ug/L			05/25/22 07:09	2
trans-1,2-Dichloroethene	ND		1.0	0.44	ug/L			05/25/22 07:09	2
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			05/25/22 07:09	2
tert-Butylbenzene	ND		1.0	0.41	ug/L			05/25/22 07:09	2
Tetrachloroethene	ND		1.0	0.31	ug/L			05/25/22 07:09	2
Toluene	ND		1.0	0.28	ug/L			05/25/22 07:09	2
Trichloroethene	110		1.0	0.31	ug/L			05/25/22 07:09	2
Trichlorofluoromethane	ND		1.0	0.52	ug/L			05/25/22 07:09	2
Vinyl acetate	ND		10	6.4	ug/L			05/25/22 07:09	2
Vinyl chloride	ND		1.0	0.45	ug/L			05/25/22 07:09	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		05/25/22 07:09	2
4-Bromofluorobenzene (Surr)	94		76 - 120		05/25/22 07:09	2
Dibromofluoromethane	101		80 - 120		05/25/22 07:09	2
Toluene-d8 (Surr)	102		80 - 120		05/25/22 07:09	2

Client Sample ID: HEW-01
Date Collected: 05/12/22 11:50
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	2.0	ug/L			05/25/22 07:38	10
1,1,1-Trichloroethane	ND		5.0	2.0	ug/L			05/25/22 07:38	10
1,1,2,2-Tetrachloroethane	ND		5.0	1.4	ug/L			05/25/22 07:38	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.5	ug/L			05/25/22 07:38	10
1,1,2-Trichloroethane	ND		5.0	1.8	ug/L			05/25/22 07:38	10
1,1-Dichloroethane	ND		5.0	2.1	ug/L			05/25/22 07:38	10
1,1-Dichloroethene	ND		5.0	2.1	ug/L			05/25/22 07:38	10
1,1-Dichloropropene	ND		5.0	1.6	ug/L			05/25/22 07:38	10
1,2,3-Trichlorobenzene	ND		5.0	2.6	ug/L			05/25/22 07:38	10
1,2,3-Trichloropropane	ND		5.0	3.1	ug/L			05/25/22 07:38	10
1,2,4-Trichlorobenzene	ND		5.0	2.6	ug/L			05/25/22 07:38	10
1,2,4-Trimethylbenzene	ND		5.0	2.2	ug/L			05/25/22 07:38	10
1,2-Dibromo-3-Chloropropane	ND		10	8.4	ug/L			05/25/22 07:38	10
1,2-Dibromoethane	ND		5.0	2.7	ug/L			05/25/22 07:38	10
1,2-Dichlorobenzene	ND		5.0	1.4	ug/L			05/25/22 07:38	10
1,2-Dichloroethane	ND		5.0	1.4	ug/L			05/25/22 07:38	10
1,2-Dichloropropane	ND		5.0	1.4	ug/L			05/25/22 07:38	10
1,3,5-Trimethylbenzene	ND		5.0	1.9	ug/L			05/25/22 07:38	10
1,3-Dichlorobenzene	ND		5.0	1.6	ug/L			05/25/22 07:38	10
1,3-Dichloropropane	ND		5.0	1.9	ug/L			05/25/22 07:38	10
1,4-Dichlorobenzene	ND		5.0	1.1	ug/L			05/25/22 07:38	10
2,2-Dichloropropane	ND		5.0	2.6	ug/L			05/25/22 07:38	10

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-01
Date Collected: 05/12/22 11:50
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		50	29	ug/L			05/25/22 07:38	10
2-Chlorotoluene	ND		5.0	2.3	ug/L			05/25/22 07:38	10
2-Hexanone	ND		60	20	ug/L			05/25/22 07:38	10
4-Chlorotoluene	ND		5.0	2.4	ug/L			05/25/22 07:38	10
4-Methyl-2-pentanone	ND		50	16	ug/L			05/25/22 07:38	10
Acetone	ND		80	36	ug/L			05/25/22 07:38	10
Benzene	ND		5.0	1.4	ug/L			05/25/22 07:38	10
Bromobenzene	ND		5.0	1.4	ug/L			05/25/22 07:38	10
Bromochloromethane	ND		10	2.7	ug/L			05/25/22 07:38	10
Bromodichloromethane	ND		5.0	1.5	ug/L			05/25/22 07:38	10
Bromoform	ND		5.0	2.8	ug/L			05/25/22 07:38	10
Bromomethane	ND		20	19	ug/L			05/25/22 07:38	10
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/L			05/25/22 07:38	10
cis-1,3-Dichloropropene	ND		5.0	1.5	ug/L			05/25/22 07:38	10
Carbon disulfide	ND		10	3.2	ug/L			05/25/22 07:38	10
Carbon tetrachloride	ND		5.0	2.7	ug/L			05/25/22 07:38	10
Chlorobenzene	ND		5.0	1.2	ug/L			05/25/22 07:38	10
Chloroethane	ND		5.0	3.8	ug/L			05/25/22 07:38	10
Chloroform	ND		5.0	1.7	ug/L			05/25/22 07:38	10
Chloromethane	ND		10	6.5	ug/L			05/25/22 07:38	10
Dibromochloromethane	ND		5.0	2.1	ug/L			05/25/22 07:38	10
Dibromomethane	ND		5.0	1.6	ug/L			05/25/22 07:38	10
Dichlorodifluoromethane	ND		10	5.1	ug/L			05/25/22 07:38	10
Ethylbenzene	ND		5.0	1.6	ug/L			05/25/22 07:38	10
Isopropylbenzene	ND		5.0	2.1	ug/L			05/25/22 07:38	10
Methylene Chloride	ND		10	4.0	ug/L			05/25/22 07:38	10
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.4	ug/L			05/25/22 07:38	10
Naphthalene	ND		10	5.5	ug/L			05/25/22 07:38	10
n-Butylbenzene	ND		5.0	2.4	ug/L			05/25/22 07:38	10
N-Propylbenzene	ND		5.0	1.8	ug/L			05/25/22 07:38	10
o-Xylene	ND		5.0	1.8	ug/L			05/25/22 07:38	10
m,p-Xylene	ND		10	3.9	ug/L			05/25/22 07:38	10
p-Isopropyltoluene	ND		5.0	2.0	ug/L			05/25/22 07:38	10
sec-Butylbenzene	ND		5.0	2.0	ug/L			05/25/22 07:38	10
Styrene	ND		5.0	2.7	ug/L			05/25/22 07:38	10
trans-1,2-Dichloroethene	ND		5.0	2.2	ug/L			05/25/22 07:38	10
trans-1,3-Dichloropropene	ND		5.0	2.1	ug/L			05/25/22 07:38	10
tert-Butylbenzene	ND		5.0	2.1	ug/L			05/25/22 07:38	10
Tetrachloroethene	6.8		5.0	1.6	ug/L			05/25/22 07:38	10
Toluene	ND		5.0	1.4	ug/L			05/25/22 07:38	10
Trichloroethene	550		5.0	1.5	ug/L			05/25/22 07:38	10
Trichlorofluoromethane	ND		5.0	2.6	ug/L			05/25/22 07:38	10
Vinyl acetate	ND		50	32	ug/L			05/25/22 07:38	10
Vinyl chloride	ND		5.0	2.3	ug/L			05/25/22 07:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 132		05/25/22 07:38	10
4-Bromofluorobenzene (Surr)	100		76 - 120		05/25/22 07:38	10
Dibromofluoromethane	104		80 - 120		05/25/22 07:38	10
Toluene-d8 (Surr)	105		80 - 120		05/25/22 07:38	10

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-03
Date Collected: 05/12/22 12:00
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.80	ug/L			05/25/22 08:07	4
1,1,1-Trichloroethane	ND		2.0	0.79	ug/L			05/25/22 08:07	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/L			05/25/22 08:07	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	1.0	ug/L			05/25/22 08:07	4
1,1,2-Trichloroethane	ND		2.0	0.72	ug/L			05/25/22 08:07	4
1,1-Dichloroethane	ND		2.0	0.85	ug/L			05/25/22 08:07	4
1,1-Dichloroethene	ND		2.0	0.84	ug/L			05/25/22 08:07	4
1,1-Dichloropropene	ND		2.0	0.65	ug/L			05/25/22 08:07	4
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/L			05/25/22 08:07	4
1,2,3-Trichloropropane	ND		2.0	1.2	ug/L			05/25/22 08:07	4
1,2,4-Trichlorobenzene	ND		2.0	1.0	ug/L			05/25/22 08:07	4
1,2,4-Trimethylbenzene	ND		2.0	0.90	ug/L			05/25/22 08:07	4
1,2-Dibromo-3-Chloropropane	ND		4.0	3.4	ug/L			05/25/22 08:07	4
1,2-Dibromoethane	ND		2.0	1.1	ug/L			05/25/22 08:07	4
1,2-Dichlorobenzene	ND		2.0	0.57	ug/L			05/25/22 08:07	4
1,2-Dichloroethane	ND		2.0	0.55	ug/L			05/25/22 08:07	4
1,2-Dichloropropane	ND		2.0	0.58	ug/L			05/25/22 08:07	4
1,3,5-Trimethylbenzene	ND		2.0	0.74	ug/L			05/25/22 08:07	4
1,3-Dichlorobenzene	ND		2.0	0.63	ug/L			05/25/22 08:07	4
1,3-Dichloropropane	ND		2.0	0.77	ug/L			05/25/22 08:07	4
1,4-Dichlorobenzene	ND		2.0	0.45	ug/L			05/25/22 08:07	4
2,2-Dichloropropane	ND		2.0	1.0	ug/L			05/25/22 08:07	4
2-Butanone	ND		20	11	ug/L			05/25/22 08:07	4
2-Chlorotoluene	ND		2.0	0.92	ug/L			05/25/22 08:07	4
2-Hexanone	ND		24	8.2	ug/L			05/25/22 08:07	4
4-Chlorotoluene	ND		2.0	0.96	ug/L			05/25/22 08:07	4
4-Methyl-2-pentanone	ND		20	6.5	ug/L			05/25/22 08:07	4
Acetone	ND		32	14	ug/L			05/25/22 08:07	4
Benzene	ND		2.0	0.55	ug/L			05/25/22 08:07	4
Bromobenzene	ND		2.0	0.56	ug/L			05/25/22 08:07	4
Bromochloromethane	ND		4.0	1.1	ug/L			05/25/22 08:07	4
Bromodichloromethane	ND		2.0	0.61	ug/L			05/25/22 08:07	4
Bromoform	ND		2.0	1.1	ug/L			05/25/22 08:07	4
Bromomethane	ND		8.0	7.5	ug/L			05/25/22 08:07	4
cis-1,2-Dichloroethene	ND		2.0	0.62	ug/L			05/25/22 08:07	4
cis-1,3-Dichloropropane	ND		2.0	0.62	ug/L			05/25/22 08:07	4
Carbon disulfide	ND		4.0	1.3	ug/L			05/25/22 08:07	4
Carbon tetrachloride	ND		2.0	1.1	ug/L			05/25/22 08:07	4
Chlorobenzene	ND		2.0	0.47	ug/L			05/25/22 08:07	4
Chloroethane	ND		2.0	1.5	ug/L			05/25/22 08:07	4
Chloroform	ND		2.0	0.68	ug/L			05/25/22 08:07	4
Chloromethane	ND		4.0	2.6	ug/L			05/25/22 08:07	4
Dibromochloromethane	ND		2.0	0.84	ug/L			05/25/22 08:07	4
Dibromomethane	ND		2.0	0.65	ug/L			05/25/22 08:07	4
Dichlorodifluoromethane	ND		4.0	2.0	ug/L			05/25/22 08:07	4
Ethylbenzene	ND		2.0	0.66	ug/L			05/25/22 08:07	4
Isopropylbenzene	ND		2.0	0.85	ug/L			05/25/22 08:07	4
Methylene Chloride	ND		4.0	1.6	ug/L			05/25/22 08:07	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.57	ug/L			05/25/22 08:07	4

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-03
Date Collected: 05/12/22 12:00
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.0	2.2	ug/L			05/25/22 08:07	4
n-Butylbenzene	ND		2.0	0.97	ug/L			05/25/22 08:07	4
N-Propylbenzene	ND		2.0	0.70	ug/L			05/25/22 08:07	4
o-Xylene	ND		2.0	0.72	ug/L			05/25/22 08:07	4
m,p-Xylene	ND		4.0	1.6	ug/L			05/25/22 08:07	4
p-Isopropyltoluene	ND		2.0	0.80	ug/L			05/25/22 08:07	4
sec-Butylbenzene	ND		2.0	0.78	ug/L			05/25/22 08:07	4
Styrene	ND		2.0	1.1	ug/L			05/25/22 08:07	4
trans-1,2-Dichloroethene	ND		2.0	0.88	ug/L			05/25/22 08:07	4
trans-1,3-Dichloropropene	ND		2.0	0.85	ug/L			05/25/22 08:07	4
tert-Butylbenzene	ND		2.0	0.83	ug/L			05/25/22 08:07	4
Tetrachloroethene	1.8	J	2.0	0.62	ug/L			05/25/22 08:07	4
Toluene	ND		2.0	0.57	ug/L			05/25/22 08:07	4
Trichloroethene	93		2.0	0.61	ug/L			05/25/22 08:07	4
Trichlorofluoromethane	ND		2.0	1.0	ug/L			05/25/22 08:07	4
Vinyl acetate	ND		20	13	ug/L			05/25/22 08:07	4
Vinyl chloride	ND		2.0	0.90	ug/L			05/25/22 08:07	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 132		05/25/22 08:07	4
4-Bromofluorobenzene (Surr)	92		76 - 120		05/25/22 08:07	4
Dibromofluoromethane	102		80 - 120		05/25/22 08:07	4
Toluene-d8 (Surr)	109		80 - 120		05/25/22 08:07	4

Client Sample ID: UAX-01
Date Collected: 05/12/22 12:30
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 08:36	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 08:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 08:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 08:36	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 08:36	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 08:36	1
1,1-Dichloroethene	1.7	F2 F1	0.50	0.21	ug/L			05/25/22 08:36	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 08:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 08:36	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 08:36	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 08:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 08:36	1
1,2-Dibromo-3-Chloropropane	ND	F1	1.0	0.84	ug/L			05/25/22 08:36	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 08:36	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 08:36	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 08:36	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 08:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 08:36	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 08:36	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 08:36	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 08:36	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 08:36	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-01
Date Collected: 05/12/22 12:30
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 08:36	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 08:36	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 08:36	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 08:36	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 08:36	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 08:36	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 08:36	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 08:36	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 08:36	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 08:36	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 08:36	1
Bromomethane	ND	F1	2.0	1.9	ug/L			05/25/22 08:36	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 08:36	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			05/25/22 08:36	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 08:36	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 08:36	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 08:36	1
Chloroethane	ND	F1	0.50	0.38	ug/L			05/25/22 08:36	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 08:36	1
Chloromethane	ND	F1	1.0	0.65	ug/L			05/25/22 08:36	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 08:36	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 08:36	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 08:36	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 08:36	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 08:36	1
Methylene Chloride	ND	F1 F2	1.0	0.40	ug/L			05/25/22 08:36	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 08:36	1
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 08:36	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 08:36	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 08:36	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 08:36	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 08:36	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 08:36	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 08:36	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 08:36	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 08:36	1
trans-1,3-Dichloropropene	ND	F2	0.50	0.21	ug/L			05/25/22 08:36	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 08:36	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 08:36	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 08:36	1
Trichloroethene	1.9		0.50	0.15	ug/L			05/25/22 08:36	1
Trichlorofluoromethane	ND	F1	0.50	0.26	ug/L			05/25/22 08:36	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 08:36	1
Vinyl chloride	ND	F1	0.50	0.23	ug/L			05/25/22 08:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 132		05/25/22 08:36	1
4-Bromofluorobenzene (Surr)	98		76 - 120		05/25/22 08:36	1
Dibromofluoromethane	99		80 - 120		05/25/22 08:36	1
Toluene-d8 (Surr)	97		80 - 120		05/25/22 08:36	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8270C SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: LAX-03
Date Collected: 05/12/22 08:05
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		05/17/22 14:11	05/19/22 05:40	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	42		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	88		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:11	05/19/22 05:40	1

Client Sample ID: UAX-02
Date Collected: 05/12/22 08:25
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		0.50	0.34	ug/L		05/17/22 14:11	05/19/22 05:55	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	32		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	100		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:11	05/19/22 05:55	1

Client Sample ID: UAX-0200
Date Collected: 05/12/22 09:00
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0		0.50	0.34	ug/L		05/17/22 14:11	05/19/22 06:09	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	35		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	78		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:11	05/19/22 06:09	1

Client Sample ID: LAX-02
Date Collected: 05/12/22 08:50
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		05/17/22 14:11	05/19/22 06:23	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	38		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	81		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:11	05/19/22 06:23	1

Client Sample ID: LAX-01
Date Collected: 05/12/22 09:30
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		05/17/22 14:11	05/19/22 06:38	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	36		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	78		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:11	05/19/22 06:38	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8270C SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: UAX-03
Date Collected: 05/12/22 09:55
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		05/17/22 14:11	05/19/22 06:52	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	36		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	74		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:11	05/19/22 06:52	1

Client Sample ID: HEW-04
Date Collected: 05/12/22 10:10
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.9		0.50	0.34	ug/L		05/17/22 14:11	05/19/22 07:07	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	37		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	77		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:11	05/19/22 07:07	1

Client Sample ID: HEW-02
Date Collected: 05/12/22 11:20
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		05/17/22 14:13	05/18/22 22:54	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	37		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	72		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:13	05/18/22 22:54	1

Client Sample ID: HEW-05
Date Collected: 05/12/22 11:40
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		05/17/22 14:13	05/18/22 23:08	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	38		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	65		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:13	05/18/22 23:08	1

Client Sample ID: HEW-01
Date Collected: 05/12/22 11:50
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.5		0.50	0.34	ug/L		05/17/22 14:13	05/18/22 23:23	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	37		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	84		58 - 135						
							Prepared	Analyzed	Dil Fac
							05/17/22 14:13	05/18/22 23:23	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: HEW-03
Date Collected: 05/12/22 12:00
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L	-	05/17/22 14:13	05/18/22 23:37	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	41		21 - 120	Prepared	Analyzed	Dil Fac			
				05/17/22 14:13	05/18/22 23:37	1			
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	61		58 - 135	Prepared	Analyzed	Dil Fac			
				05/17/22 14:13	05/18/22 23:37	1			

Client Sample ID: UAX-01
Date Collected: 05/12/22 12:30
Date Received: 05/12/22 13:50

Lab Sample ID: 570-96070-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.99		0.50	0.34	ug/L	-	05/17/22 14:13	05/18/22 23:52	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	39		21 - 120	Prepared	Analyzed	Dil Fac			
				05/17/22 14:13	05/18/22 23:52	1			
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	75		58 - 135	Prepared	Analyzed	Dil Fac			
				05/17/22 14:13	05/18/22 23:52	1			

Surrogate Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-132)	BFB (76-120)	DBFM (80-120)	TOL (80-120)
570-96070-1	TB-051222	99	96	100	103
570-96070-2	LAX-03	106	93	103	102
570-96070-3	UAX-02	98	97	100	102
570-96070-4	UAX-0200	100	91	100	105
570-96070-5	LAX-02	102	104	102	99
570-96070-6	RB-051222	97	96	102	102
570-96070-7	LAX-01	107	97	103	108
570-96070-8	UAX-03	106	95	99	100
570-96070-9	HEW-04	104	95	99	102
570-96070-10	HEW-02	111	106	106	106
570-96070-11	HEW-05	107	94	101	102
570-96070-12	HEW-01	103	100	104	105
570-96070-13	HEW-03	105	92	102	109
570-96070-14	UAX-01	108	98	99	97
570-96070-14 MS	UAX-01	104	96	101	97
570-96070-14 MSD	UAX-01	107	94	101	112
LCS 570-236670/6	Lab Control Sample	102	99	100	97
LCS 570-236670/7	Lab Control Sample Dup	100	101	98	101
MB 570-236670/9	Method Blank	101	95	100	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ
		(58-135)
570-96048-C-4-A MS	Matrix Spike	99
570-96048-C-4-B MSD	Matrix Spike Duplicate	110
570-96070-2	LAX-03	88
570-96070-3	UAX-02	100
570-96070-4	UAX-0200	78
570-96070-5	LAX-02	81
570-96070-7	LAX-01	78
570-96070-8	UAX-03	74
570-96070-9	HEW-04	77
570-96070-10	HEW-02	72
570-96070-11	HEW-05	65
570-96070-12	HEW-01	84
570-96070-13	HEW-03	61
570-96070-14	UAX-01	75
570-96070-14 MS	UAX-01	92
570-96070-14 MSD	UAX-01	98
LCS 570-234802/2-A	Lab Control Sample	111
LCS 570-234802/3-A	Lab Control Sample Dup	109

Surrogate Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

(Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (58-135)
MB 570-234802/1-A	Method Blank	107

Surrogate Legend

NBZ = Nitrobenzene-d5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Isotope Dilution Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (21-120)
570-96048-C-4-A MS	Matrix Spike	39
570-96048-C-4-B MSD	Matrix Spike Duplicate	45
570-96070-2	LAX-03	42
570-96070-3	UAX-02	32
570-96070-4	UAX-0200	35
570-96070-5	LAX-02	38
570-96070-7	LAX-01	36
570-96070-8	UAX-03	36
570-96070-9	HEW-04	37
570-96070-10	HEW-02	37
570-96070-11	HEW-05	38
570-96070-12	HEW-01	37
570-96070-13	HEW-03	41
570-96070-14	UAX-01	39
570-96070-14 MS	UAX-01	32
570-96070-14 MSD	UAX-01	37
LCS 570-234802/2-A	Lab Control Sample	43
LCSD 570-234802/3-A	Lab Control Sample Dup	54
MB 570-234802/1-A	Method Blank	50

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-236670/9
Matrix: Water
Analysis Batch: 236670

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			05/25/22 00:54	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			05/25/22 00:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/25/22 00:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			05/25/22 00:54	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			05/25/22 00:54	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			05/25/22 00:54	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			05/25/22 00:54	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			05/25/22 00:54	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 00:54	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			05/25/22 00:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			05/25/22 00:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			05/25/22 00:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			05/25/22 00:54	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			05/25/22 00:54	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			05/25/22 00:54	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/25/22 00:54	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			05/25/22 00:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			05/25/22 00:54	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			05/25/22 00:54	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			05/25/22 00:54	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			05/25/22 00:54	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			05/25/22 00:54	1
2-Butanone	ND		5.0	2.9	ug/L			05/25/22 00:54	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			05/25/22 00:54	1
2-Hexanone	ND		6.0	2.0	ug/L			05/25/22 00:54	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			05/25/22 00:54	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			05/25/22 00:54	1
Acetone	ND		8.0	3.6	ug/L			05/25/22 00:54	1
Benzene	ND		0.50	0.14	ug/L			05/25/22 00:54	1
Bromobenzene	ND		0.50	0.14	ug/L			05/25/22 00:54	1
Bromochloromethane	ND		1.0	0.27	ug/L			05/25/22 00:54	1
Bromodichloromethane	ND		0.50	0.15	ug/L			05/25/22 00:54	1
Bromoform	ND		0.50	0.28	ug/L			05/25/22 00:54	1
Bromomethane	ND		2.0	1.9	ug/L			05/25/22 00:54	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			05/25/22 00:54	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/25/22 00:54	1
Carbon disulfide	ND		1.0	0.32	ug/L			05/25/22 00:54	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			05/25/22 00:54	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/25/22 00:54	1
Chloroethane	ND		0.50	0.38	ug/L			05/25/22 00:54	1
Chloroform	ND		0.50	0.17	ug/L			05/25/22 00:54	1
Chloromethane	ND		1.0	0.65	ug/L			05/25/22 00:54	1
Dibromochloromethane	ND		0.50	0.21	ug/L			05/25/22 00:54	1
Dibromomethane	ND		0.50	0.16	ug/L			05/25/22 00:54	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			05/25/22 00:54	1
Ethylbenzene	ND		0.50	0.16	ug/L			05/25/22 00:54	1
Isopropylbenzene	ND		0.50	0.21	ug/L			05/25/22 00:54	1
Methylene Chloride	ND		1.0	0.40	ug/L			05/25/22 00:54	1

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-236670/9
Matrix: Water
Analysis Batch: 236670

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			05/25/22 00:54	1
Naphthalene	ND		1.0	0.55	ug/L			05/25/22 00:54	1
n-Butylbenzene	ND		0.50	0.24	ug/L			05/25/22 00:54	1
N-Propylbenzene	ND		0.50	0.18	ug/L			05/25/22 00:54	1
o-Xylene	ND		0.50	0.18	ug/L			05/25/22 00:54	1
m,p-Xylene	ND		1.0	0.39	ug/L			05/25/22 00:54	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			05/25/22 00:54	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			05/25/22 00:54	1
Styrene	ND		0.50	0.27	ug/L			05/25/22 00:54	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			05/25/22 00:54	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			05/25/22 00:54	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			05/25/22 00:54	1
Tetrachloroethene	ND		0.50	0.16	ug/L			05/25/22 00:54	1
Toluene	ND		0.50	0.14	ug/L			05/25/22 00:54	1
Trichloroethene	ND		0.50	0.15	ug/L			05/25/22 00:54	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			05/25/22 00:54	1
Vinyl acetate	ND		5.0	3.2	ug/L			05/25/22 00:54	1
Vinyl chloride	ND		0.50	0.23	ug/L			05/25/22 00:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 132		05/25/22 00:54	1
4-Bromofluorobenzene (Surr)	95		76 - 120		05/25/22 00:54	1
Dibromofluoromethane	100		80 - 120		05/25/22 00:54	1
Toluene-d8 (Surr)	103		80 - 120		05/25/22 00:54	1

Lab Sample ID: LCS 570-236670/6
Matrix: Water
Analysis Batch: 236670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	9.553		ug/L		96	80 - 125
1,1,1-Trichloroethane	10.0	10.10		ug/L		101	75 - 121
1,1,2,2-Tetrachloroethane	10.0	9.955		ug/L		100	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.07		ug/L		111	56 - 132
1,1,2-Trichloroethane	10.0	10.40		ug/L		104	80 - 121
1,1-Dichloroethane	10.0	10.56		ug/L		106	80 - 120
1,1-Dichloroethene	10.0	11.76		ug/L		118	80 - 126
1,1-Dichloropropene	10.0	10.30		ug/L		103	72 - 122
1,2,3-Trichlorobenzene	10.0	10.01		ug/L		100	80 - 125
1,2,3-Trichloropropane	10.0	10.01		ug/L		100	75 - 127
1,2,4-Trichlorobenzene	10.0	9.975		ug/L		100	80 - 124
1,2,4-Trimethylbenzene	10.0	9.994		ug/L		100	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	9.834		ug/L		98	63 - 123
1,2-Dibromoethane	10.0	9.989		ug/L		100	80 - 125
1,2-Dichlorobenzene	10.0	9.752		ug/L		98	80 - 120
1,2-Dichloroethane	10.0	9.657		ug/L		97	76 - 130
1,2-Dichloropropane	10.0	10.00		ug/L		100	74 - 124
1,3,5-Trimethylbenzene	10.0	10.47		ug/L		105	80 - 122

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-236670/6
Matrix: Water
Analysis Batch: 236670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	10.0	9.591		ug/L		96	80 - 120
1,3-Dichloropropane	10.0	9.942		ug/L		99	80 - 121
1,4-Dichlorobenzene	10.0	9.547		ug/L		95	80 - 120
2,2-Dichloropropane	10.0	9.850		ug/L		99	79 - 131
2-Butanone	10.0	9.071		ug/L		91	48 - 145
2-Chlorotoluene	10.0	9.883		ug/L		99	80 - 120
2-Hexanone	10.0	11.37		ug/L		114	50 - 149
4-Chlorotoluene	10.0	9.413		ug/L		94	80 - 120
4-Methyl-2-pentanone	10.0	9.977		ug/L		100	63 - 120
Acetone	10.0	12.98		ug/L		130	45 - 139
Benzene	10.0	10.01		ug/L		100	80 - 120
Bromobenzene	10.0	10.03		ug/L		100	80 - 125
Bromochloromethane	10.0	10.14		ug/L		101	80 - 120
Bromodichloromethane	10.0	9.935		ug/L		99	73 - 131
Bromoform	10.0	9.658		ug/L		97	76 - 124
Bromomethane	10.0	12.83		ug/L		128	26 - 180
cis-1,2-Dichloroethene	10.0	10.60		ug/L		106	80 - 120
cis-1,3-Dichloropropene	10.0	9.844		ug/L		98	76 - 123
Carbon disulfide	10.0	10.50		ug/L		105	75 - 123
Carbon tetrachloride	10.0	10.19		ug/L		102	61 - 139
Chlorobenzene	10.0	10.02		ug/L		100	80 - 120
Chloroethane	10.0	12.45		ug/L		125	54 - 150
Chloroform	10.0	9.989		ug/L		100	80 - 120
Chloromethane	10.0	10.66		ug/L		107	28 - 151
Dibromochloromethane	10.0	10.37		ug/L		104	74 - 136
Dibromomethane	10.0	9.941		ug/L		99	80 - 122
Dichlorodifluoromethane	10.0	11.92		ug/L		119	27 - 154
Ethylbenzene	10.0	10.23		ug/L		102	80 - 126
Isopropylbenzene	10.0	10.25		ug/L		103	80 - 120
Methylene Chloride	10.0	10.40		ug/L		104	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	10.37		ug/L		104	69 - 128
Naphthalene	10.0	9.983		ug/L		100	70 - 130
n-Butylbenzene	10.0	10.12		ug/L		101	78 - 127
N-Propylbenzene	10.0	10.43		ug/L		104	80 - 121
o-Xylene	10.0	10.11		ug/L		101	80 - 124
m,p-Xylene	20.0	20.59		ug/L		103	80 - 123
p-Isopropyltoluene	10.0	9.862		ug/L		99	80 - 128
sec-Butylbenzene	10.0	10.03		ug/L		100	80 - 125
Styrene	10.0	10.60		ug/L		106	80 - 121
trans-1,2-Dichloroethene	10.0	10.10		ug/L		101	79 - 120
trans-1,3-Dichloropropene	10.0	10.43		ug/L		104	80 - 126
tert-Butylbenzene	10.0	9.634		ug/L		96	80 - 121
Tetrachloroethene	10.0	10.11		ug/L		101	80 - 125
Toluene	10.0	9.855		ug/L		99	80 - 120
Trichloroethene	10.0	9.978		ug/L		100	77 - 124
Trichlorofluoromethane	10.0	11.98		ug/L		120	41 - 163
Vinyl acetate	10.0	9.791		ug/L		98	61 - 126
Vinyl chloride	10.0	10.96		ug/L		110	50 - 160

QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-236670/6
Matrix: Water
Analysis Batch: 236670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		64 - 132
4-Bromofluorobenzene (Surr)	99		76 - 120
Dibromofluoromethane	100		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 570-236670/7
Matrix: Water
Analysis Batch: 236670

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	10.0	9.352		ug/L		94	80 - 125	2	20
1,1,1-Trichloroethane	10.0	9.775		ug/L		98	75 - 121	3	20
1,1,2,2-Tetrachloroethane	10.0	9.899		ug/L		99	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.44		ug/L		114	56 - 132	3	22
1,1,2-Trichloroethane	10.0	9.872		ug/L		99	80 - 121	5	20
1,1-Dichloroethane	10.0	10.02		ug/L		100	80 - 120	5	20
1,1-Dichloroethene	10.0	12.20		ug/L		122	80 - 126	4	21
1,1-Dichloropropene	10.0	9.945		ug/L		99	72 - 122	3	20
1,2,3-Trichlorobenzene	10.0	9.427		ug/L		94	80 - 125	6	20
1,2,3-Trichloropropane	10.0	9.430		ug/L		94	75 - 127	6	20
1,2,4-Trichlorobenzene	10.0	9.350		ug/L		93	80 - 124	6	20
1,2,4-Trimethylbenzene	10.0	9.817		ug/L		98	80 - 128	2	20
1,2-Dibromo-3-Chloropropane	10.0	9.865		ug/L		99	63 - 123	0	20
1,2-Dibromoethane	10.0	9.668		ug/L		97	80 - 125	3	20
1,2-Dichlorobenzene	10.0	9.595		ug/L		96	80 - 120	2	20
1,2-Dichloroethane	10.0	9.901		ug/L		99	76 - 130	2	20
1,2-Dichloropropane	10.0	10.05		ug/L		100	74 - 124	0	20
1,3,5-Trimethylbenzene	10.0	10.08		ug/L		101	80 - 122	4	20
1,3-Dichlorobenzene	10.0	9.375		ug/L		94	80 - 120	2	20
1,3-Dichloropropane	10.0	9.829		ug/L		98	80 - 121	1	20
1,4-Dichlorobenzene	10.0	9.367		ug/L		94	80 - 120	2	20
2,2-Dichloropropane	10.0	10.10		ug/L		101	79 - 131	2	20
2-Butanone	10.0	8.547		ug/L		85	48 - 145	6	30
2-Chlorotoluene	10.0	9.500		ug/L		95	80 - 120	4	20
2-Hexanone	10.0	10.54		ug/L		105	50 - 149	8	29
4-Chlorotoluene	10.0	9.299		ug/L		93	80 - 120	1	20
4-Methyl-2-pentanone	10.0	9.790		ug/L		98	63 - 120	2	20
Acetone	10.0	11.25		ug/L		112	45 - 139	14	30
Benzene	10.0	9.995		ug/L		100	80 - 120	0	20
Bromobenzene	10.0	9.759		ug/L		98	80 - 125	3	20
Bromochloromethane	10.0	9.837		ug/L		98	80 - 120	3	20
Bromodichloromethane	10.0	9.886		ug/L		99	73 - 131	1	20
Bromoform	10.0	9.303		ug/L		93	76 - 124	4	20
Bromomethane	10.0	13.30		ug/L		133	26 - 180	4	20
cis-1,2-Dichloroethene	10.0	10.12		ug/L		101	80 - 120	5	20
cis-1,3-Dichloropropene	10.0	9.814		ug/L		98	76 - 123	0	20
Carbon disulfide	10.0	10.08		ug/L		101	75 - 123	4	20
Carbon tetrachloride	10.0	10.05		ug/L		100	61 - 139	1	20

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-236670/7
Matrix: Water
Analysis Batch: 236670

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	10.0	9.825		ug/L		98	80 - 120	2	20
Chloroethane	10.0	12.67		ug/L		127	54 - 150	2	25
Chloroform	10.0	9.669		ug/L		97	80 - 120	3	20
Chloromethane	10.0	10.53		ug/L		105	28 - 151	1	20
Dibromochloromethane	10.0	10.05		ug/L		101	74 - 136	3	20
Dibromomethane	10.0	10.06		ug/L		101	80 - 122	1	20
Dichlorodifluoromethane	10.0	11.57		ug/L		116	27 - 154	3	21
Ethylbenzene	10.0	9.951		ug/L		100	80 - 126	3	20
Isopropylbenzene	10.0	10.17		ug/L		102	80 - 120	1	20
Methylene Chloride	10.0	9.962		ug/L		100	80 - 120	4	20
Methyl-t-Butyl Ether (MTBE)	10.0	9.938		ug/L		99	69 - 128	4	20
Naphthalene	10.0	9.113		ug/L		91	70 - 130	9	20
n-Butylbenzene	10.0	9.950		ug/L		100	78 - 127	2	20
N-Propylbenzene	10.0	10.22		ug/L		102	80 - 121	2	20
o-Xylene	10.0	9.904		ug/L		99	80 - 124	2	20
m,p-Xylene	20.0	19.98		ug/L		100	80 - 123	3	20
p-Isopropyltoluene	10.0	9.728		ug/L		97	80 - 128	1	20
sec-Butylbenzene	10.0	9.879		ug/L		99	80 - 125	2	20
Styrene	10.0	10.29		ug/L		103	80 - 121	3	20
trans-1,2-Dichloroethene	10.0	9.587		ug/L		96	79 - 120	5	20
trans-1,3-Dichloropropene	10.0	10.22		ug/L		102	80 - 126	2	20
tert-Butylbenzene	10.0	9.598		ug/L		96	80 - 121	0	20
Tetrachloroethene	10.0	9.830		ug/L		98	80 - 125	3	20
Toluene	10.0	9.835		ug/L		98	80 - 120	0	20
Trichloroethene	10.0	9.580		ug/L		96	77 - 124	4	20
Trichlorofluoromethane	10.0	11.87		ug/L		119	41 - 163	1	21
Vinyl acetate	10.0	9.994		ug/L		100	61 - 126	2	24
Vinyl chloride	10.0	10.49		ug/L		105	50 - 160	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 132
4-Bromofluorobenzene (Surr)	101		76 - 120
Dibromofluoromethane	98		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 570-96070-14 MS
Matrix: Water
Analysis Batch: 236670

Client Sample ID: UAX-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		10.0	10.21		ug/L		102	61 - 142
1,1,1-Trichloroethane	ND		10.0	10.08		ug/L		101	68 - 138
1,1,2,2-Tetrachloroethane	ND		10.0	10.66		ug/L		107	71 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	10.69		ug/L		107	51 - 132
1,1,2-Trichloroethane	ND		10.0	10.46		ug/L		105	70 - 132
1,1-Dichloroethane	ND		10.0	10.94		ug/L		109	70 - 132
1,1-Dichloroethene	1.7	F2 F1	10.0	19.89	F1	ug/L		182	57 - 148
1,1-Dichloropropene	ND		10.0	9.289		ug/L		93	74 - 132

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-96070-14 MS

Matrix: Water

Analysis Batch: 236670

Client Sample ID: UAX-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichlorobenzene	ND		10.0	9.038		ug/L		90	66 - 135
1,2,3-Trichloropropane	ND		10.0	10.53		ug/L		105	61 - 130
1,2,4-Trichlorobenzene	ND		10.0	9.307		ug/L		93	66 - 131
1,2,4-Trimethylbenzene	ND		10.0	9.876		ug/L		99	65 - 132
1,2-Dibromo-3-Chloropropane	ND	F1	10.0	13.62	F1	ug/L		136	48 - 132
1,2-Dibromoethane	ND		10.0	10.32		ug/L		103	74 - 128
1,2-Dichlorobenzene	ND		10.0	11.80		ug/L		118	74 - 126
1,2-Dichloroethane	ND		10.0	11.23		ug/L		112	65 - 140
1,2-Dichloropropane	ND		10.0	9.096		ug/L		91	75 - 127
1,3,5-Trimethylbenzene	ND		10.0	10.89		ug/L		109	64 - 144
1,3-Dichlorobenzene	ND		10.0	9.922		ug/L		99	73 - 125
1,3-Dichloropropane	ND		10.0	10.00		ug/L		100	71 - 131
1,4-Dichlorobenzene	ND		10.0	10.20		ug/L		102	73 - 125
2,2-Dichloropropane	ND		10.0	6.470		ug/L		65	39 - 138
2-Butanone	ND		10.0	8.309		ug/L		83	44 - 140
2-Chlorotoluene	ND		10.0	10.13		ug/L		101	71 - 130
2-Hexanone	ND		10.0	9.001		ug/L		90	52 - 136
4-Chlorotoluene	ND		10.0	9.972		ug/L		100	69 - 127
4-Methyl-2-pentanone	ND		10.0	9.462		ug/L		95	44 - 139
Acetone	ND		10.0	16.18		ug/L		162	20 - 174
Benzene	ND		10.0	10.46		ug/L		105	75 - 125
Bromobenzene	ND		10.0	10.69		ug/L		107	75 - 132
Bromochloromethane	ND		10.0	10.18		ug/L		102	75 - 125
Bromodichloromethane	ND		10.0	10.03		ug/L		100	70 - 137
Bromoform	ND		10.0	10.39		ug/L		104	51 - 142
Bromomethane	ND	F1	10.0	26.10	F1	ug/L		261	46 - 164
cis-1,2-Dichloroethene	ND		10.0	9.927		ug/L		99	62 - 138
cis-1,3-Dichloropropene	ND		10.0	8.508		ug/L		85	67 - 125
Carbon disulfide	ND		10.0	9.905		ug/L		99	70 - 132
Carbon tetrachloride	ND		10.0	9.711		ug/L		97	50 - 159
Chlorobenzene	ND		10.0	10.37		ug/L		104	75 - 128
Chloroethane	ND	F1	10.0	25.36	E F1	ug/L		254	62 - 161
Chloroform	ND		10.0	10.24		ug/L		102	73 - 130
Chloromethane	ND	F1	10.0	21.69	F1	ug/L		217	45 - 157
Dibromochloromethane	ND		10.0	10.92		ug/L		109	63 - 145
Dibromomethane	ND		10.0	9.579		ug/L		96	75 - 127
Dichlorodifluoromethane	ND		10.0	11.83		ug/L		118	31 - 132
Ethylbenzene	ND		10.0	10.12		ug/L		101	73 - 135
Isopropylbenzene	ND		10.0	10.34		ug/L		103	69 - 141
Methylene Chloride	ND	F1 F2	10.0	9.663		ug/L		97	65 - 127
Methyl-t-Butyl Ether (MTBE)	ND		10.0	9.255		ug/L		93	59 - 131
Naphthalene	ND		10.0	8.988		ug/L		90	51 - 133
n-Butylbenzene	ND		10.0	10.48		ug/L		105	66 - 128
N-Propylbenzene	ND		10.0	10.46		ug/L		105	73 - 136
o-Xylene	ND		10.0	10.38		ug/L		104	69 - 138
m,p-Xylene	ND		20.0	21.26		ug/L		106	73 - 138
p-Isopropyltoluene	ND		10.0	9.676		ug/L		97	69 - 134
sec-Butylbenzene	ND		10.0	9.568		ug/L		96	70 - 130
Styrene	ND		10.0	10.64		ug/L		106	45 - 144

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-96070-14 MS

Matrix: Water

Analysis Batch: 236670

Client Sample ID: UAX-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
trans-1,2-Dichloroethene	ND		10.0	9.683		ug/L		97	61 - 138	
trans-1,3-Dichloropropene	ND	F2	10.0	9.187		ug/L		92	61 - 131	
tert-Butylbenzene	ND		10.0	10.11		ug/L		101	71 - 131	
Tetrachloroethene	ND		10.0	9.433		ug/L		94	64 - 150	
Toluene	ND		10.0	9.785		ug/L		98	75 - 127	
Trichloroethene	1.9		10.0	11.62		ug/L		97	34 - 159	
Trichlorofluoromethane	ND	F1	10.0	18.03	F1	ug/L		180	69 - 142	
Vinyl acetate	ND		10.0	8.482		ug/L		85	35 - 132	
Vinyl chloride	ND	F1	10.0	21.22	F1	ug/L		212	51 - 168	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	104		64 - 132							
4-Bromofluorobenzene (Surr)	96		76 - 120							
Dibromofluoromethane	101		80 - 120							
Toluene-d8 (Surr)	97		80 - 120							

Lab Sample ID: 570-96070-14 MSD

Matrix: Water

Analysis Batch: 236670

Client Sample ID: UAX-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		10.0	9.690		ug/L		97	61 - 142	5	20	
1,1,1-Trichloroethane	ND		10.0	10.68		ug/L		107	68 - 138	6	20	
1,1,2,2-Tetrachloroethane	ND		10.0	9.254		ug/L		93	71 - 133	14	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	8.957		ug/L		90	51 - 132	18	21	
1,1,2-Trichloroethane	ND		10.0	11.33		ug/L		113	70 - 132	8	20	
1,1-Dichloroethane	ND		10.0	11.34		ug/L		113	70 - 132	4	20	
1,1-Dichloroethene	1.7	F2 F1	10.0	14.61	F2	ug/L		129	57 - 148	31	20	
1,1-Dichloropropene	ND		10.0	10.00		ug/L		100	74 - 132	7	20	
1,2,3-Trichlorobenzene	ND		10.0	9.760		ug/L		98	66 - 135	8	22	
1,2,3-Trichloropropane	ND		10.0	9.191		ug/L		92	61 - 130	14	20	
1,2,4-Trichlorobenzene	ND		10.0	10.02		ug/L		100	66 - 131	7	24	
1,2,4-Trimethylbenzene	ND		10.0	9.424		ug/L		94	65 - 132	5	22	
1,2-Dibromo-3-Chloropropane	ND	F1	10.0	11.28		ug/L		113	48 - 132	19	20	
1,2-Dibromoethane	ND		10.0	10.34		ug/L		103	74 - 128	0	20	
1,2-Dichlorobenzene	ND		10.0	11.37		ug/L		114	74 - 126	4	20	
1,2-Dichloroethane	ND		10.0	11.34		ug/L		113	65 - 140	1	20	
1,2-Dichloropropane	ND		10.0	10.22		ug/L		102	75 - 127	12	20	
1,3,5-Trimethylbenzene	ND		10.0	10.51		ug/L		105	64 - 144	4	22	
1,3-Dichlorobenzene	ND		10.0	9.128		ug/L		91	73 - 125	8	21	
1,3-Dichloropropane	ND		10.0	11.47		ug/L		115	71 - 131	14	20	
1,4-Dichlorobenzene	ND		10.0	9.435		ug/L		94	73 - 125	8	20	
2,2-Dichloropropane	ND		10.0	6.695		ug/L		67	39 - 138	3	20	
2-Butanone	ND		10.0	7.935		ug/L		79	44 - 140	5	34	
2-Chlorotoluene	ND		10.0	9.777		ug/L		98	71 - 130	4	20	
2-Hexanone	ND		10.0	8.986		ug/L		90	52 - 136	0	37	
4-Chlorotoluene	ND		10.0	9.288		ug/L		93	69 - 127	7	20	
4-Methyl-2-pentanone	ND		10.0	9.065		ug/L		91	44 - 139	4	21	

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-96070-14 MSD

Matrix: Water

Analysis Batch: 236670

Client Sample ID: UAX-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND		10.0	12.77		ug/L		128	20 - 174	24	35
Benzene	ND		10.0	10.32		ug/L		103	75 - 125	1	20
Bromobenzene	ND		10.0	10.12		ug/L		101	75 - 132	5	20
Bromochloromethane	ND		10.0	10.34		ug/L		103	75 - 125	2	20
Bromodichloromethane	ND		10.0	10.93		ug/L		109	70 - 137	9	20
Bromoform	ND		10.0	9.284		ug/L		93	51 - 142	11	20
Bromomethane	ND	F1	10.0	23.92	F1	ug/L		239	46 - 164	9	25
cis-1,2-Dichloroethene	ND		10.0	10.07		ug/L		101	62 - 138	1	20
cis-1,3-Dichloropropene	ND		10.0	10.17		ug/L		102	67 - 125	18	20
Carbon disulfide	ND		10.0	10.67		ug/L		107	70 - 132	7	20
Carbon tetrachloride	ND		10.0	10.85		ug/L		108	50 - 159	11	20
Chlorobenzene	ND		10.0	10.21		ug/L		102	75 - 128	2	20
Chloroethane	ND	F1	10.0	24.56	E F1	ug/L		246	62 - 161	3	20
Chloroform	ND		10.0	10.53		ug/L		105	73 - 130	3	20
Chloromethane	ND	F1	10.0	17.90	F1	ug/L		179	45 - 157	19	21
Dibromochloromethane	ND		10.0	11.34		ug/L		113	63 - 145	4	20
Dibromomethane	ND		10.0	10.77		ug/L		108	75 - 127	12	20
Dichlorodifluoromethane	ND		10.0	9.670		ug/L		97	31 - 132	20	21
Ethylbenzene	ND		10.0	10.14		ug/L		101	73 - 135	0	20
Isopropylbenzene	ND		10.0	10.29		ug/L		103	69 - 141	1	22
Methylene Chloride	ND	F1 F2	10.0	13.38	F1 F2	ug/L		134	65 - 127	32	20
Methyl-t-Butyl Ether (MTBE)	ND		10.0	9.811		ug/L		98	59 - 131	6	20
Naphthalene	ND		10.0	8.901		ug/L		89	51 - 133	1	25
n-Butylbenzene	ND		10.0	10.88		ug/L		109	66 - 128	4	24
N-Propylbenzene	ND		10.0	10.48		ug/L		105	73 - 136	0	22
o-Xylene	ND		10.0	10.21		ug/L		102	69 - 138	2	20
m,p-Xylene	ND		20.0	21.03		ug/L		105	73 - 138	1	21
p-Isopropyltoluene	ND		10.0	9.475		ug/L		95	69 - 134	2	23
sec-Butylbenzene	ND		10.0	9.307		ug/L		93	70 - 130	3	22
Styrene	ND		10.0	9.971		ug/L		100	45 - 144	6	32
trans-1,2-Dichloroethene	ND		10.0	9.650		ug/L		97	61 - 138	0	21
trans-1,3-Dichloropropene	ND	F2	10.0	11.45	F2	ug/L		114	61 - 131	22	20
tert-Butylbenzene	ND		10.0	9.697		ug/L		97	71 - 131	4	23
Tetrachloroethene	ND		10.0	11.23		ug/L		112	64 - 150	17	23
Toluene	ND		10.0	11.73		ug/L		117	75 - 127	18	20
Trichloroethene	1.9		10.0	12.30		ug/L		104	34 - 159	6	23
Trichlorofluoromethane	ND	F1	10.0	17.90	F1	ug/L		179	69 - 142	1	20
Vinyl acetate	ND		10.0	7.015		ug/L		70	35 - 132	19	29
Vinyl chloride	ND	F1	10.0	20.05	F1	ug/L		200	51 - 168	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		64 - 132
4-Bromofluorobenzene (Surr)	94		76 - 120
Dibromofluoromethane	101		80 - 120
Toluene-d8 (Surr)	112		80 - 120

QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8270C SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-234802/1-A
Matrix: Water
Analysis Batch: 235135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		05/17/22 14:11	05/19/22 00:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	50		21 - 120				05/17/22 14:11	05/19/22 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	107		58 - 135				05/17/22 14:11	05/19/22 00:50	1

Lab Sample ID: LCS 570-234802/2-A
Matrix: Water
Analysis Batch: 235135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	20.0	20.84		ug/L		104	63 - 144		
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	43		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	111		58 - 135						

Lab Sample ID: LCSD 570-234802/3-A
Matrix: Water
Analysis Batch: 235135

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 234802

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	20.0	19.24		ug/L		96	63 - 144	8	20
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	54		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	109		58 - 135						

Lab Sample ID: 570-96048-C-4-A MS
Matrix: Water
Analysis Batch: 235136

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 234802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	ND		20.0	20.16		ug/L		101	48 - 164		
Isotope Dilution	%Recovery	Qualifier	Limits								
1,4-Dioxane-d8	39		21 - 120								
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	99		58 - 135								

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 570-96048-C-4-B MSD
Matrix: Water
Analysis Batch: 235136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 234802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		20.0	21.11		ug/L		106	48 - 164	5	20
	MSD	MSD									
Isotope Dilution	%Recovery	Qualifier	Limits								
1,4-Dioxane-d8	45		21 - 120								
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	110		58 - 135								

Lab Sample ID: 570-96070-14 MS
Matrix: Water
Analysis Batch: 235135

Client Sample ID: UAX-01
Prep Type: Total/NA
Prep Batch: 234804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.99		20.0	18.98		ug/L		90	48 - 164		
	MS	MS									
Isotope Dilution	%Recovery	Qualifier	Limits								
1,4-Dioxane-d8	32		21 - 120								
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	92		58 - 135								

Lab Sample ID: 570-96070-14 MSD
Matrix: Water
Analysis Batch: 235135

Client Sample ID: UAX-01
Prep Type: Total/NA
Prep Batch: 234804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	0.99		20.0	18.45		ug/L		87	48 - 164	3	20
	MSD	MSD									
Isotope Dilution	%Recovery	Qualifier	Limits								
1,4-Dioxane-d8	37		21 - 120								
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	98		58 - 135								

QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

GC/MS VOA

Analysis Batch: 236670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-96070-1	TB-051222	Total/NA	Water	8260B	
570-96070-2	LAX-03	Total/NA	Water	8260B	
570-96070-3	UAX-02	Total/NA	Water	8260B	
570-96070-4	UAX-0200	Total/NA	Water	8260B	
570-96070-5	LAX-02	Total/NA	Water	8260B	
570-96070-6	RB-051222	Total/NA	Water	8260B	
570-96070-7	LAX-01	Total/NA	Water	8260B	
570-96070-8	UAX-03	Total/NA	Water	8260B	
570-96070-9	HEW-04	Total/NA	Water	8260B	
570-96070-10	HEW-02	Total/NA	Water	8260B	
570-96070-11	HEW-05	Total/NA	Water	8260B	
570-96070-12	HEW-01	Total/NA	Water	8260B	
570-96070-13	HEW-03	Total/NA	Water	8260B	
570-96070-14	UAX-01	Total/NA	Water	8260B	
MB 570-236670/9	Method Blank	Total/NA	Water	8260B	
LCS 570-236670/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-236670/7	Lab Control Sample Dup	Total/NA	Water	8260B	
570-96070-14 MS	UAX-01	Total/NA	Water	8260B	
570-96070-14 MSD	UAX-01	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 234802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-96070-2	LAX-03	Total/NA	Water	3510C	
570-96070-3	UAX-02	Total/NA	Water	3510C	
570-96070-4	UAX-0200	Total/NA	Water	3510C	
570-96070-5	LAX-02	Total/NA	Water	3510C	
570-96070-7	LAX-01	Total/NA	Water	3510C	
570-96070-8	UAX-03	Total/NA	Water	3510C	
570-96070-9	HEW-04	Total/NA	Water	3510C	
MB 570-234802/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-234802/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-234802/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-96048-C-4-A MS	Matrix Spike	Total/NA	Water	3510C	
570-96048-C-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Prep Batch: 234804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-96070-10	HEW-02	Total/NA	Water	3510C	
570-96070-11	HEW-05	Total/NA	Water	3510C	
570-96070-12	HEW-01	Total/NA	Water	3510C	
570-96070-13	HEW-03	Total/NA	Water	3510C	
570-96070-14	UAX-01	Total/NA	Water	3510C	
570-96070-14 MS	UAX-01	Total/NA	Water	3510C	
570-96070-14 MSD	UAX-01	Total/NA	Water	3510C	

Analysis Batch: 235135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-96070-10	HEW-02	Total/NA	Water	8270C SIM ID	234804
570-96070-11	HEW-05	Total/NA	Water	8270C SIM ID	234804

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QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

GC/MS Semi VOA (Continued)

Analysis Batch: 235135 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-96070-12	HEW-01	Total/NA	Water	8270C SIM ID	234804
570-96070-13	HEW-03	Total/NA	Water	8270C SIM ID	234804
570-96070-14	UAX-01	Total/NA	Water	8270C SIM ID	234804
MB 570-234802/1-A	Method Blank	Total/NA	Water	8270C SIM ID	234802
LCS 570-234802/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	234802
LCSD 570-234802/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	234802
570-96070-14 MS	UAX-01	Total/NA	Water	8270C SIM ID	234804
570-96070-14 MSD	UAX-01	Total/NA	Water	8270C SIM ID	234804

Analysis Batch: 235136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-96070-2	LAX-03	Total/NA	Water	8270C SIM ID	234802
570-96070-3	UAX-02	Total/NA	Water	8270C SIM ID	234802
570-96070-4	UAX-0200	Total/NA	Water	8270C SIM ID	234802
570-96070-5	LAX-02	Total/NA	Water	8270C SIM ID	234802
570-96070-7	LAX-01	Total/NA	Water	8270C SIM ID	234802
570-96070-8	UAX-03	Total/NA	Water	8270C SIM ID	234802
570-96070-9	HEW-04	Total/NA	Water	8270C SIM ID	234802
570-96048-C-4-A MS	Matrix Spike	Total/NA	Water	8270C SIM ID	234802
570-96048-C-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM ID	234802

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Client Sample ID: TB-051222

Lab Sample ID: 570-96070-1

Date Collected: 05/12/22 07:30

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 01:23	A1W	ECL 4
Instrument ID: GCMSWW										

Client Sample ID: LAX-03

Lab Sample ID: 570-96070-2

Date Collected: 05/12/22 08:05

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 02:49	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234802	05/17/22 14:11	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235136	05/19/22 05:40	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-02

Lab Sample ID: 570-96070-3

Date Collected: 05/12/22 08:25

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 03:18	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234802	05/17/22 14:11	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235136	05/19/22 05:55	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-0200

Lab Sample ID: 570-96070-4

Date Collected: 05/12/22 09:00

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 03:47	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234802	05/17/22 14:11	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235136	05/19/22 06:09	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: LAX-02

Lab Sample ID: 570-96070-5

Date Collected: 05/12/22 08:50

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 04:16	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234802	05/17/22 14:11	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235136	05/19/22 06:23	N8CZ	ECL 4
Instrument ID: GCMSDDD										

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Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Client Sample ID: RB-051222

Lab Sample ID: 570-96070-6

Date Collected: 05/12/22 09:10

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 04:45	A1W	ECL 4
Instrument ID: GCMSWW										

Client Sample ID: LAX-01

Lab Sample ID: 570-96070-7

Date Collected: 05/12/22 09:30

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 05:14	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234802	05/17/22 14:11	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235136	05/19/22 06:38	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-03

Lab Sample ID: 570-96070-8

Date Collected: 05/12/22 09:55

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 05:43	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234802	05/17/22 14:11	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235136	05/19/22 06:52	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-04

Lab Sample ID: 570-96070-9

Date Collected: 05/12/22 10:10

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	236670	05/25/22 06:11	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234802	05/17/22 14:11	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235136	05/19/22 07:07	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-02

Lab Sample ID: 570-96070-10

Date Collected: 05/12/22 11:20

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	236670	05/25/22 06:41	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234804	05/17/22 14:13	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235135	05/18/22 22:54	N8CZ	ECL 4
Instrument ID: GCMSDDD										

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Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Client Sample ID: HEW-05

Lab Sample ID: 570-96070-11

Date Collected: 05/12/22 11:40

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	236670	05/25/22 07:09	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234804	05/17/22 14:13	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235135	05/18/22 23:08	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-01

Lab Sample ID: 570-96070-12

Date Collected: 05/12/22 11:50

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	20 mL	20 mL	236670	05/25/22 07:38	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234804	05/17/22 14:13	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235135	05/18/22 23:23	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-03

Lab Sample ID: 570-96070-13

Date Collected: 05/12/22 12:00

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	236670	05/25/22 08:07	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234804	05/17/22 14:13	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235135	05/18/22 23:37	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-01

Lab Sample ID: 570-96070-14

Date Collected: 05/12/22 12:30

Matrix: Water

Date Received: 05/12/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	236670	05/25/22 08:36	A1W	ECL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	234804	05/17/22 14:13	KG5J	ECL 4
Total/NA	Analysis	8270C SIM ID		1			235135	05/18/22 23:52	N8CZ	ECL 4
Instrument ID: GCMSDDD										

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	CA300001	01-31-23

- 1
- 2
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Method Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	ECL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 4
5030C	Purge and Trap	SW846	ECL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



Sample Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Bldg 684

Job ID: 570-96070-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-96070-1	TB-051222	Water	05/12/22 07:30	05/12/22 13:50
570-96070-2	LAX-03	Water	05/12/22 08:05	05/12/22 13:50
570-96070-3	UAX-02	Water	05/12/22 08:25	05/12/22 13:50
570-96070-4	UAX-0200	Water	05/12/22 09:00	05/12/22 13:50
570-96070-5	LAX-02	Water	05/12/22 08:50	05/12/22 13:50
570-96070-6	RB-051222	Water	05/12/22 09:10	05/12/22 13:50
570-96070-7	LAX-01	Water	05/12/22 09:30	05/12/22 13:50
570-96070-8	UAX-03	Water	05/12/22 09:55	05/12/22 13:50
570-96070-9	HEW-04	Water	05/12/22 10:10	05/12/22 13:50
570-96070-10	HEW-02	Water	05/12/22 11:20	05/12/22 13:50
570-96070-11	HEW-05	Water	05/12/22 11:40	05/12/22 13:50
570-96070-12	HEW-01	Water	05/12/22 11:50	05/12/22 13:50
570-96070-13	HEW-03	Water	05/12/22 12:00	05/12/22 13:50
570-96070-14	UAX-01	Water	05/12/22 12:30	05/12/22 13:50

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Patel, Virendra

From: Andrew Donnelly <ADONNELLY@HARGIS.COM>
Sent: Thursday, May 19, 2022 9:32 AM
To: Patel, Virendra
Subject: RE: Eurofins Calscience sample confirmation files from 570-96070-1 Raytheon Bldg 684

EXTERNAL EMAIL*

Hi Virendra,

Can you please revise sample ID of "TB-05122022" to "TB-051222".

All other sample log info looks good.

Thanks,

Andrew Donnelly
Hydrogeologist
HARGIS + ASSOCIATES, INC.
3131 Camino Del Rio North, Suite 355, San Diego, CA 92108
Direct: 858.410.7463
Cell: 951.553.0689
adonnelly@hargis.com
www.hargis.com



From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Monday, May 16, 2022 8:40 AM
To: Andrew Donnelly <ADONNELLY@HARGIS.COM>; Amanda Janzon <AJanzon@HARGIS.COM>; DJ Sealee <DSealee@HARGIS.CO>; Monica Morales <MMorales@Hargis.com>; Ross Horton <RHorton@HARGIS.COM>; Ruben Sanchez <RSanchez@HARGIS.COM>; Steve Netto <SNETTO@HARGIS.COM>; Tony Rossi <TROSSI@HARGIS.COM>
Subject: Eurofins Calscience sample confirmation files from 570-96070-1 Raytheon Bldg 684

CAUTION: This email originated from outside your organization. Do not click links, open attachments or follow instructions unless you have verified the sender and know the content is genuine and safe.

Hello,

Attached please find the sample confirmation files for job 570-96070-1; Raytheon Bldg 684

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env

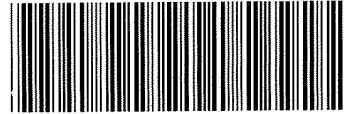


Reference: [570-320668]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

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PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project BCI Fullerton 764 10	Sampled By D. Sealice R. Adams	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	250 mL Amber	VOCs by EPA 8260B	1,4-Dioxane by 8270C	ESTIMATED CONCENTRATION				Standard TAT	MS/MSD Requested	SPECIAL HANDLING	REMARKS		
		Date	Time										0-10	10-100	100-1,000	>1,000						
	TB-05122022	05-12-22	0730	X	X		X	2			X		X									
	LAX-03		0805	X	X			3			X		X									
	↓		↓	X					1			X										
	UAX-02		0825	X	X			3			X		X									
	↓		↓	X					1			X										
	UAX-0200		0900	X	X			3			X		X									
	↓		↓	X					1			X										
	LAX-02		0850	X	X			3			X		X									
	↓		↓	X					1			X										
	RB-051222		0910	X	X			3			X		X									
	LAX-01		0930	X	X			3			X		X									
	↓		↓	X					1			X										
	UAX-03		0955	X	X			3			X		X									
	↓		↓	X					1			X										
	HEW-04		1010	X	X			3			X		X									
	↓		↓	X					1			X										
	HEW-02		1120	X	X			3			X		X									
	↓		↓	X					1			X										
Total number of containers per analysis.																	Total No. of Containers. _____					

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinse Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company	Date / Time	Received By / Company	Date / Time
<i>[Signature]</i> / HJA	5/12/22 1350	<i>[Signature]</i>	5/12/22 1350
Relinquished By / Company	Date / Time	Received By / Company	Date / Time

- No. of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

IL-96 1-0/2-7, 1-2/2-9 Temperature on receipt



PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project BCI Fullerton 764 10	Sampled By: <u>D. Sealak</u> <u>R. Adams</u>	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	250 mL Amber	VOCs by EPA 8260B	1,4- Dioxane by 8270C	ESTIMATED CONCENTRATION				Standard TAT	MS/MSD Requested	REMARKS
		Date	Time										0-10	10-100	100-1,000	>1,000			
	<u>HEW-05</u>	<u>05-12-22</u>	<u>1140</u>	X	X		X	3			X		X				X		
	↓	↓	↓	X					1			X							
	<u>HEW-01</u>	↓	<u>1150</u>	X	X			3			X			X					
	↓	↓	↓	X					1			X							
	<u>HEW-03</u>	↓	<u>1200</u>	X	X			3			X			X					
	↓	↓	↓	X					1			X							
	<u>VAT-01</u>	↓	<u>1230</u>	X	X			9			X		X					X	
	↓	↓	<u>1230</u>	X					3			X							X
Total number of containers per analysis												Total No. of Containers							

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By: / Company <u>[Signature] / HSA</u>	Date / Time <u>5/12/22</u> <u>1350</u>	Received By: / Company <u>[Signature]</u>	Date / Time <u>5/12/22</u> <u>1350</u>
Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time

- No. of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

_____ Temperature on receipt



Login Sample Receipt Checklist

Client: Hargis + Associates, Inc.

Job Number: 570-96070-1

SDG Number:

Login Number: 96070

List Number: 1

Creator: Skinner, Alma D

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-106653-1
Client Project/Site: Raytheon Full Scale / Bldg. 684

For:
Hargis + Associates, Inc.
3131 Camino del Rio N
Suite 355
San Diego, California 92108

Attn: Steve Netto

Virendra R Patel

Authorized for release by:
8/29/2022 5:53:53 PM

Virendra Patel, Project Manager I
(714)895-5494

Virendra.Patel@et.eurofinsus.com

LINKS

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results through



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www.eurofinsus.com/Env

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
me	LCS Recovery is within Marginal Exceedance (ME) control limit range (± 4 SD from the mean).

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Job ID: 570-106653-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-106653-1

Comments

No additional comments.

Receipt

The samples were received on 8/16/2022 5:44 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.2° C and 5.8° C.

GC/MS VOA

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-258643. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-258627 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following analytes recovered outside control limits for the LCS associated with analytical batch 570-258627: Carbon tetrachloride, Chlorodibromomethane and 1,1,1,2-Tetrachloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: UB-05 (570-106653-13). Elevated reporting limits (RLs) are provided.

Method 8260B: The continuing calibration verification (CCV) associated with batch 570-258627 recovered above the upper control limit for Bromoform. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-258728. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following analyte recovered outside control limits for the LCS and LCSD associated with analytical batch 570-258728: Vinyl acetate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: The matrix spike duplicate (MSD) associated with analytical batch 570-258627 was analyzed outside of the 12-hour tune window. The associated laboratory control sample and duplicate (LCS/LCSD) and matrix spike (MS) were analyzed within the 12-hour tune window and recovery and precision met acceptance criteria.(570-106653-A-16 MSD)

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-258627 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-258895. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis:

Case Narrative

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Job ID: 570-106653-1 (Continued)

Laboratory: Eurofins Calscience (Continued)

S-04 (570-106653-22) and S-14 (570-106653-26). Elevated reporting limits (RLs) are provided.

Method 8260B: The continuing calibration verification (CCV) associated with batch 570-258931 recovered above the upper control limit for Bromoform. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: AB-05 (570-106653-2), HEW-04 (570-106653-35) and (CCVIS 570-258931/2).

Method 8260B: The laboratory control sample (LCS) for analytical batch 570-258931 recovered outside control limits for the following analytes: Carbon tetrachloride, Dibromochloromethane, 1,1,1,2-Tetrachloroethane, Bromoform and Vinyl acetate.. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 570-258931 recovered outside control limits for the following analyte: Bromoform. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-258931. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C SIM ID: Surrogate recovery for the following sample was outside control limits: HEW-0500 (570-106653-32). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: TB-081622

Lab Sample ID: 570-106653-1

No Detections.

Client Sample ID: AB-05

Lab Sample ID: 570-106653-2

No Detections.

Client Sample ID: UB-02

Lab Sample ID: 570-106653-3

No Detections.

Client Sample ID: UA-13D

Lab Sample ID: 570-106653-4

No Detections.

Client Sample ID: UA-16D

Lab Sample ID: 570-106653-5

No Detections.

Client Sample ID: UA-1600D

Lab Sample ID: 570-106653-6

No Detections.

Client Sample ID: UA-17D

Lab Sample ID: 570-106653-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl-t-Butyl Ether (MTBE)	1.5		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-1700D

Lab Sample ID: 570-106653-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl-t-Butyl Ether (MTBE)	1.6		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: AB-08

Lab Sample ID: 570-106653-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UB-06

Lab Sample ID: 570-106653-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.7		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: RB-081622B

Lab Sample ID: 570-106653-11

No Detections.

Client Sample ID: LAX-01

Lab Sample ID: 570-106653-12

No Detections.

Client Sample ID: UB-05

Lab Sample ID: 570-106653-13

No Detections.

Client Sample ID: AB-07

Lab Sample ID: 570-106653-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.6		0.50		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.3		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	5.4		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	2.6		0.50		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: UA-14D

Lab Sample ID: 570-106653-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	35		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	0.69		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-10D

Lab Sample ID: 570-106653-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.8		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: AB-06

Lab Sample ID: 570-106653-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UB-04

Lab Sample ID: 570-106653-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		0.50		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	3.4		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	0.58		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	9.6		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: S-32

Lab Sample ID: 570-106653-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	11		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-04D

Lab Sample ID: 570-106653-20

No Detections.

Client Sample ID: UAX-01

Lab Sample ID: 570-106653-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.6		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	2.7		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: S-04

Lab Sample ID: 570-106653-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.0		2.0		ug/L	4		8260B	Total/NA

Client Sample ID: UAX-0100

Lab Sample ID: 570-106653-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.5		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	2.7		0.50		ug/L	1		8260B	Total/NA
1,4-Dioxane	0.67		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: UB-01

Lab Sample ID: 570-106653-24

No Detections.

Client Sample ID: RB-081622A

Lab Sample ID: 570-106653-25

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: S-14

Lab Sample ID: 570-106653-26

No Detections.

Client Sample ID: LAX-03

Lab Sample ID: 570-106653-27

No Detections.

Client Sample ID: UAX-02

Lab Sample ID: 570-106653-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.3		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	4.3		0.50		ug/L	1		8260B	Total/NA
1,4-Dioxane	1.5		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: AB-03

Lab Sample ID: 570-106653-29

No Detections.

Client Sample ID: HEW-02

Lab Sample ID: 570-106653-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	98		0.50		ug/L	1		8260B	Total/NA
1,4-Dioxane	0.62		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: HEW-05

Lab Sample ID: 570-106653-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.6		1.0		ug/L	2		8260B	Total/NA
Trichloroethene	100		1.0		ug/L	2		8260B	Total/NA

Client Sample ID: HEW-0500

Lab Sample ID: 570-106653-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.6		1.0		ug/L	2		8260B	Total/NA
Trichloroethene	110		1.0		ug/L	2		8260B	Total/NA

Client Sample ID: S-18

Lab Sample ID: 570-106653-33

No Detections.

Client Sample ID: S-05

Lab Sample ID: 570-106653-34

No Detections.

Client Sample ID: HEW-04

Lab Sample ID: 570-106653-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.3		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.58		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	1.3		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	73		0.50		ug/L	1		8260B	Total/NA
1,4-Dioxane	7.5		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: UA-08D

Lab Sample ID: 570-106653-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.70		0.50		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: UA-08

Lab Sample ID: 570-106653-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.2		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-0800

Lab Sample ID: 570-106653-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.67		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: SE-04

Lab Sample ID: 570-106653-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.78		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	6.9		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: AB-0300

Lab Sample ID: 570-106653-40

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-081622
Date Collected: 08/16/22 08:00
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 17:49	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 17:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 17:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 17:49	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 17:49	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 17:49	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 17:49	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 17:49	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 17:49	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 17:49	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 17:49	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 17:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 17:49	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 17:49	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 17:49	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 17:49	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 17:49	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 17:49	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 17:49	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 17:49	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 17:49	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 17:49	1
2-Butanone	ND		5.0		ug/L			08/23/22 17:49	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 17:49	1
2-Hexanone	ND		6.0		ug/L			08/23/22 17:49	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 17:49	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 17:49	1
Acetone	ND		8.0		ug/L			08/23/22 17:49	1
Benzene	ND		0.50		ug/L			08/23/22 17:49	1
Bromobenzene	ND		0.50		ug/L			08/23/22 17:49	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 17:49	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 17:49	1
Bromoform	ND		0.50		ug/L			08/23/22 17:49	1
Bromomethane	ND		2.0		ug/L			08/23/22 17:49	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 17:49	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 17:49	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 17:49	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 17:49	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 17:49	1
Chloroethane	ND		0.50		ug/L			08/23/22 17:49	1
Chloroform	ND		0.50		ug/L			08/23/22 17:49	1
Chloromethane	ND		1.0		ug/L			08/23/22 17:49	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 17:49	1
Dibromomethane	ND		0.50		ug/L			08/23/22 17:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 17:49	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 17:49	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 17:49	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 17:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 17:49	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-081622
Date Collected: 08/16/22 08:00
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 17:49	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 17:49	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 17:49	1
o-Xylene	ND		0.50		ug/L			08/23/22 17:49	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 17:49	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 17:49	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 17:49	1
Styrene	ND		0.50		ug/L			08/23/22 17:49	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 17:49	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 17:49	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 17:49	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 17:49	1
Toluene	ND		0.50		ug/L			08/23/22 17:49	1
Trichloroethene	ND		0.50		ug/L			08/23/22 17:49	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 17:49	1
Vinyl acetate	ND	*+	5.0		ug/L			08/23/22 17:49	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		64 - 132		08/23/22 17:49	1
<i>4-Bromofluorobenzene (Surr)</i>	97		76 - 120		08/23/22 17:49	1
<i>Dibromofluoromethane</i>	103		80 - 120		08/23/22 17:49	1
<i>Toluene-d8 (Surr)</i>	98		80 - 120		08/23/22 17:49	1

Client Sample ID: AB-05
Date Collected: 08/16/22 09:20
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 10:12	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 10:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 10:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 10:12	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 10:12	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 10:12	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 10:12	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 10:12	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 10:12	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 10:12	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 10:12	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 10:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 10:12	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 10:12	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 10:12	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 10:12	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 10:12	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 10:12	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 10:12	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 10:12	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 10:12	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 10:12	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: AB-05
Date Collected: 08/16/22 09:20
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 10:12	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 10:12	1
2-Hexanone	ND		6.0		ug/L			08/24/22 10:12	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 10:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 10:12	1
Acetone	ND		8.0		ug/L			08/24/22 10:12	1
Benzene	ND		0.50		ug/L			08/24/22 10:12	1
Bromobenzene	ND		0.50		ug/L			08/24/22 10:12	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 10:12	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 10:12	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 10:12	1
Bromomethane	ND		2.0		ug/L			08/24/22 10:12	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 10:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 10:12	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 10:12	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 10:12	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 10:12	1
Chloroethane	ND		0.50		ug/L			08/24/22 10:12	1
Chloroform	ND		0.50		ug/L			08/24/22 10:12	1
Chloromethane	ND		1.0		ug/L			08/24/22 10:12	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 10:12	1
Dibromomethane	ND		0.50		ug/L			08/24/22 10:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 10:12	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 10:12	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 10:12	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 10:12	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 10:12	1
Naphthalene	ND		1.0		ug/L			08/24/22 10:12	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 10:12	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 10:12	1
o-Xylene	ND		0.50		ug/L			08/24/22 10:12	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 10:12	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 10:12	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 10:12	1
Styrene	ND		0.50		ug/L			08/24/22 10:12	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 10:12	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 10:12	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 10:12	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 10:12	1
Toluene	ND		0.50		ug/L			08/24/22 10:12	1
Trichloroethene	ND		0.50		ug/L			08/24/22 10:12	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 10:12	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 10:12	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 132		08/24/22 10:12	1
4-Bromofluorobenzene (Surr)	97		76 - 120		08/24/22 10:12	1
Dibromofluoromethane	105		80 - 120		08/24/22 10:12	1
Toluene-d8 (Surr)	101		80 - 120		08/24/22 10:12	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UB-02
Date Collected: 08/16/22 09:42
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 20:24	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 20:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 20:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 20:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 20:24	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 20:24	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 20:24	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 20:24	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 20:24	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 20:24	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 20:24	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 20:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 20:24	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 20:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:24	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 20:24	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 20:24	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 20:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:24	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 20:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:24	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 20:24	1
2-Butanone	ND		5.0		ug/L			08/23/22 20:24	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 20:24	1
2-Hexanone	ND		6.0		ug/L			08/23/22 20:24	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 20:24	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 20:24	1
Acetone	ND		8.0		ug/L			08/23/22 20:24	1
Benzene	ND		0.50		ug/L			08/23/22 20:24	1
Bromobenzene	ND		0.50		ug/L			08/23/22 20:24	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 20:24	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 20:24	1
Bromoform	ND		0.50		ug/L			08/23/22 20:24	1
Bromomethane	ND		2.0		ug/L			08/23/22 20:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 20:24	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 20:24	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 20:24	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 20:24	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 20:24	1
Chloroethane	ND		0.50		ug/L			08/23/22 20:24	1
Chloroform	ND		0.50		ug/L			08/23/22 20:24	1
Chloromethane	ND		1.0		ug/L			08/23/22 20:24	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 20:24	1
Dibromomethane	ND		0.50		ug/L			08/23/22 20:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 20:24	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 20:24	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 20:24	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 20:24	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 20:24	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UB-02
Date Collected: 08/16/22 09:42
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 20:24	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 20:24	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 20:24	1
o-Xylene	ND		0.50		ug/L			08/23/22 20:24	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 20:24	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 20:24	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 20:24	1
Styrene	ND		0.50		ug/L			08/23/22 20:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 20:24	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 20:24	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 20:24	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 20:24	1
Toluene	ND		0.50		ug/L			08/23/22 20:24	1
Trichloroethene	ND		0.50		ug/L			08/23/22 20:24	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 20:24	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 20:24	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		64 - 132		08/23/22 20:24	1
<i>4-Bromofluorobenzene (Surr)</i>	91		76 - 120		08/23/22 20:24	1
<i>Dibromofluoromethane</i>	105		80 - 120		08/23/22 20:24	1
<i>Toluene-d8 (Surr)</i>	98		80 - 120		08/23/22 20:24	1

Client Sample ID: UA-13D
Date Collected: 08/16/22 10:00
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 18:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 18:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 18:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 18:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 18:45	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 18:45	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 18:45	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 18:45	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 18:45	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 18:45	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 18:45	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 18:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 18:45	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 18:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:45	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 18:45	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 18:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 18:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:45	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 18:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:45	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 18:45	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-13D
Date Collected: 08/16/22 10:00
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 18:45	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 18:45	1
2-Hexanone	ND		6.0		ug/L			08/23/22 18:45	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 18:45	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 18:45	1
Acetone	ND		8.0		ug/L			08/23/22 18:45	1
Benzene	ND		0.50		ug/L			08/23/22 18:45	1
Bromobenzene	ND		0.50		ug/L			08/23/22 18:45	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 18:45	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 18:45	1
Bromoform	ND		0.50		ug/L			08/23/22 18:45	1
Bromomethane	ND		2.0		ug/L			08/23/22 18:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 18:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 18:45	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 18:45	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 18:45	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 18:45	1
Chloroethane	ND		0.50		ug/L			08/23/22 18:45	1
Chloroform	ND		0.50		ug/L			08/23/22 18:45	1
Chloromethane	ND		1.0		ug/L			08/23/22 18:45	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 18:45	1
Dibromomethane	ND		0.50		ug/L			08/23/22 18:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 18:45	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 18:45	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 18:45	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 18:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 18:45	1
Naphthalene	ND		1.0		ug/L			08/23/22 18:45	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 18:45	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 18:45	1
o-Xylene	ND		0.50		ug/L			08/23/22 18:45	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 18:45	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 18:45	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 18:45	1
Styrene	ND		0.50		ug/L			08/23/22 18:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 18:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 18:45	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 18:45	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 18:45	1
Toluene	ND		0.50		ug/L			08/23/22 18:45	1
Trichloroethene	ND		0.50		ug/L			08/23/22 18:45	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 18:45	1
Vinyl acetate	ND	*+	5.0		ug/L			08/23/22 18:45	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		64 - 132		08/23/22 18:45	1
<i>4-Bromofluorobenzene (Surr)</i>	102		76 - 120		08/23/22 18:45	1
<i>Dibromofluoromethane</i>	103		80 - 120		08/23/22 18:45	1
<i>Toluene-d8 (Surr)</i>	96		80 - 120		08/23/22 18:45	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UA-16D
Date Collected: 08/16/22 10:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 18:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 18:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 18:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 18:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 18:16	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 18:16	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 18:16	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 18:16	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 18:16	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 18:16	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 18:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 18:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 18:16	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 18:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:16	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 18:16	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 18:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 18:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:16	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 18:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:16	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 18:16	1
2-Butanone	ND		5.0		ug/L			08/23/22 18:16	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 18:16	1
2-Hexanone	ND		6.0		ug/L			08/23/22 18:16	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 18:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 18:16	1
Acetone	ND		8.0		ug/L			08/23/22 18:16	1
Benzene	ND		0.50		ug/L			08/23/22 18:16	1
Bromobenzene	ND		0.50		ug/L			08/23/22 18:16	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 18:16	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 18:16	1
Bromoform	ND	*+	0.50		ug/L			08/23/22 18:16	1
Bromomethane	ND		2.0		ug/L			08/23/22 18:16	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 18:16	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 18:16	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 18:16	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/23/22 18:16	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 18:16	1
Chloroethane	ND		0.50		ug/L			08/23/22 18:16	1
Chloroform	ND		0.50		ug/L			08/23/22 18:16	1
Chloromethane	ND		1.0		ug/L			08/23/22 18:16	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/23/22 18:16	1
Dibromomethane	ND		0.50		ug/L			08/23/22 18:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 18:16	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 18:16	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 18:16	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 18:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 18:16	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-16D
Date Collected: 08/16/22 10:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 18:16	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 18:16	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 18:16	1
o-Xylene	ND		0.50		ug/L			08/23/22 18:16	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 18:16	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 18:16	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 18:16	1
Styrene	ND		0.50		ug/L			08/23/22 18:16	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 18:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 18:16	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 18:16	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 18:16	1
Toluene	ND		0.50		ug/L			08/23/22 18:16	1
Trichloroethene	ND		0.50		ug/L			08/23/22 18:16	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 18:16	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 18:16	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 132		08/23/22 18:16	1
4-Bromofluorobenzene (Surr)	99		76 - 120		08/23/22 18:16	1
Dibromofluoromethane	106		80 - 120		08/23/22 18:16	1
Toluene-d8 (Surr)	102		80 - 120		08/23/22 18:16	1

Client Sample ID: UA-1600D
Date Collected: 08/16/22 11:30
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	+	0.50		ug/L			08/23/22 18:44	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 18:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 18:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 18:44	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 18:44	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 18:44	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 18:44	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 18:44	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 18:44	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 18:44	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 18:44	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 18:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 18:44	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 18:44	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:44	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 18:44	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 18:44	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 18:44	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:44	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 18:44	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 18:44	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 18:44	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-1600D
Date Collected: 08/16/22 11:30
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 18:44	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 18:44	1
2-Hexanone	ND		6.0		ug/L			08/23/22 18:44	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 18:44	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 18:44	1
Acetone	ND		8.0		ug/L			08/23/22 18:44	1
Benzene	ND		0.50		ug/L			08/23/22 18:44	1
Bromobenzene	ND		0.50		ug/L			08/23/22 18:44	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 18:44	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 18:44	1
Bromoform	ND	+	0.50		ug/L			08/23/22 18:44	1
Bromomethane	ND		2.0		ug/L			08/23/22 18:44	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 18:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 18:44	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 18:44	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/23/22 18:44	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 18:44	1
Chloroethane	ND		0.50		ug/L			08/23/22 18:44	1
Chloroform	ND		0.50		ug/L			08/23/22 18:44	1
Chloromethane	ND		1.0		ug/L			08/23/22 18:44	1
Dibromochloromethane	ND	+	0.50		ug/L			08/23/22 18:44	1
Dibromomethane	ND		0.50		ug/L			08/23/22 18:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 18:44	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 18:44	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 18:44	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 18:44	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 18:44	1
Naphthalene	ND		1.0		ug/L			08/23/22 18:44	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 18:44	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 18:44	1
o-Xylene	ND		0.50		ug/L			08/23/22 18:44	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 18:44	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 18:44	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 18:44	1
Styrene	ND		0.50		ug/L			08/23/22 18:44	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 18:44	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 18:44	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 18:44	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 18:44	1
Toluene	ND		0.50		ug/L			08/23/22 18:44	1
Trichloroethene	ND		0.50		ug/L			08/23/22 18:44	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 18:44	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 18:44	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 132		08/23/22 18:44	1
4-Bromofluorobenzene (Surr)	97		76 - 120		08/23/22 18:44	1
Dibromofluoromethane	106		80 - 120		08/23/22 18:44	1
Toluene-d8 (Surr)	101		80 - 120		08/23/22 18:44	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UA-17D
Date Collected: 08/16/22 11:22
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 19:13	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 19:13	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 19:13	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 19:13	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 19:13	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
2-Butanone	ND		5.0		ug/L			08/23/22 19:13	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 19:13	1
2-Hexanone	ND		6.0		ug/L			08/23/22 19:13	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 19:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 19:13	1
Acetone	ND		8.0		ug/L			08/23/22 19:13	1
Benzene	ND		0.50		ug/L			08/23/22 19:13	1
Bromobenzene	ND		0.50		ug/L			08/23/22 19:13	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 19:13	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 19:13	1
Bromoform	ND	*+	0.50		ug/L			08/23/22 19:13	1
Bromomethane	ND		2.0		ug/L			08/23/22 19:13	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 19:13	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 19:13	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/23/22 19:13	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
Chloroethane	ND		0.50		ug/L			08/23/22 19:13	1
Chloroform	ND		0.50		ug/L			08/23/22 19:13	1
Chloromethane	ND		1.0		ug/L			08/23/22 19:13	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/23/22 19:13	1
Dibromomethane	ND		0.50		ug/L			08/23/22 19:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 19:13	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 19:13	1
Methyl-t-Butyl Ether (MTBE)	1.5		0.50		ug/L			08/23/22 19:13	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-17D
Date Collected: 08/16/22 11:22
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 19:13	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
o-Xylene	ND		0.50		ug/L			08/23/22 19:13	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 19:13	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 19:13	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
Styrene	ND		0.50		ug/L			08/23/22 19:13	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 19:13	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 19:13	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 19:13	1
Toluene	ND		0.50		ug/L			08/23/22 19:13	1
Trichloroethene	ND		0.50		ug/L			08/23/22 19:13	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 19:13	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 19:13	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	96		64 - 132		08/23/22 19:13	1
<i>4-Bromofluorobenzene (Surr)</i>	98		76 - 120		08/23/22 19:13	1
<i>Dibromofluoromethane</i>	105		80 - 120		08/23/22 19:13	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120		08/23/22 19:13	1

Client Sample ID: UA-1700D
Date Collected: 08/16/22 11:45
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 19:41	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 19:41	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 19:41	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 19:41	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 19:41	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 19:41	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 19:41	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 19:41	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 19:41	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-1700D
Date Collected: 08/16/22 11:45
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 19:41	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 19:41	1
2-Hexanone	ND		6.0		ug/L			08/23/22 19:41	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 19:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 19:41	1
Acetone	ND		8.0		ug/L			08/23/22 19:41	1
Benzene	ND		0.50		ug/L			08/23/22 19:41	1
Bromobenzene	ND		0.50		ug/L			08/23/22 19:41	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 19:41	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 19:41	1
Bromoform	ND	+	0.50		ug/L			08/23/22 19:41	1
Bromomethane	ND		2.0		ug/L			08/23/22 19:41	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 19:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 19:41	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 19:41	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/23/22 19:41	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
Chloroethane	ND		0.50		ug/L			08/23/22 19:41	1
Chloroform	ND		0.50		ug/L			08/23/22 19:41	1
Chloromethane	ND		1.0		ug/L			08/23/22 19:41	1
Dibromochloromethane	ND	+	0.50		ug/L			08/23/22 19:41	1
Dibromomethane	ND		0.50		ug/L			08/23/22 19:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 19:41	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 19:41	1
Methyl-t-Butyl Ether (MTBE)	1.6		0.50		ug/L			08/23/22 19:41	1
Naphthalene	ND		1.0		ug/L			08/23/22 19:41	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
o-Xylene	ND		0.50		ug/L			08/23/22 19:41	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 19:41	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 19:41	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
Styrene	ND		0.50		ug/L			08/23/22 19:41	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 19:41	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 19:41	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 19:41	1
Toluene	ND		0.50		ug/L			08/23/22 19:41	1
Trichloroethene	ND		0.50		ug/L			08/23/22 19:41	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 19:41	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 19:41	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		08/23/22 19:41	1
4-Bromofluorobenzene (Surr)	99		76 - 120		08/23/22 19:41	1
Dibromofluoromethane	105		80 - 120		08/23/22 19:41	1
Toluene-d8 (Surr)	100		80 - 120		08/23/22 19:41	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: AB-08
Date Collected: 08/16/22 11:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 20:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 20:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 20:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 20:09	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 20:09	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 20:09	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 20:09	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 20:09	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 20:09	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 20:09	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 20:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 20:09	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 20:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:09	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 20:09	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 20:09	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 20:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:09	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 20:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:09	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 20:09	1
2-Butanone	ND		5.0		ug/L			08/23/22 20:09	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 20:09	1
2-Hexanone	ND		6.0		ug/L			08/23/22 20:09	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 20:09	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 20:09	1
Acetone	ND		8.0		ug/L			08/23/22 20:09	1
Benzene	ND		0.50		ug/L			08/23/22 20:09	1
Bromobenzene	ND		0.50		ug/L			08/23/22 20:09	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 20:09	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 20:09	1
Bromoform	ND	*+	0.50		ug/L			08/23/22 20:09	1
Bromomethane	ND		2.0		ug/L			08/23/22 20:09	1
cis-1,2-Dichloroethene	1.6		0.50		ug/L			08/23/22 20:09	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 20:09	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 20:09	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/23/22 20:09	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 20:09	1
Chloroethane	ND		0.50		ug/L			08/23/22 20:09	1
Chloroform	ND		0.50		ug/L			08/23/22 20:09	1
Chloromethane	ND		1.0		ug/L			08/23/22 20:09	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/23/22 20:09	1
Dibromomethane	ND		0.50		ug/L			08/23/22 20:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 20:09	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 20:09	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 20:09	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 20:09	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 20:09	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: AB-08
Date Collected: 08/16/22 11:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 20:09	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 20:09	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 20:09	1
o-Xylene	ND		0.50		ug/L			08/23/22 20:09	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 20:09	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 20:09	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 20:09	1
Styrene	ND		0.50		ug/L			08/23/22 20:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 20:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 20:09	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 20:09	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 20:09	1
Toluene	ND		0.50		ug/L			08/23/22 20:09	1
Trichloroethene	ND		0.50		ug/L			08/23/22 20:09	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 20:09	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 20:09	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	99		64 - 132		08/23/22 20:09	1
<i>4-Bromofluorobenzene (Surr)</i>	99		76 - 120		08/23/22 20:09	1
<i>Dibromofluoromethane</i>	105		80 - 120		08/23/22 20:09	1
<i>Toluene-d8 (Surr)</i>	102		80 - 120		08/23/22 20:09	1

Client Sample ID: UB-06
Date Collected: 08/16/22 12:00
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 20:38	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 20:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 20:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 20:38	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 20:38	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 20:38	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 20:38	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 20:38	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 20:38	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 20:38	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 20:38	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 20:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 20:38	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 20:38	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:38	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 20:38	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 20:38	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 20:38	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:38	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 20:38	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 20:38	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 20:38	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UB-06
Date Collected: 08/16/22 12:00
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 20:38	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 20:38	1
2-Hexanone	ND		6.0		ug/L			08/23/22 20:38	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 20:38	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 20:38	1
Acetone	ND		8.0		ug/L			08/23/22 20:38	1
Benzene	ND		0.50		ug/L			08/23/22 20:38	1
Bromobenzene	ND		0.50		ug/L			08/23/22 20:38	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 20:38	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 20:38	1
Bromoform	ND	*+	0.50		ug/L			08/23/22 20:38	1
Bromomethane	ND		2.0		ug/L			08/23/22 20:38	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 20:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 20:38	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 20:38	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/23/22 20:38	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 20:38	1
Chloroethane	ND		0.50		ug/L			08/23/22 20:38	1
Chloroform	ND		0.50		ug/L			08/23/22 20:38	1
Chloromethane	ND		1.0		ug/L			08/23/22 20:38	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/23/22 20:38	1
Dibromomethane	ND		0.50		ug/L			08/23/22 20:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 20:38	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 20:38	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 20:38	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 20:38	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 20:38	1
Naphthalene	ND		1.0		ug/L			08/23/22 20:38	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 20:38	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 20:38	1
o-Xylene	ND		0.50		ug/L			08/23/22 20:38	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 20:38	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 20:38	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 20:38	1
Styrene	ND		0.50		ug/L			08/23/22 20:38	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 20:38	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 20:38	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 20:38	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 20:38	1
Toluene	ND		0.50		ug/L			08/23/22 20:38	1
Trichloroethene	2.7		0.50		ug/L			08/23/22 20:38	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 20:38	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 20:38	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	97		64 - 132		08/23/22 20:38	1
<i>4-Bromofluorobenzene (Surr)</i>	98		76 - 120		08/23/22 20:38	1
<i>Dibromofluoromethane</i>	106		80 - 120		08/23/22 20:38	1
<i>Toluene-d8 (Surr)</i>	102		80 - 120		08/23/22 20:38	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RB-081622B
Date Collected: 08/16/22 13:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 21:06	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 21:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 21:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 21:06	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 21:06	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 21:06	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 21:06	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 21:06	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 21:06	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 21:06	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 21:06	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 21:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 21:06	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 21:06	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 21:06	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 21:06	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 21:06	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 21:06	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 21:06	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 21:06	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 21:06	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 21:06	1
2-Butanone	ND		5.0		ug/L			08/23/22 21:06	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 21:06	1
2-Hexanone	ND		6.0		ug/L			08/23/22 21:06	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 21:06	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 21:06	1
Acetone	ND		8.0		ug/L			08/23/22 21:06	1
Benzene	ND		0.50		ug/L			08/23/22 21:06	1
Bromobenzene	ND		0.50		ug/L			08/23/22 21:06	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 21:06	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 21:06	1
Bromoform	ND	*+	0.50		ug/L			08/23/22 21:06	1
Bromomethane	ND		2.0		ug/L			08/23/22 21:06	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 21:06	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 21:06	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 21:06	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/23/22 21:06	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 21:06	1
Chloroethane	ND		0.50		ug/L			08/23/22 21:06	1
Chloroform	ND		0.50		ug/L			08/23/22 21:06	1
Chloromethane	ND		1.0		ug/L			08/23/22 21:06	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/23/22 21:06	1
Dibromomethane	ND		0.50		ug/L			08/23/22 21:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 21:06	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 21:06	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 21:06	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 21:06	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 21:06	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-081622B
Date Collected: 08/16/22 13:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 21:06	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 21:06	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 21:06	1
o-Xylene	ND		0.50		ug/L			08/23/22 21:06	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 21:06	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 21:06	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 21:06	1
Styrene	ND		0.50		ug/L			08/23/22 21:06	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 21:06	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 21:06	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 21:06	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 21:06	1
Toluene	ND		0.50		ug/L			08/23/22 21:06	1
Trichloroethene	ND		0.50		ug/L			08/23/22 21:06	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 21:06	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 21:06	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		08/23/22 21:06	1
4-Bromofluorobenzene (Surr)	97		76 - 120		08/23/22 21:06	1
Dibromofluoromethane	106		80 - 120		08/23/22 21:06	1
Toluene-d8 (Surr)	100		80 - 120		08/23/22 21:06	1

Client Sample ID: LAX-01
Date Collected: 08/16/22 13:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 21:34	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 21:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 21:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 21:34	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 21:34	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 21:34	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 21:34	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 21:34	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 21:34	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 21:34	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 21:34	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 21:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 21:34	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 21:34	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 21:34	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 21:34	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 21:34	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 21:34	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 21:34	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 21:34	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 21:34	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 21:34	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-01
Date Collected: 08/16/22 13:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 21:34	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 21:34	1
2-Hexanone	ND		6.0		ug/L			08/23/22 21:34	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 21:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 21:34	1
Acetone	ND		8.0		ug/L			08/23/22 21:34	1
Benzene	ND		0.50		ug/L			08/23/22 21:34	1
Bromobenzene	ND		0.50		ug/L			08/23/22 21:34	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 21:34	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 21:34	1
Bromoform	ND	+	0.50		ug/L			08/23/22 21:34	1
Bromomethane	ND		2.0		ug/L			08/23/22 21:34	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 21:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 21:34	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 21:34	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/23/22 21:34	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 21:34	1
Chloroethane	ND		0.50		ug/L			08/23/22 21:34	1
Chloroform	ND		0.50		ug/L			08/23/22 21:34	1
Chloromethane	ND		1.0		ug/L			08/23/22 21:34	1
Dibromochloromethane	ND	+	0.50		ug/L			08/23/22 21:34	1
Dibromomethane	ND		0.50		ug/L			08/23/22 21:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 21:34	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 21:34	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 21:34	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 21:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 21:34	1
Naphthalene	ND		1.0		ug/L			08/23/22 21:34	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 21:34	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 21:34	1
o-Xylene	ND		0.50		ug/L			08/23/22 21:34	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 21:34	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 21:34	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 21:34	1
Styrene	ND		0.50		ug/L			08/23/22 21:34	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 21:34	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 21:34	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 21:34	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 21:34	1
Toluene	ND		0.50		ug/L			08/23/22 21:34	1
Trichloroethene	ND		0.50		ug/L			08/23/22 21:34	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 21:34	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 21:34	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		08/23/22 21:34	1
4-Bromofluorobenzene (Surr)	99		76 - 120		08/23/22 21:34	1
Dibromofluoromethane	105		80 - 120		08/23/22 21:34	1
Toluene-d8 (Surr)	101		80 - 120		08/23/22 21:34	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UB-05
Date Collected: 08/16/22 14:25
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	2.0		ug/L			08/23/22 22:03	4
1,1,1-Trichloroethane	ND		2.0		ug/L			08/23/22 22:03	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/23/22 22:03	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			08/23/22 22:03	4
1,1,2-Trichloroethane	ND		2.0		ug/L			08/23/22 22:03	4
1,1-Dichloroethane	ND		2.0		ug/L			08/23/22 22:03	4
1,1-Dichloroethene	ND		2.0		ug/L			08/23/22 22:03	4
1,1-Dichloropropene	ND		2.0		ug/L			08/23/22 22:03	4
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/23/22 22:03	4
1,2,3-Trichloropropane	ND		2.0		ug/L			08/23/22 22:03	4
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/23/22 22:03	4
1,2,4-Trimethylbenzene	ND		2.0		ug/L			08/23/22 22:03	4
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			08/23/22 22:03	4
1,2-Dibromoethane	ND		2.0		ug/L			08/23/22 22:03	4
1,2-Dichlorobenzene	ND		2.0		ug/L			08/23/22 22:03	4
1,2-Dichloroethane	ND		2.0		ug/L			08/23/22 22:03	4
1,2-Dichloropropane	ND		2.0		ug/L			08/23/22 22:03	4
1,3,5-Trimethylbenzene	ND		2.0		ug/L			08/23/22 22:03	4
1,3-Dichlorobenzene	ND		2.0		ug/L			08/23/22 22:03	4
1,3-Dichloropropane	ND		2.0		ug/L			08/23/22 22:03	4
1,4-Dichlorobenzene	ND		2.0		ug/L			08/23/22 22:03	4
2,2-Dichloropropane	ND		2.0		ug/L			08/23/22 22:03	4
2-Butanone	ND		20		ug/L			08/23/22 22:03	4
2-Chlorotoluene	ND		2.0		ug/L			08/23/22 22:03	4
2-Hexanone	ND		24		ug/L			08/23/22 22:03	4
4-Chlorotoluene	ND		2.0		ug/L			08/23/22 22:03	4
4-Methyl-2-pentanone	ND		20		ug/L			08/23/22 22:03	4
Acetone	ND		32		ug/L			08/23/22 22:03	4
Benzene	ND		2.0		ug/L			08/23/22 22:03	4
Bromobenzene	ND		2.0		ug/L			08/23/22 22:03	4
Bromochloromethane	ND		4.0		ug/L			08/23/22 22:03	4
Bromodichloromethane	ND		2.0		ug/L			08/23/22 22:03	4
Bromoform	ND	*+	2.0		ug/L			08/23/22 22:03	4
Bromomethane	ND		8.0		ug/L			08/23/22 22:03	4
cis-1,2-Dichloroethene	ND		2.0		ug/L			08/23/22 22:03	4
cis-1,3-Dichloropropane	ND		2.0		ug/L			08/23/22 22:03	4
Carbon disulfide	ND		4.0		ug/L			08/23/22 22:03	4
Carbon tetrachloride	ND	*+	2.0		ug/L			08/23/22 22:03	4
Chlorobenzene	ND		2.0		ug/L			08/23/22 22:03	4
Chloroethane	ND		2.0		ug/L			08/23/22 22:03	4
Chloroform	ND		2.0		ug/L			08/23/22 22:03	4
Chloromethane	ND		4.0		ug/L			08/23/22 22:03	4
Dibromochloromethane	ND	*+	2.0		ug/L			08/23/22 22:03	4
Dibromomethane	ND		2.0		ug/L			08/23/22 22:03	4
Dichlorodifluoromethane	ND		4.0		ug/L			08/23/22 22:03	4
Ethylbenzene	ND		2.0		ug/L			08/23/22 22:03	4
Isopropylbenzene	ND		2.0		ug/L			08/23/22 22:03	4
Methylene Chloride	ND		4.0		ug/L			08/23/22 22:03	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			08/23/22 22:03	4

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UB-05
Date Collected: 08/16/22 14:25
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.0		ug/L			08/23/22 22:03	4
n-Butylbenzene	ND		2.0		ug/L			08/23/22 22:03	4
N-Propylbenzene	ND		2.0		ug/L			08/23/22 22:03	4
o-Xylene	ND		2.0		ug/L			08/23/22 22:03	4
m,p-Xylene	ND		4.0		ug/L			08/23/22 22:03	4
p-Isopropyltoluene	ND		2.0		ug/L			08/23/22 22:03	4
sec-Butylbenzene	ND		2.0		ug/L			08/23/22 22:03	4
Styrene	ND		2.0		ug/L			08/23/22 22:03	4
trans-1,2-Dichloroethene	ND		2.0		ug/L			08/23/22 22:03	4
trans-1,3-Dichloropropene	ND		2.0		ug/L			08/23/22 22:03	4
tert-Butylbenzene	ND		2.0		ug/L			08/23/22 22:03	4
Tetrachloroethene	ND		2.0		ug/L			08/23/22 22:03	4
Toluene	ND		2.0		ug/L			08/23/22 22:03	4
Trichloroethene	ND		2.0		ug/L			08/23/22 22:03	4
Trichlorofluoromethane	ND		2.0		ug/L			08/23/22 22:03	4
Vinyl acetate	ND		20		ug/L			08/23/22 22:03	4
Vinyl chloride	ND		2.0		ug/L			08/23/22 22:03	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		64 - 132		08/23/22 22:03	4
<i>4-Bromofluorobenzene (Surr)</i>	98		76 - 120		08/23/22 22:03	4
<i>Dibromofluoromethane</i>	105		80 - 120		08/23/22 22:03	4
<i>Toluene-d8 (Surr)</i>	98		80 - 120		08/23/22 22:03	4

Client Sample ID: AB-07
Date Collected: 08/16/22 14:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 22:31	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 22:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 22:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 22:31	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 22:31	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 22:31	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 22:31	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 22:31	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 22:31	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 22:31	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 22:31	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 22:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 22:31	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 22:31	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:31	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 22:31	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 22:31	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 22:31	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:31	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 22:31	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:31	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 22:31	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: AB-07
Date Collected: 08/16/22 14:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 22:31	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 22:31	1
2-Hexanone	ND		6.0		ug/L			08/23/22 22:31	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 22:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 22:31	1
Acetone	ND		8.0		ug/L			08/23/22 22:31	1
Benzene	ND		0.50		ug/L			08/23/22 22:31	1
Bromobenzene	ND		0.50		ug/L			08/23/22 22:31	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 22:31	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 22:31	1
Bromoform	ND	+	0.50		ug/L			08/23/22 22:31	1
Bromomethane	ND		2.0		ug/L			08/23/22 22:31	1
cis-1,2-Dichloroethene	2.6		0.50		ug/L			08/23/22 22:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 22:31	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 22:31	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/23/22 22:31	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 22:31	1
Chloroethane	ND		0.50		ug/L			08/23/22 22:31	1
Chloroform	ND		0.50		ug/L			08/23/22 22:31	1
Chloromethane	ND		1.0		ug/L			08/23/22 22:31	1
Dibromochloromethane	ND	+	0.50		ug/L			08/23/22 22:31	1
Dibromomethane	ND		0.50		ug/L			08/23/22 22:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 22:31	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 22:31	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 22:31	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 22:31	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 22:31	1
Naphthalene	ND		1.0		ug/L			08/23/22 22:31	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 22:31	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 22:31	1
o-Xylene	ND		0.50		ug/L			08/23/22 22:31	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 22:31	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 22:31	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 22:31	1
Styrene	ND		0.50		ug/L			08/23/22 22:31	1
trans-1,2-Dichloroethene	2.3		0.50		ug/L			08/23/22 22:31	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 22:31	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 22:31	1
Tetrachloroethene	5.4		0.50		ug/L			08/23/22 22:31	1
Toluene	ND		0.50		ug/L			08/23/22 22:31	1
Trichloroethene	2.6		0.50		ug/L			08/23/22 22:31	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 22:31	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 22:31	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		08/23/22 22:31	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/23/22 22:31	1
Dibromofluoromethane	105		80 - 120		08/23/22 22:31	1
Toluene-d8 (Surr)	100		80 - 120		08/23/22 22:31	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UA-14D
Date Collected: 08/16/22 14:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/23/22 22:59	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 22:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 22:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 22:59	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 22:59	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 22:59	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 22:59	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 22:59	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 22:59	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 22:59	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 22:59	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 22:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 22:59	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 22:59	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:59	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 22:59	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 22:59	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 22:59	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:59	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 22:59	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:59	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 22:59	1
2-Butanone	ND		5.0		ug/L			08/23/22 22:59	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 22:59	1
2-Hexanone	ND		6.0		ug/L			08/23/22 22:59	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 22:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 22:59	1
Acetone	ND		8.0		ug/L			08/23/22 22:59	1
Benzene	ND		0.50		ug/L			08/23/22 22:59	1
Bromobenzene	ND		0.50		ug/L			08/23/22 22:59	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 22:59	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 22:59	1
Bromoform	ND	*+	0.50		ug/L			08/23/22 22:59	1
Bromomethane	ND		2.0		ug/L			08/23/22 22:59	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 22:59	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 22:59	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 22:59	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/23/22 22:59	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 22:59	1
Chloroethane	ND		0.50		ug/L			08/23/22 22:59	1
Chloroform	ND		0.50		ug/L			08/23/22 22:59	1
Chloromethane	ND		1.0		ug/L			08/23/22 22:59	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/23/22 22:59	1
Dibromomethane	ND		0.50		ug/L			08/23/22 22:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 22:59	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 22:59	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 22:59	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 22:59	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 22:59	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-14D
Date Collected: 08/16/22 14:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 22:59	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 22:59	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 22:59	1
o-Xylene	ND		0.50		ug/L			08/23/22 22:59	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 22:59	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 22:59	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 22:59	1
Styrene	ND		0.50		ug/L			08/23/22 22:59	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 22:59	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 22:59	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 22:59	1
Tetrachloroethene	35		0.50		ug/L			08/23/22 22:59	1
Toluene	ND		0.50		ug/L			08/23/22 22:59	1
Trichloroethene	0.69		0.50		ug/L			08/23/22 22:59	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 22:59	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 22:59	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		08/23/22 22:59	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/23/22 22:59	1
Dibromofluoromethane	106		80 - 120		08/23/22 22:59	1
Toluene-d8 (Surr)	102		80 - 120		08/23/22 22:59	1

Client Sample ID: UA-10D
Date Collected: 08/16/22 15:30
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	+	0.50		ug/L			08/23/22 23:28	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 23:28	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 23:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 23:28	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 23:28	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 23:28	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 23:28	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 23:28	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 23:28	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 23:28	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 23:28	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 23:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 23:28	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 23:28	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:28	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 23:28	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 23:28	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 23:28	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:28	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 23:28	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:28	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 23:28	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-10D
Date Collected: 08/16/22 15:30
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 23:28	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 23:28	1
2-Hexanone	ND		6.0		ug/L			08/23/22 23:28	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 23:28	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 23:28	1
Acetone	ND		8.0		ug/L			08/23/22 23:28	1
Benzene	ND		0.50		ug/L			08/23/22 23:28	1
Bromobenzene	ND		0.50		ug/L			08/23/22 23:28	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 23:28	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 23:28	1
Bromoform	ND	*+ F1	0.50		ug/L			08/23/22 23:28	1
Bromomethane	ND		2.0		ug/L			08/23/22 23:28	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 23:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 23:28	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 23:28	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/23/22 23:28	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 23:28	1
Chloroethane	ND		0.50		ug/L			08/23/22 23:28	1
Chloroform	ND		0.50		ug/L			08/23/22 23:28	1
Chloromethane	ND		1.0		ug/L			08/23/22 23:28	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/23/22 23:28	1
Dibromomethane	ND		0.50		ug/L			08/23/22 23:28	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 23:28	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 23:28	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 23:28	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 23:28	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 23:28	1
Naphthalene	ND		1.0		ug/L			08/23/22 23:28	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 23:28	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 23:28	1
o-Xylene	ND		0.50		ug/L			08/23/22 23:28	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 23:28	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 23:28	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 23:28	1
Styrene	ND		0.50		ug/L			08/23/22 23:28	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 23:28	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 23:28	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 23:28	1
Tetrachloroethene	7.8		0.50		ug/L			08/23/22 23:28	1
Toluene	ND		0.50		ug/L			08/23/22 23:28	1
Trichloroethene	ND		0.50		ug/L			08/23/22 23:28	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 23:28	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 23:28	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		08/23/22 23:28	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/23/22 23:28	1
Dibromofluoromethane	104		80 - 120		08/23/22 23:28	1
Toluene-d8 (Surr)	101		80 - 120		08/23/22 23:28	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: AB-06
Date Collected: 08/16/22 15:45
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 19:13	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 19:13	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 19:13	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 19:13	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 19:13	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
2-Butanone	ND		5.0		ug/L			08/23/22 19:13	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 19:13	1
2-Hexanone	ND		6.0		ug/L			08/23/22 19:13	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 19:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 19:13	1
Acetone	ND		8.0		ug/L			08/23/22 19:13	1
Benzene	ND		0.50		ug/L			08/23/22 19:13	1
Bromobenzene	ND		0.50		ug/L			08/23/22 19:13	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 19:13	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 19:13	1
Bromoform	ND		0.50		ug/L			08/23/22 19:13	1
Bromomethane	ND		2.0		ug/L			08/23/22 19:13	1
cis-1,2-Dichloroethene	3.6		0.50		ug/L			08/23/22 19:13	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 19:13	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 19:13	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 19:13	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 19:13	1
Chloroethane	ND		0.50		ug/L			08/23/22 19:13	1
Chloroform	ND		0.50		ug/L			08/23/22 19:13	1
Chloromethane	ND		1.0		ug/L			08/23/22 19:13	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 19:13	1
Dibromomethane	ND		0.50		ug/L			08/23/22 19:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 19:13	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 19:13	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 19:13	1

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: AB-06
Date Collected: 08/16/22 15:45
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 19:13	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
o-Xylene	ND		0.50		ug/L			08/23/22 19:13	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 19:13	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 19:13	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
Styrene	ND		0.50		ug/L			08/23/22 19:13	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 19:13	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 19:13	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 19:13	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 19:13	1
Toluene	ND		0.50		ug/L			08/23/22 19:13	1
Trichloroethene	ND		0.50		ug/L			08/23/22 19:13	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 19:13	1
Vinyl acetate	ND	*+	5.0		ug/L			08/23/22 19:13	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		64 - 132		08/23/22 19:13	1
<i>4-Bromofluorobenzene (Surr)</i>	104		76 - 120		08/23/22 19:13	1
<i>Dibromofluoromethane</i>	107		80 - 120		08/23/22 19:13	1
<i>Toluene-d8 (Surr)</i>	99		80 - 120		08/23/22 19:13	1

Client Sample ID: UB-04
Date Collected: 08/16/22 16:00
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 19:41	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 19:41	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 19:41	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 19:41	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 19:41	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 19:41	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 19:41	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 19:41	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 19:41	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UB-04
Date Collected: 08/16/22 16:00
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 19:41	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 19:41	1
2-Hexanone	ND		6.0		ug/L			08/23/22 19:41	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 19:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 19:41	1
Acetone	ND		8.0		ug/L			08/23/22 19:41	1
Benzene	ND		0.50		ug/L			08/23/22 19:41	1
Bromobenzene	ND		0.50		ug/L			08/23/22 19:41	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 19:41	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 19:41	1
Bromoform	ND		0.50		ug/L			08/23/22 19:41	1
Bromomethane	ND		2.0		ug/L			08/23/22 19:41	1
cis-1,2-Dichloroethene	2.0		0.50		ug/L			08/23/22 19:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 19:41	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 19:41	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 19:41	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 19:41	1
Chloroethane	ND		0.50		ug/L			08/23/22 19:41	1
Chloroform	ND		0.50		ug/L			08/23/22 19:41	1
Chloromethane	ND		1.0		ug/L			08/23/22 19:41	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 19:41	1
Dibromomethane	ND		0.50		ug/L			08/23/22 19:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 19:41	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 19:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 19:41	1
Naphthalene	ND		1.0		ug/L			08/23/22 19:41	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
o-Xylene	ND		0.50		ug/L			08/23/22 19:41	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 19:41	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 19:41	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
Styrene	ND		0.50		ug/L			08/23/22 19:41	1
trans-1,2-Dichloroethene	3.4		0.50		ug/L			08/23/22 19:41	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 19:41	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 19:41	1
Tetrachloroethene	0.58		0.50		ug/L			08/23/22 19:41	1
Toluene	ND		0.50		ug/L			08/23/22 19:41	1
Trichloroethene	9.6		0.50		ug/L			08/23/22 19:41	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 19:41	1
Vinyl acetate	ND	+	5.0		ug/L			08/23/22 19:41	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 132		08/23/22 19:41	1
4-Bromofluorobenzene (Surr)	103		76 - 120		08/23/22 19:41	1
Dibromofluoromethane	107		80 - 120		08/23/22 19:41	1
Toluene-d8 (Surr)	97		80 - 120		08/23/22 19:41	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-32
Date Collected: 08/16/22 09:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 22:55	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 22:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 22:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 22:55	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 22:55	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 22:55	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 22:55	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 22:55	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 22:55	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 22:55	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 22:55	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 22:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 22:55	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 22:55	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:55	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 22:55	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 22:55	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 22:55	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:55	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 22:55	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 22:55	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 22:55	1
2-Butanone	ND		5.0		ug/L			08/23/22 22:55	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 22:55	1
2-Hexanone	ND		6.0		ug/L			08/23/22 22:55	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 22:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 22:55	1
Acetone	ND		8.0		ug/L			08/23/22 22:55	1
Benzene	ND		0.50		ug/L			08/23/22 22:55	1
Bromobenzene	ND		0.50		ug/L			08/23/22 22:55	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 22:55	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 22:55	1
Bromoform	ND		0.50		ug/L			08/23/22 22:55	1
Bromomethane	ND		2.0		ug/L			08/23/22 22:55	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 22:55	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 22:55	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 22:55	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 22:55	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 22:55	1
Chloroethane	ND		0.50		ug/L			08/23/22 22:55	1
Chloroform	ND		0.50		ug/L			08/23/22 22:55	1
Chloromethane	ND		1.0		ug/L			08/23/22 22:55	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 22:55	1
Dibromomethane	ND		0.50		ug/L			08/23/22 22:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 22:55	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 22:55	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 22:55	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 22:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 22:55	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-32
Date Collected: 08/16/22 09:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 22:55	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 22:55	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 22:55	1
o-Xylene	ND		0.50		ug/L			08/23/22 22:55	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 22:55	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 22:55	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 22:55	1
Styrene	ND		0.50		ug/L			08/23/22 22:55	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 22:55	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 22:55	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 22:55	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 22:55	1
Toluene	ND		0.50		ug/L			08/23/22 22:55	1
Trichloroethene	11		0.50		ug/L			08/23/22 22:55	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 22:55	1
Vinyl acetate	ND	*+	5.0		ug/L			08/23/22 22:55	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		64 - 132		08/23/22 22:55	1
<i>4-Bromofluorobenzene (Surr)</i>	105		76 - 120		08/23/22 22:55	1
<i>Dibromofluoromethane</i>	103		80 - 120		08/23/22 22:55	1
<i>Toluene-d8 (Surr)</i>	97		80 - 120		08/23/22 22:55	1

Client Sample ID: UA-04D
Date Collected: 08/16/22 09:25
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 23:23	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 23:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 23:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 23:23	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 23:23	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 23:23	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 23:23	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 23:23	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 23:23	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 23:23	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 23:23	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 23:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 23:23	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 23:23	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:23	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 23:23	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 23:23	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 23:23	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:23	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 23:23	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:23	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 23:23	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-04D
Date Collected: 08/16/22 09:25
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/23/22 23:23	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 23:23	1
2-Hexanone	ND		6.0		ug/L			08/23/22 23:23	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 23:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 23:23	1
Acetone	ND		8.0		ug/L			08/23/22 23:23	1
Benzene	ND		0.50		ug/L			08/23/22 23:23	1
Bromobenzene	ND		0.50		ug/L			08/23/22 23:23	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 23:23	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 23:23	1
Bromoform	ND		0.50		ug/L			08/23/22 23:23	1
Bromomethane	ND		2.0		ug/L			08/23/22 23:23	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 23:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 23:23	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 23:23	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 23:23	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 23:23	1
Chloroethane	ND		0.50		ug/L			08/23/22 23:23	1
Chloroform	ND		0.50		ug/L			08/23/22 23:23	1
Chloromethane	ND		1.0		ug/L			08/23/22 23:23	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 23:23	1
Dibromomethane	ND		0.50		ug/L			08/23/22 23:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 23:23	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 23:23	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 23:23	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 23:23	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 23:23	1
Naphthalene	ND		1.0		ug/L			08/23/22 23:23	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 23:23	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 23:23	1
o-Xylene	ND		0.50		ug/L			08/23/22 23:23	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 23:23	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 23:23	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 23:23	1
Styrene	ND		0.50		ug/L			08/23/22 23:23	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 23:23	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 23:23	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 23:23	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 23:23	1
Toluene	ND		0.50		ug/L			08/23/22 23:23	1
Trichloroethene	ND		0.50		ug/L			08/23/22 23:23	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 23:23	1
Vinyl acetate	ND	+	5.0		ug/L			08/23/22 23:23	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 132		08/23/22 23:23	1
4-Bromofluorobenzene (Surr)	106		76 - 120		08/23/22 23:23	1
Dibromofluoromethane	106		80 - 120		08/23/22 23:23	1
Toluene-d8 (Surr)	97		80 - 120		08/23/22 23:23	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UAX-01
Date Collected: 08/16/22 09:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 23:51	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 23:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 23:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 23:51	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 23:51	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 23:51	1
1,1-Dichloroethene	1.6		0.50		ug/L			08/23/22 23:51	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 23:51	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 23:51	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 23:51	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 23:51	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 23:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 23:51	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 23:51	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:51	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 23:51	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 23:51	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 23:51	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:51	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 23:51	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:51	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 23:51	1
2-Butanone	ND		5.0		ug/L			08/23/22 23:51	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 23:51	1
2-Hexanone	ND		6.0		ug/L			08/23/22 23:51	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 23:51	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 23:51	1
Acetone	ND		8.0		ug/L			08/23/22 23:51	1
Benzene	ND		0.50		ug/L			08/23/22 23:51	1
Bromobenzene	ND		0.50		ug/L			08/23/22 23:51	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 23:51	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 23:51	1
Bromoform	ND		0.50		ug/L			08/23/22 23:51	1
Bromomethane	ND		2.0		ug/L			08/23/22 23:51	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 23:51	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 23:51	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 23:51	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 23:51	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 23:51	1
Chloroethane	ND		0.50		ug/L			08/23/22 23:51	1
Chloroform	ND		0.50		ug/L			08/23/22 23:51	1
Chloromethane	ND		1.0		ug/L			08/23/22 23:51	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 23:51	1
Dibromomethane	ND		0.50		ug/L			08/23/22 23:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 23:51	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 23:51	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 23:51	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 23:51	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 23:51	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-01
Date Collected: 08/16/22 09:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/23/22 23:51	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 23:51	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 23:51	1
o-Xylene	ND		0.50		ug/L			08/23/22 23:51	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 23:51	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 23:51	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 23:51	1
Styrene	ND		0.50		ug/L			08/23/22 23:51	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 23:51	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 23:51	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 23:51	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 23:51	1
Toluene	ND		0.50		ug/L			08/23/22 23:51	1
Trichloroethene	2.7		0.50		ug/L			08/23/22 23:51	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 23:51	1
Vinyl acetate	ND	*+	5.0		ug/L			08/23/22 23:51	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 132		08/23/22 23:51	1
4-Bromofluorobenzene (Surr)	110		76 - 120		08/23/22 23:51	1
Dibromofluoromethane	101		80 - 120		08/23/22 23:51	1
Toluene-d8 (Surr)	97		80 - 120		08/23/22 23:51	1

Client Sample ID: S-04
Date Collected: 08/16/22 10:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			08/24/22 00:19	4
1,1,1-Trichloroethane	ND		2.0		ug/L			08/24/22 00:19	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/24/22 00:19	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			08/24/22 00:19	4
1,1,2-Trichloroethane	ND		2.0		ug/L			08/24/22 00:19	4
1,1-Dichloroethane	ND		2.0		ug/L			08/24/22 00:19	4
1,1-Dichloroethene	ND		2.0		ug/L			08/24/22 00:19	4
1,1-Dichloropropene	ND		2.0		ug/L			08/24/22 00:19	4
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/24/22 00:19	4
1,2,3-Trichloropropane	ND		2.0		ug/L			08/24/22 00:19	4
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/24/22 00:19	4
1,2,4-Trimethylbenzene	ND		2.0		ug/L			08/24/22 00:19	4
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			08/24/22 00:19	4
1,2-Dibromoethane	ND		2.0		ug/L			08/24/22 00:19	4
1,2-Dichlorobenzene	ND		2.0		ug/L			08/24/22 00:19	4
1,2-Dichloroethane	ND		2.0		ug/L			08/24/22 00:19	4
1,2-Dichloropropane	ND		2.0		ug/L			08/24/22 00:19	4
1,3,5-Trimethylbenzene	ND		2.0		ug/L			08/24/22 00:19	4
1,3-Dichlorobenzene	ND		2.0		ug/L			08/24/22 00:19	4
1,3-Dichloropropane	ND		2.0		ug/L			08/24/22 00:19	4
1,4-Dichlorobenzene	ND		2.0		ug/L			08/24/22 00:19	4
2,2-Dichloropropane	ND		2.0		ug/L			08/24/22 00:19	4

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-04
Date Collected: 08/16/22 10:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		20		ug/L			08/24/22 00:19	4
2-Chlorotoluene	ND		2.0		ug/L			08/24/22 00:19	4
2-Hexanone	ND		24		ug/L			08/24/22 00:19	4
4-Chlorotoluene	ND		2.0		ug/L			08/24/22 00:19	4
4-Methyl-2-pentanone	ND		20		ug/L			08/24/22 00:19	4
Acetone	ND		32		ug/L			08/24/22 00:19	4
Benzene	ND		2.0		ug/L			08/24/22 00:19	4
Bromobenzene	ND		2.0		ug/L			08/24/22 00:19	4
Bromochloromethane	ND		4.0		ug/L			08/24/22 00:19	4
Bromodichloromethane	ND		2.0		ug/L			08/24/22 00:19	4
Bromoform	ND		2.0		ug/L			08/24/22 00:19	4
Bromomethane	ND		8.0		ug/L			08/24/22 00:19	4
cis-1,2-Dichloroethene	ND		2.0		ug/L			08/24/22 00:19	4
cis-1,3-Dichloropropene	ND		2.0		ug/L			08/24/22 00:19	4
Carbon disulfide	ND		4.0		ug/L			08/24/22 00:19	4
Carbon tetrachloride	ND		2.0		ug/L			08/24/22 00:19	4
Chlorobenzene	ND		2.0		ug/L			08/24/22 00:19	4
Chloroethane	ND		2.0		ug/L			08/24/22 00:19	4
Chloroform	ND		2.0		ug/L			08/24/22 00:19	4
Chloromethane	ND		4.0		ug/L			08/24/22 00:19	4
Dibromochloromethane	ND		2.0		ug/L			08/24/22 00:19	4
Dibromomethane	ND		2.0		ug/L			08/24/22 00:19	4
Dichlorodifluoromethane	ND		4.0		ug/L			08/24/22 00:19	4
Ethylbenzene	ND		2.0		ug/L			08/24/22 00:19	4
Isopropylbenzene	ND		2.0		ug/L			08/24/22 00:19	4
Methylene Chloride	ND		4.0		ug/L			08/24/22 00:19	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			08/24/22 00:19	4
Naphthalene	ND		4.0		ug/L			08/24/22 00:19	4
n-Butylbenzene	ND		2.0		ug/L			08/24/22 00:19	4
N-Propylbenzene	ND		2.0		ug/L			08/24/22 00:19	4
o-Xylene	ND		2.0		ug/L			08/24/22 00:19	4
m,p-Xylene	ND		4.0		ug/L			08/24/22 00:19	4
p-Isopropyltoluene	ND		2.0		ug/L			08/24/22 00:19	4
sec-Butylbenzene	ND		2.0		ug/L			08/24/22 00:19	4
Styrene	ND		2.0		ug/L			08/24/22 00:19	4
trans-1,2-Dichloroethene	ND		2.0		ug/L			08/24/22 00:19	4
trans-1,3-Dichloropropene	ND		2.0		ug/L			08/24/22 00:19	4
tert-Butylbenzene	ND		2.0		ug/L			08/24/22 00:19	4
Tetrachloroethene	ND		2.0		ug/L			08/24/22 00:19	4
Toluene	ND		2.0		ug/L			08/24/22 00:19	4
Trichloroethene	2.0		2.0		ug/L			08/24/22 00:19	4
Trichlorofluoromethane	ND		2.0		ug/L			08/24/22 00:19	4
Vinyl acetate	ND	*+	20		ug/L			08/24/22 00:19	4
Vinyl chloride	ND		2.0		ug/L			08/24/22 00:19	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 132		08/24/22 00:19	4
4-Bromofluorobenzene (Surr)	104		76 - 120		08/24/22 00:19	4
Dibromofluoromethane	102		80 - 120		08/24/22 00:19	4
Toluene-d8 (Surr)	97		80 - 120		08/24/22 00:19	4

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UAX-0100
Date Collected: 08/16/22 10:15
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 00:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 00:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 00:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 00:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 00:47	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 00:47	1
1,1-Dichloroethene	1.5		0.50		ug/L			08/24/22 00:47	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 00:47	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 00:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 00:47	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 00:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 00:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 00:47	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 00:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:47	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 00:47	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 00:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 00:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:47	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 00:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:47	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 00:47	1
2-Butanone	ND		5.0		ug/L			08/24/22 00:47	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 00:47	1
2-Hexanone	ND		6.0		ug/L			08/24/22 00:47	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 00:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 00:47	1
Acetone	ND		8.0		ug/L			08/24/22 00:47	1
Benzene	ND		0.50		ug/L			08/24/22 00:47	1
Bromobenzene	ND		0.50		ug/L			08/24/22 00:47	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 00:47	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 00:47	1
Bromoform	ND		0.50		ug/L			08/24/22 00:47	1
Bromomethane	ND		2.0		ug/L			08/24/22 00:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 00:47	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 00:47	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 00:47	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 00:47	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 00:47	1
Chloroethane	ND		0.50		ug/L			08/24/22 00:47	1
Chloroform	ND		0.50		ug/L			08/24/22 00:47	1
Chloromethane	ND		1.0		ug/L			08/24/22 00:47	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 00:47	1
Dibromomethane	ND		0.50		ug/L			08/24/22 00:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 00:47	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 00:47	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 00:47	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 00:47	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 00:47	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-0100
Date Collected: 08/16/22 10:15
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 00:47	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 00:47	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 00:47	1
o-Xylene	ND		0.50		ug/L			08/24/22 00:47	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 00:47	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 00:47	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 00:47	1
Styrene	ND		0.50		ug/L			08/24/22 00:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 00:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 00:47	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 00:47	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 00:47	1
Toluene	ND		0.50		ug/L			08/24/22 00:47	1
Trichloroethene	2.7		0.50		ug/L			08/24/22 00:47	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 00:47	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 00:47	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		64 - 132		08/24/22 00:47	1
<i>4-Bromofluorobenzene (Surr)</i>	106		76 - 120		08/24/22 00:47	1
<i>Dibromofluoromethane</i>	101		80 - 120		08/24/22 00:47	1
<i>Toluene-d8 (Surr)</i>	103		80 - 120		08/24/22 00:47	1

Client Sample ID: UB-01
Date Collected: 08/16/22 09:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-24
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 01:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 01:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 01:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 01:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 01:15	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 01:15	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 01:15	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 01:15	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 01:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 01:15	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 01:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 01:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 01:15	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 01:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:15	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 01:15	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 01:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 01:15	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:15	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 01:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:15	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 01:15	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UB-01
Date Collected: 08/16/22 09:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-24
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 01:15	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 01:15	1
2-Hexanone	ND		6.0		ug/L			08/24/22 01:15	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 01:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 01:15	1
Acetone	ND		8.0		ug/L			08/24/22 01:15	1
Benzene	ND		0.50		ug/L			08/24/22 01:15	1
Bromobenzene	ND		0.50		ug/L			08/24/22 01:15	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 01:15	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 01:15	1
Bromoform	ND		0.50		ug/L			08/24/22 01:15	1
Bromomethane	ND		2.0		ug/L			08/24/22 01:15	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 01:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 01:15	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 01:15	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 01:15	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 01:15	1
Chloroethane	ND		0.50		ug/L			08/24/22 01:15	1
Chloroform	ND		0.50		ug/L			08/24/22 01:15	1
Chloromethane	ND		1.0		ug/L			08/24/22 01:15	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 01:15	1
Dibromomethane	ND		0.50		ug/L			08/24/22 01:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 01:15	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 01:15	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 01:15	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 01:15	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 01:15	1
Naphthalene	ND		1.0		ug/L			08/24/22 01:15	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 01:15	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 01:15	1
o-Xylene	ND		0.50		ug/L			08/24/22 01:15	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 01:15	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 01:15	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 01:15	1
Styrene	ND		0.50		ug/L			08/24/22 01:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 01:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 01:15	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 01:15	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 01:15	1
Toluene	ND		0.50		ug/L			08/24/22 01:15	1
Trichloroethene	ND		0.50		ug/L			08/24/22 01:15	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 01:15	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 01:15	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 132		08/24/22 01:15	1
4-Bromofluorobenzene (Surr)	107		76 - 120		08/24/22 01:15	1
Dibromofluoromethane	100		80 - 120		08/24/22 01:15	1
Toluene-d8 (Surr)	95		80 - 120		08/24/22 01:15	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RB-081622A
Date Collected: 08/16/22 10:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-25
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 01:42	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 01:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 01:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 01:42	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 01:42	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 01:42	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 01:42	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 01:42	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 01:42	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 01:42	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 01:42	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 01:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 01:42	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 01:42	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:42	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 01:42	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 01:42	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 01:42	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:42	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 01:42	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:42	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 01:42	1
2-Butanone	ND		5.0		ug/L			08/24/22 01:42	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 01:42	1
2-Hexanone	ND		6.0		ug/L			08/24/22 01:42	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 01:42	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 01:42	1
Acetone	ND		8.0		ug/L			08/24/22 01:42	1
Benzene	ND		0.50		ug/L			08/24/22 01:42	1
Bromobenzene	ND		0.50		ug/L			08/24/22 01:42	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 01:42	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 01:42	1
Bromoform	ND		0.50		ug/L			08/24/22 01:42	1
Bromomethane	ND		2.0		ug/L			08/24/22 01:42	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 01:42	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 01:42	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 01:42	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 01:42	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 01:42	1
Chloroethane	ND		0.50		ug/L			08/24/22 01:42	1
Chloroform	ND		0.50		ug/L			08/24/22 01:42	1
Chloromethane	ND		1.0		ug/L			08/24/22 01:42	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 01:42	1
Dibromomethane	ND		0.50		ug/L			08/24/22 01:42	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 01:42	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 01:42	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 01:42	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 01:42	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 01:42	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-081622A
Date Collected: 08/16/22 10:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-25
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 01:42	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 01:42	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 01:42	1
o-Xylene	ND		0.50		ug/L			08/24/22 01:42	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 01:42	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 01:42	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 01:42	1
Styrene	ND		0.50		ug/L			08/24/22 01:42	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 01:42	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 01:42	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 01:42	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 01:42	1
Toluene	ND		0.50		ug/L			08/24/22 01:42	1
Trichloroethene	ND		0.50		ug/L			08/24/22 01:42	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 01:42	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 01:42	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 132		08/24/22 01:42	1
4-Bromofluorobenzene (Surr)	109		76 - 120		08/24/22 01:42	1
Dibromofluoromethane	98		80 - 120		08/24/22 01:42	1
Toluene-d8 (Surr)	96		80 - 120		08/24/22 01:42	1

Client Sample ID: S-14
Date Collected: 08/16/22 11:34
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-26
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			08/24/22 02:10	8
1,1,1-Trichloroethane	ND		4.0		ug/L			08/24/22 02:10	8
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			08/24/22 02:10	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0		ug/L			08/24/22 02:10	8
1,1,2-Trichloroethane	ND		4.0		ug/L			08/24/22 02:10	8
1,1-Dichloroethane	ND		4.0		ug/L			08/24/22 02:10	8
1,1-Dichloroethene	ND		4.0		ug/L			08/24/22 02:10	8
1,1-Dichloropropene	ND		4.0		ug/L			08/24/22 02:10	8
1,2,3-Trichlorobenzene	ND		4.0		ug/L			08/24/22 02:10	8
1,2,3-Trichloropropane	ND		4.0		ug/L			08/24/22 02:10	8
1,2,4-Trichlorobenzene	ND		4.0		ug/L			08/24/22 02:10	8
1,2,4-Trimethylbenzene	ND		4.0		ug/L			08/24/22 02:10	8
1,2-Dibromo-3-Chloropropane	ND		8.0		ug/L			08/24/22 02:10	8
1,2-Dibromoethane	ND		4.0		ug/L			08/24/22 02:10	8
1,2-Dichlorobenzene	ND		4.0		ug/L			08/24/22 02:10	8
1,2-Dichloroethane	ND		4.0		ug/L			08/24/22 02:10	8
1,2-Dichloropropane	ND		4.0		ug/L			08/24/22 02:10	8
1,3,5-Trimethylbenzene	ND		4.0		ug/L			08/24/22 02:10	8
1,3-Dichlorobenzene	ND		4.0		ug/L			08/24/22 02:10	8
1,3-Dichloropropane	ND		4.0		ug/L			08/24/22 02:10	8
1,4-Dichlorobenzene	ND		4.0		ug/L			08/24/22 02:10	8
2,2-Dichloropropane	ND		4.0		ug/L			08/24/22 02:10	8

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-14
Date Collected: 08/16/22 11:34
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-26
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		40		ug/L			08/24/22 02:10	8
2-Chlorotoluene	ND		4.0		ug/L			08/24/22 02:10	8
2-Hexanone	ND		48		ug/L			08/24/22 02:10	8
4-Chlorotoluene	ND		4.0		ug/L			08/24/22 02:10	8
4-Methyl-2-pentanone	ND		40		ug/L			08/24/22 02:10	8
Acetone	ND		64		ug/L			08/24/22 02:10	8
Benzene	ND		4.0		ug/L			08/24/22 02:10	8
Bromobenzene	ND		4.0		ug/L			08/24/22 02:10	8
Bromochloromethane	ND		8.0		ug/L			08/24/22 02:10	8
Bromodichloromethane	ND		4.0		ug/L			08/24/22 02:10	8
Bromoform	ND		4.0		ug/L			08/24/22 02:10	8
Bromomethane	ND		16		ug/L			08/24/22 02:10	8
cis-1,2-Dichloroethene	ND		4.0		ug/L			08/24/22 02:10	8
cis-1,3-Dichloropropene	ND		4.0		ug/L			08/24/22 02:10	8
Carbon disulfide	ND		8.0		ug/L			08/24/22 02:10	8
Carbon tetrachloride	ND		4.0		ug/L			08/24/22 02:10	8
Chlorobenzene	ND		4.0		ug/L			08/24/22 02:10	8
Chloroethane	ND		4.0		ug/L			08/24/22 02:10	8
Chloroform	ND		4.0		ug/L			08/24/22 02:10	8
Chloromethane	ND		8.0		ug/L			08/24/22 02:10	8
Dibromochloromethane	ND		4.0		ug/L			08/24/22 02:10	8
Dibromomethane	ND		4.0		ug/L			08/24/22 02:10	8
Dichlorodifluoromethane	ND		8.0		ug/L			08/24/22 02:10	8
Ethylbenzene	ND		4.0		ug/L			08/24/22 02:10	8
Isopropylbenzene	ND		4.0		ug/L			08/24/22 02:10	8
Methylene Chloride	ND		8.0		ug/L			08/24/22 02:10	8
Methyl-t-Butyl Ether (MTBE)	ND		4.0		ug/L			08/24/22 02:10	8
Naphthalene	ND		8.0		ug/L			08/24/22 02:10	8
n-Butylbenzene	ND		4.0		ug/L			08/24/22 02:10	8
N-Propylbenzene	ND		4.0		ug/L			08/24/22 02:10	8
o-Xylene	ND		4.0		ug/L			08/24/22 02:10	8
m,p-Xylene	ND		8.0		ug/L			08/24/22 02:10	8
p-Isopropyltoluene	ND		4.0		ug/L			08/24/22 02:10	8
sec-Butylbenzene	ND		4.0		ug/L			08/24/22 02:10	8
Styrene	ND		4.0		ug/L			08/24/22 02:10	8
trans-1,2-Dichloroethene	ND		4.0		ug/L			08/24/22 02:10	8
trans-1,3-Dichloropropene	ND		4.0		ug/L			08/24/22 02:10	8
tert-Butylbenzene	ND		4.0		ug/L			08/24/22 02:10	8
Tetrachloroethene	ND		4.0		ug/L			08/24/22 02:10	8
Toluene	ND		4.0		ug/L			08/24/22 02:10	8
Trichloroethene	ND		4.0		ug/L			08/24/22 02:10	8
Trichlorofluoromethane	ND		4.0		ug/L			08/24/22 02:10	8
Vinyl acetate	ND	*+	40		ug/L			08/24/22 02:10	8
Vinyl chloride	ND		4.0		ug/L			08/24/22 02:10	8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	96		64 - 132		08/24/22 02:10	8
<i>4-Bromofluorobenzene (Surr)</i>	102		76 - 120		08/24/22 02:10	8
<i>Dibromofluoromethane</i>	99		80 - 120		08/24/22 02:10	8
<i>Toluene-d8 (Surr)</i>	97		80 - 120		08/24/22 02:10	8

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LAX-03
Date Collected: 08/16/22 11:55
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-27
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 00:03	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 00:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 00:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 00:03	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 00:03	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 00:03	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 00:03	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 00:03	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 00:03	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 00:03	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 00:03	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 00:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 00:03	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 00:03	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:03	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 00:03	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 00:03	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 00:03	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:03	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 00:03	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:03	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 00:03	1
2-Butanone	ND		5.0		ug/L			08/24/22 00:03	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 00:03	1
2-Hexanone	ND		6.0		ug/L			08/24/22 00:03	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 00:03	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 00:03	1
Acetone	ND		8.0		ug/L			08/24/22 00:03	1
Benzene	ND		0.50		ug/L			08/24/22 00:03	1
Bromobenzene	ND		0.50		ug/L			08/24/22 00:03	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 00:03	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 00:03	1
Bromoform	ND		0.50		ug/L			08/24/22 00:03	1
Bromomethane	ND		2.0		ug/L			08/24/22 00:03	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 00:03	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 00:03	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 00:03	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 00:03	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 00:03	1
Chloroethane	ND		0.50		ug/L			08/24/22 00:03	1
Chloroform	ND		0.50		ug/L			08/24/22 00:03	1
Chloromethane	ND		1.0		ug/L			08/24/22 00:03	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 00:03	1
Dibromomethane	ND		0.50		ug/L			08/24/22 00:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 00:03	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 00:03	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 00:03	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 00:03	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 00:03	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-03
Date Collected: 08/16/22 11:55
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-27
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 00:03	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 00:03	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 00:03	1
o-Xylene	ND		0.50		ug/L			08/24/22 00:03	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 00:03	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 00:03	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 00:03	1
Styrene	ND		0.50		ug/L			08/24/22 00:03	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 00:03	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 00:03	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 00:03	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 00:03	1
Toluene	ND		0.50		ug/L			08/24/22 00:03	1
Trichloroethene	ND		0.50		ug/L			08/24/22 00:03	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 00:03	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 00:03	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		08/24/22 00:03	1
4-Bromofluorobenzene (Surr)	86		76 - 120		08/24/22 00:03	1
Dibromofluoromethane	104		80 - 120		08/24/22 00:03	1
Toluene-d8 (Surr)	99		80 - 120		08/24/22 00:03	1

Client Sample ID: UAX-02
Date Collected: 08/16/22 12:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-28
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 00:31	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 00:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 00:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 00:31	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 00:31	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 00:31	1
1,1-Dichloroethene	1.3		0.50		ug/L			08/24/22 00:31	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 00:31	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 00:31	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 00:31	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 00:31	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 00:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 00:31	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 00:31	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:31	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 00:31	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 00:31	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 00:31	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:31	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 00:31	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:31	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 00:31	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-02
Date Collected: 08/16/22 12:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-28
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 00:31	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 00:31	1
2-Hexanone	ND		6.0		ug/L			08/24/22 00:31	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 00:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 00:31	1
Acetone	ND		8.0		ug/L			08/24/22 00:31	1
Benzene	ND		0.50		ug/L			08/24/22 00:31	1
Bromobenzene	ND		0.50		ug/L			08/24/22 00:31	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 00:31	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 00:31	1
Bromoform	ND		0.50		ug/L			08/24/22 00:31	1
Bromomethane	ND		2.0		ug/L			08/24/22 00:31	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 00:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 00:31	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 00:31	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 00:31	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 00:31	1
Chloroethane	ND		0.50		ug/L			08/24/22 00:31	1
Chloroform	ND		0.50		ug/L			08/24/22 00:31	1
Chloromethane	ND		1.0		ug/L			08/24/22 00:31	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 00:31	1
Dibromomethane	ND		0.50		ug/L			08/24/22 00:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 00:31	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 00:31	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 00:31	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 00:31	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 00:31	1
Naphthalene	ND		1.0		ug/L			08/24/22 00:31	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 00:31	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 00:31	1
o-Xylene	ND		0.50		ug/L			08/24/22 00:31	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 00:31	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 00:31	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 00:31	1
Styrene	ND		0.50		ug/L			08/24/22 00:31	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 00:31	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 00:31	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 00:31	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 00:31	1
Toluene	ND		0.50		ug/L			08/24/22 00:31	1
Trichloroethene	4.3		0.50		ug/L			08/24/22 00:31	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 00:31	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 00:31	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 132		08/24/22 00:31	1
4-Bromofluorobenzene (Surr)	91		76 - 120		08/24/22 00:31	1
Dibromofluoromethane	103		80 - 120		08/24/22 00:31	1
Toluene-d8 (Surr)	98		80 - 120		08/24/22 00:31	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: AB-03
Date Collected: 08/16/22 12:25
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-29
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 00:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 00:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 00:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 00:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 00:58	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 00:58	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 00:58	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 00:58	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 00:58	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 00:58	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 00:58	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 00:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 00:58	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 00:58	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:58	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 00:58	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 00:58	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 00:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:58	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 00:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 00:58	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 00:58	1
2-Butanone	ND		5.0		ug/L			08/24/22 00:58	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 00:58	1
2-Hexanone	ND		6.0		ug/L			08/24/22 00:58	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 00:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 00:58	1
Acetone	ND		8.0		ug/L			08/24/22 00:58	1
Benzene	ND		0.50		ug/L			08/24/22 00:58	1
Bromobenzene	ND		0.50		ug/L			08/24/22 00:58	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 00:58	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 00:58	1
Bromoform	ND		0.50		ug/L			08/24/22 00:58	1
Bromomethane	ND		2.0		ug/L			08/24/22 00:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 00:58	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 00:58	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 00:58	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 00:58	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 00:58	1
Chloroethane	ND		0.50		ug/L			08/24/22 00:58	1
Chloroform	ND		0.50		ug/L			08/24/22 00:58	1
Chloromethane	ND		1.0		ug/L			08/24/22 00:58	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 00:58	1
Dibromomethane	ND		0.50		ug/L			08/24/22 00:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 00:58	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 00:58	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 00:58	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 00:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 00:58	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: AB-03
Date Collected: 08/16/22 12:25
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-29
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 00:58	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 00:58	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 00:58	1
o-Xylene	ND		0.50		ug/L			08/24/22 00:58	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 00:58	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 00:58	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 00:58	1
Styrene	ND		0.50		ug/L			08/24/22 00:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 00:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 00:58	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 00:58	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 00:58	1
Toluene	ND		0.50		ug/L			08/24/22 00:58	1
Trichloroethene	ND		0.50		ug/L			08/24/22 00:58	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 00:58	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 00:58	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		64 - 132		08/24/22 00:58	1
<i>4-Bromofluorobenzene (Surr)</i>	94		76 - 120		08/24/22 00:58	1
<i>Dibromofluoromethane</i>	106		80 - 120		08/24/22 00:58	1
<i>Toluene-d8 (Surr)</i>	103		80 - 120		08/24/22 00:58	1

Client Sample ID: HEW-02
Date Collected: 08/16/22 13:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-30
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 01:25	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 01:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 01:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 01:25	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 01:25	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 01:25	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 01:25	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 01:25	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 01:25	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 01:25	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 01:25	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 01:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 01:25	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 01:25	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:25	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 01:25	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 01:25	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 01:25	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:25	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 01:25	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 01:25	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 01:25	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-02
Date Collected: 08/16/22 13:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-30
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 01:25	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 01:25	1
2-Hexanone	ND		6.0		ug/L			08/24/22 01:25	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 01:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 01:25	1
Acetone	ND		8.0		ug/L			08/24/22 01:25	1
Benzene	ND		0.50		ug/L			08/24/22 01:25	1
Bromobenzene	ND		0.50		ug/L			08/24/22 01:25	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 01:25	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 01:25	1
Bromoform	ND		0.50		ug/L			08/24/22 01:25	1
Bromomethane	ND		2.0		ug/L			08/24/22 01:25	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 01:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 01:25	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 01:25	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 01:25	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 01:25	1
Chloroethane	ND		0.50		ug/L			08/24/22 01:25	1
Chloroform	ND		0.50		ug/L			08/24/22 01:25	1
Chloromethane	ND		1.0		ug/L			08/24/22 01:25	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 01:25	1
Dibromomethane	ND		0.50		ug/L			08/24/22 01:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 01:25	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 01:25	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 01:25	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 01:25	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 01:25	1
Naphthalene	ND		1.0		ug/L			08/24/22 01:25	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 01:25	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 01:25	1
o-Xylene	ND		0.50		ug/L			08/24/22 01:25	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 01:25	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 01:25	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 01:25	1
Styrene	ND		0.50		ug/L			08/24/22 01:25	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 01:25	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 01:25	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 01:25	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 01:25	1
Toluene	ND		0.50		ug/L			08/24/22 01:25	1
Trichloroethene	98		0.50		ug/L			08/24/22 01:25	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 01:25	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 01:25	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 132		08/24/22 01:25	1
4-Bromofluorobenzene (Surr)	92		76 - 120		08/24/22 01:25	1
Dibromofluoromethane	104		80 - 120		08/24/22 01:25	1
Toluene-d8 (Surr)	97		80 - 120		08/24/22 01:25	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-05
Date Collected: 08/16/22 14:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-31
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 01:53	2
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 01:53	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 01:53	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 01:53	2
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 01:53	2
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 01:53	2
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 01:53	2
1,1-Dichloropropene	ND		1.0		ug/L			08/24/22 01:53	2
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/24/22 01:53	2
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 01:53	2
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 01:53	2
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/24/22 01:53	2
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/24/22 01:53	2
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 01:53	2
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 01:53	2
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 01:53	2
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 01:53	2
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/24/22 01:53	2
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 01:53	2
1,3-Dichloropropane	ND		1.0		ug/L			08/24/22 01:53	2
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 01:53	2
2,2-Dichloropropane	ND		1.0		ug/L			08/24/22 01:53	2
2-Butanone	ND		10		ug/L			08/24/22 01:53	2
2-Chlorotoluene	ND		1.0		ug/L			08/24/22 01:53	2
2-Hexanone	ND		12		ug/L			08/24/22 01:53	2
4-Chlorotoluene	ND		1.0		ug/L			08/24/22 01:53	2
4-Methyl-2-pentanone	ND		10		ug/L			08/24/22 01:53	2
Acetone	ND		16		ug/L			08/24/22 01:53	2
Benzene	ND		1.0		ug/L			08/24/22 01:53	2
Bromobenzene	ND		1.0		ug/L			08/24/22 01:53	2
Bromochloromethane	ND		2.0		ug/L			08/24/22 01:53	2
Bromodichloromethane	ND		1.0		ug/L			08/24/22 01:53	2
Bromoform	ND		1.0		ug/L			08/24/22 01:53	2
Bromomethane	ND		4.0		ug/L			08/24/22 01:53	2
cis-1,2-Dichloroethene	2.6		1.0		ug/L			08/24/22 01:53	2
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 01:53	2
Carbon disulfide	ND		2.0		ug/L			08/24/22 01:53	2
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 01:53	2
Chlorobenzene	ND		1.0		ug/L			08/24/22 01:53	2
Chloroethane	ND		1.0		ug/L			08/24/22 01:53	2
Chloroform	ND		1.0		ug/L			08/24/22 01:53	2
Chloromethane	ND		2.0		ug/L			08/24/22 01:53	2
Dibromochloromethane	ND		1.0		ug/L			08/24/22 01:53	2
Dibromomethane	ND		1.0		ug/L			08/24/22 01:53	2
Dichlorodifluoromethane	ND		2.0		ug/L			08/24/22 01:53	2
Ethylbenzene	ND		1.0		ug/L			08/24/22 01:53	2
Isopropylbenzene	ND		1.0		ug/L			08/24/22 01:53	2
Methylene Chloride	ND		2.0		ug/L			08/24/22 01:53	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/24/22 01:53	2

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-05
Date Collected: 08/16/22 14:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-31
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0		ug/L			08/24/22 01:53	2
n-Butylbenzene	ND		1.0		ug/L			08/24/22 01:53	2
N-Propylbenzene	ND		1.0		ug/L			08/24/22 01:53	2
o-Xylene	ND		1.0		ug/L			08/24/22 01:53	2
m,p-Xylene	ND		2.0		ug/L			08/24/22 01:53	2
p-Isopropyltoluene	ND		1.0		ug/L			08/24/22 01:53	2
sec-Butylbenzene	ND		1.0		ug/L			08/24/22 01:53	2
Styrene	ND		1.0		ug/L			08/24/22 01:53	2
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 01:53	2
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 01:53	2
tert-Butylbenzene	ND		1.0		ug/L			08/24/22 01:53	2
Tetrachloroethene	ND		1.0		ug/L			08/24/22 01:53	2
Toluene	ND		1.0		ug/L			08/24/22 01:53	2
Trichloroethene	100		1.0		ug/L			08/24/22 01:53	2
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 01:53	2
Vinyl acetate	ND		10		ug/L			08/24/22 01:53	2
Vinyl chloride	ND		1.0		ug/L			08/24/22 01:53	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		08/24/22 01:53	2
4-Bromofluorobenzene (Surr)	94		76 - 120		08/24/22 01:53	2
Dibromofluoromethane	107		80 - 120		08/24/22 01:53	2
Toluene-d8 (Surr)	99		80 - 120		08/24/22 01:53	2

Client Sample ID: HEW-0500
Date Collected: 08/16/22 14:30
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-32
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 02:20	2
1,1,1-Trichloroethane	ND		1.0		ug/L			08/24/22 02:20	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/24/22 02:20	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			08/24/22 02:20	2
1,1,2-Trichloroethane	ND		1.0		ug/L			08/24/22 02:20	2
1,1-Dichloroethane	ND		1.0		ug/L			08/24/22 02:20	2
1,1-Dichloroethene	ND		1.0		ug/L			08/24/22 02:20	2
1,1-Dichloropropene	ND		1.0		ug/L			08/24/22 02:20	2
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/24/22 02:20	2
1,2,3-Trichloropropane	ND		1.0		ug/L			08/24/22 02:20	2
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/24/22 02:20	2
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/24/22 02:20	2
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/24/22 02:20	2
1,2-Dibromoethane	ND		1.0		ug/L			08/24/22 02:20	2
1,2-Dichlorobenzene	ND		1.0		ug/L			08/24/22 02:20	2
1,2-Dichloroethane	ND		1.0		ug/L			08/24/22 02:20	2
1,2-Dichloropropane	ND		1.0		ug/L			08/24/22 02:20	2
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/24/22 02:20	2
1,3-Dichlorobenzene	ND		1.0		ug/L			08/24/22 02:20	2
1,3-Dichloropropane	ND		1.0		ug/L			08/24/22 02:20	2
1,4-Dichlorobenzene	ND		1.0		ug/L			08/24/22 02:20	2
2,2-Dichloropropane	ND		1.0		ug/L			08/24/22 02:20	2

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-0500
Date Collected: 08/16/22 14:30
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-32
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			08/24/22 02:20	2
2-Chlorotoluene	ND		1.0		ug/L			08/24/22 02:20	2
2-Hexanone	ND		12		ug/L			08/24/22 02:20	2
4-Chlorotoluene	ND		1.0		ug/L			08/24/22 02:20	2
4-Methyl-2-pentanone	ND		10		ug/L			08/24/22 02:20	2
Acetone	ND		16		ug/L			08/24/22 02:20	2
Benzene	ND		1.0		ug/L			08/24/22 02:20	2
Bromobenzene	ND		1.0		ug/L			08/24/22 02:20	2
Bromochloromethane	ND		2.0		ug/L			08/24/22 02:20	2
Bromodichloromethane	ND		1.0		ug/L			08/24/22 02:20	2
Bromoform	ND		1.0		ug/L			08/24/22 02:20	2
Bromomethane	ND		4.0		ug/L			08/24/22 02:20	2
cis-1,2-Dichloroethene	4.6		1.0		ug/L			08/24/22 02:20	2
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 02:20	2
Carbon disulfide	ND		2.0		ug/L			08/24/22 02:20	2
Carbon tetrachloride	ND		1.0		ug/L			08/24/22 02:20	2
Chlorobenzene	ND		1.0		ug/L			08/24/22 02:20	2
Chloroethane	ND		1.0		ug/L			08/24/22 02:20	2
Chloroform	ND		1.0		ug/L			08/24/22 02:20	2
Chloromethane	ND		2.0		ug/L			08/24/22 02:20	2
Dibromochloromethane	ND		1.0		ug/L			08/24/22 02:20	2
Dibromomethane	ND		1.0		ug/L			08/24/22 02:20	2
Dichlorodifluoromethane	ND		2.0		ug/L			08/24/22 02:20	2
Ethylbenzene	ND		1.0		ug/L			08/24/22 02:20	2
Isopropylbenzene	ND		1.0		ug/L			08/24/22 02:20	2
Methylene Chloride	ND		2.0		ug/L			08/24/22 02:20	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/24/22 02:20	2
Naphthalene	ND		2.0		ug/L			08/24/22 02:20	2
n-Butylbenzene	ND		1.0		ug/L			08/24/22 02:20	2
N-Propylbenzene	ND		1.0		ug/L			08/24/22 02:20	2
o-Xylene	ND		1.0		ug/L			08/24/22 02:20	2
m,p-Xylene	ND		2.0		ug/L			08/24/22 02:20	2
p-Isopropyltoluene	ND		1.0		ug/L			08/24/22 02:20	2
sec-Butylbenzene	ND		1.0		ug/L			08/24/22 02:20	2
Styrene	ND		1.0		ug/L			08/24/22 02:20	2
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/24/22 02:20	2
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/24/22 02:20	2
tert-Butylbenzene	ND		1.0		ug/L			08/24/22 02:20	2
Tetrachloroethene	ND		1.0		ug/L			08/24/22 02:20	2
Toluene	ND		1.0		ug/L			08/24/22 02:20	2
Trichloroethene	110		1.0		ug/L			08/24/22 02:20	2
Trichlorofluoromethane	ND		1.0		ug/L			08/24/22 02:20	2
Vinyl acetate	ND		10		ug/L			08/24/22 02:20	2
Vinyl chloride	ND		1.0		ug/L			08/24/22 02:20	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		08/24/22 02:20	2
4-Bromofluorobenzene (Surr)	91		76 - 120		08/24/22 02:20	2
Dibromofluoromethane	104		80 - 120		08/24/22 02:20	2
Toluene-d8 (Surr)	102		80 - 120		08/24/22 02:20	2

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-18
Date Collected: 08/16/22 14:35
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-33
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 02:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 02:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 02:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 02:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 02:48	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 02:48	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 02:48	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 02:48	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 02:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 02:48	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 02:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 02:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 02:48	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 02:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 02:48	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 02:48	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 02:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 02:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 02:48	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 02:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 02:48	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 02:48	1
2-Butanone	ND		5.0		ug/L			08/24/22 02:48	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 02:48	1
2-Hexanone	ND		6.0		ug/L			08/24/22 02:48	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 02:48	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 02:48	1
Acetone	ND		8.0		ug/L			08/24/22 02:48	1
Benzene	ND		0.50		ug/L			08/24/22 02:48	1
Bromobenzene	ND		0.50		ug/L			08/24/22 02:48	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 02:48	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 02:48	1
Bromoform	ND		0.50		ug/L			08/24/22 02:48	1
Bromomethane	ND		2.0		ug/L			08/24/22 02:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 02:48	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 02:48	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 02:48	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 02:48	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 02:48	1
Chloroethane	ND		0.50		ug/L			08/24/22 02:48	1
Chloroform	ND		0.50		ug/L			08/24/22 02:48	1
Chloromethane	ND		1.0		ug/L			08/24/22 02:48	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 02:48	1
Dibromomethane	ND		0.50		ug/L			08/24/22 02:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 02:48	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 02:48	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 02:48	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 02:48	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 02:48	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-18
Date Collected: 08/16/22 14:35
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-33
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 02:48	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 02:48	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 02:48	1
o-Xylene	ND		0.50		ug/L			08/24/22 02:48	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 02:48	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 02:48	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 02:48	1
Styrene	ND		0.50		ug/L			08/24/22 02:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 02:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 02:48	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 02:48	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 02:48	1
Toluene	ND		0.50		ug/L			08/24/22 02:48	1
Trichloroethene	ND		0.50		ug/L			08/24/22 02:48	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 02:48	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 02:48	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		64 - 132		08/24/22 02:48	1
<i>4-Bromofluorobenzene (Surr)</i>	91		76 - 120		08/24/22 02:48	1
<i>Dibromofluoromethane</i>	104		80 - 120		08/24/22 02:48	1
<i>Toluene-d8 (Surr)</i>	97		80 - 120		08/24/22 02:48	1

Client Sample ID: S-05
Date Collected: 08/16/22 14:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-34
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 03:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 03:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 03:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 03:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 03:15	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 03:15	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 03:15	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 03:15	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 03:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 03:15	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 03:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 03:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 03:15	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 03:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 03:15	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 03:15	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 03:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 03:15	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 03:15	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 03:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 03:15	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 03:15	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-05
Date Collected: 08/16/22 14:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-34
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 03:15	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 03:15	1
2-Hexanone	ND		6.0		ug/L			08/24/22 03:15	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 03:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 03:15	1
Acetone	ND		8.0		ug/L			08/24/22 03:15	1
Benzene	ND		0.50		ug/L			08/24/22 03:15	1
Bromobenzene	ND		0.50		ug/L			08/24/22 03:15	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 03:15	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 03:15	1
Bromoform	ND		0.50		ug/L			08/24/22 03:15	1
Bromomethane	ND		2.0		ug/L			08/24/22 03:15	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 03:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 03:15	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 03:15	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 03:15	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 03:15	1
Chloroethane	ND		0.50		ug/L			08/24/22 03:15	1
Chloroform	ND		0.50		ug/L			08/24/22 03:15	1
Chloromethane	ND		1.0		ug/L			08/24/22 03:15	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 03:15	1
Dibromomethane	ND		0.50		ug/L			08/24/22 03:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 03:15	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 03:15	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 03:15	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 03:15	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 03:15	1
Naphthalene	ND		1.0		ug/L			08/24/22 03:15	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 03:15	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 03:15	1
o-Xylene	ND		0.50		ug/L			08/24/22 03:15	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 03:15	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 03:15	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 03:15	1
Styrene	ND		0.50		ug/L			08/24/22 03:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 03:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 03:15	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 03:15	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 03:15	1
Toluene	ND		0.50		ug/L			08/24/22 03:15	1
Trichloroethene	ND		0.50		ug/L			08/24/22 03:15	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 03:15	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 03:15	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	108		64 - 132		08/24/22 03:15	1
<i>4-Bromofluorobenzene (Surr)</i>	93		76 - 120		08/24/22 03:15	1
<i>Dibromofluoromethane</i>	106		80 - 120		08/24/22 03:15	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120		08/24/22 03:15	1

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-04
Date Collected: 08/16/22 15:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-35
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 13:01	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 13:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 13:01	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 13:01	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 13:01	1
1,1-Dichloroethene	1.3		0.50		ug/L			08/24/22 13:01	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 13:01	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 13:01	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 13:01	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 13:01	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 13:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 13:01	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 13:01	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:01	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 13:01	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 13:01	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 13:01	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:01	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 13:01	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:01	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 13:01	1
2-Butanone	ND		5.0		ug/L			08/24/22 13:01	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 13:01	1
2-Hexanone	ND		6.0		ug/L			08/24/22 13:01	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 13:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 13:01	1
Acetone	ND		8.0		ug/L			08/24/22 13:01	1
Benzene	ND		0.50		ug/L			08/24/22 13:01	1
Bromobenzene	ND		0.50		ug/L			08/24/22 13:01	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 13:01	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 13:01	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 13:01	1
Bromomethane	ND		2.0		ug/L			08/24/22 13:01	1
cis-1,2-Dichloroethene	0.58		0.50		ug/L			08/24/22 13:01	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 13:01	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 13:01	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 13:01	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 13:01	1
Chloroethane	ND		0.50		ug/L			08/24/22 13:01	1
Chloroform	ND		0.50		ug/L			08/24/22 13:01	1
Chloromethane	ND		1.0		ug/L			08/24/22 13:01	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 13:01	1
Dibromomethane	ND		0.50		ug/L			08/24/22 13:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 13:01	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 13:01	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 13:01	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 13:01	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 13:01	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-04
Date Collected: 08/16/22 15:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-35
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 13:01	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 13:01	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 13:01	1
o-Xylene	ND		0.50		ug/L			08/24/22 13:01	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 13:01	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 13:01	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 13:01	1
Styrene	ND		0.50		ug/L			08/24/22 13:01	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 13:01	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 13:01	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 13:01	1
Tetrachloroethene	1.3		0.50		ug/L			08/24/22 13:01	1
Toluene	ND		0.50		ug/L			08/24/22 13:01	1
Trichloroethene	73		0.50		ug/L			08/24/22 13:01	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 13:01	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 13:01	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 132		08/24/22 13:01	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/24/22 13:01	1
Dibromofluoromethane	109		80 - 120		08/24/22 13:01	1
Toluene-d8 (Surr)	102		80 - 120		08/24/22 13:01	1

Client Sample ID: UA-08D
Date Collected: 08/16/22 15:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-36
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 04:10	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 04:10	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 04:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 04:10	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 04:10	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 04:10	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 04:10	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 04:10	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 04:10	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 04:10	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 04:10	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 04:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 04:10	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 04:10	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 04:10	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 04:10	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 04:10	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 04:10	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 04:10	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 04:10	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 04:10	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 04:10	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-08D
Date Collected: 08/16/22 15:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-36
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 04:10	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 04:10	1
2-Hexanone	ND		6.0		ug/L			08/24/22 04:10	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 04:10	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 04:10	1
Acetone	ND		8.0		ug/L			08/24/22 04:10	1
Benzene	ND		0.50		ug/L			08/24/22 04:10	1
Bromobenzene	ND		0.50		ug/L			08/24/22 04:10	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 04:10	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 04:10	1
Bromoform	ND		0.50		ug/L			08/24/22 04:10	1
Bromomethane	ND		2.0		ug/L			08/24/22 04:10	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 04:10	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 04:10	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 04:10	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 04:10	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 04:10	1
Chloroethane	ND		0.50		ug/L			08/24/22 04:10	1
Chloroform	ND		0.50		ug/L			08/24/22 04:10	1
Chloromethane	ND		1.0		ug/L			08/24/22 04:10	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 04:10	1
Dibromomethane	ND		0.50		ug/L			08/24/22 04:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 04:10	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 04:10	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 04:10	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 04:10	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 04:10	1
Naphthalene	ND		1.0		ug/L			08/24/22 04:10	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 04:10	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 04:10	1
o-Xylene	ND		0.50		ug/L			08/24/22 04:10	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 04:10	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 04:10	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 04:10	1
Styrene	ND		0.50		ug/L			08/24/22 04:10	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 04:10	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 04:10	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 04:10	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 04:10	1
Toluene	ND		0.50		ug/L			08/24/22 04:10	1
Trichloroethene	0.70		0.50		ug/L			08/24/22 04:10	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 04:10	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 04:10	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		08/24/22 04:10	1
4-Bromofluorobenzene (Surr)	94		76 - 120		08/24/22 04:10	1
Dibromofluoromethane	105		80 - 120		08/24/22 04:10	1
Toluene-d8 (Surr)	100		80 - 120		08/24/22 04:10	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UA-08
Date Collected: 08/16/22 15:55
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-37
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 04:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 04:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 04:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 04:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 04:37	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 04:37	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 04:37	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 04:37	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 04:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 04:37	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 04:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 04:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 04:37	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 04:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 04:37	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 04:37	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 04:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 04:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 04:37	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 04:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 04:37	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 04:37	1
2-Butanone	ND		5.0		ug/L			08/24/22 04:37	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 04:37	1
2-Hexanone	ND		6.0		ug/L			08/24/22 04:37	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 04:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 04:37	1
Acetone	ND		8.0		ug/L			08/24/22 04:37	1
Benzene	ND		0.50		ug/L			08/24/22 04:37	1
Bromobenzene	ND		0.50		ug/L			08/24/22 04:37	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 04:37	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 04:37	1
Bromoform	ND		0.50		ug/L			08/24/22 04:37	1
Bromomethane	ND		2.0		ug/L			08/24/22 04:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 04:37	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 04:37	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 04:37	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 04:37	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 04:37	1
Chloroethane	ND		0.50		ug/L			08/24/22 04:37	1
Chloroform	ND		0.50		ug/L			08/24/22 04:37	1
Chloromethane	ND		1.0		ug/L			08/24/22 04:37	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 04:37	1
Dibromomethane	ND		0.50		ug/L			08/24/22 04:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 04:37	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 04:37	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 04:37	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 04:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 04:37	1

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-08
Date Collected: 08/16/22 15:55
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-37
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 04:37	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 04:37	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 04:37	1
o-Xylene	ND		0.50		ug/L			08/24/22 04:37	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 04:37	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 04:37	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 04:37	1
Styrene	ND		0.50		ug/L			08/24/22 04:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 04:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 04:37	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 04:37	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 04:37	1
Toluene	ND		0.50		ug/L			08/24/22 04:37	1
Trichloroethene	3.2		0.50		ug/L			08/24/22 04:37	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 04:37	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 04:37	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		64 - 132		08/24/22 04:37	1
<i>4-Bromofluorobenzene (Surr)</i>	93		76 - 120		08/24/22 04:37	1
<i>Dibromofluoromethane</i>	105		80 - 120		08/24/22 04:37	1
<i>Toluene-d8 (Surr)</i>	101		80 - 120		08/24/22 04:37	1

Client Sample ID: UA-0800
Date Collected: 08/16/22 16:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-38
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 05:04	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 05:04	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 05:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 05:04	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 05:04	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 05:04	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 05:04	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 05:04	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 05:04	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 05:04	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 05:04	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 05:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 05:04	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 05:04	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:04	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 05:04	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 05:04	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 05:04	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:04	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 05:04	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:04	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 05:04	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-0800
Date Collected: 08/16/22 16:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-38
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 05:04	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 05:04	1
2-Hexanone	ND		6.0		ug/L			08/24/22 05:04	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 05:04	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 05:04	1
Acetone	ND		8.0		ug/L			08/24/22 05:04	1
Benzene	ND		0.50		ug/L			08/24/22 05:04	1
Bromobenzene	ND		0.50		ug/L			08/24/22 05:04	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 05:04	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 05:04	1
Bromoform	ND		0.50		ug/L			08/24/22 05:04	1
Bromomethane	ND		2.0		ug/L			08/24/22 05:04	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 05:04	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 05:04	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 05:04	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 05:04	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 05:04	1
Chloroethane	ND		0.50		ug/L			08/24/22 05:04	1
Chloroform	ND		0.50		ug/L			08/24/22 05:04	1
Chloromethane	ND		1.0		ug/L			08/24/22 05:04	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 05:04	1
Dibromomethane	ND		0.50		ug/L			08/24/22 05:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 05:04	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 05:04	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 05:04	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 05:04	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 05:04	1
Naphthalene	ND		1.0		ug/L			08/24/22 05:04	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 05:04	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 05:04	1
o-Xylene	ND		0.50		ug/L			08/24/22 05:04	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 05:04	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 05:04	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 05:04	1
Styrene	ND		0.50		ug/L			08/24/22 05:04	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 05:04	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 05:04	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 05:04	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 05:04	1
Toluene	ND		0.50		ug/L			08/24/22 05:04	1
Trichloroethene	0.67		0.50		ug/L			08/24/22 05:04	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 05:04	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 05:04	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 132		08/24/22 05:04	1
4-Bromofluorobenzene (Surr)	91		76 - 120		08/24/22 05:04	1
Dibromofluoromethane	106		80 - 120		08/24/22 05:04	1
Toluene-d8 (Surr)	100		80 - 120		08/24/22 05:04	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SE-04
Date Collected: 08/16/22 16:15
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-39
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 05:32	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 05:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 05:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 05:32	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 05:32	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 05:32	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 05:32	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 05:32	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 05:32	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 05:32	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 05:32	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 05:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 05:32	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 05:32	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:32	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 05:32	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 05:32	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 05:32	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:32	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 05:32	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:32	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 05:32	1
2-Butanone	ND		5.0		ug/L			08/24/22 05:32	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 05:32	1
2-Hexanone	ND		6.0		ug/L			08/24/22 05:32	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 05:32	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 05:32	1
Acetone	ND		8.0		ug/L			08/24/22 05:32	1
Benzene	ND		0.50		ug/L			08/24/22 05:32	1
Bromobenzene	ND		0.50		ug/L			08/24/22 05:32	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 05:32	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 05:32	1
Bromoform	ND		0.50		ug/L			08/24/22 05:32	1
Bromomethane	ND		2.0		ug/L			08/24/22 05:32	1
cis-1,2-Dichloroethene	0.78		0.50		ug/L			08/24/22 05:32	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 05:32	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 05:32	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 05:32	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 05:32	1
Chloroethane	ND		0.50		ug/L			08/24/22 05:32	1
Chloroform	ND		0.50		ug/L			08/24/22 05:32	1
Chloromethane	ND		1.0		ug/L			08/24/22 05:32	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 05:32	1
Dibromomethane	ND		0.50		ug/L			08/24/22 05:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 05:32	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 05:32	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 05:32	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 05:32	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 05:32	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SE-04
Date Collected: 08/16/22 16:15
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-39
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 05:32	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 05:32	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 05:32	1
o-Xylene	ND		0.50		ug/L			08/24/22 05:32	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 05:32	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 05:32	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 05:32	1
Styrene	ND		0.50		ug/L			08/24/22 05:32	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 05:32	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 05:32	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 05:32	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 05:32	1
Toluene	ND		0.50		ug/L			08/24/22 05:32	1
Trichloroethene	6.9		0.50		ug/L			08/24/22 05:32	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 05:32	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 05:32	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		08/24/22 05:32	1
4-Bromofluorobenzene (Surr)	90		76 - 120		08/24/22 05:32	1
Dibromofluoromethane	101		80 - 120		08/24/22 05:32	1
Toluene-d8 (Surr)	101		80 - 120		08/24/22 05:32	1

Client Sample ID: AB-0300
Date Collected: 08/16/22 12:45
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-40
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 05:59	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 05:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 05:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 05:59	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 05:59	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 05:59	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 05:59	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 05:59	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 05:59	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 05:59	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 05:59	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 05:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 05:59	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 05:59	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:59	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 05:59	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 05:59	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 05:59	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:59	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 05:59	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 05:59	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 05:59	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: AB-0300
Date Collected: 08/16/22 12:45
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-40
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 05:59	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 05:59	1
2-Hexanone	ND		6.0		ug/L			08/24/22 05:59	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 05:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 05:59	1
Acetone	ND		8.0		ug/L			08/24/22 05:59	1
Benzene	ND		0.50		ug/L			08/24/22 05:59	1
Bromobenzene	ND		0.50		ug/L			08/24/22 05:59	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 05:59	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 05:59	1
Bromoform	ND		0.50		ug/L			08/24/22 05:59	1
Bromomethane	ND		2.0		ug/L			08/24/22 05:59	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 05:59	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 05:59	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 05:59	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 05:59	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 05:59	1
Chloroethane	ND		0.50		ug/L			08/24/22 05:59	1
Chloroform	ND		0.50		ug/L			08/24/22 05:59	1
Chloromethane	ND		1.0		ug/L			08/24/22 05:59	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 05:59	1
Dibromomethane	ND		0.50		ug/L			08/24/22 05:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 05:59	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 05:59	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 05:59	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 05:59	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 05:59	1
Naphthalene	ND		1.0		ug/L			08/24/22 05:59	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 05:59	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 05:59	1
o-Xylene	ND		0.50		ug/L			08/24/22 05:59	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 05:59	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 05:59	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 05:59	1
Styrene	ND		0.50		ug/L			08/24/22 05:59	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 05:59	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 05:59	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 05:59	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 05:59	1
Toluene	ND		0.50		ug/L			08/24/22 05:59	1
Trichloroethene	ND		0.50		ug/L			08/24/22 05:59	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 05:59	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 05:59	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		08/24/22 05:59	1
4-Bromofluorobenzene (Surr)	93		76 - 120		08/24/22 05:59	1
Dibromofluoromethane	107		80 - 120		08/24/22 05:59	1
Toluene-d8 (Surr)	101		80 - 120		08/24/22 05:59	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8270C SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: LAX-01
Date Collected: 08/16/22 13:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:44	08/24/22 17:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	44		21 - 120				08/18/22 11:44	08/24/22 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	74		58 - 135				08/18/22 11:44	08/24/22 17:37	1

Client Sample ID: UAX-01
Date Collected: 08/16/22 09:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:44	08/23/22 14:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		21 - 120				08/18/22 11:44	08/23/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		58 - 135				08/18/22 11:44	08/23/22 14:35	1

Client Sample ID: UAX-0100
Date Collected: 08/16/22 10:15
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.67		0.50		ug/L		08/18/22 11:44	08/23/22 14:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	41		21 - 120				08/18/22 11:44	08/23/22 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	59		58 - 135				08/18/22 11:44	08/23/22 14:49	1

Client Sample ID: LAX-03
Date Collected: 08/16/22 11:55
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-27
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:44	08/23/22 15:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	35		21 - 120				08/18/22 11:44	08/23/22 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		58 - 135				08/18/22 11:44	08/23/22 15:04	1

Client Sample ID: UAX-02
Date Collected: 08/16/22 12:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-28
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.5		0.50		ug/L		08/18/22 11:44	08/23/22 15:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		21 - 120				08/18/22 11:44	08/23/22 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	60		58 - 135				08/18/22 11:44	08/23/22 15:18	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: HEW-02
Date Collected: 08/16/22 13:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-30
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.62		0.50		ug/L		08/18/22 11:44	08/23/22 15:33	1
Isotope Dilution									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		21 - 120				08/18/22 11:44	08/23/22 15:33	1
Surrogate									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	61		58 - 135				08/18/22 11:44	08/23/22 15:33	1

Client Sample ID: HEW-05
Date Collected: 08/16/22 14:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-31
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:44	08/23/22 15:47	1
Isotope Dilution									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	40		21 - 120				08/18/22 11:44	08/23/22 15:47	1
Surrogate									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67		58 - 135				08/18/22 11:44	08/23/22 15:47	1

Client Sample ID: HEW-0500
Date Collected: 08/16/22 14:30
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-32
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:44	08/20/22 10:33	1
Isotope Dilution									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	40		21 - 120				08/18/22 11:44	08/20/22 10:33	1
Surrogate									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		58 - 135				08/18/22 11:44	08/20/22 10:33	1

Client Sample ID: HEW-04
Date Collected: 08/16/22 15:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-35
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	7.5		0.50		ug/L		08/18/22 11:44	08/23/22 16:16	1
Isotope Dilution									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	45		21 - 120				08/18/22 11:44	08/23/22 16:16	1
Surrogate									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		58 - 135				08/18/22 11:44	08/23/22 16:16	1

Surrogate Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-132)	BFB (76-120)	DBFM (80-120)	TOL (80-120)
570-106653-1	TB-081622	98	97	103	98
570-106653-2	AB-05	96	97	105	101
570-106653-3	UB-02	102	91	105	98
570-106653-4	UA-13D	100	102	103	96
570-106653-5	UA-16D	98	99	106	102
570-106653-6	UA-1600D	98	97	106	101
570-106653-7	UA-17D	96	98	105	100
570-106653-8	UA-1700D	97	99	105	100
570-106653-9	AB-08	99	99	105	102
570-106653-10	UB-06	97	98	106	102
570-106653-11	RB-081622B	97	97	106	100
570-106653-12	LAX-01	97	99	105	101
570-106653-13	UB-05	98	98	105	98
570-106653-14	AB-07	97	98	105	100
570-106653-15	UA-14D	97	98	106	102
570-106653-16	UA-10D	97	98	104	101
570-106653-16 MS	UA-10D	100	103	107	100
570-106653-16 MSD	UA-10D	98	101	105	101
570-106653-17	AB-06	104	104	107	99
570-106653-18	UB-04	104	103	107	97
570-106653-19	S-32	103	105	103	97
570-106653-20	UA-04D	101	106	106	97
570-106653-21	UAX-01	99	110	101	97
570-106653-22	S-04	98	104	102	97
570-106653-23	UAX-0100	101	106	101	103
570-106653-24	UB-01	98	107	100	95
570-106653-25	RB-081622A	101	109	98	96
570-106653-26	S-14	96	102	99	97
570-106653-27	LAX-03	106	86	104	99
570-106653-28	UAX-02	105	91	103	98
570-106653-29	AB-03	110	94	106	103
570-106653-30	HEW-02	105	92	104	97
570-106653-31	HEW-05	106	94	107	99
570-106653-32	HEW-0500	106	91	104	102
570-106653-33	S-18	105	91	104	97
570-106653-34	S-05	108	93	106	100
570-106653-35	HEW-04	101	98	109	102
570-106653-36	UA-08D	106	94	105	100
570-106653-37	UA-08	107	93	105	101
570-106653-38	UA-0800	105	91	106	100
570-106653-39	SE-04	107	90	101	101
570-106653-40	AB-0300	107	93	107	101
LCS 570-258627/5	Lab Control Sample	90	97	102	100
LCS 570-258643/3	Lab Control Sample	95	101	98	98
LCS 570-258728/6	Lab Control Sample	98	106	101	99
LCS 570-258895/3	Lab Control Sample	100	101	97	99
LCS 570-258931/3	Lab Control Sample	90	100	105	100
LCSD 570-258627/6	Lab Control Sample Dup	92	98	103	101
LCSD 570-258643/4	Lab Control Sample Dup	97	103	100	99

Surrogate Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (64-132)	BFB (76-120)	DBFM (80-120)	TOL (80-120)
LCSD 570-258728/7	Lab Control Sample Dup	100	112	106	100
LCSD 570-258895/4	Lab Control Sample Dup	101	103	103	102
LCSD 570-258931/4	Lab Control Sample Dup	96	100	104	100
MB 570-258627/8	Method Blank	94	97	103	100
MB 570-258643/6	Method Blank	100	96	102	97
MB 570-258728/9	Method Blank	99	100	104	97
MB 570-258895/6	Method Blank	107	96	105	101
MB 570-258931/6	Method Blank	96	97	105	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (58-135)
570-106653-12	LAX-01	74
570-106653-21	UAX-01	58
570-106653-23	UAX-0100	59
570-106653-27	LAX-03	60
570-106653-28	UAX-02	60
570-106653-30	HEW-02	61
570-106653-31	HEW-05	67
570-106653-32	HEW-0500	76
570-106653-35	HEW-04	66
570-106684-F-1-B MS - DL	Matrix Spike	40 S1- *3
570-106684-F-1-C MSD - DL	Matrix Spike Duplicate	46 *3 S1-
LCS 570-257765/2-A	Lab Control Sample	69
LCSD 570-257765/3-A	Lab Control Sample Dup	68
MB 570-257765/1-A	Method Blank	71

Surrogate Legend

NBZ = Nitrobenzene-d5

Isotope Dilution Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (21-120)
570-106653-12	LAX-01	44
570-106653-21	UAX-01	39
570-106653-23	UAX-0100	41
570-106653-27	LAX-03	35
570-106653-28	UAX-02	39
570-106653-30	HEW-02	39
570-106653-31	HEW-05	40
570-106653-32	HEW-0500	40
570-106653-35	HEW-04	45
570-106684-F-1-B MS - DL	Matrix Spike	43 *3
570-106684-F-1-C MSD - DL	Matrix Spike Duplicate	45 *3
LCS 570-257765/2-A	Lab Control Sample	42
LCSD 570-257765/3-A	Lab Control Sample Dup	39
MB 570-257765/1-A	Method Blank	42

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-258627/8
Matrix: Water
Analysis Batch: 258627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 14:56	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 14:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 14:56	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 14:56	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 14:56	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 14:56	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 14:56	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 14:56	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 14:56	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 14:56	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 14:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 14:56	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 14:56	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 14:56	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 14:56	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 14:56	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 14:56	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 14:56	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 14:56	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 14:56	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 14:56	1
2-Butanone	ND		5.0		ug/L			08/23/22 14:56	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 14:56	1
2-Hexanone	ND		6.0		ug/L			08/23/22 14:56	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 14:56	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 14:56	1
Acetone	ND		8.0		ug/L			08/23/22 14:56	1
Benzene	ND		0.50		ug/L			08/23/22 14:56	1
Bromobenzene	ND		0.50		ug/L			08/23/22 14:56	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 14:56	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 14:56	1
Bromoform	ND		0.50		ug/L			08/23/22 14:56	1
Bromomethane	ND		2.0		ug/L			08/23/22 14:56	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 14:56	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 14:56	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 14:56	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 14:56	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 14:56	1
Chloroethane	ND		0.50		ug/L			08/23/22 14:56	1
Chloroform	ND		0.50		ug/L			08/23/22 14:56	1
Chloromethane	ND		1.0		ug/L			08/23/22 14:56	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 14:56	1
Dibromomethane	ND		0.50		ug/L			08/23/22 14:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 14:56	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 14:56	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 14:56	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 14:56	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258627/8
Matrix: Water
Analysis Batch: 258627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 14:56	1
Naphthalene	ND		1.0		ug/L			08/23/22 14:56	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 14:56	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 14:56	1
o-Xylene	ND		0.50		ug/L			08/23/22 14:56	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 14:56	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 14:56	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 14:56	1
Styrene	ND		0.50		ug/L			08/23/22 14:56	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 14:56	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 14:56	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 14:56	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 14:56	1
Toluene	ND		0.50		ug/L			08/23/22 14:56	1
Trichloroethene	ND		0.50		ug/L			08/23/22 14:56	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 14:56	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 14:56	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		64 - 132		08/23/22 14:56	1
4-Bromofluorobenzene (Surr)	97		76 - 120		08/23/22 14:56	1
Dibromofluoromethane	103		80 - 120		08/23/22 14:56	1
Toluene-d8 (Surr)	100		80 - 120		08/23/22 14:56	1

Lab Sample ID: LCS 570-258627/5
Matrix: Water
Analysis Batch: 258627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	12.98	*+ me	ug/L		130	80 - 125
1,1,1-Trichloroethane	10.0	11.20		ug/L		112	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.72		ug/L		107	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.35		ug/L		123	56 - 132
1,1,2-Trichloroethane	10.0	10.48		ug/L		105	80 - 121
1,1-Dichloroethane	10.0	11.32		ug/L		113	80 - 120
1,1-Dichloroethene	10.0	11.42		ug/L		114	80 - 126
1,1-Dichloropropene	10.0	11.36		ug/L		114	72 - 122
1,2,3-Trichlorobenzene	10.0	11.00		ug/L		110	80 - 125
1,2,3-Trichloropropane	10.0	10.39		ug/L		104	75 - 127
1,2,4-Trichlorobenzene	10.0	10.74		ug/L		107	80 - 124
1,2,4-Trimethylbenzene	10.0	10.89		ug/L		109	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	11.28		ug/L		113	63 - 123
1,2-Dibromoethane	10.0	10.26		ug/L		103	80 - 125
1,2-Dichlorobenzene	10.0	10.59		ug/L		106	80 - 120
1,2-Dichloroethane	10.0	9.487		ug/L		95	76 - 130
1,2-Dichloropropane	10.0	11.08		ug/L		111	74 - 124
1,3,5-Trimethylbenzene	10.0	10.92		ug/L		109	80 - 122

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258627/5

Matrix: Water

Analysis Batch: 258627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	10.0	10.82		ug/L		108	80 - 120
1,3-Dichloropropane	10.0	10.14		ug/L		101	80 - 121
1,4-Dichlorobenzene	10.0	10.53		ug/L		105	80 - 120
2,2-Dichloropropane	10.0	9.324		ug/L		93	79 - 131
2-Butanone	10.0	9.273		ug/L		93	48 - 145
2-Chlorotoluene	10.0	10.64		ug/L		106	80 - 120
2-Hexanone	10.0	9.185		ug/L		92	50 - 149
4-Chlorotoluene	10.0	10.78		ug/L		108	80 - 120
4-Methyl-2-pentanone	10.0	9.679		ug/L		97	63 - 120
Acetone	10.0	9.191		ug/L		92	45 - 139
Benzene	10.0	10.79		ug/L		108	80 - 120
Bromobenzene	10.0	10.58		ug/L		106	80 - 125
Bromochloromethane	10.0	10.06		ug/L		101	80 - 120
Bromodichloromethane	10.0	11.90		ug/L		119	73 - 131
Bromoform	10.0	15.58	*+	ug/L		156	76 - 124
Bromomethane	10.0	6.762		ug/L		68	26 - 180
cis-1,2-Dichloroethene	10.0	11.45		ug/L		114	80 - 120
cis-1,3-Dichloropropene	10.0	10.82		ug/L		108	76 - 123
Carbon disulfide	10.0	11.96		ug/L		120	75 - 123
Carbon tetrachloride	10.0	14.09	*+ me	ug/L		141	61 - 139
Chlorobenzene	10.0	10.95		ug/L		110	80 - 120
Chloroethane	10.0	12.74		ug/L		127	54 - 150
Chloroform	10.0	10.84		ug/L		108	80 - 120
Chloromethane	10.0	8.666		ug/L		87	28 - 151
Dibromochloromethane	10.0	13.91	*+ me	ug/L		139	74 - 136
Dibromomethane	10.0	10.57		ug/L		106	80 - 122
Dichlorodifluoromethane	10.0	11.46		ug/L		115	27 - 154
Ethylbenzene	10.0	10.75		ug/L		108	80 - 126
Isopropylbenzene	10.0	11.01		ug/L		110	80 - 120
Methylene Chloride	10.0	10.79		ug/L		108	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	9.652		ug/L		97	69 - 128
Naphthalene	10.0	11.19		ug/L		112	70 - 130
n-Butylbenzene	10.0	11.19		ug/L		112	78 - 127
N-Propylbenzene	10.0	11.19		ug/L		112	80 - 121
o-Xylene	10.0	10.98		ug/L		110	80 - 124
m,p-Xylene	20.0	21.49		ug/L		107	80 - 123
p-Isopropyltoluene	10.0	11.27		ug/L		113	80 - 128
sec-Butylbenzene	10.0	11.47		ug/L		115	80 - 125
Styrene	10.0	11.19		ug/L		112	80 - 121
trans-1,2-Dichloroethene	10.0	11.48		ug/L		115	79 - 120
trans-1,3-Dichloropropene	10.0	10.09		ug/L		101	80 - 126
tert-Butylbenzene	10.0	11.66		ug/L		117	80 - 121
Tetrachloroethene	10.0	10.99		ug/L		110	80 - 125
Toluene	10.0	11.11		ug/L		111	80 - 120
Trichloroethene	10.0	11.66		ug/L		117	77 - 124
Trichlorofluoromethane	10.0	12.74		ug/L		127	41 - 163
Vinyl acetate	10.0	11.07		ug/L		111	61 - 126
Vinyl chloride	10.0	11.69		ug/L		117	50 - 160

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258627/5
Matrix: Water
Analysis Batch: 258627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		64 - 132
4-Bromofluorobenzene (Surr)	97		76 - 120
Dibromofluoromethane	102		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 570-258627/6
Matrix: Water
Analysis Batch: 258627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
1,1,1,2-Tetrachloroethane	10.0	12.48		ug/L		125	80 - 125	4	20	
1,1,1-Trichloroethane	10.0	10.52		ug/L		105	75 - 121	6	20	
1,1,2,2-Tetrachloroethane	10.0	10.99		ug/L		110	80 - 120	2	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.99		ug/L		110	56 - 132	12	22	
1,1,2-Trichloroethane	10.0	10.42		ug/L		104	80 - 121	1	20	
1,1-Dichloroethane	10.0	10.50		ug/L		105	80 - 120	7	20	
1,1-Dichloroethene	10.0	10.49		ug/L		105	80 - 126	8	21	
1,1-Dichloropropene	10.0	10.60		ug/L		106	72 - 122	7	20	
1,2,3-Trichlorobenzene	10.0	10.98		ug/L		110	80 - 125	0	20	
1,2,3-Trichloropropane	10.0	10.42		ug/L		104	75 - 127	0	20	
1,2,4-Trichlorobenzene	10.0	10.44		ug/L		104	80 - 124	3	20	
1,2,4-Trimethylbenzene	10.0	10.27		ug/L		103	80 - 128	6	20	
1,2-Dibromo-3-Chloropropane	10.0	10.98		ug/L		110	63 - 123	3	20	
1,2-Dibromoethane	10.0	10.26		ug/L		103	80 - 125	0	20	
1,2-Dichlorobenzene	10.0	10.30		ug/L		103	80 - 120	3	20	
1,2-Dichloroethane	10.0	9.423		ug/L		94	76 - 130	1	20	
1,2-Dichloropropane	10.0	10.71		ug/L		107	74 - 124	3	20	
1,3,5-Trimethylbenzene	10.0	10.18		ug/L		102	80 - 122	7	20	
1,3-Dichlorobenzene	10.0	10.23		ug/L		102	80 - 120	6	20	
1,3-Dichloropropane	10.0	10.21		ug/L		102	80 - 121	1	20	
1,4-Dichlorobenzene	10.0	10.18		ug/L		102	80 - 120	3	20	
2,2-Dichloropropane	10.0	8.421		ug/L		84	79 - 131	10	20	
2-Butanone	10.0	9.617		ug/L		96	48 - 145	4	30	
2-Chlorotoluene	10.0	10.21		ug/L		102	80 - 120	4	20	
2-Hexanone	10.0	9.986		ug/L		100	50 - 149	8	29	
4-Chlorotoluene	10.0	10.21		ug/L		102	80 - 120	5	20	
4-Methyl-2-pentanone	10.0	10.04		ug/L		100	63 - 120	4	20	
Acetone	10.0	10.37		ug/L		104	45 - 139	12	30	
Benzene	10.0	10.15		ug/L		102	80 - 120	6	20	
Bromobenzene	10.0	10.25		ug/L		103	80 - 125	3	20	
Bromochloromethane	10.0	9.780		ug/L		98	80 - 120	3	20	
Bromodichloromethane	10.0	11.47		ug/L		115	73 - 131	4	20	
Bromoform	10.0	15.65	*+	ug/L		157	76 - 124	0	20	
Bromomethane	10.0	6.171		ug/L		62	26 - 180	9	20	
cis-1,2-Dichloroethene	10.0	10.58		ug/L		106	80 - 120	8	20	
cis-1,3-Dichloropropene	10.0	10.41		ug/L		104	76 - 123	4	20	
Carbon disulfide	10.0	10.93		ug/L		109	75 - 123	9	20	
Carbon tetrachloride	10.0	12.83		ug/L		128	61 - 139	9	20	

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258627/6
Matrix: Water
Analysis Batch: 258627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	10.0	10.44		ug/L		104	80 - 120	5	20
Chloroethane	10.0	10.70		ug/L		107	54 - 150	17	25
Chloroform	10.0	10.12		ug/L		101	80 - 120	7	20
Chloromethane	10.0	8.028		ug/L		80	28 - 151	8	20
Dibromochloromethane	10.0	13.87	*+ me	ug/L		139	74 - 136	0	20
Dibromomethane	10.0	10.39		ug/L		104	80 - 122	2	20
Dichlorodifluoromethane	10.0	10.39		ug/L		104	27 - 154	10	21
Ethylbenzene	10.0	10.16		ug/L		102	80 - 126	6	20
Isopropylbenzene	10.0	10.37		ug/L		104	80 - 120	6	20
Methylene Chloride	10.0	10.28		ug/L		103	80 - 120	5	20
Methyl-t-Butyl Ether (MTBE)	10.0	9.775		ug/L		98	69 - 128	1	20
Naphthalene	10.0	11.54		ug/L		115	70 - 130	3	20
n-Butylbenzene	10.0	10.27		ug/L		103	78 - 127	9	20
N-Propylbenzene	10.0	10.34		ug/L		103	80 - 121	8	20
o-Xylene	10.0	10.36		ug/L		104	80 - 124	6	20
m,p-Xylene	20.0	20.09		ug/L		100	80 - 123	7	20
p-Isopropyltoluene	10.0	10.50		ug/L		105	80 - 128	7	20
sec-Butylbenzene	10.0	10.56		ug/L		106	80 - 125	8	20
Styrene	10.0	10.75		ug/L		107	80 - 121	4	20
trans-1,2-Dichloroethene	10.0	10.28		ug/L		103	79 - 120	11	20
trans-1,3-Dichloropropene	10.0	9.960		ug/L		100	80 - 126	1	20
tert-Butylbenzene	10.0	10.82		ug/L		108	80 - 121	8	20
Tetrachloroethene	10.0	10.23		ug/L		102	80 - 125	7	20
Toluene	10.0	10.54		ug/L		105	80 - 120	5	20
Trichloroethene	10.0	11.03		ug/L		110	77 - 124	6	20
Trichlorofluoromethane	10.0	11.56		ug/L		116	41 - 163	10	21
Vinyl acetate	10.0	10.90		ug/L		109	61 - 126	2	24
Vinyl chloride	10.0	10.68		ug/L		107	50 - 160	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	92		64 - 132
4-Bromofluorobenzene (Surr)	98		76 - 120
Dibromofluoromethane	103		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 570-106653-16 MS
Matrix: Water
Analysis Batch: 258627

Client Sample ID: UA-10D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND	*+	10.0	11.72		ug/L		117	61 - 142
1,1,1-Trichloroethane	ND		10.0	10.19		ug/L		102	68 - 138
1,1,2,2-Tetrachloroethane	ND		10.0	11.85		ug/L		119	71 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	8.672		ug/L		87	51 - 132
1,1,2-Trichloroethane	ND		10.0	10.80		ug/L		108	70 - 132
1,1-Dichloroethane	ND		10.0	10.54		ug/L		105	70 - 132
1,1-Dichloroethene	ND		10.0	10.26		ug/L		103	57 - 148
1,1-Dichloropropene	ND		10.0	10.21		ug/L		102	74 - 132

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-106653-16 MS

Matrix: Water

Analysis Batch: 258627

Client Sample ID: UA-10D

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichlorobenzene	ND		10.0	10.24		ug/L		102	66 - 135
1,2,3-Trichloropropane	ND		10.0	10.28		ug/L		103	61 - 130
1,2,4-Trichlorobenzene	ND		10.0	9.668		ug/L		97	66 - 131
1,2,4-Trimethylbenzene	ND		10.0	9.281		ug/L		93	65 - 132
1,2-Dibromo-3-Chloropropane	ND		10.0	11.25		ug/L		113	48 - 132
1,2-Dibromoethane	ND		10.0	10.25		ug/L		102	74 - 128
1,2-Dichlorobenzene	ND		10.0	10.05		ug/L		101	74 - 126
1,2-Dichloroethane	ND		10.0	9.410		ug/L		94	65 - 140
1,2-Dichloropropane	ND		10.0	10.37		ug/L		104	75 - 127
1,3,5-Trimethylbenzene	ND		10.0	9.650		ug/L		97	64 - 144
1,3-Dichlorobenzene	ND		10.0	9.760		ug/L		98	73 - 125
1,3-Dichloropropane	ND		10.0	10.06		ug/L		101	71 - 131
1,4-Dichlorobenzene	ND		10.0	9.709		ug/L		97	73 - 125
2,2-Dichloropropane	ND		10.0	7.090		ug/L		71	39 - 138
2-Butanone	ND		10.0	10.40		ug/L		104	44 - 140
2-Chlorotoluene	ND		10.0	9.832		ug/L		98	71 - 130
2-Hexanone	ND		10.0	9.909		ug/L		99	52 - 136
4-Chlorotoluene	ND		10.0	9.904		ug/L		99	69 - 127
4-Methyl-2-pentanone	ND		10.0	10.01		ug/L		100	44 - 139
Acetone	ND		10.0	9.728		ug/L		97	20 - 174
Benzene	ND		10.0	9.882		ug/L		99	75 - 125
Bromobenzene	ND		10.0	9.818		ug/L		98	75 - 132
Bromochloromethane	ND		10.0	10.12		ug/L		101	75 - 125
Bromodichloromethane	ND		10.0	11.10		ug/L		111	70 - 137
Bromoform	ND	*+ F1	10.0	14.30	F1	ug/L		143	51 - 142
Bromomethane	ND		10.0	4.811		ug/L		48	46 - 164
cis-1,2-Dichloroethene	ND		10.0	10.65		ug/L		107	62 - 138
cis-1,3-Dichloropropene	ND		10.0	9.803		ug/L		98	67 - 125
Carbon disulfide	ND		10.0	10.91		ug/L		109	70 - 132
Carbon tetrachloride	ND	*+	10.0	11.74		ug/L		117	50 - 159
Chlorobenzene	ND		10.0	10.06		ug/L		101	75 - 128
Chloroethane	ND		10.0	11.20		ug/L		112	62 - 161
Chloroform	ND		10.0	10.26		ug/L		103	73 - 130
Chloromethane	ND		10.0	6.869		ug/L		69	45 - 157
Dibromochloromethane	ND	*+	10.0	13.33		ug/L		133	63 - 145
Dibromomethane	ND		10.0	10.50		ug/L		105	75 - 127
Dichlorodifluoromethane	ND		10.0	7.358		ug/L		74	31 - 132
Ethylbenzene	ND		10.0	9.934		ug/L		99	73 - 135
Isopropylbenzene	ND		10.0	10.03		ug/L		100	69 - 141
Methylene Chloride	ND		10.0	10.37		ug/L		104	65 - 127
Methyl-t-Butyl Ether (MTBE)	ND		10.0	9.796		ug/L		98	59 - 131
Naphthalene	ND		10.0	11.17		ug/L		112	51 - 133
n-Butylbenzene	ND		10.0	9.832		ug/L		98	66 - 128
N-Propylbenzene	ND		10.0	10.03		ug/L		100	73 - 136
o-Xylene	ND		10.0	10.10		ug/L		101	69 - 138
m,p-Xylene	ND		20.0	19.48		ug/L		97	73 - 138
p-Isopropyltoluene	ND		10.0	9.802		ug/L		98	69 - 134
sec-Butylbenzene	ND		10.0	10.09		ug/L		101	70 - 130
Styrene	ND		10.0	9.607		ug/L		96	45 - 144

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-106653-16 MS

Matrix: Water

Analysis Batch: 258627

Client Sample ID: UA-10D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	ND		10.0	10.32		ug/L		103	61 - 138
trans-1,3-Dichloropropene	ND		10.0	9.234		ug/L		92	61 - 131
tert-Butylbenzene	ND		10.0	9.855		ug/L		99	71 - 131
Tetrachloroethene	7.8		10.0	16.13		ug/L		83	64 - 150
Toluene	ND		10.0	10.19		ug/L		102	75 - 127
Trichloroethene	ND		10.0	10.13		ug/L		101	34 - 159
Trichlorofluoromethane	ND		10.0	9.280		ug/L		93	69 - 142
Vinyl acetate	ND		10.0	11.00		ug/L		110	35 - 132
Vinyl chloride	ND		10.0	9.695		ug/L		97	51 - 168
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100		64 - 132						
4-Bromofluorobenzene (Surr)	103		76 - 120						
Dibromofluoromethane	107		80 - 120						
Toluene-d8 (Surr)	100		80 - 120						

Lab Sample ID: 570-106653-16 MSD

Matrix: Water

Analysis Batch: 258627

Client Sample ID: UA-10D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	*+	10.0	11.83		ug/L		118	61 - 142	1	20
1,1,1-Trichloroethane	ND		10.0	10.23		ug/L		102	68 - 138	0	20
1,1,1,2-Tetrachloroethane	ND		10.0	12.03		ug/L		120	71 - 133	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	8.777		ug/L		88	51 - 132	1	21
1,1,2-Trichloroethane	ND		10.0	10.67		ug/L		107	70 - 132	1	20
1,1-Dichloroethane	ND		10.0	10.67		ug/L		107	70 - 132	1	20
1,1-Dichloroethene	ND		10.0	10.59		ug/L		106	57 - 148	3	20
1,1-Dichloropropene	ND		10.0	10.38		ug/L		104	74 - 132	2	20
1,2,3-Trichlorobenzene	ND		10.0	10.49		ug/L		105	66 - 135	2	22
1,2,3-Trichloropropane	ND		10.0	10.54		ug/L		105	61 - 130	2	20
1,2,4-Trichlorobenzene	ND		10.0	9.793		ug/L		98	66 - 131	1	24
1,2,4-Trimethylbenzene	ND		10.0	9.637		ug/L		96	65 - 132	4	22
1,2-Dibromo-3-Chloropropane	ND		10.0	11.79		ug/L		118	48 - 132	5	20
1,2-Dibromoethane	ND		10.0	10.39		ug/L		104	74 - 128	1	20
1,2-Dichlorobenzene	ND		10.0	10.09		ug/L		101	74 - 126	0	20
1,2-Dichloroethane	ND		10.0	9.685		ug/L		97	65 - 140	3	20
1,2-Dichloropropane	ND		10.0	10.60		ug/L		106	75 - 127	2	20
1,3,5-Trimethylbenzene	ND		10.0	9.695		ug/L		97	64 - 144	0	22
1,3-Dichlorobenzene	ND		10.0	10.02		ug/L		100	73 - 125	3	21
1,3-Dichloropropane	ND		10.0	10.14		ug/L		101	71 - 131	1	20
1,4-Dichlorobenzene	ND		10.0	9.804		ug/L		98	73 - 125	1	20
2,2-Dichloropropane	ND		10.0	7.213		ug/L		72	39 - 138	2	20
2-Butanone	ND		10.0	10.14		ug/L		101	44 - 140	3	34
2-Chlorotoluene	ND		10.0	9.955		ug/L		100	71 - 130	1	20
2-Hexanone	ND		10.0	10.07		ug/L		101	52 - 136	2	37
4-Chlorotoluene	ND		10.0	9.888		ug/L		99	69 - 127	0	20
4-Methyl-2-pentanone	ND		10.0	10.47		ug/L		105	44 - 139	5	21

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-106653-16 MSD

Matrix: Water

Analysis Batch: 258627

Client Sample ID: UA-10D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND		10.0	9.244		ug/L		92	20 - 174	5	35
Benzene	ND		10.0	10.31		ug/L		103	75 - 125	4	20
Bromobenzene	ND		10.0	9.914		ug/L		99	75 - 132	1	20
Bromochloromethane	ND		10.0	10.18		ug/L		102	75 - 125	1	20
Bromodichloromethane	ND		10.0	11.53		ug/L		115	70 - 137	4	20
Bromoform	ND	*+ F1	10.0	14.80	F1	ug/L		148	51 - 142	3	20
Bromomethane	ND		10.0	6.193		ug/L		62	46 - 164	25	25
cis-1,2-Dichloroethene	ND		10.0	10.90		ug/L		109	62 - 138	2	20
cis-1,3-Dichloropropene	ND		10.0	10.24		ug/L		102	67 - 125	4	20
Carbon disulfide	ND		10.0	11.05		ug/L		110	70 - 132	1	20
Carbon tetrachloride	ND	*+	10.0	12.05		ug/L		120	50 - 159	3	20
Chlorobenzene	ND		10.0	10.17		ug/L		102	75 - 128	1	20
Chloroethane	ND		10.0	12.92		ug/L		129	62 - 161	14	20
Chloroform	ND		10.0	10.44		ug/L		104	73 - 130	2	20
Chloromethane	ND		10.0	8.008		ug/L		80	45 - 157	15	21
Dibromochloromethane	ND	*+	10.0	13.23		ug/L		132	63 - 145	1	20
Dibromomethane	ND		10.0	10.61		ug/L		106	75 - 127	1	20
Dichlorodifluoromethane	ND		10.0	8.446		ug/L		84	31 - 132	14	21
Ethylbenzene	ND		10.0	9.983		ug/L		100	73 - 135	0	20
Isopropylbenzene	ND		10.0	10.01		ug/L		100	69 - 141	0	22
Methylene Chloride	ND		10.0	10.37		ug/L		104	65 - 127	0	20
Methyl-t-Butyl Ether (MTBE)	ND		10.0	9.864		ug/L		99	59 - 131	1	20
Naphthalene	ND		10.0	11.54		ug/L		115	51 - 133	3	25
n-Butylbenzene	ND		10.0	9.910		ug/L		99	66 - 128	1	24
N-Propylbenzene	ND		10.0	10.04		ug/L		100	73 - 136	0	22
o-Xylene	ND		10.0	10.19		ug/L		102	69 - 138	1	20
m,p-Xylene	ND		20.0	19.56		ug/L		98	73 - 138	0	21
p-Isopropyltoluene	ND		10.0	9.964		ug/L		100	69 - 134	2	23
sec-Butylbenzene	ND		10.0	10.19		ug/L		102	70 - 130	1	22
Styrene	ND		10.0	10.00		ug/L		100	45 - 144	4	32
trans-1,2-Dichloroethene	ND		10.0	10.55		ug/L		105	61 - 138	2	21
trans-1,3-Dichloropropene	ND		10.0	9.413		ug/L		94	61 - 131	2	20
tert-Butylbenzene	ND		10.0	10.05		ug/L		101	71 - 131	2	23
Tetrachloroethene	7.8		10.0	15.84		ug/L		81	64 - 150	2	23
Toluene	ND		10.0	10.56		ug/L		106	75 - 127	4	20
Trichloroethene	ND		10.0	10.56		ug/L		106	34 - 159	4	23
Trichlorofluoromethane	ND		10.0	10.89		ug/L		109	69 - 142	16	20
Vinyl acetate	ND		10.0	11.44		ug/L		114	35 - 132	4	29
Vinyl chloride	ND		10.0	11.60		ug/L		116	51 - 168	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		64 - 132
4-Bromofluorobenzene (Surr)	101		76 - 120
Dibromofluoromethane	105		80 - 120
Toluene-d8 (Surr)	101		80 - 120

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258643/6
Matrix: Water
Analysis Batch: 258643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 11:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 11:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 11:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 11:45	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 11:45	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 11:45	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 11:45	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 11:45	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 11:45	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 11:45	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 11:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 11:45	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 11:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 11:45	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 11:45	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 11:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 11:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 11:45	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 11:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 11:45	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 11:45	1
2-Butanone	ND		5.0		ug/L			08/23/22 11:45	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 11:45	1
2-Hexanone	ND		6.0		ug/L			08/23/22 11:45	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 11:45	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 11:45	1
Acetone	ND		8.0		ug/L			08/23/22 11:45	1
Benzene	ND		0.50		ug/L			08/23/22 11:45	1
Bromobenzene	ND		0.50		ug/L			08/23/22 11:45	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 11:45	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 11:45	1
Bromoform	ND		0.50		ug/L			08/23/22 11:45	1
Bromomethane	ND		2.0		ug/L			08/23/22 11:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 11:45	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 11:45	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 11:45	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 11:45	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 11:45	1
Chloroethane	ND		0.50		ug/L			08/23/22 11:45	1
Chloroform	ND		0.50		ug/L			08/23/22 11:45	1
Chloromethane	ND		1.0		ug/L			08/23/22 11:45	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 11:45	1
Dibromomethane	ND		0.50		ug/L			08/23/22 11:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 11:45	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 11:45	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 11:45	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 11:45	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258643/6
Matrix: Water
Analysis Batch: 258643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 11:45	1
Naphthalene	ND		1.0		ug/L			08/23/22 11:45	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 11:45	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 11:45	1
o-Xylene	ND		0.50		ug/L			08/23/22 11:45	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 11:45	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 11:45	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 11:45	1
Styrene	ND		0.50		ug/L			08/23/22 11:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 11:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 11:45	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 11:45	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 11:45	1
Toluene	ND		0.50		ug/L			08/23/22 11:45	1
Trichloroethene	ND		0.50		ug/L			08/23/22 11:45	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 11:45	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 11:45	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 132		08/23/22 11:45	1
4-Bromofluorobenzene (Surr)	96		76 - 120		08/23/22 11:45	1
Dibromofluoromethane	102		80 - 120		08/23/22 11:45	1
Toluene-d8 (Surr)	97		80 - 120		08/23/22 11:45	1

Lab Sample ID: LCS 570-258643/3
Matrix: Water
Analysis Batch: 258643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	10.96		ug/L		110	80 - 125
1,1,1-Trichloroethane	10.0	11.38		ug/L		114	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.27		ug/L		103	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.08		ug/L		111	56 - 132
1,1,2-Trichloroethane	10.0	10.29		ug/L		103	80 - 121
1,1-Dichloroethane	10.0	11.16		ug/L		112	80 - 120
1,1-Dichloroethene	10.0	11.71		ug/L		117	80 - 126
1,1-Dichloropropene	10.0	10.89		ug/L		109	72 - 122
1,2,3-Trichlorobenzene	10.0	10.08		ug/L		101	80 - 125
1,2,3-Trichloropropane	10.0	9.513		ug/L		95	75 - 127
1,2,4-Trichlorobenzene	10.0	10.24		ug/L		102	80 - 124
1,2,4-Trimethylbenzene	10.0	11.00		ug/L		110	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	9.309		ug/L		93	63 - 123
1,2-Dibromoethane	10.0	9.508		ug/L		95	80 - 125
1,2-Dichlorobenzene	10.0	10.54		ug/L		105	80 - 120
1,2-Dichloroethane	10.0	10.38		ug/L		104	76 - 130
1,2-Dichloropropane	10.0	10.66		ug/L		107	74 - 124
1,3,5-Trimethylbenzene	10.0	11.25		ug/L		113	80 - 122

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258643/3

Matrix: Water

Analysis Batch: 258643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	10.0	10.84		ug/L		108	80 - 120
1,3-Dichloropropane	10.0	10.60		ug/L		106	80 - 121
1,4-Dichlorobenzene	10.0	10.19		ug/L		102	80 - 120
2,2-Dichloropropane	10.0	11.64		ug/L		116	79 - 131
2-Butanone	10.0	9.868		ug/L		99	48 - 145
2-Chlorotoluene	10.0	10.87		ug/L		109	80 - 120
2-Hexanone	10.0	8.876		ug/L		89	50 - 149
4-Chlorotoluene	10.0	10.89		ug/L		109	80 - 120
4-Methyl-2-pentanone	10.0	9.406		ug/L		94	63 - 120
Acetone	10.0	11.07		ug/L		111	45 - 139
Benzene	10.0	10.58		ug/L		106	80 - 120
Bromobenzene	10.0	10.72		ug/L		107	80 - 125
Bromochloromethane	10.0	10.05		ug/L		100	80 - 120
Bromodichloromethane	10.0	11.08		ug/L		111	73 - 131
Bromoform	10.0	11.30		ug/L		113	76 - 124
Bromomethane	10.0	11.92		ug/L		119	26 - 180
cis-1,2-Dichloroethene	10.0	10.19		ug/L		102	80 - 120
cis-1,3-Dichloropropene	10.0	10.10		ug/L		101	76 - 123
Carbon disulfide	10.0	11.23		ug/L		112	75 - 123
Carbon tetrachloride	10.0	12.56		ug/L		126	61 - 139
Chlorobenzene	10.0	10.66		ug/L		107	80 - 120
Chloroethane	10.0	11.76		ug/L		118	54 - 150
Chloroform	10.0	10.48		ug/L		105	80 - 120
Chloromethane	10.0	11.51		ug/L		115	28 - 151
Dibromochloromethane	10.0	11.56		ug/L		116	74 - 136
Dibromomethane	10.0	10.00		ug/L		100	80 - 122
Dichlorodifluoromethane	10.0	12.32		ug/L		123	27 - 154
Ethylbenzene	10.0	11.03		ug/L		110	80 - 126
Isopropylbenzene	10.0	11.16		ug/L		112	80 - 120
Methylene Chloride	10.0	10.45		ug/L		104	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	10.46		ug/L		105	69 - 128
Naphthalene	10.0	9.584		ug/L		96	70 - 130
n-Butylbenzene	10.0	10.55		ug/L		106	78 - 127
N-Propylbenzene	10.0	11.28		ug/L		113	80 - 121
o-Xylene	10.0	10.95		ug/L		109	80 - 124
m,p-Xylene	20.0	22.69		ug/L		113	80 - 123
p-Isopropyltoluene	10.0	11.30		ug/L		113	80 - 128
sec-Butylbenzene	10.0	11.28		ug/L		113	80 - 125
Styrene	10.0	10.11		ug/L		101	80 - 121
trans-1,2-Dichloroethene	10.0	10.95		ug/L		110	79 - 120
trans-1,3-Dichloropropene	10.0	11.17		ug/L		112	80 - 126
tert-Butylbenzene	10.0	11.04		ug/L		110	80 - 121
Tetrachloroethene	10.0	11.45		ug/L		114	80 - 125
Toluene	10.0	10.55		ug/L		106	80 - 120
Trichloroethene	10.0	10.59		ug/L		106	77 - 124
Trichlorofluoromethane	10.0	11.81		ug/L		118	41 - 163
Vinyl acetate	10.0	11.36		ug/L		114	61 - 126
Vinyl chloride	10.0	11.09		ug/L		111	50 - 160

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258643/3
Matrix: Water
Analysis Batch: 258643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		64 - 132
4-Bromofluorobenzene (Surr)	101		76 - 120
Dibromofluoromethane	98		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 570-258643/4
Matrix: Water
Analysis Batch: 258643

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	10.0	10.47		ug/L		105	80 - 125	5	20
1,1,1-Trichloroethane	10.0	10.79		ug/L		108	75 - 121	5	20
1,1,2,2-Tetrachloroethane	10.0	10.14		ug/L		101	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.555		ug/L		96	56 - 132	15	22
1,1,2-Trichloroethane	10.0	10.39		ug/L		104	80 - 121	1	20
1,1-Dichloroethane	10.0	9.471		ug/L		95	80 - 120	16	20
1,1-Dichloroethene	10.0	10.18		ug/L		102	80 - 126	14	21
1,1-Dichloropropene	10.0	10.23		ug/L		102	72 - 122	6	20
1,2,3-Trichlorobenzene	10.0	10.36		ug/L		104	80 - 125	3	20
1,2,3-Trichloropropane	10.0	9.922		ug/L		99	75 - 127	4	20
1,2,4-Trichlorobenzene	10.0	10.42		ug/L		104	80 - 124	2	20
1,2,4-Trimethylbenzene	10.0	10.47		ug/L		105	80 - 128	5	20
1,2-Dibromo-3-Chloropropane	10.0	9.912		ug/L		99	63 - 123	6	20
1,2-Dibromoethane	10.0	9.827		ug/L		98	80 - 125	3	20
1,2-Dichlorobenzene	10.0	10.31		ug/L		103	80 - 120	2	20
1,2-Dichloroethane	10.0	10.35		ug/L		104	76 - 130	0	20
1,2-Dichloropropane	10.0	10.19		ug/L		102	74 - 124	4	20
1,3,5-Trimethylbenzene	10.0	10.67		ug/L		107	80 - 122	5	20
1,3-Dichlorobenzene	10.0	10.45		ug/L		105	80 - 120	4	20
1,3-Dichloropropane	10.0	10.48		ug/L		105	80 - 121	1	20
1,4-Dichlorobenzene	10.0	9.886		ug/L		99	80 - 120	3	20
2,2-Dichloropropane	10.0	11.04		ug/L		110	79 - 131	5	20
2-Butanone	10.0	9.186		ug/L		92	48 - 145	7	30
2-Chlorotoluene	10.0	10.43		ug/L		104	80 - 120	4	20
2-Hexanone	10.0	8.060		ug/L		81	50 - 149	10	29
4-Chlorotoluene	10.0	10.19		ug/L		102	80 - 120	7	20
4-Methyl-2-pentanone	10.0	9.872		ug/L		99	63 - 120	5	20
Acetone	10.0	10.90		ug/L		109	45 - 139	2	30
Benzene	10.0	10.07		ug/L		101	80 - 120	5	20
Bromobenzene	10.0	10.51		ug/L		105	80 - 125	2	20
Bromochloromethane	10.0	9.880		ug/L		99	80 - 120	2	20
Bromodichloromethane	10.0	10.73		ug/L		107	73 - 131	3	20
Bromoform	10.0	11.52		ug/L		115	76 - 124	2	20
Bromomethane	10.0	10.62		ug/L		106	26 - 180	12	20
cis-1,2-Dichloroethene	10.0	10.26		ug/L		103	80 - 120	1	20
cis-1,3-Dichloropropene	10.0	9.955		ug/L		100	76 - 123	1	20
Carbon disulfide	10.0	9.678		ug/L		97	75 - 123	15	20
Carbon tetrachloride	10.0	11.83		ug/L		118	61 - 139	6	20

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258643/4
Matrix: Water
Analysis Batch: 258643

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	10.0	10.32		ug/L		103	80 - 120	3	20
Chloroethane	10.0	10.34		ug/L		103	54 - 150	13	25
Chloroform	10.0	9.984		ug/L		100	80 - 120	5	20
Chloromethane	10.0	10.28		ug/L		103	28 - 151	11	20
Dibromochloromethane	10.0	11.24		ug/L		112	74 - 136	3	20
Dibromomethane	10.0	10.15		ug/L		102	80 - 122	2	20
Dichlorodifluoromethane	10.0	10.85		ug/L		109	27 - 154	13	21
Ethylbenzene	10.0	10.55		ug/L		106	80 - 126	4	20
Isopropylbenzene	10.0	10.60		ug/L		106	80 - 120	5	20
Methylene Chloride	10.0	9.405		ug/L		94	80 - 120	11	20
Methyl-t-Butyl Ether (MTBE)	10.0	10.04		ug/L		100	69 - 128	4	20
Naphthalene	10.0	9.992		ug/L		100	70 - 130	4	20
n-Butylbenzene	10.0	10.04		ug/L		100	78 - 127	5	20
N-Propylbenzene	10.0	10.81		ug/L		108	80 - 121	4	20
o-Xylene	10.0	10.69		ug/L		107	80 - 124	2	20
m,p-Xylene	20.0	21.53		ug/L		108	80 - 123	5	20
p-Isopropyltoluene	10.0	10.73		ug/L		107	80 - 128	5	20
sec-Butylbenzene	10.0	10.61		ug/L		106	80 - 125	6	20
Styrene	10.0	9.786		ug/L		98	80 - 121	3	20
trans-1,2-Dichloroethene	10.0	9.450		ug/L		95	79 - 120	15	20
trans-1,3-Dichloropropene	10.0	10.93		ug/L		109	80 - 126	2	20
tert-Butylbenzene	10.0	10.36		ug/L		104	80 - 121	6	20
Tetrachloroethene	10.0	10.73		ug/L		107	80 - 125	7	20
Toluene	10.0	10.34		ug/L		103	80 - 120	2	20
Trichloroethene	10.0	10.49		ug/L		105	77 - 124	1	20
Trichlorofluoromethane	10.0	10.80		ug/L		108	41 - 163	9	21
Vinyl acetate	10.0	11.06		ug/L		111	61 - 126	3	24
Vinyl chloride	10.0	10.22		ug/L		102	50 - 160	8	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		64 - 132
4-Bromofluorobenzene (Surr)	103		76 - 120
Dibromofluoromethane	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 570-258728/9
Matrix: Water
Analysis Batch: 258728

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 17:22	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 17:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 17:22	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 17:22	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 17:22	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 17:22	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 17:22	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258728/9

Matrix: Water

Analysis Batch: 258728

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 17:22	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 17:22	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 17:22	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 17:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 17:22	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 17:22	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 17:22	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 17:22	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 17:22	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 17:22	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 17:22	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 17:22	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 17:22	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 17:22	1
2-Butanone	ND		5.0		ug/L			08/23/22 17:22	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 17:22	1
2-Hexanone	ND		6.0		ug/L			08/23/22 17:22	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 17:22	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 17:22	1
Acetone	ND		8.0		ug/L			08/23/22 17:22	1
Benzene	ND		0.50		ug/L			08/23/22 17:22	1
Bromobenzene	ND		0.50		ug/L			08/23/22 17:22	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 17:22	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 17:22	1
Bromoform	ND		0.50		ug/L			08/23/22 17:22	1
Bromomethane	ND		2.0		ug/L			08/23/22 17:22	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 17:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 17:22	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 17:22	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 17:22	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 17:22	1
Chloroethane	ND		0.50		ug/L			08/23/22 17:22	1
Chloroform	ND		0.50		ug/L			08/23/22 17:22	1
Chloromethane	ND		1.0		ug/L			08/23/22 17:22	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 17:22	1
Dibromomethane	ND		0.50		ug/L			08/23/22 17:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 17:22	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 17:22	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 17:22	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 17:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 17:22	1
Naphthalene	ND		1.0		ug/L			08/23/22 17:22	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 17:22	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 17:22	1
o-Xylene	ND		0.50		ug/L			08/23/22 17:22	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 17:22	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 17:22	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 17:22	1
Styrene	ND		0.50		ug/L			08/23/22 17:22	1

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258728/9
Matrix: Water
Analysis Batch: 258728

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 17:22	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 17:22	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 17:22	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 17:22	1
Toluene	ND		0.50		ug/L			08/23/22 17:22	1
Trichloroethene	ND		0.50		ug/L			08/23/22 17:22	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 17:22	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 17:22	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 17:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 132		08/23/22 17:22	1
4-Bromofluorobenzene (Surr)	100		76 - 120		08/23/22 17:22	1
Dibromofluoromethane	104		80 - 120		08/23/22 17:22	1
Toluene-d8 (Surr)	97		80 - 120		08/23/22 17:22	1

Lab Sample ID: LCS 570-258728/6
Matrix: Water
Analysis Batch: 258728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	11.42		ug/L		114	80 - 125
1,1,1-Trichloroethane	10.0	11.26		ug/L		113	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.81		ug/L		108	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.69		ug/L		127	56 - 132
1,1,2-Trichloroethane	10.0	11.15		ug/L		111	80 - 121
1,1-Dichloroethane	10.0	10.05		ug/L		100	80 - 120
1,1-Dichloroethene	10.0	10.79		ug/L		108	80 - 126
1,1-Dichloropropene	10.0	11.87		ug/L		119	72 - 122
1,2,3-Trichlorobenzene	10.0	10.77		ug/L		108	80 - 125
1,2,3-Trichloropropane	10.0	11.03		ug/L		110	75 - 127
1,2,4-Trichlorobenzene	10.0	10.52		ug/L		105	80 - 124
1,2,4-Trimethylbenzene	10.0	10.84		ug/L		108	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	10.37		ug/L		104	63 - 123
1,2-Dibromoethane	10.0	12.00		ug/L		120	80 - 125
1,2-Dichlorobenzene	10.0	10.51		ug/L		105	80 - 120
1,2-Dichloroethane	10.0	10.48		ug/L		105	76 - 130
1,2-Dichloropropane	10.0	9.670		ug/L		97	74 - 124
1,3,5-Trimethylbenzene	10.0	12.01		ug/L		120	80 - 122
1,3-Dichlorobenzene	10.0	10.53		ug/L		105	80 - 120
1,3-Dichloropropane	10.0	11.19		ug/L		112	80 - 121
1,4-Dichlorobenzene	10.0	10.16		ug/L		102	80 - 120
2,2-Dichloropropane	10.0	12.05		ug/L		120	79 - 131
2-Butanone	10.0	10.98		ug/L		110	48 - 145
2-Chlorotoluene	10.0	10.79		ug/L		108	80 - 120
2-Hexanone	10.0	10.02		ug/L		100	50 - 149
4-Chlorotoluene	10.0	10.61		ug/L		106	80 - 120
4-Methyl-2-pentanone	10.0	9.230		ug/L		92	63 - 120

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258728/6
Matrix: Water
Analysis Batch: 258728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10.0	10.62		ug/L		106	45 - 139
Benzene	10.0	11.62		ug/L		116	80 - 120
Bromobenzene	10.0	11.95		ug/L		120	80 - 125
Bromochloromethane	10.0	10.51		ug/L		105	80 - 120
Bromodichloromethane	10.0	11.15		ug/L		112	73 - 131
Bromoform	10.0	11.35		ug/L		114	76 - 124
Bromomethane	10.0	10.31		ug/L		103	26 - 180
cis-1,2-Dichloroethene	10.0	11.18		ug/L		112	80 - 120
cis-1,3-Dichloropropene	10.0	10.88		ug/L		109	76 - 123
Carbon disulfide	10.0	12.09		ug/L		121	75 - 123
Carbon tetrachloride	10.0	11.93		ug/L		119	61 - 139
Chlorobenzene	10.0	10.56		ug/L		106	80 - 120
Chloroethane	10.0	8.557		ug/L		86	54 - 150
Chloroform	10.0	11.24		ug/L		112	80 - 120
Chloromethane	10.0	9.188		ug/L		92	28 - 151
Dibromochloromethane	10.0	12.05		ug/L		121	74 - 136
Dibromomethane	10.0	10.15		ug/L		102	80 - 122
Dichlorodifluoromethane	10.0	11.51		ug/L		115	27 - 154
Ethylbenzene	10.0	10.86		ug/L		109	80 - 126
Isopropylbenzene	10.0	11.55		ug/L		116	80 - 120
Methylene Chloride	10.0	10.97		ug/L		110	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	9.646		ug/L		96	69 - 128
Naphthalene	10.0	9.910		ug/L		99	70 - 130
n-Butylbenzene	10.0	10.64		ug/L		106	78 - 127
N-Propylbenzene	10.0	11.38		ug/L		114	80 - 121
o-Xylene	10.0	10.57		ug/L		106	80 - 124
m,p-Xylene	20.0	22.44		ug/L		112	80 - 123
p-Isopropyltoluene	10.0	10.58		ug/L		106	80 - 128
sec-Butylbenzene	10.0	11.07		ug/L		111	80 - 125
Styrene	10.0	11.61		ug/L		116	80 - 121
trans-1,2-Dichloroethene	10.0	9.549		ug/L		95	79 - 120
trans-1,3-Dichloropropene	10.0	11.78		ug/L		118	80 - 126
tert-Butylbenzene	10.0	10.21		ug/L		102	80 - 121
Tetrachloroethene	10.0	11.88		ug/L		119	80 - 125
Toluene	10.0	10.60		ug/L		106	80 - 120
Trichloroethene	10.0	10.94		ug/L		109	77 - 124
Trichlorofluoromethane	10.0	10.35		ug/L		104	41 - 163
Vinyl acetate	10.0	13.03	*+ me	ug/L		130	61 - 126
Vinyl chloride	10.0	9.918		ug/L		99	50 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		64 - 132
4-Bromofluorobenzene (Surr)	106		76 - 120
Dibromofluoromethane	101		80 - 120
Toluene-d8 (Surr)	99		80 - 120

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258728/7

Matrix: Water

Analysis Batch: 258728

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.75		ug/L		107	80 - 125	6	20
1,1,1-Trichloroethane	10.0	10.60		ug/L		106	75 - 121	6	20
1,1,2,2-Tetrachloroethane	10.0	11.27		ug/L		113	80 - 120	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.66		ug/L		117	56 - 132	8	22
1,1,2-Trichloroethane	10.0	11.07		ug/L		111	80 - 121	1	20
1,1-Dichloroethane	10.0	9.701		ug/L		97	80 - 120	4	20
1,1-Dichloroethene	10.0	10.16		ug/L		102	80 - 126	6	21
1,1-Dichloropropene	10.0	11.34		ug/L		113	72 - 122	5	20
1,2,3-Trichlorobenzene	10.0	10.75		ug/L		108	80 - 125	0	20
1,2,3-Trichloropropane	10.0	11.48		ug/L		115	75 - 127	4	20
1,2,4-Trichlorobenzene	10.0	10.38		ug/L		104	80 - 124	1	20
1,2,4-Trimethylbenzene	10.0	10.48		ug/L		105	80 - 128	3	20
1,2-Dibromo-3-Chloropropane	10.0	9.991		ug/L		100	63 - 123	4	20
1,2-Dibromoethane	10.0	11.95		ug/L		120	80 - 125	0	20
1,2-Dichlorobenzene	10.0	10.44		ug/L		104	80 - 120	1	20
1,2-Dichloroethane	10.0	10.28		ug/L		103	76 - 130	2	20
1,2-Dichloropropane	10.0	9.388		ug/L		94	74 - 124	3	20
1,3,5-Trimethylbenzene	10.0	11.73		ug/L		117	80 - 122	2	20
1,3-Dichlorobenzene	10.0	10.18		ug/L		102	80 - 120	3	20
1,3-Dichloropropane	10.0	11.43		ug/L		114	80 - 121	2	20
1,4-Dichlorobenzene	10.0	10.23		ug/L		102	80 - 120	1	20
2,2-Dichloropropane	10.0	11.34		ug/L		113	79 - 131	6	20
2-Butanone	10.0	11.22		ug/L		112	48 - 145	2	30
2-Chlorotoluene	10.0	10.81		ug/L		108	80 - 120	0	20
2-Hexanone	10.0	10.70		ug/L		107	50 - 149	7	29
4-Chlorotoluene	10.0	10.26		ug/L		103	80 - 120	3	20
4-Methyl-2-pentanone	10.0	9.055		ug/L		91	63 - 120	2	20
Acetone	10.0	10.04		ug/L		100	45 - 139	6	30
Benzene	10.0	11.00		ug/L		110	80 - 120	5	20
Bromobenzene	10.0	12.21		ug/L		122	80 - 125	2	20
Bromochloromethane	10.0	10.72		ug/L		107	80 - 120	2	20
Bromodichloromethane	10.0	10.63		ug/L		106	73 - 131	5	20
Bromoform	10.0	11.40		ug/L		114	76 - 124	0	20
Bromomethane	10.0	9.374		ug/L		94	26 - 180	10	20
cis-1,2-Dichloroethene	10.0	11.07		ug/L		111	80 - 120	1	20
cis-1,3-Dichloropropene	10.0	10.62		ug/L		106	76 - 123	2	20
Carbon disulfide	10.0	11.64		ug/L		116	75 - 123	4	20
Carbon tetrachloride	10.0	11.38		ug/L		114	61 - 139	5	20
Chlorobenzene	10.0	10.27		ug/L		103	80 - 120	3	20
Chloroethane	10.0	7.976		ug/L		80	54 - 150	7	25
Chloroform	10.0	10.89		ug/L		109	80 - 120	3	20
Chloromethane	10.0	10.28		ug/L		103	28 - 151	11	20
Dibromochloromethane	10.0	11.69		ug/L		117	74 - 136	3	20
Dibromomethane	10.0	10.34		ug/L		103	80 - 122	2	20
Dichlorodifluoromethane	10.0	11.02		ug/L		110	27 - 154	4	21
Ethylbenzene	10.0	10.49		ug/L		105	80 - 126	4	20
Isopropylbenzene	10.0	11.38		ug/L		114	80 - 120	2	20
Methylene Chloride	10.0	11.40		ug/L		114	80 - 120	4	20

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258728/7
Matrix: Water
Analysis Batch: 258728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl-t-Butyl Ether (MTBE)	10.0	9.839		ug/L		98	69 - 128	2	20
Naphthalene	10.0	9.785		ug/L		98	70 - 130	1	20
n-Butylbenzene	10.0	10.08		ug/L		101	78 - 127	5	20
N-Propylbenzene	10.0	11.18		ug/L		112	80 - 121	2	20
o-Xylene	10.0	10.79		ug/L		108	80 - 124	2	20
m,p-Xylene	20.0	21.45		ug/L		107	80 - 123	4	20
p-Isopropyltoluene	10.0	10.23		ug/L		102	80 - 128	3	20
sec-Butylbenzene	10.0	10.45		ug/L		104	80 - 125	6	20
Styrene	10.0	11.60		ug/L		116	80 - 121	0	20
trans-1,2-Dichloroethene	10.0	9.288		ug/L		93	79 - 120	3	20
trans-1,3-Dichloropropene	10.0	11.71		ug/L		117	80 - 126	1	20
tert-Butylbenzene	10.0	9.896		ug/L		99	80 - 121	3	20
Tetrachloroethene	10.0	11.14		ug/L		111	80 - 125	6	20
Toluene	10.0	10.07		ug/L		101	80 - 120	5	20
Trichloroethene	10.0	10.28		ug/L		103	77 - 124	6	20
Trichlorofluoromethane	10.0	9.594		ug/L		96	41 - 163	8	21
Vinyl acetate	10.0	12.97	*+ me	ug/L		130	61 - 126	0	24
Vinyl chloride	10.0	10.09		ug/L		101	50 - 160	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 132
4-Bromofluorobenzene (Surr)	112		76 - 120
Dibromofluoromethane	106		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 570-258895/6
Matrix: Water
Analysis Batch: 258895

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 23:36	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/23/22 23:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/23/22 23:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/23/22 23:36	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/23/22 23:36	1
1,1-Dichloroethane	ND		0.50		ug/L			08/23/22 23:36	1
1,1-Dichloroethene	ND		0.50		ug/L			08/23/22 23:36	1
1,1-Dichloropropene	ND		0.50		ug/L			08/23/22 23:36	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/23/22 23:36	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/23/22 23:36	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/23/22 23:36	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/23/22 23:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/23/22 23:36	1
1,2-Dibromoethane	ND		0.50		ug/L			08/23/22 23:36	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:36	1
1,2-Dichloroethane	ND		0.50		ug/L			08/23/22 23:36	1
1,2-Dichloropropane	ND		0.50		ug/L			08/23/22 23:36	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/23/22 23:36	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258895/6
Matrix: Water
Analysis Batch: 258895

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:36	1
1,3-Dichloropropane	ND		0.50		ug/L			08/23/22 23:36	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/23/22 23:36	1
2,2-Dichloropropane	ND		0.50		ug/L			08/23/22 23:36	1
2-Butanone	ND		5.0		ug/L			08/23/22 23:36	1
2-Chlorotoluene	ND		0.50		ug/L			08/23/22 23:36	1
2-Hexanone	ND		6.0		ug/L			08/23/22 23:36	1
4-Chlorotoluene	ND		0.50		ug/L			08/23/22 23:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/23/22 23:36	1
Acetone	ND		8.0		ug/L			08/23/22 23:36	1
Benzene	ND		0.50		ug/L			08/23/22 23:36	1
Bromobenzene	ND		0.50		ug/L			08/23/22 23:36	1
Bromochloromethane	ND		1.0		ug/L			08/23/22 23:36	1
Bromodichloromethane	ND		0.50		ug/L			08/23/22 23:36	1
Bromoform	ND		0.50		ug/L			08/23/22 23:36	1
Bromomethane	ND		2.0		ug/L			08/23/22 23:36	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 23:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 23:36	1
Carbon disulfide	ND		1.0		ug/L			08/23/22 23:36	1
Carbon tetrachloride	ND		0.50		ug/L			08/23/22 23:36	1
Chlorobenzene	ND		0.50		ug/L			08/23/22 23:36	1
Chloroethane	ND		0.50		ug/L			08/23/22 23:36	1
Chloroform	ND		0.50		ug/L			08/23/22 23:36	1
Chloromethane	ND		1.0		ug/L			08/23/22 23:36	1
Dibromochloromethane	ND		0.50		ug/L			08/23/22 23:36	1
Dibromomethane	ND		0.50		ug/L			08/23/22 23:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/23/22 23:36	1
Ethylbenzene	ND		0.50		ug/L			08/23/22 23:36	1
Isopropylbenzene	ND		0.50		ug/L			08/23/22 23:36	1
Methylene Chloride	ND		1.0		ug/L			08/23/22 23:36	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/23/22 23:36	1
Naphthalene	ND		1.0		ug/L			08/23/22 23:36	1
n-Butylbenzene	ND		0.50		ug/L			08/23/22 23:36	1
N-Propylbenzene	ND		0.50		ug/L			08/23/22 23:36	1
o-Xylene	ND		0.50		ug/L			08/23/22 23:36	1
m,p-Xylene	ND		1.0		ug/L			08/23/22 23:36	1
p-Isopropyltoluene	ND		0.50		ug/L			08/23/22 23:36	1
sec-Butylbenzene	ND		0.50		ug/L			08/23/22 23:36	1
Styrene	ND		0.50		ug/L			08/23/22 23:36	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/23/22 23:36	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/23/22 23:36	1
tert-Butylbenzene	ND		0.50		ug/L			08/23/22 23:36	1
Tetrachloroethene	ND		0.50		ug/L			08/23/22 23:36	1
Toluene	ND		0.50		ug/L			08/23/22 23:36	1
Trichloroethene	ND		0.50		ug/L			08/23/22 23:36	1
Trichlorofluoromethane	ND		0.50		ug/L			08/23/22 23:36	1
Vinyl acetate	ND		5.0		ug/L			08/23/22 23:36	1
Vinyl chloride	ND		0.50		ug/L			08/23/22 23:36	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258895/6
Matrix: Water
Analysis Batch: 258895

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		08/23/22 23:36	1
4-Bromofluorobenzene (Surr)	96		76 - 120		08/23/22 23:36	1
Dibromofluoromethane	105		80 - 120		08/23/22 23:36	1
Toluene-d8 (Surr)	101		80 - 120		08/23/22 23:36	1

Lab Sample ID: LCS 570-258895/3
Matrix: Water
Analysis Batch: 258895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	10.65		ug/L		107	75 - 121
1,1,1,2-Tetrachloroethane	10.0	10.86		ug/L		109	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.67		ug/L		107	56 - 132
1,1,2-Trichloroethane	10.0	11.11		ug/L		111	80 - 121
1,1-Dichloroethane	10.0	10.48		ug/L		105	80 - 120
1,1-Dichloroethene	10.0	11.21		ug/L		112	80 - 126
1,1-Dichloropropene	10.0	10.65		ug/L		106	72 - 122
1,2,3-Trichlorobenzene	10.0	11.03		ug/L		110	80 - 125
1,2,3-Trichloropropane	10.0	9.920		ug/L		99	75 - 127
1,2,4-Trichlorobenzene	10.0	10.68		ug/L		107	80 - 124
1,2,4-Trimethylbenzene	10.0	10.76		ug/L		108	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	9.349		ug/L		93	63 - 123
1,2-Dibromoethane	10.0	10.22		ug/L		102	80 - 125
1,2-Dichlorobenzene	10.0	10.92		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.64		ug/L		106	76 - 130
1,2-Dichloropropane	10.0	10.71		ug/L		107	74 - 124
1,3,5-Trimethylbenzene	10.0	11.02		ug/L		110	80 - 122
1,3-Dichlorobenzene	10.0	10.70		ug/L		107	80 - 120
1,3-Dichloropropane	10.0	10.73		ug/L		107	80 - 121
1,4-Dichlorobenzene	10.0	10.33		ug/L		103	80 - 120
2,2-Dichloropropane	10.0	10.98		ug/L		110	79 - 131
2-Butanone	10.0	11.56		ug/L		116	48 - 145
2-Chlorotoluene	10.0	10.65		ug/L		106	80 - 120
2-Hexanone	10.0	10.25		ug/L		102	50 - 149
4-Chlorotoluene	10.0	10.39		ug/L		104	80 - 120
4-Methyl-2-pentanone	10.0	9.746		ug/L		97	63 - 120
Acetone	10.0	11.83		ug/L		118	45 - 139
Benzene	10.0	10.48		ug/L		105	80 - 120
Bromobenzene	10.0	10.78		ug/L		108	80 - 125
Bromochloromethane	10.0	10.40		ug/L		104	80 - 120
Bromodichloromethane	10.0	11.04		ug/L		110	73 - 131
Bromoform	10.0	10.32		ug/L		103	76 - 124
Bromomethane	10.0	11.38		ug/L		114	26 - 180
cis-1,2-Dichloroethene	10.0	10.73		ug/L		107	80 - 120
cis-1,3-Dichloropropene	10.0	9.582		ug/L		96	76 - 123
Carbon disulfide	10.0	10.48		ug/L		105	75 - 123
Carbon tetrachloride	10.0	11.13		ug/L		111	61 - 139

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258895/3
Matrix: Water
Analysis Batch: 258895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	10.0	10.64		ug/L		106	80 - 120
Chloroethane	10.0	9.691		ug/L		97	54 - 150
Chloroform	10.0	10.43		ug/L		104	80 - 120
Chloromethane	10.0	11.54		ug/L		115	28 - 151
Dibromochloromethane	10.0	10.76		ug/L		108	74 - 136
Dibromomethane	10.0	10.89		ug/L		109	80 - 122
Dichlorodifluoromethane	10.0	10.28		ug/L		103	27 - 154
Ethylbenzene	10.0	10.76		ug/L		108	80 - 126
Isopropylbenzene	10.0	10.88		ug/L		109	80 - 120
Methylene Chloride	10.0	10.40		ug/L		104	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	10.17		ug/L		102	69 - 128
Naphthalene	10.0	10.38		ug/L		104	70 - 130
n-Butylbenzene	10.0	10.49		ug/L		105	78 - 127
N-Propylbenzene	10.0	11.17		ug/L		112	80 - 121
o-Xylene	10.0	10.81		ug/L		108	80 - 124
m,p-Xylene	20.0	22.56		ug/L		113	80 - 123
p-Isopropyltoluene	10.0	10.99		ug/L		110	80 - 128
sec-Butylbenzene	10.0	10.97		ug/L		110	80 - 125
Styrene	10.0	9.880		ug/L		99	80 - 121
trans-1,2-Dichloroethene	10.0	10.40		ug/L		104	79 - 120
trans-1,3-Dichloropropene	10.0	10.20		ug/L		102	80 - 126
tert-Butylbenzene	10.0	10.74		ug/L		107	80 - 121
Tetrachloroethene	10.0	11.04		ug/L		110	80 - 125
Toluene	10.0	10.57		ug/L		106	80 - 120
Trichloroethene	10.0	10.96		ug/L		110	77 - 124
Trichlorofluoromethane	10.0	10.59		ug/L		106	41 - 163
Vinyl acetate	10.0	8.945		ug/L		89	61 - 126
Vinyl chloride	10.0	9.391		ug/L		94	50 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 132
4-Bromofluorobenzene (Surr)	101		76 - 120
Dibromofluoromethane	97		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 570-258895/4
Matrix: Water
Analysis Batch: 258895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.10		ug/L		101	80 - 125	1	20
1,1,1-Trichloroethane	10.0	10.54		ug/L		105	75 - 121	1	20
1,1,2,2-Tetrachloroethane	10.0	11.02		ug/L		110	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.55		ug/L		105	56 - 132	1	22
1,1,2-Trichloroethane	10.0	11.50		ug/L		115	80 - 121	3	20
1,1-Dichloroethane	10.0	10.19		ug/L		102	80 - 120	3	20
1,1-Dichloroethene	10.0	11.20		ug/L		112	80 - 126	0	21
1,1-Dichloropropene	10.0	10.57		ug/L		106	72 - 122	1	20

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258895/4
Matrix: Water
Analysis Batch: 258895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	10.0	10.86		ug/L		109	80 - 125	2	20
1,2,3-Trichloropropane	10.0	10.31		ug/L		103	75 - 127	4	20
1,2,4-Trichlorobenzene	10.0	10.57		ug/L		106	80 - 124	1	20
1,2,4-Trimethylbenzene	10.0	10.36		ug/L		104	80 - 128	4	20
1,2-Dibromo-3-Chloropropane	10.0	8.955		ug/L		90	63 - 123	4	20
1,2-Dibromoethane	10.0	10.15		ug/L		102	80 - 125	1	20
1,2-Dichlorobenzene	10.0	10.54		ug/L		105	80 - 120	4	20
1,2-Dichloroethane	10.0	10.89		ug/L		109	76 - 130	2	20
1,2-Dichloropropane	10.0	10.89		ug/L		109	74 - 124	2	20
1,3,5-Trimethylbenzene	10.0	11.15		ug/L		111	80 - 122	1	20
1,3-Dichlorobenzene	10.0	10.32		ug/L		103	80 - 120	4	20
1,3-Dichloropropane	10.0	10.93		ug/L		109	80 - 121	2	20
1,4-Dichlorobenzene	10.0	10.02		ug/L		100	80 - 120	3	20
2,2-Dichloropropane	10.0	10.59		ug/L		106	79 - 131	4	20
2-Butanone	10.0	11.74		ug/L		117	48 - 145	1	30
2-Chlorotoluene	10.0	10.69		ug/L		107	80 - 120	0	20
2-Hexanone	10.0	9.755		ug/L		98	50 - 149	5	29
4-Chlorotoluene	10.0	10.26		ug/L		103	80 - 120	1	20
4-Methyl-2-pentanone	10.0	10.10		ug/L		101	63 - 120	4	20
Acetone	10.0	11.13		ug/L		111	45 - 139	6	30
Benzene	10.0	10.50		ug/L		105	80 - 120	0	20
Bromobenzene	10.0	10.79		ug/L		108	80 - 125	0	20
Bromochloromethane	10.0	10.55		ug/L		105	80 - 120	1	20
Bromodichloromethane	10.0	11.12		ug/L		111	73 - 131	1	20
Bromoform	10.0	10.65		ug/L		107	76 - 124	3	20
Bromomethane	10.0	10.03		ug/L		100	26 - 180	13	20
cis-1,2-Dichloroethene	10.0	10.68		ug/L		107	80 - 120	0	20
cis-1,3-Dichloropropene	10.0	9.921		ug/L		99	76 - 123	3	20
Carbon disulfide	10.0	10.34		ug/L		103	75 - 123	1	20
Carbon tetrachloride	10.0	10.81		ug/L		108	61 - 139	3	20
Chlorobenzene	10.0	10.61		ug/L		106	80 - 120	0	20
Chloroethane	10.0	9.568		ug/L		96	54 - 150	1	25
Chloroform	10.0	10.46		ug/L		105	80 - 120	0	20
Chloromethane	10.0	11.28		ug/L		113	28 - 151	2	20
Dibromochloromethane	10.0	11.09		ug/L		111	74 - 136	3	20
Dibromomethane	10.0	11.07		ug/L		111	80 - 122	2	20
Dichlorodifluoromethane	10.0	9.861		ug/L		99	27 - 154	4	21
Ethylbenzene	10.0	10.72		ug/L		107	80 - 126	0	20
Isopropylbenzene	10.0	10.89		ug/L		109	80 - 120	0	20
Methylene Chloride	10.0	9.788		ug/L		98	80 - 120	6	20
Methyl-t-Butyl Ether (MTBE)	10.0	10.46		ug/L		105	69 - 128	3	20
Naphthalene	10.0	10.63		ug/L		106	70 - 130	2	20
n-Butylbenzene	10.0	9.972		ug/L		100	78 - 127	5	20
N-Propylbenzene	10.0	11.10		ug/L		111	80 - 121	1	20
o-Xylene	10.0	10.93		ug/L		109	80 - 124	1	20
m,p-Xylene	20.0	22.18		ug/L		111	80 - 123	2	20
p-Isopropyltoluene	10.0	10.53		ug/L		105	80 - 128	4	20
sec-Butylbenzene	10.0	10.50		ug/L		105	80 - 125	4	20
Styrene	10.0	10.07		ug/L		101	80 - 121	2	20

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258895/4
Matrix: Water
Analysis Batch: 258895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	10.0	10.16		ug/L		102	79 - 120	2	20
trans-1,3-Dichloropropene	10.0	10.61		ug/L		106	80 - 126	4	20
tert-Butylbenzene	10.0	10.26		ug/L		103	80 - 121	5	20
Tetrachloroethene	10.0	10.89		ug/L		109	80 - 125	1	20
Toluene	10.0	10.71		ug/L		107	80 - 120	1	20
Trichloroethene	10.0	10.67		ug/L		107	77 - 124	3	20
Trichlorofluoromethane	10.0	10.33		ug/L		103	41 - 163	2	21
Vinyl acetate	10.0	9.878		ug/L		99	61 - 126	10	24
Vinyl chloride	10.0	9.284		ug/L		93	50 - 160	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 132
4-Bromofluorobenzene (Surr)	103		76 - 120
Dibromofluoromethane	103		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 570-258931/6
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 09:16	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 09:16	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 09:16	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 09:16	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 09:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 09:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 09:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 09:16	1
2-Butanone	ND		5.0		ug/L			08/24/22 09:16	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 09:16	1
2-Hexanone	ND		6.0		ug/L			08/24/22 09:16	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 09:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 09:16	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258931/6
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		8.0		ug/L			08/24/22 09:16	1
Benzene	ND		0.50		ug/L			08/24/22 09:16	1
Bromobenzene	ND		0.50		ug/L			08/24/22 09:16	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 09:16	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 09:16	1
Bromoform	ND		0.50		ug/L			08/24/22 09:16	1
Bromomethane	ND		2.0		ug/L			08/24/22 09:16	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 09:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 09:16	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 09:16	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 09:16	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
Chloroethane	ND		0.50		ug/L			08/24/22 09:16	1
Chloroform	ND		0.50		ug/L			08/24/22 09:16	1
Chloromethane	ND		1.0		ug/L			08/24/22 09:16	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 09:16	1
Dibromomethane	ND		0.50		ug/L			08/24/22 09:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 09:16	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 09:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 09:16	1
Naphthalene	ND		1.0		ug/L			08/24/22 09:16	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
o-Xylene	ND		0.50		ug/L			08/24/22 09:16	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 09:16	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 09:16	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
Styrene	ND		0.50		ug/L			08/24/22 09:16	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 09:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 09:16	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 09:16	1
Toluene	ND		0.50		ug/L			08/24/22 09:16	1
Trichloroethene	ND		0.50		ug/L			08/24/22 09:16	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 09:16	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 09:16	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 09:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 132		08/24/22 09:16	1
4-Bromofluorobenzene (Surr)	97		76 - 120		08/24/22 09:16	1
Dibromofluoromethane	105		80 - 120		08/24/22 09:16	1
Toluene-d8 (Surr)	102		80 - 120		08/24/22 09:16	1

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258931/3

Matrix: Water

Analysis Batch: 258931

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	13.01	*+ me	ug/L		130	80 - 125
1,1,1-Trichloroethane	10.0	11.30		ug/L		113	75 - 121
1,1,2,2-Tetrachloroethane	10.0	11.22		ug/L		112	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.55		ug/L		125	56 - 132
1,1,2-Trichloroethane	10.0	10.56		ug/L		106	80 - 121
1,1-Dichloroethane	10.0	11.33		ug/L		113	80 - 120
1,1-Dichloroethene	10.0	11.63		ug/L		116	80 - 126
1,1-Dichloropropene	10.0	11.39		ug/L		114	72 - 122
1,2,3-Trichlorobenzene	10.0	10.85		ug/L		109	80 - 125
1,2,3-Trichloropropane	10.0	10.28		ug/L		103	75 - 127
1,2,4-Trichlorobenzene	10.0	10.55		ug/L		105	80 - 124
1,2,4-Trimethylbenzene	10.0	10.97		ug/L		110	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	11.15		ug/L		112	63 - 123
1,2-Dibromoethane	10.0	10.26		ug/L		103	80 - 125
1,2-Dichlorobenzene	10.0	10.53		ug/L		105	80 - 120
1,2-Dichloroethane	10.0	9.576		ug/L		96	76 - 130
1,2-Dichloropropane	10.0	11.02		ug/L		110	74 - 124
1,3,5-Trimethylbenzene	10.0	10.76		ug/L		108	80 - 122
1,3-Dichlorobenzene	10.0	10.79		ug/L		108	80 - 120
1,3-Dichloropropane	10.0	10.21		ug/L		102	80 - 121
1,4-Dichlorobenzene	10.0	10.64		ug/L		106	80 - 120
2,2-Dichloropropane	10.0	10.73		ug/L		107	79 - 131
2-Butanone	10.0	8.846		ug/L		88	48 - 145
2-Chlorotoluene	10.0	10.76		ug/L		108	80 - 120
2-Hexanone	10.0	9.015		ug/L		90	50 - 149
4-Chlorotoluene	10.0	10.88		ug/L		109	80 - 120
4-Methyl-2-pentanone	10.0	9.086		ug/L		91	63 - 120
Acetone	10.0	8.135		ug/L		81	45 - 139
Benzene	10.0	10.77		ug/L		108	80 - 120
Bromobenzene	10.0	10.48		ug/L		105	80 - 125
Bromochloromethane	10.0	10.42		ug/L		104	80 - 120
Bromodichloromethane	10.0	12.02		ug/L		120	73 - 131
Bromoform	10.0	15.22	*+	ug/L		152	76 - 124
Bromomethane	10.0	7.366		ug/L		74	26 - 180
cis-1,2-Dichloroethene	10.0	11.53		ug/L		115	80 - 120
cis-1,3-Dichloropropene	10.0	10.85		ug/L		108	76 - 123
Carbon disulfide	10.0	12.00		ug/L		120	75 - 123
Carbon tetrachloride	10.0	14.15	*+ me	ug/L		142	61 - 139
Chlorobenzene	10.0	10.93		ug/L		109	80 - 120
Chloroethane	10.0	12.93		ug/L		129	54 - 150
Chloroform	10.0	10.92		ug/L		109	80 - 120
Chloromethane	10.0	8.384		ug/L		84	28 - 151
Dibromochloromethane	10.0	13.85	*+ me	ug/L		138	74 - 136
Dibromomethane	10.0	10.51		ug/L		105	80 - 122
Dichlorodifluoromethane	10.0	11.31		ug/L		113	27 - 154
Ethylbenzene	10.0	10.92		ug/L		109	80 - 126
Isopropylbenzene	10.0	11.00		ug/L		110	80 - 120
Methylene Chloride	10.0	10.69		ug/L		107	80 - 120

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258931/3
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl-t-Butyl Ether (MTBE)	10.0	9.441		ug/L		94	69 - 128
Naphthalene	10.0	10.87		ug/L		109	70 - 130
n-Butylbenzene	10.0	11.52		ug/L		115	78 - 127
N-Propylbenzene	10.0	11.19		ug/L		112	80 - 121
o-Xylene	10.0	10.99		ug/L		110	80 - 124
m,p-Xylene	20.0	21.77		ug/L		109	80 - 123
p-Isopropyltoluene	10.0	11.38		ug/L		114	80 - 128
sec-Butylbenzene	10.0	11.49		ug/L		115	80 - 125
Styrene	10.0	11.17		ug/L		112	80 - 121
trans-1,2-Dichloroethene	10.0	11.38		ug/L		114	79 - 120
trans-1,3-Dichloropropene	10.0	10.27		ug/L		103	80 - 126
tert-Butylbenzene	10.0	11.28		ug/L		113	80 - 121
Tetrachloroethene	10.0	11.10		ug/L		111	80 - 125
Toluene	10.0	11.23		ug/L		112	80 - 120
Trichloroethene	10.0	11.31		ug/L		113	77 - 124
Trichlorofluoromethane	10.0	12.59		ug/L		126	41 - 163
Vinyl acetate	10.0	13.44	*+ me	ug/L		134	61 - 126
Vinyl chloride	10.0	12.14		ug/L		121	50 - 160

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		64 - 132
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane	105		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 570-258931/4
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	12.03		ug/L		120	80 - 125	8	20
1,1,1-Trichloroethane	10.0	10.31		ug/L		103	75 - 121	9	20
1,1,2,2-Tetrachloroethane	10.0	11.70		ug/L		117	80 - 120	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.02		ug/L		110	56 - 132	13	22
1,1,2-Trichloroethane	10.0	10.15		ug/L		102	80 - 121	4	20
1,1-Dichloroethane	10.0	10.46		ug/L		105	80 - 120	8	20
1,1-Dichloroethene	10.0	10.62		ug/L		106	80 - 126	9	21
1,1-Dichloropropene	10.0	10.68		ug/L		107	72 - 122	6	20
1,2,3-Trichlorobenzene	10.0	10.32		ug/L		103	80 - 125	5	20
1,2,3-Trichloropropane	10.0	10.39		ug/L		104	75 - 127	1	20
1,2,4-Trichlorobenzene	10.0	10.12		ug/L		101	80 - 124	4	20
1,2,4-Trimethylbenzene	10.0	10.06		ug/L		101	80 - 128	9	20
1,2-Dibromo-3-Chloropropane	10.0	11.82		ug/L		118	63 - 123	6	20
1,2-Dibromoethane	10.0	10.13		ug/L		101	80 - 125	1	20
1,2-Dichlorobenzene	10.0	10.00		ug/L		100	80 - 120	5	20
1,2-Dichloroethane	10.0	9.176		ug/L		92	76 - 130	4	20
1,2-Dichloropropane	10.0	10.30		ug/L		103	74 - 124	7	20
1,3,5-Trimethylbenzene	10.0	9.870		ug/L		99	80 - 122	9	20

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258931/4
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichlorobenzene	10.0	10.10		ug/L		101	80 - 120	7	20
1,3-Dichloropropane	10.0	9.979		ug/L		100	80 - 121	2	20
1,4-Dichlorobenzene	10.0	9.847		ug/L		98	80 - 120	8	20
2,2-Dichloropropane	10.0	9.549		ug/L		95	79 - 131	12	20
2-Butanone	10.0	9.465		ug/L		95	48 - 145	7	30
2-Chlorotoluene	10.0	9.885		ug/L		99	80 - 120	8	20
2-Hexanone	10.0	9.328		ug/L		93	50 - 149	3	29
4-Chlorotoluene	10.0	9.930		ug/L		99	80 - 120	9	20
4-Methyl-2-pentanone	10.0	9.624		ug/L		96	63 - 120	6	20
Acetone	10.0	8.249		ug/L		82	45 - 139	1	30
Benzene	10.0	9.918		ug/L		99	80 - 120	8	20
Bromobenzene	10.0	9.860		ug/L		99	80 - 125	6	20
Bromochloromethane	10.0	9.809		ug/L		98	80 - 120	6	20
Bromodichloromethane	10.0	11.25		ug/L		113	73 - 131	7	20
Bromoform	10.0	14.88	*+	ug/L		149	76 - 124	2	20
Bromomethane	10.0	6.521		ug/L		65	26 - 180	12	20
cis-1,2-Dichloroethene	10.0	10.53		ug/L		105	80 - 120	9	20
cis-1,3-Dichloropropene	10.0	10.36		ug/L		104	76 - 123	5	20
Carbon disulfide	10.0	10.94		ug/L		109	75 - 123	9	20
Carbon tetrachloride	10.0	12.87		ug/L		129	61 - 139	9	20
Chlorobenzene	10.0	10.03		ug/L		100	80 - 120	9	20
Chloroethane	10.0	11.49		ug/L		115	54 - 150	12	25
Chloroform	10.0	10.23		ug/L		102	80 - 120	7	20
Chloromethane	10.0	7.644		ug/L		76	28 - 151	9	20
Dibromochloromethane	10.0	13.48		ug/L		135	74 - 136	3	20
Dibromomethane	10.0	10.29		ug/L		103	80 - 122	2	20
Dichlorodifluoromethane	10.0	9.995		ug/L		100	27 - 154	12	21
Ethylbenzene	10.0	9.971		ug/L		100	80 - 126	9	20
Isopropylbenzene	10.0	10.03		ug/L		100	80 - 120	9	20
Methylene Chloride	10.0	10.14		ug/L		101	80 - 120	5	20
Methyl-t-Butyl Ether (MTBE)	10.0	9.521		ug/L		95	69 - 128	1	20
Naphthalene	10.0	10.85		ug/L		109	70 - 130	0	20
n-Butylbenzene	10.0	10.27		ug/L		103	78 - 127	12	20
N-Propylbenzene	10.0	10.19		ug/L		102	80 - 121	9	20
o-Xylene	10.0	10.16		ug/L		102	80 - 124	8	20
m,p-Xylene	20.0	19.79		ug/L		99	80 - 123	10	20
p-Isopropyltoluene	10.0	10.32		ug/L		103	80 - 128	10	20
sec-Butylbenzene	10.0	10.49		ug/L		105	80 - 125	9	20
Styrene	10.0	10.38		ug/L		104	80 - 121	7	20
trans-1,2-Dichloroethene	10.0	10.40		ug/L		104	79 - 120	9	20
trans-1,3-Dichloropropene	10.0	9.799		ug/L		98	80 - 126	5	20
tert-Butylbenzene	10.0	10.29		ug/L		103	80 - 121	9	20
Tetrachloroethene	10.0	9.915		ug/L		99	80 - 125	11	20
Toluene	10.0	10.25		ug/L		102	80 - 120	9	20
Trichloroethene	10.0	10.29		ug/L		103	77 - 124	9	20
Trichlorofluoromethane	10.0	11.49		ug/L		115	41 - 163	9	21
Vinyl acetate	10.0	12.56		ug/L		126	61 - 126	7	24
Vinyl chloride	10.0	10.87		ug/L		109	50 - 160	11	20

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258931/4
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		64 - 132
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane	104		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-257765/1-A
Matrix: Water
Analysis Batch: 258720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:44	08/23/22 12:25	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	42		21 - 120				08/18/22 11:44	08/23/22 12:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	71		58 - 135				08/18/22 11:44	08/23/22 12:25	1

Lab Sample ID: LCS 570-257765/2-A
Matrix: Water
Analysis Batch: 258720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	20.0	19.94		ug/L		100	63 - 144
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	42		21 - 120				
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Nitrobenzene-d5	69		58 - 135				

Lab Sample ID: LCSD 570-257765/3-A
Matrix: Water
Analysis Batch: 258720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257765

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	20.0	20.52		ug/L		103	63 - 144	3	20
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8	39		21 - 120						
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Nitrobenzene-d5	68		58 - 135						

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) - DL

Lab Sample ID: 570-106684-F-1-B MS
Matrix: Water
Analysis Batch: 258720

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257765

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
1,4-Dioxane - DL	220		20.0	208.0	4	ug/L		-52		48 - 164
	MS	MS								
Isotope Dilution	%Recovery	Qualifier	Limits							
1,4-Dioxane-d8 - DL	43	*3	21 - 120							
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
Nitrobenzene-d5 - DL	40	S1- *3	58 - 135							

Lab Sample ID: 570-106684-F-1-C MSD
Matrix: Water
Analysis Batch: 258720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257765

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
1,4-Dioxane - DL	220		20.0	199.5	4	ug/L		-95		48 - 164	4		20
	MSD	MSD											
Isotope Dilution	%Recovery	Qualifier	Limits										
1,4-Dioxane-d8 - DL	45	*3	21 - 120										
	MSD	MSD											
Surrogate	%Recovery	Qualifier	Limits										
Nitrobenzene-d5 - DL	46	*3 S1-	58 - 135										

Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 570-258627/5

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance
								Status
1,1,1,2-Tetrachloroethane	10.0	12.98	*+ me	ug/L	130	80 - 125	73 - 133	ME
1,1,1-Trichloroethane	10.0	11.20		ug/L	112	75 - 121	67 - 129	
1,1,2,2-Tetrachloroethane	10.0	10.72		ug/L	107	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.35		ug/L	123	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	10.48		ug/L	105	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	11.32		ug/L	113	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	11.42		ug/L	114	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	11.36		ug/L	114	72 - 122	64 - 130	
1,2,3-Trichlorobenzene	10.0	11.00		ug/L	110	80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	10.39		ug/L	104	75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	10.74		ug/L	107	80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.89		ug/L	109	80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	11.28		ug/L	113	63 - 123	53 - 133	
1,2-Dibromoethane	10.0	10.26		ug/L	103	80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.59		ug/L	106	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	9.487		ug/L	95	76 - 130	67 - 139	
1,2-Dichloropropane	10.0	11.08		ug/L	111	74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	10.92		ug/L	109	80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.82		ug/L	108	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	10.14		ug/L	101	80 - 121	73 - 128	
1,4-Dichlorobenzene	10.0	10.53		ug/L	105	80 - 120	73 - 127	
2,2-Dichloropropane	10.0	9.324		ug/L	93	79 - 131	70 - 140	
2-Butanone	10.0	9.273		ug/L	93	48 - 145	32 - 161	
2-Chlorotoluene	10.0	10.64		ug/L	106	80 - 120	73 - 127	
2-Hexanone	10.0	9.185		ug/L	92	50 - 149	34 - 166	
4-Chlorotoluene	10.0	10.78		ug/L	108	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	9.679		ug/L	97	63 - 120	54 - 130	
Acetone	10.0	9.191		ug/L	92	45 - 139	29 - 155	
Benzene	10.0	10.79		ug/L	108	80 - 120	73 - 127	
Bromobenzene	10.0	10.58		ug/L	106	80 - 125	73 - 133	
Bromochloromethane	10.0	10.06		ug/L	101	80 - 120	73 - 127	
Bromodichloromethane	10.0	11.90		ug/L	119	73 - 131	63 - 141	
Bromoform	10.0	15.58	*+	ug/L	156	76 - 124	68 - 132	X
Bromomethane	10.0	6.762		ug/L	68	26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	11.45		ug/L	114	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.82		ug/L	108	76 - 123	68 - 131	
Carbon disulfide	10.0	11.96		ug/L	120	75 - 123	67 - 131	
Carbon tetrachloride	10.0	14.09	*+ me	ug/L	141	61 - 139	48 - 152	ME
Chlorobenzene	10.0	10.95		ug/L	110	80 - 120	73 - 127	
Chloroethane	10.0	12.74		ug/L	127	54 - 150	38 - 166	
Chloroform	10.0	10.84		ug/L	108	80 - 120	73 - 127	
Chloromethane	10.0	8.666		ug/L	87	28 - 151	8 - 172	
Dibromochloromethane	10.0	13.91	*+ me	ug/L	139	74 - 136	64 - 146	ME
Dibromomethane	10.0	10.57		ug/L	106	80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	11.46		ug/L	115	27 - 154	6 - 175	
Ethylbenzene	10.0	10.75		ug/L	108	80 - 126	72 - 134	
Isopropylbenzene	10.0	11.01		ug/L	110	80 - 120	73 - 127	
Methylene Chloride	10.0	10.79		ug/L	108	80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	9.652		ug/L	97	69 - 128	59 - 138	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258627/5
Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Naphthalene	10.0	11.19		ug/L	112	70 - 130	60 - 140	
n-Butylbenzene	10.0	11.19		ug/L	112	78 - 127	70 - 135	
N-Propylbenzene	10.0	11.19		ug/L	112	80 - 121	73 - 128	
o-Xylene	10.0	10.98		ug/L	110	80 - 124	73 - 131	
m,p-Xylene	20.0	21.49		ug/L	107	80 - 123	73 - 130	
p-Isopropyltoluene	10.0	11.27		ug/L	113	80 - 128	72 - 136	
sec-Butylbenzene	10.0	11.47		ug/L	115	80 - 125	73 - 133	
Styrene	10.0	11.19		ug/L	112	80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	11.48		ug/L	115	79 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	10.09		ug/L	101	80 - 126	72 - 134	
tert-Butylbenzene	10.0	11.66		ug/L	117	80 - 121	73 - 128	
Tetrachloroethene	10.0	10.99		ug/L	110	80 - 125	73 - 133	
Toluene	10.0	11.11		ug/L	111	80 - 120	73 - 127	
Trichloroethene	10.0	11.66		ug/L	117	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	12.74		ug/L	127	41 - 163	21 - 183	
Vinyl acetate	10.0	11.07		ug/L	111	61 - 126	50 - 137	
Vinyl chloride	10.0	11.69		ug/L	117	50 - 160	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	3

ME = Marginal Exceedance

X = % Recovery is greater than widest possible limit

Lab Sample ID: LCSD 570-258627/6
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	10.0	12.48		ug/L	125	80 - 125	73 - 133	
1,1,1-Trichloroethane	10.0	10.52		ug/L	105	75 - 121	67 - 129	
1,1,1,2,2-Tetrachloroethane	10.0	10.99		ug/L	110	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.99		ug/L	110	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	10.42		ug/L	104	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	10.50		ug/L	105	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	10.49		ug/L	105	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	10.60		ug/L	106	72 - 122	64 - 130	
1,2,3-Trichlorobenzene	10.0	10.98		ug/L	110	80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	10.42		ug/L	104	75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	10.44		ug/L	104	80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.27		ug/L	103	80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	10.98		ug/L	110	63 - 123	53 - 133	
1,2-Dibromoethane	10.0	10.26		ug/L	103	80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.30		ug/L	103	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	9.423		ug/L	94	76 - 130	67 - 139	
1,2-Dichloropropane	10.0	10.71		ug/L	107	74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	10.18		ug/L	102	80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.23		ug/L	102	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	10.21		ug/L	102	80 - 121	73 - 128	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258627/6
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,4-Dichlorobenzene	10.0	10.18		ug/L	102	80 - 120	73 - 127	
2,2-Dichloropropane	10.0	8.421		ug/L	84	79 - 131	70 - 140	
2-Butanone	10.0	9.617		ug/L	96	48 - 145	32 - 161	
2-Chlorotoluene	10.0	10.21		ug/L	102	80 - 120	73 - 127	
2-Hexanone	10.0	9.986		ug/L	100	50 - 149	34 - 166	
4-Chlorotoluene	10.0	10.21		ug/L	102	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	10.04		ug/L	100	63 - 120	54 - 130	
Acetone	10.0	10.37		ug/L	104	45 - 139	29 - 155	
Benzene	10.0	10.15		ug/L	102	80 - 120	73 - 127	
Bromobenzene	10.0	10.25		ug/L	103	80 - 125	73 - 133	
Bromochloromethane	10.0	9.780		ug/L	98	80 - 120	73 - 127	
Bromodichloromethane	10.0	11.47		ug/L	115	73 - 131	63 - 141	
Bromoform	10.0	15.65	*+	ug/L	157	76 - 124	68 - 132	X
Bromomethane	10.0	6.171		ug/L	62	26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	10.58		ug/L	106	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.41		ug/L	104	76 - 123	68 - 131	
Carbon disulfide	10.0	10.93		ug/L	109	75 - 123	67 - 131	
Carbon tetrachloride	10.0	12.83		ug/L	128	61 - 139	48 - 152	
Chlorobenzene	10.0	10.44		ug/L	104	80 - 120	73 - 127	
Chloroethane	10.0	10.70		ug/L	107	54 - 150	38 - 166	
Chloroform	10.0	10.12		ug/L	101	80 - 120	73 - 127	
Chloromethane	10.0	8.028		ug/L	80	28 - 151	8 - 172	
Dibromochloromethane	10.0	13.87	*+ me	ug/L	139	74 - 136	64 - 146	ME
Dibromomethane	10.0	10.39		ug/L	104	80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	10.39		ug/L	104	27 - 154	6 - 175	
Ethylbenzene	10.0	10.16		ug/L	102	80 - 126	72 - 134	
Isopropylbenzene	10.0	10.37		ug/L	104	80 - 120	73 - 127	
Methylene Chloride	10.0	10.28		ug/L	103	80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	9.775		ug/L	98	69 - 128	59 - 138	
Naphthalene	10.0	11.54		ug/L	115	70 - 130	60 - 140	
n-Butylbenzene	10.0	10.27		ug/L	103	78 - 127	70 - 135	
N-Propylbenzene	10.0	10.34		ug/L	103	80 - 121	73 - 128	
o-Xylene	10.0	10.36		ug/L	104	80 - 124	73 - 131	
m,p-Xylene	20.0	20.09		ug/L	100	80 - 123	73 - 130	
p-Isopropyltoluene	10.0	10.50		ug/L	105	80 - 128	72 - 136	
sec-Butylbenzene	10.0	10.56		ug/L	106	80 - 125	73 - 133	
Styrene	10.0	10.75		ug/L	107	80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	10.28		ug/L	103	79 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	9.960		ug/L	100	80 - 126	72 - 134	
tert-Butylbenzene	10.0	10.82		ug/L	108	80 - 121	73 - 128	
Tetrachloroethene	10.0	10.23		ug/L	102	80 - 125	73 - 133	
Toluene	10.0	10.54		ug/L	105	80 - 120	73 - 127	
Trichloroethene	10.0	11.03		ug/L	110	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	11.56		ug/L	116	41 - 163	21 - 183	
Vinyl acetate	10.0	10.90		ug/L	109	61 - 126	50 - 137	
Vinyl chloride	10.0	10.68		ug/L	107	50 - 160	32 - 178	

Summary

Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	1

ME = Marginal Exceedance

X = % Recovery is greater than widest possible limit

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 570-258728/6

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec.	ME %Rec.	Marginal Exceedance Status
						Limits	Limits	
1,1,1,2-Tetrachloroethane	10.0	11.42		ug/L	114	80 - 125	73 - 133	
1,1,1-Trichloroethane	10.0	11.26		ug/L	113	75 - 121	67 - 129	
1,1,1,2-Tetrachloroethane	10.0	10.81		ug/L	108	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.69		ug/L	127	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	11.15		ug/L	111	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	10.05		ug/L	100	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	10.79		ug/L	108	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	11.87		ug/L	119	72 - 122	64 - 130	
1,2,3-Trichlorobenzene	10.0	10.77		ug/L	108	80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	11.03		ug/L	110	75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	10.52		ug/L	105	80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.84		ug/L	108	80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	10.37		ug/L	104	63 - 123	53 - 133	
1,2-Dibromoethane	10.0	12.00		ug/L	120	80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.51		ug/L	105	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	10.48		ug/L	105	76 - 130	67 - 139	
1,2-Dichloropropane	10.0	9.670		ug/L	97	74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	12.01		ug/L	120	80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.53		ug/L	105	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	11.19		ug/L	112	80 - 121	73 - 128	
1,4-Dichlorobenzene	10.0	10.16		ug/L	102	80 - 120	73 - 127	
2,2-Dichloropropane	10.0	12.05		ug/L	120	79 - 131	70 - 140	
2-Butanone	10.0	10.98		ug/L	110	48 - 145	32 - 161	
2-Chlorotoluene	10.0	10.79		ug/L	108	80 - 120	73 - 127	
2-Hexanone	10.0	10.02		ug/L	100	50 - 149	34 - 166	
4-Chlorotoluene	10.0	10.61		ug/L	106	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	9.230		ug/L	92	63 - 120	54 - 130	
Acetone	10.0	10.62		ug/L	106	45 - 139	29 - 155	
Benzene	10.0	11.62		ug/L	116	80 - 120	73 - 127	
Bromobenzene	10.0	11.95		ug/L	120	80 - 125	73 - 133	
Bromochloromethane	10.0	10.51		ug/L	105	80 - 120	73 - 127	
Bromodichloromethane	10.0	11.15		ug/L	112	73 - 131	63 - 141	
Bromoform	10.0	11.35		ug/L	114	76 - 124	68 - 132	
Bromomethane	10.0	10.31		ug/L	103	26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	11.18		ug/L	112	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.88		ug/L	109	76 - 123	68 - 131	
Carbon disulfide	10.0	12.09		ug/L	121	75 - 123	67 - 131	
Carbon tetrachloride	10.0	11.93		ug/L	119	61 - 139	48 - 152	
Chlorobenzene	10.0	10.56		ug/L	106	80 - 120	73 - 127	
Chloroethane	10.0	8.557		ug/L	86	54 - 150	38 - 166	
Chloroform	10.0	11.24		ug/L	112	80 - 120	73 - 127	
Chloromethane	10.0	9.188		ug/L	92	28 - 151	8 - 172	
Dibromochloromethane	10.0	12.05		ug/L	121	74 - 136	64 - 146	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258728/6

Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Dibromomethane	10.0	10.15		ug/L	102	80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	11.51		ug/L	115	27 - 154	6 - 175	
Ethylbenzene	10.0	10.86		ug/L	109	80 - 126	72 - 134	
Isopropylbenzene	10.0	11.55		ug/L	116	80 - 120	73 - 127	
Methylene Chloride	10.0	10.97		ug/L	110	80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	9.646		ug/L	96	69 - 128	59 - 138	
Naphthalene	10.0	9.910		ug/L	99	70 - 130	60 - 140	
n-Butylbenzene	10.0	10.64		ug/L	106	78 - 127	70 - 135	
N-Propylbenzene	10.0	11.38		ug/L	114	80 - 121	73 - 128	
o-Xylene	10.0	10.57		ug/L	106	80 - 124	73 - 131	
m,p-Xylene	20.0	22.44		ug/L	112	80 - 123	73 - 130	
p-Isopropyltoluene	10.0	10.58		ug/L	106	80 - 128	72 - 136	
sec-Butylbenzene	10.0	11.07		ug/L	111	80 - 125	73 - 133	
Styrene	10.0	11.61		ug/L	116	80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	9.549		ug/L	95	79 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	11.78		ug/L	118	80 - 126	72 - 134	
tert-Butylbenzene	10.0	10.21		ug/L	102	80 - 121	73 - 128	
Tetrachloroethene	10.0	11.88		ug/L	119	80 - 125	73 - 133	
Toluene	10.0	10.60		ug/L	106	80 - 120	73 - 127	
Trichloroethene	10.0	10.94		ug/L	109	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	10.35		ug/L	104	41 - 163	21 - 183	
Vinyl acetate	10.0	13.03	*+ me	ug/L	130	61 - 126	50 - 137	ME
Vinyl chloride	10.0	9.918		ug/L	99	50 - 160	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	1

ME = Marginal Exceedance

Lab Sample ID: LCSD 570-258728/7

Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	10.0	10.75		ug/L	107	80 - 125	73 - 133	
1,1,1-Trichloroethane	10.0	10.60		ug/L	106	75 - 121	67 - 129	
1,1,2,2-Tetrachloroethane	10.0	11.27		ug/L	113	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.66		ug/L	117	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	11.07		ug/L	111	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	9.701		ug/L	97	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	10.16		ug/L	102	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	11.34		ug/L	113	72 - 122	64 - 130	
1,2,3-Trichlorobenzene	10.0	10.75		ug/L	108	80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	11.48		ug/L	115	75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	10.38		ug/L	104	80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.48		ug/L	105	80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	9.991		ug/L	100	63 - 123	53 - 133	
1,2-Dibromoethane	10.0	11.95		ug/L	120	80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.44		ug/L	104	80 - 120	73 - 127	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258728/7
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,2-Dichloroethane	10.0	10.28		ug/L	103	76 - 130	67 - 139	
1,2-Dichloropropane	10.0	9.388		ug/L	94	74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	11.73		ug/L	117	80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.18		ug/L	102	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	11.43		ug/L	114	80 - 121	73 - 128	
1,4-Dichlorobenzene	10.0	10.23		ug/L	102	80 - 120	73 - 127	
2,2-Dichloropropane	10.0	11.34		ug/L	113	79 - 131	70 - 140	
2-Butanone	10.0	11.22		ug/L	112	48 - 145	32 - 161	
2-Chlorotoluene	10.0	10.81		ug/L	108	80 - 120	73 - 127	
2-Hexanone	10.0	10.70		ug/L	107	50 - 149	34 - 166	
4-Chlorotoluene	10.0	10.26		ug/L	103	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	9.055		ug/L	91	63 - 120	54 - 130	
Acetone	10.0	10.04		ug/L	100	45 - 139	29 - 155	
Benzene	10.0	11.00		ug/L	110	80 - 120	73 - 127	
Bromobenzene	10.0	12.21		ug/L	122	80 - 125	73 - 133	
Bromochloromethane	10.0	10.72		ug/L	107	80 - 120	73 - 127	
Bromodichloromethane	10.0	10.63		ug/L	106	73 - 131	63 - 141	
Bromoform	10.0	11.40		ug/L	114	76 - 124	68 - 132	
Bromomethane	10.0	9.374		ug/L	94	26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	11.07		ug/L	111	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.62		ug/L	106	76 - 123	68 - 131	
Carbon disulfide	10.0	11.64		ug/L	116	75 - 123	67 - 131	
Carbon tetrachloride	10.0	11.38		ug/L	114	61 - 139	48 - 152	
Chlorobenzene	10.0	10.27		ug/L	103	80 - 120	73 - 127	
Chloroethane	10.0	7.976		ug/L	80	54 - 150	38 - 166	
Chloroform	10.0	10.89		ug/L	109	80 - 120	73 - 127	
Chloromethane	10.0	10.28		ug/L	103	28 - 151	8 - 172	
Dibromochloromethane	10.0	11.69		ug/L	117	74 - 136	64 - 146	
Dibromomethane	10.0	10.34		ug/L	103	80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	11.02		ug/L	110	27 - 154	6 - 175	
Ethylbenzene	10.0	10.49		ug/L	105	80 - 126	72 - 134	
Isopropylbenzene	10.0	11.38		ug/L	114	80 - 120	73 - 127	
Methylene Chloride	10.0	11.40		ug/L	114	80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	9.839		ug/L	98	69 - 128	59 - 138	
Naphthalene	10.0	9.785		ug/L	98	70 - 130	60 - 140	
n-Butylbenzene	10.0	10.08		ug/L	101	78 - 127	70 - 135	
N-Propylbenzene	10.0	11.18		ug/L	112	80 - 121	73 - 128	
o-Xylene	10.0	10.79		ug/L	108	80 - 124	73 - 131	
m,p-Xylene	20.0	21.45		ug/L	107	80 - 123	73 - 130	
p-Isopropyltoluene	10.0	10.23		ug/L	102	80 - 128	72 - 136	
sec-Butylbenzene	10.0	10.45		ug/L	104	80 - 125	73 - 133	
Styrene	10.0	11.60		ug/L	116	80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	9.288		ug/L	93	79 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	11.71		ug/L	117	80 - 126	72 - 134	
tert-Butylbenzene	10.0	9.896		ug/L	99	80 - 121	73 - 128	
Tetrachloroethene	10.0	11.14		ug/L	111	80 - 125	73 - 133	
Toluene	10.0	10.07		ug/L	101	80 - 120	73 - 127	
Trichloroethene	10.0	10.28		ug/L	103	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	9.594		ug/L	96	41 - 163	21 - 183	
Vinyl acetate	10.0	12.97	*+ me	ug/L	130	61 - 126	50 - 137	ME

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258728/7
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Vinyl chloride	10.0	10.09		ug/L	101	50 - 160	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	1

ME = Marginal Exceedance

Lab Sample ID: LCS 570-258931/3
Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	10.0	13.01	*+ me	ug/L	130	80 - 125	73 - 133	ME ¹
1,1,1-Trichloroethane	10.0	11.30		ug/L	113	75 - 121	67 - 129	
1,1,2,2-Tetrachloroethane	10.0	11.22		ug/L	112	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.55		ug/L	125	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	10.56		ug/L	106	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	11.33		ug/L	113	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	11.63		ug/L	116	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	11.39		ug/L	114	72 - 122	64 - 130	
1,2,3-Trichlorobenzene	10.0	10.85		ug/L	109	80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	10.28		ug/L	103	75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	10.55		ug/L	105	80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.97		ug/L	110	80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	11.15		ug/L	112	63 - 123	53 - 133	
1,2-Dibromoethane	10.0	10.26		ug/L	103	80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.53		ug/L	105	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	9.576		ug/L	96	76 - 130	67 - 139	
1,2-Dichloropropane	10.0	11.02		ug/L	110	74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	10.76		ug/L	108	80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.79		ug/L	108	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	10.21		ug/L	102	80 - 121	73 - 128	
1,4-Dichlorobenzene	10.0	10.64		ug/L	106	80 - 120	73 - 127	
2,2-Dichloropropane	10.0	10.73		ug/L	107	79 - 131	70 - 140	
2-Butanone	10.0	8.846		ug/L	88	48 - 145	32 - 161	
2-Chlorotoluene	10.0	10.76		ug/L	108	80 - 120	73 - 127	
2-Hexanone	10.0	9.015		ug/L	90	50 - 149	34 - 166	
4-Chlorotoluene	10.0	10.88		ug/L	109	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	9.086		ug/L	91	63 - 120	54 - 130	
Acetone	10.0	8.135		ug/L	81	45 - 139	29 - 155	
Benzene	10.0	10.77		ug/L	108	80 - 120	73 - 127	
Bromobenzene	10.0	10.48		ug/L	105	80 - 125	73 - 133	
Bromochloromethane	10.0	10.42		ug/L	104	80 - 120	73 - 127	
Bromodichloromethane	10.0	12.02		ug/L	120	73 - 131	63 - 141	
Bromoform	10.0	15.22	*+	ug/L	152	76 - 124	68 - 132	X
Bromomethane	10.0	7.366		ug/L	74	26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	11.53		ug/L	115	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.85		ug/L	108	76 - 123	68 - 131	
Carbon disulfide	10.0	12.00		ug/L	120	75 - 123	67 - 131	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258931/3
Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	%Rec	%Rec.	ME %Rec.	Marginal Exceedance Status
		Result	Qualifier			Limits	Limits	
Carbon tetrachloride	10.0	14.15	*+ me	ug/L	142	61 - 139	48 - 152	ME ¹
Chlorobenzene	10.0	10.93		ug/L	109	80 - 120	73 - 127	
Chloroethane	10.0	12.93		ug/L	129	54 - 150	38 - 166	
Chloroform	10.0	10.92		ug/L	109	80 - 120	73 - 127	
Chloromethane	10.0	8.384		ug/L	84	28 - 151	8 - 172	
Dibromochloromethane	10.0	13.85	*+ me	ug/L	138	74 - 136	64 - 146	ME ¹
Dibromomethane	10.0	10.51		ug/L	105	80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	11.31		ug/L	113	27 - 154	6 - 175	
Ethylbenzene	10.0	10.92		ug/L	109	80 - 126	72 - 134	
Isopropylbenzene	10.0	11.00		ug/L	110	80 - 120	73 - 127	
Methylene Chloride	10.0	10.69		ug/L	107	80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	9.441		ug/L	94	69 - 128	59 - 138	
Naphthalene	10.0	10.87		ug/L	109	70 - 130	60 - 140	
n-Butylbenzene	10.0	11.52		ug/L	115	78 - 127	70 - 135	
N-Propylbenzene	10.0	11.19		ug/L	112	80 - 121	73 - 128	
o-Xylene	10.0	10.99		ug/L	110	80 - 124	73 - 131	
m,p-Xylene	20.0	21.77		ug/L	109	80 - 123	73 - 130	
p-Isopropyltoluene	10.0	11.38		ug/L	114	80 - 128	72 - 136	
sec-Butylbenzene	10.0	11.49		ug/L	115	80 - 125	73 - 133	
Styrene	10.0	11.17		ug/L	112	80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	11.38		ug/L	114	79 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	10.27		ug/L	103	80 - 126	72 - 134	
tert-Butylbenzene	10.0	11.28		ug/L	113	80 - 121	73 - 128	
Tetrachloroethene	10.0	11.10		ug/L	111	80 - 125	73 - 133	
Toluene	10.0	11.23		ug/L	112	80 - 120	73 - 127	
Trichloroethene	10.0	11.31		ug/L	113	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	12.59		ug/L	126	41 - 163	21 - 183	
Vinyl acetate	10.0	13.44	*+ me	ug/L	134	61 - 126	50 - 137	ME ¹
Vinyl chloride	10.0	12.14		ug/L	121	50 - 160	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	4

ME¹ = Marginal Exceedance and number of ME's found greater than allowed
X = % Recovery is greater than widest possible limit

Lab Sample ID: LCSD 570-258931/4
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	%Rec	%Rec.	ME %Rec.	Marginal Exceedance Status
		Result	Qualifier			Limits	Limits	
1,1,1,2-Tetrachloroethane	10.0	12.03		ug/L	120	80 - 125	73 - 133	
1,1,1-Trichloroethane	10.0	10.31		ug/L	103	75 - 121	67 - 129	
1,1,2,2-Tetrachloroethane	10.0	11.70		ug/L	117	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.02		ug/L	110	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	10.15		ug/L	102	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	10.46		ug/L	105	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	10.62		ug/L	106	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	10.68		ug/L	107	72 - 122	64 - 130	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258931/4
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec %Rec Limits	ME %Rec. Limits	Marginal Exceedance Status
1,2,3-Trichlorobenzene	10.0	10.32		ug/L	103 80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	10.39		ug/L	104 75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	10.12		ug/L	101 80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.06		ug/L	101 80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	11.82		ug/L	118 63 - 123	53 - 133	
1,2-Dibromoethane	10.0	10.13		ug/L	101 80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.00		ug/L	100 80 - 120	73 - 127	
1,2-Dichloroethane	10.0	9.176		ug/L	92 76 - 130	67 - 139	
1,2-Dichloropropane	10.0	10.30		ug/L	103 74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	9.870		ug/L	99 80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.10		ug/L	101 80 - 120	73 - 127	
1,3-Dichloropropane	10.0	9.979		ug/L	100 80 - 121	73 - 128	
1,4-Dichlorobenzene	10.0	9.847		ug/L	98 80 - 120	73 - 127	
2,2-Dichloropropane	10.0	9.549		ug/L	95 79 - 131	70 - 140	
2-Butanone	10.0	9.465		ug/L	95 48 - 145	32 - 161	
2-Chlorotoluene	10.0	9.885		ug/L	99 80 - 120	73 - 127	
2-Hexanone	10.0	9.328		ug/L	93 50 - 149	34 - 166	
4-Chlorotoluene	10.0	9.930		ug/L	99 80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	9.624		ug/L	96 63 - 120	54 - 130	
Acetone	10.0	8.249		ug/L	82 45 - 139	29 - 155	
Benzene	10.0	9.918		ug/L	99 80 - 120	73 - 127	
Bromobenzene	10.0	9.860		ug/L	99 80 - 125	73 - 133	
Bromochloromethane	10.0	9.809		ug/L	98 80 - 120	73 - 127	
Bromodichloromethane	10.0	11.25		ug/L	113 73 - 131	63 - 141	
Bromoform	10.0	14.88	*+	ug/L	149 76 - 124	68 - 132	X
Bromomethane	10.0	6.521		ug/L	65 26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	10.53		ug/L	105 80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.36		ug/L	104 76 - 123	68 - 131	
Carbon disulfide	10.0	10.94		ug/L	109 75 - 123	67 - 131	
Carbon tetrachloride	10.0	12.87		ug/L	129 61 - 139	48 - 152	
Chlorobenzene	10.0	10.03		ug/L	100 80 - 120	73 - 127	
Chloroethane	10.0	11.49		ug/L	115 54 - 150	38 - 166	
Chloroform	10.0	10.23		ug/L	102 80 - 120	73 - 127	
Chloromethane	10.0	7.644		ug/L	76 28 - 151	8 - 172	
Dibromochloromethane	10.0	13.48		ug/L	135 74 - 136	64 - 146	
Dibromomethane	10.0	10.29		ug/L	103 80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	9.995		ug/L	100 27 - 154	6 - 175	
Ethylbenzene	10.0	9.971		ug/L	100 80 - 126	72 - 134	
Isopropylbenzene	10.0	10.03		ug/L	100 80 - 120	73 - 127	
Methylene Chloride	10.0	10.14		ug/L	101 80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	9.521		ug/L	95 69 - 128	59 - 138	
Naphthalene	10.0	10.85		ug/L	109 70 - 130	60 - 140	
n-Butylbenzene	10.0	10.27		ug/L	103 78 - 127	70 - 135	
N-Propylbenzene	10.0	10.19		ug/L	102 80 - 121	73 - 128	
o-Xylene	10.0	10.16		ug/L	102 80 - 124	73 - 131	
m,p-Xylene	20.0	19.79		ug/L	99 80 - 123	73 - 130	
p-Isopropyltoluene	10.0	10.32		ug/L	103 80 - 128	72 - 136	
sec-Butylbenzene	10.0	10.49		ug/L	105 80 - 125	73 - 133	
Styrene	10.0	10.38		ug/L	104 80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	10.40		ug/L	104 79 - 120	72 - 127	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258931/4

Matrix: Water

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
trans-1,3-Dichloropropene	10.0	9.799		ug/L	98	80 - 126	72 - 134	
tert-Butylbenzene	10.0	10.29		ug/L	103	80 - 121	73 - 128	
Tetrachloroethene	10.0	9.915		ug/L	99	80 - 125	73 - 133	
Toluene	10.0	10.25		ug/L	102	80 - 120	73 - 127	
Trichloroethene	10.0	10.29		ug/L	103	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	11.49		ug/L	115	41 - 163	21 - 183	
Vinyl acetate	10.0	12.56		ug/L	126	61 - 126	50 - 137	
Vinyl chloride	10.0	10.87		ug/L	109	50 - 160	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	0

X = % Recovery is greater than widest possible limit

QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

GC/MS VOA

Analysis Batch: 258627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-5	UA-16D	Total/NA	Water	8260B	
570-106653-6	UA-1600D	Total/NA	Water	8260B	
570-106653-7	UA-17D	Total/NA	Water	8260B	
570-106653-8	UA-1700D	Total/NA	Water	8260B	
570-106653-9	AB-08	Total/NA	Water	8260B	
570-106653-10	UB-06	Total/NA	Water	8260B	
570-106653-11	RB-081622B	Total/NA	Water	8260B	
570-106653-12	LAX-01	Total/NA	Water	8260B	
570-106653-13	UB-05	Total/NA	Water	8260B	
570-106653-14	AB-07	Total/NA	Water	8260B	
570-106653-15	UA-14D	Total/NA	Water	8260B	
570-106653-16	UA-10D	Total/NA	Water	8260B	
MB 570-258627/8	Method Blank	Total/NA	Water	8260B	
LCS 570-258627/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-258627/6	Lab Control Sample Dup	Total/NA	Water	8260B	
570-106653-16 MS	UA-10D	Total/NA	Water	8260B	
570-106653-16 MSD	UA-10D	Total/NA	Water	8260B	

Analysis Batch: 258643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-3	UB-02	Total/NA	Water	8260B	
MB 570-258643/6	Method Blank	Total/NA	Water	8260B	
LCS 570-258643/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-258643/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 258728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-1	TB-081622	Total/NA	Water	8260B	
570-106653-4	UA-13D	Total/NA	Water	8260B	
570-106653-17	AB-06	Total/NA	Water	8260B	
570-106653-18	UB-04	Total/NA	Water	8260B	
570-106653-19	S-32	Total/NA	Water	8260B	
570-106653-20	UA-04D	Total/NA	Water	8260B	
570-106653-21	UAX-01	Total/NA	Water	8260B	
570-106653-22	S-04	Total/NA	Water	8260B	
570-106653-23	UAX-0100	Total/NA	Water	8260B	
570-106653-24	UB-01	Total/NA	Water	8260B	
570-106653-25	RB-081622A	Total/NA	Water	8260B	
570-106653-26	S-14	Total/NA	Water	8260B	
MB 570-258728/9	Method Blank	Total/NA	Water	8260B	
LCS 570-258728/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-258728/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 258895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-27	LAX-03	Total/NA	Water	8260B	
570-106653-28	UAX-02	Total/NA	Water	8260B	
570-106653-29	AB-03	Total/NA	Water	8260B	
570-106653-30	HEW-02	Total/NA	Water	8260B	
570-106653-31	HEW-05	Total/NA	Water	8260B	
570-106653-32	HEW-0500	Total/NA	Water	8260B	

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QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

GC/MS VOA (Continued)

Analysis Batch: 258895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-33	S-18	Total/NA	Water	8260B	
570-106653-34	S-05	Total/NA	Water	8260B	
570-106653-36	UA-08D	Total/NA	Water	8260B	
570-106653-37	UA-08	Total/NA	Water	8260B	
570-106653-38	UA-0800	Total/NA	Water	8260B	
570-106653-39	SE-04	Total/NA	Water	8260B	
570-106653-40	AB-0300	Total/NA	Water	8260B	
MB 570-258895/6	Method Blank	Total/NA	Water	8260B	
LCS 570-258895/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-258895/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 258931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-2	AB-05	Total/NA	Water	8260B	
570-106653-35	HEW-04	Total/NA	Water	8260B	
MB 570-258931/6	Method Blank	Total/NA	Water	8260B	
LCS 570-258931/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-258931/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 257765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-12	LAX-01	Total/NA	Water	3510C	
570-106653-21	UAX-01	Total/NA	Water	3510C	
570-106653-23	UAX-0100	Total/NA	Water	3510C	
570-106653-27	LAX-03	Total/NA	Water	3510C	
570-106653-28	UAX-02	Total/NA	Water	3510C	
570-106653-30	HEW-02	Total/NA	Water	3510C	
570-106653-31	HEW-05	Total/NA	Water	3510C	
570-106653-32	HEW-0500	Total/NA	Water	3510C	
570-106653-35	HEW-04	Total/NA	Water	3510C	
MB 570-257765/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-257765/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-257765/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-106684-F-1-B MS - DL	Matrix Spike	Total/NA	Water	3510C	
570-106684-F-1-C MSD - DL	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 257890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-32	HEW-0500	Total/NA	Water	8270C SIM ID	257765

Analysis Batch: 258720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-21	UAX-01	Total/NA	Water	8270C SIM ID	257765
570-106653-23	UAX-0100	Total/NA	Water	8270C SIM ID	257765
570-106653-27	LAX-03	Total/NA	Water	8270C SIM ID	257765
570-106653-28	UAX-02	Total/NA	Water	8270C SIM ID	257765
570-106653-30	HEW-02	Total/NA	Water	8270C SIM ID	257765
570-106653-31	HEW-05	Total/NA	Water	8270C SIM ID	257765
570-106653-35	HEW-04	Total/NA	Water	8270C SIM ID	257765

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QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

GC/MS Semi VOA (Continued)

Analysis Batch: 258720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-257765/1-A	Method Blank	Total/NA	Water	8270C SIM ID	257765
LCS 570-257765/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	257765
LCSD 570-257765/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	257765
570-106684-F-1-B MS - DL	Matrix Spike	Total/NA	Water	8270C SIM ID	257765
570-106684-F-1-C MSD - DL	Matrix Spike Duplicate	Total/NA	Water	8270C SIM ID	257765

Analysis Batch: 259053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106653-12	LAX-01	Total/NA	Water	8270C SIM ID	257765

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: TB-081622

Lab Sample ID: 570-106653-1

Date Collected: 08/16/22 08:00

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/23/22 17:49	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: AB-05

Lab Sample ID: 570-106653-2

Date Collected: 08/16/22 09:20

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 10:12	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UB-02

Lab Sample ID: 570-106653-3

Date Collected: 08/16/22 09:42

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258643	08/23/22 20:24	UJHB	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: UA-13D

Lab Sample ID: 570-106653-4

Date Collected: 08/16/22 10:00

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/23/22 18:45	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: UA-16D

Lab Sample ID: 570-106653-5

Date Collected: 08/16/22 10:50

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 18:16	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-1600D

Lab Sample ID: 570-106653-6

Date Collected: 08/16/22 11:30

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 18:44	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: UA-17D

Lab Sample ID: 570-106653-7

Date Collected: 08/16/22 11:22

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 19:13	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-1700D

Lab Sample ID: 570-106653-8

Date Collected: 08/16/22 11:45

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 19:41	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: AB-08

Lab Sample ID: 570-106653-9

Date Collected: 08/16/22 11:40

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 20:09	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UB-06

Lab Sample ID: 570-106653-10

Date Collected: 08/16/22 12:00

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 20:38	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: RB-081622B

Lab Sample ID: 570-106653-11

Date Collected: 08/16/22 13:10

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 21:06	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: LAX-01

Lab Sample ID: 570-106653-12

Date Collected: 08/16/22 13:50

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 21:34	N5PD	EET CAL 4
Instrument ID: GCMSUU										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	259053	08/24/22 17:37	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: UB-05

Date Collected: 08/16/22 14:25

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	258627	08/23/22 22:03	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: AB-07

Date Collected: 08/16/22 14:40

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 22:31	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-14D

Date Collected: 08/16/22 14:50

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 22:59	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-10D

Date Collected: 08/16/22 15:30

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258627	08/23/22 23:28	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: AB-06

Date Collected: 08/16/22 15:45

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/23/22 19:13	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: UB-04

Date Collected: 08/16/22 16:00

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/23/22 19:41	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Lab Chronicle

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: S-32

Lab Sample ID: 570-106653-19

Date Collected: 08/16/22 09:05

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/23/22 22:55	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: UA-04D

Lab Sample ID: 570-106653-20

Date Collected: 08/16/22 09:25

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/23/22 23:23	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: UAX-01

Lab Sample ID: 570-106653-21

Date Collected: 08/16/22 09:50

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/23/22 23:51	N5PD	EET CAL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258720	08/23/22 14:35	UJ3K	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: S-04

Lab Sample ID: 570-106653-22

Date Collected: 08/16/22 10:05

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	258728	08/24/22 00:19	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: UAX-0100

Lab Sample ID: 570-106653-23

Date Collected: 08/16/22 10:15

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/24/22 00:47	N5PD	EET CAL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258720	08/23/22 14:49	UJ3K	EET CAL 4
Instrument ID: GCMSDDD										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: UB-01
Date Collected: 08/16/22 09:40
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/24/22 01:15	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: RB-081622A
Date Collected: 08/16/22 10:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258728	08/24/22 01:42	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: S-14
Date Collected: 08/16/22 11:34
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		8	20 mL	20 mL	258728	08/24/22 02:10	N5PD	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: LAX-03
Date Collected: 08/16/22 11:55
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 00:03	P3GT	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258720	08/23/22 15:04	UJ3K	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-02
Date Collected: 08/16/22 12:05
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 00:31	P3GT	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258720	08/23/22 15:18	UJ3K	EET CAL 4
Instrument ID: GCMSDDD										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: AB-03
Date Collected: 08/16/22 12:25
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 00:58	P3GT	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: HEW-02
Date Collected: 08/16/22 13:50
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 01:25	P3GT	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258720	08/23/22 15:33	UJ3K	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-05
Date Collected: 08/16/22 14:10
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	258895	08/24/22 01:53	P3GT	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258720	08/23/22 15:47	UJ3K	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-0500
Date Collected: 08/16/22 14:30
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	258895	08/24/22 02:20	P3GT	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	257890	08/20/22 10:33	UJ3K	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: S-18
Date Collected: 08/16/22 14:35
Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 02:48	P3GT	EET CAL 4
Instrument ID: GCMSL										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: S-05

Date Collected: 08/16/22 14:50

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 03:15	P3GT	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: HEW-04

Date Collected: 08/16/22 15:10

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 13:01	N5PD	EET CAL 4
Instrument ID: GCMSUU										
Total/NA	Prep	3510C			100 mL	10 mL	257765	08/18/22 11:44	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258720	08/23/22 16:16	UJ3K	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: UA-08D

Date Collected: 08/16/22 15:40

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 04:10	P3GT	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: UA-08

Date Collected: 08/16/22 15:55

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-37

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 04:37	P3GT	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: UA-0800

Date Collected: 08/16/22 16:05

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 05:04	P3GT	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: SE-04

Date Collected: 08/16/22 16:15

Date Received: 08/16/22 17:44

Lab Sample ID: 570-106653-39

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 05:32	P3GT	EET CAL 4
Instrument ID: GCMSL										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Client Sample ID: AB-0300

Lab Sample ID: 570-106653-40

Date Collected: 08/16/22 12:45

Matrix: Water

Date Received: 08/16/22 17:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258895	08/24/22 05:59	P3GT	EET CAL 4
Instrument ID: GCMSL										

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

- 1
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Accreditation/Certification Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
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- 15
- 16

Method Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



Sample Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg. 684

Job ID: 570-106653-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-106653-1	TB-081622	Water	08/16/22 08:00	08/16/22 17:44
570-106653-2	AB-05	Water	08/16/22 09:20	08/16/22 17:44
570-106653-3	UB-02	Water	08/16/22 09:42	08/16/22 17:44
570-106653-4	UA-13D	Water	08/16/22 10:00	08/16/22 17:44
570-106653-5	UA-16D	Water	08/16/22 10:50	08/16/22 17:44
570-106653-6	UA-1600D	Water	08/16/22 11:30	08/16/22 17:44
570-106653-7	UA-17D	Water	08/16/22 11:22	08/16/22 17:44
570-106653-8	UA-1700D	Water	08/16/22 11:45	08/16/22 17:44
570-106653-9	AB-08	Water	08/16/22 11:40	08/16/22 17:44
570-106653-10	UB-06	Water	08/16/22 12:00	08/16/22 17:44
570-106653-11	RB-081622B	Water	08/16/22 13:10	08/16/22 17:44
570-106653-12	LAX-01	Water	08/16/22 13:50	08/16/22 17:44
570-106653-13	UB-05	Water	08/16/22 14:25	08/16/22 17:44
570-106653-14	AB-07	Water	08/16/22 14:40	08/16/22 17:44
570-106653-15	UA-14D	Water	08/16/22 14:50	08/16/22 17:44
570-106653-16	UA-10D	Water	08/16/22 15:30	08/16/22 17:44
570-106653-17	AB-06	Water	08/16/22 15:45	08/16/22 17:44
570-106653-18	UB-04	Water	08/16/22 16:00	08/16/22 17:44
570-106653-19	S-32	Water	08/16/22 09:05	08/16/22 17:44
570-106653-20	UA-04D	Water	08/16/22 09:25	08/16/22 17:44
570-106653-21	UAX-01	Water	08/16/22 09:50	08/16/22 17:44
570-106653-22	S-04	Water	08/16/22 10:05	08/16/22 17:44
570-106653-23	UAX-0100	Water	08/16/22 10:15	08/16/22 17:44
570-106653-24	UB-01	Water	08/16/22 09:40	08/16/22 17:44
570-106653-25	RB-081622A	Water	08/16/22 10:50	08/16/22 17:44
570-106653-26	S-14	Water	08/16/22 11:34	08/16/22 17:44
570-106653-27	LAX-03	Water	08/16/22 11:55	08/16/22 17:44
570-106653-28	UAX-02	Water	08/16/22 12:05	08/16/22 17:44
570-106653-29	AB-03	Water	08/16/22 12:25	08/16/22 17:44
570-106653-30	HEW-02	Water	08/16/22 13:50	08/16/22 17:44
570-106653-31	HEW-05	Water	08/16/22 14:10	08/16/22 17:44
570-106653-32	HEW-0500	Water	08/16/22 14:30	08/16/22 17:44
570-106653-33	S-18	Water	08/16/22 14:35	08/16/22 17:44
570-106653-34	S-05	Water	08/16/22 14:50	08/16/22 17:44
570-106653-35	HEW-04	Water	08/16/22 15:10	08/16/22 17:44
570-106653-36	UA-08D	Water	08/16/22 15:40	08/16/22 17:44
570-106653-37	UA-08	Water	08/16/22 15:55	08/16/22 17:44
570-106653-38	UA-0800	Water	08/16/22 16:05	08/16/22 17:44
570-106653-39	SE-04	Water	08/16/22 16:15	08/16/22 17:44
570-106653-40	AB-0300	Water	08/16/22 12:45	08/16/22 17:44

Patel, Virendra

From: Andrew Donnelly <ADONNELLY@HARGIS.COM>
Sent: Monday, August 22, 2022 1:22 PM
To: Patel, Virendra
Subject: RE: Eurofins Calscience sample confirmation files from 570-106653-1 Raytheon Full Scale / Bldg 684
Attachments: COC 570-106653 (202208162221)_HArevisions.pdf

EXTERNAL EMAIL*

Hi Virendra,

I reviewed the sample confirmation files for 570-106653. Can you please revise the sample IDs for the following three samples:

- Revise "SE-4" to "SE-04"
- Revise "UAX-2" to "UAX-02"
- Revise "HEW-2" to "HEW-02"

I've also attached the same revisions to the COC.

Everything else looks good.

Thank you,

Andrew Donnelly
Hydrogeologist
HARGIS + ASSOCIATES, INC.
3131 Camino Del Rio North, Suite 355, San Diego, CA 92108
Direct: 858.410.7463
Cell: 951.553.0689
adonnelly@hargis.com
www.hargis.com



From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Wednesday, August 17, 2022 2:06 PM
To: Andrew Donnelly <ADONNELLY@HARGIS.COM>; Amanda Janzon <AJanzon@HARGIS.COM>; Danielle Gallaher <dgallaher@HARGIS.COM>; DJ Sealee <DSealee@HARGIS.COM>; Monica Morales <MMorales@Hargis.com>; Ross Horton <RHorton@HARGIS.COM>; Ruben Sanchez <RSanchez@HARGIS.COM>; Steve Netto <SNETTO@HARGIS.COM>; Tony Rossi <TROSSI@HARGIS.COM>
Subject: Eurofins Calscience sample confirmation files from 570-106653-1 Raytheon Full Scale / Bldg 684

CAUTION: This email originated from outside your organization. Do not click links, open attachments or follow instructions unless you have verified the sender and know the content is genuine and safe.

Hello,

Attached please find the sample confirmation files for job 570-106653-1; Raytheon Full Scale / Bldg 684

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env

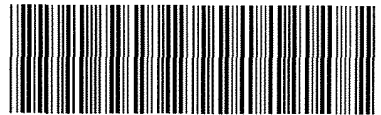


Reference: [570-354559]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

106653



570-106653 Chain of Custody

HARGIS + ASSOCIATES, INC
HYDROGEOLOGY • ENGINEERING

Date 08.16.22
Page 1 of 4

PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

LAB ID	SAMPLE ID	SAMPLE COLLECTION		PRESERVATION				CONTAINERS		ANALYSIS REQUESTED		ESTIMATED CONCENTRATION			SPECIAL HANDLING		
		Date	Time	Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	250 mL Amber	VOCs by EPA 8260B	1,4-Dioxane by 8270C	0-10	10-100	100-1,000	>1,000	Standard TAT
1	TB-081622	08.16.22	0800	X	X	X	X	2		X						X	
2	AB-05		0920	X	X			3		X						X	
3	VB-02		0942	X	X			3		X						X	
4	VA-13D		1000	X	X			3		X						X	
5	VA-16D		1050	X	X			3		X						X	
6	VA-1600D		1130	X	X			3		X						X	
7	VA-17D		1122	X	X			3		X						X	
8	VA-1700D		1145	X	X			3		X						X	
9	AB-08		1140	X	X			3		X						X	
10	VB-06		1200	X	X			3		X						X	
11	RB-081622B		1310	X	X			3		X						X	
12	LAX-01		1350	X	X			3		X						X	
	↓		↓	X	X											X	
13	VB-05		1425	X	X			3		X	X					X	
14	AB-07		1440	X	X			3		X			X			X	
15	VA-14D		1450	X	X			3		X			X			X	
16	VA-10D		1530	X	X			5		X			X			X	X
17	AB-06		1545	X	X			3		X			X			X	

Laboratory
Eurofins Calscience, Inc
Attn: Virendra Patel
ECI Project #57001317
2841 Dow Avenue, Suite 100
Tustin, CA 92780

REMARKS

Total No of Containers

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company	Date / Time	Received By / Company	Date / Time
Amber Warden / H+A	8/16/22 1638	EC	8-16-2022 16:38
Relinquished By / Company	Date / Time	Received By / Company	Date / Time
EC	8-16-2022 17:44	J. Netto	8/16/22 17:44

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

Temperature on receipt

S. 8 / S. 8 SC12
S. 2 / S. 2



106653



Date 08 16 22
Page 2 of 4

PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project BCI Fullerton 764 10	Sampled By D Sealca /	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	250 mL Amber	ANALYSIS REQUESTED VOCs by EPA 8260B	ESTIMATED CONCENTRATION 1,4- Dioxane by 8270C 0-10 10-100 100-1,000 >1,000	SPECIAL HANDLING Standard TAT	MS/MSD Requested	REMARKS
		Date	Time												
LAB ID 18	SAMPLE ID UB-04	Date 08 16 22	Time 1600	X	X		X	3			X				
Total number of containers per analysis															Total No. of Containers

Laboratory
Eurofins Calscience, Inc
Attn: **Virendra Patel**
ECI Project #57001317
2841 Dow Avenue, Suite 100
Tustin, CA 92780

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trp Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
<i>Amber Warden / H+A</i>	8/16/22 1638	<i>EC</i>	8-16-2022 16:38
Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
<i>EC</i>	8-16-2022 17:44	<i>JJ Galt</i>	8/16/22 17:44

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

Temperature on receipt



PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project BCI Fullerton 764 10	Sampled By A. DONNELLY, A. WARDEN	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber 250 mL Amber VOCs by EPA 8260B	ANALYSIS REQUESTED	ESTIMATED CONCENTRATION	SPECIAL HANDLING	MS/MSD Requested	REMARKS
		Date	Time											
19	S-32	08/16/22	0905	X	X		X	3	X					
20	UA-04D		0925	X	X		X	3	X					
21	UAX-01		0950	X	X		X	3	X	X				
22	S-04		1005	X	X		X	3	X					
23	UAX-D10D		1015	X	X		X	3	X	X				
24	UB-01		0940	X	X		X	3	X					
25	KB-081622A		1050	X	X		X	3	X					
26	S-14		1134	X	X		X	3	X					
27	LAX-03		1155	X	X		X	3	X	X				
28	UAX-2		1205	X	X		X	3	X	X				
29	AB-03		1225	X	X		X	3	X	X				
30	HEW-02		1350	X	X		X	3	X	X	X			
31	HEW-05		1410	X	X		X	3	X	X		X		
32	HEW-0500		1430	X	X		X	3	X	X	X			
33	S-18		1435	X	X		X	3	X		X			
34	S-05		1450	X	X		X	3	X		X			
35	HEW-04		1510	X	X		X	3	X	X	X			
36	UA-08D		1540	X	X		X	3	X					
Total number of containers per analysis:													Total No. of Containers	

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company	Date / Time	Received By / Company	Date / Time
<i>Amber Warden / H+A</i>	8/16/22 1638	<i>EC</i>	8-16-2022 16:38
Relinquished By / Company	Date / Time	Received By / Company	Date / Time
<i>EC</i>	8-16-2022 1638	<i>EC</i>	8/16/22

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

Temperature on receipt





PROJECT Building 684 - Raytheon
TASK NO 764 10

Date 08/16/22
Page 7 of 4

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project BCI Fullerton 764 10	Sampled By <u>A DONNELLY, A WARDEN</u>	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	250 mL Amber	VOCs by EPA 8260B	1,4- Dioxane by 8270C	ESTIMATED CONCENTRATION				Standard TAT	MS/MSD Requested	REMARKS
		Date	Time										0-10	10-100	100-1,000	>1,000			
	WA-08D	08/16/22	1540	X	X	X	X	X	X	X	X	X	X	X	X	X			
37	WA-08	08/16/22	1555	X	X	X	X	X	X	X	X	X	X	X	X	X			
38	WA-0800		1605	X	X	X	X	X	X	X	X	X	X	X	X	X			
39	SE-4		1615	X	X	X	X	X	X	X	X	X	X	X	X	X			
40	AB-0300		1245	X	X	X	X	X	X	X	X	X	X	X	X	X			
	NEW																		
Total number of containers per analysis																	Total No of Containers		

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
<u>Amber Warden / H+A</u>	<u>08/16/22 1638</u>	<u>AG EC</u>	<u>8-16-2022 16:38</u>
Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
<u>[Signature] EC</u>	<u>8-16-2022 17:44</u>	<u>[Signature]</u>	<u>8/16/22 1744</u>

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

Temperature on receipt



Login Sample Receipt Checklist

Client: Hargis + Associates, Inc.

Job Number: 570-106653-1

Login Number: 106653

List Number: 1

Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-106791-1
Client Project/Site: Raytheon Full Scale / Bldg 684

For:
Hargis + Associates, Inc.
3131 Camino del Rio N
Suite 355
San Diego, California 92108

Attn: Steve Netto

Virendra R Patel

Authorized for release by:
8/26/2022 9:36:44 AM

Virendra Patel, Project Manager I
(714)895-5494

Virendra.Patel@et.eurofinsus.com

LINKS

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results through



Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
me	LCS Recovery is within Marginal Exceedance (ME) control limit range (± 4 SD from the mean).

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Job ID: 570-106791-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-106791-1

Comments

No additional comments.

Receipt

The samples were received on 8/17/2022 5:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.7° C and 4.9° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 570-258931 recovered above the upper control limit for Bromoform. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TB-081722 (570-106791-1), UA-07D (570-106791-2), UA-07 (570-106791-3), UA-11D (570-106791-4), S-30 (570-106791-5), UA-11 (570-106791-6), UB-03 (570-106791-7), RB-081722B (570-106791-8), S-29 (570-106791-9), UA-12D (570-106791-10), UA-12 (570-106791-11), AB-01 (570-106791-12), UA-06D (570-106791-13), UA-06 (570-106791-14), S-26 (570-106791-15), LAX-02 (570-106791-16), S-08 (570-106791-17) and (CCVIS 570-258931/2).

Method 8260B: The laboratory control sample (LCS) for analytical batch 570-258931 recovered outside control limits for the following analytes: Carbon tetrachloride, Dibromochloromethane, 1,1,1,2-Tetrachloroethane, Bromoform and Vinyl acetate.. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 570-258931 recovered outside control limits for the following analyte: Bromoform. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-258931. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following analyte(s) recovered outside control limits for the LCSD associated with analytical batch 570-258930: Bromobenzene and Isopropylbenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-258930.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-259139. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-259289. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Job ID: 570-106791-1 (Continued)

Laboratory: Eurofins Calscience (Continued)

GC Semi VOA

Method 8270C SIM ID: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 570-257771 and analytical batch 570-258098. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: TB-081722

Lab Sample ID: 570-106791-1

No Detections.

Client Sample ID: UA-07D

Lab Sample ID: 570-106791-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.72		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-07

Lab Sample ID: 570-106791-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.3		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	1.1		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-11D

Lab Sample ID: 570-106791-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.89		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: S-30

Lab Sample ID: 570-106791-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.5		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-11

Lab Sample ID: 570-106791-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.0		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	2.2		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UB-03

Lab Sample ID: 570-106791-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.3		0.50		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	7.2		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	1.1		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	0.89		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: RB-081722B

Lab Sample ID: 570-106791-8

No Detections.

Client Sample ID: S-29

Lab Sample ID: 570-106791-9

No Detections.

Client Sample ID: UA-12D

Lab Sample ID: 570-106791-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.76		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-12

Lab Sample ID: 570-106791-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.74		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	1.7		0.50		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: AB-01

Lab Sample ID: 570-106791-12

No Detections.

Client Sample ID: UA-06D

Lab Sample ID: 570-106791-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.9		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: UA-06

Lab Sample ID: 570-106791-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.2		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	3.6		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: S-26

Lab Sample ID: 570-106791-15

No Detections.

Client Sample ID: LAX-02

Lab Sample ID: 570-106791-16

No Detections.

Client Sample ID: S-08

Lab Sample ID: 570-106791-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.68		0.50		ug/L	1		8260B	Total/NA
Chloroform	1.0		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	42		0.50		ug/L	1		8260B	Total/NA
Trichloroethene - DL	1000		25		ug/L	50		8260B	Total/NA

Client Sample ID: HEW-01

Lab Sample ID: 570-106791-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.1		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	12		0.50		ug/L	1		8260B	Total/NA
Trichloroethene - DL	690		25		ug/L	50		8260B	Total/NA
1,4-Dioxane	1.7		0.50		ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: UAX-03

Lab Sample ID: 570-106791-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.53		0.50		ug/L	1		8260B	Total/NA
Trichloroethene - RA	9.1		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: S-21

Lab Sample ID: 570-106791-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.53		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: S-24

Lab Sample ID: 570-106791-21

No Detections.

Client Sample ID: S-2400

Lab Sample ID: 570-106791-22

No Detections.

Client Sample ID: UA-15D

Lab Sample ID: 570-106791-23

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: AB-02

Lab Sample ID: 570-106791-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.3		0.50		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	18		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	1.4		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	13		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: RB-081722A

Lab Sample ID: 570-106791-25

No Detections.

Client Sample ID: S-27

Lab Sample ID: 570-106791-26

No Detections.

Client Sample ID: S-31

Lab Sample ID: 570-106791-27

No Detections.

Client Sample ID: HEW-03

Lab Sample ID: 570-106791-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.1		2.0		ug/L	4		8260B	Total/NA
Trichloroethene	100		2.0		ug/L	4		8260B	Total/NA

Client Sample ID: S-07

Lab Sample ID: 570-106791-29

No Detections.

Client Sample ID: UA-02

Lab Sample ID: 570-106791-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.82		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: S-15

Lab Sample ID: 570-106791-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.66		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: SE-01

Lab Sample ID: 570-106791-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.9		2.0		ug/L	4		8260B	Total/NA
Chloroform	2.8		2.0		ug/L	4		8260B	Total/NA
Tetrachloroethene	86		2.0		ug/L	4		8260B	Total/NA
Trichloroethene - DL	3800		50		ug/L	100		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-081722
Date Collected: 08/17/22 08:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 10:40	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 10:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 10:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 10:40	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 10:40	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 10:40	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 10:40	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 10:40	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 10:40	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 10:40	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 10:40	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 10:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 10:40	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 10:40	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 10:40	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 10:40	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 10:40	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 10:40	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 10:40	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 10:40	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 10:40	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 10:40	1
2-Butanone	ND		5.0		ug/L			08/24/22 10:40	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 10:40	1
2-Hexanone	ND		6.0		ug/L			08/24/22 10:40	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 10:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 10:40	1
Acetone	ND		8.0		ug/L			08/24/22 10:40	1
Benzene	ND		0.50		ug/L			08/24/22 10:40	1
Bromobenzene	ND		0.50		ug/L			08/24/22 10:40	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 10:40	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 10:40	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 10:40	1
Bromomethane	ND		2.0		ug/L			08/24/22 10:40	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 10:40	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 10:40	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 10:40	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 10:40	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 10:40	1
Chloroethane	ND		0.50		ug/L			08/24/22 10:40	1
Chloroform	ND		0.50		ug/L			08/24/22 10:40	1
Chloromethane	ND		1.0		ug/L			08/24/22 10:40	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 10:40	1
Dibromomethane	ND		0.50		ug/L			08/24/22 10:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 10:40	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 10:40	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 10:40	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 10:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 10:40	1

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-081722
Date Collected: 08/17/22 08:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 10:40	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 10:40	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 10:40	1
o-Xylene	ND		0.50		ug/L			08/24/22 10:40	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 10:40	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 10:40	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 10:40	1
Styrene	ND		0.50		ug/L			08/24/22 10:40	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 10:40	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 10:40	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 10:40	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 10:40	1
Toluene	ND		0.50		ug/L			08/24/22 10:40	1
Trichloroethene	ND		0.50		ug/L			08/24/22 10:40	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 10:40	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 10:40	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		08/24/22 10:40	1
4-Bromofluorobenzene (Surr)	99		76 - 120		08/24/22 10:40	1
Dibromofluoromethane	107		80 - 120		08/24/22 10:40	1
Toluene-d8 (Surr)	100		80 - 120		08/24/22 10:40	1

Client Sample ID: UA-07D
Date Collected: 08/17/22 09:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 11:08	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 11:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 11:08	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 11:08	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 11:08	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 11:08	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 11:08	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 11:08	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 11:08	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 11:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 11:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 11:08	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 11:08	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 11:08	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 11:08	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 11:08	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 11:08	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 11:08	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 11:08	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 11:08	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 11:08	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-07D
Date Collected: 08/17/22 09:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 11:08	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 11:08	1
2-Hexanone	ND		6.0		ug/L			08/24/22 11:08	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 11:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 11:08	1
Acetone	ND		8.0		ug/L			08/24/22 11:08	1
Benzene	ND		0.50		ug/L			08/24/22 11:08	1
Bromobenzene	ND		0.50		ug/L			08/24/22 11:08	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 11:08	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 11:08	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 11:08	1
Bromomethane	ND		2.0		ug/L			08/24/22 11:08	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 11:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 11:08	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 11:08	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 11:08	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 11:08	1
Chloroethane	ND		0.50		ug/L			08/24/22 11:08	1
Chloroform	ND		0.50		ug/L			08/24/22 11:08	1
Chloromethane	ND		1.0		ug/L			08/24/22 11:08	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 11:08	1
Dibromomethane	ND		0.50		ug/L			08/24/22 11:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 11:08	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 11:08	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 11:08	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 11:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 11:08	1
Naphthalene	ND		1.0		ug/L			08/24/22 11:08	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 11:08	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 11:08	1
o-Xylene	ND		0.50		ug/L			08/24/22 11:08	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 11:08	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 11:08	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 11:08	1
Styrene	ND		0.50		ug/L			08/24/22 11:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 11:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 11:08	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 11:08	1
Tetrachloroethene	0.72		0.50		ug/L			08/24/22 11:08	1
Toluene	ND		0.50		ug/L			08/24/22 11:08	1
Trichloroethene	ND		0.50		ug/L			08/24/22 11:08	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 11:08	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 11:08	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 132		08/24/22 11:08	1
4-Bromofluorobenzene (Surr)	99		76 - 120		08/24/22 11:08	1
Dibromofluoromethane	104		80 - 120		08/24/22 11:08	1
Toluene-d8 (Surr)	102		80 - 120		08/24/22 11:08	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UA-07
Date Collected: 08/17/22 09:15
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 11:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 11:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 11:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 11:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 11:37	1
1,1-Dichloroethane	3.3		0.50		ug/L			08/24/22 11:37	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 11:37	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 11:37	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 11:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 11:37	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 11:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 11:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 11:37	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 11:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 11:37	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 11:37	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 11:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 11:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 11:37	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 11:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 11:37	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 11:37	1
2-Butanone	ND		5.0		ug/L			08/24/22 11:37	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 11:37	1
2-Hexanone	ND		6.0		ug/L			08/24/22 11:37	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 11:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 11:37	1
Acetone	ND		8.0		ug/L			08/24/22 11:37	1
Benzene	ND		0.50		ug/L			08/24/22 11:37	1
Bromobenzene	ND		0.50		ug/L			08/24/22 11:37	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 11:37	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 11:37	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 11:37	1
Bromomethane	ND		2.0		ug/L			08/24/22 11:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 11:37	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 11:37	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 11:37	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 11:37	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 11:37	1
Chloroethane	ND		0.50		ug/L			08/24/22 11:37	1
Chloroform	ND		0.50		ug/L			08/24/22 11:37	1
Chloromethane	ND		1.0		ug/L			08/24/22 11:37	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 11:37	1
Dibromomethane	ND		0.50		ug/L			08/24/22 11:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 11:37	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 11:37	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 11:37	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 11:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 11:37	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-07
Date Collected: 08/17/22 09:15
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 11:37	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 11:37	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 11:37	1
o-Xylene	ND		0.50		ug/L			08/24/22 11:37	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 11:37	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 11:37	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 11:37	1
Styrene	ND		0.50		ug/L			08/24/22 11:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 11:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 11:37	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 11:37	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 11:37	1
Toluene	ND		0.50		ug/L			08/24/22 11:37	1
Trichloroethene	1.1		0.50		ug/L			08/24/22 11:37	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 11:37	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 11:37	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 11:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		64 - 132					08/24/22 11:37	1
<i>4-Bromofluorobenzene (Surr)</i>	98		76 - 120					08/24/22 11:37	1
<i>Dibromofluoromethane</i>	106		80 - 120					08/24/22 11:37	1
<i>Toluene-d8 (Surr)</i>	99		80 - 120					08/24/22 11:37	1

Client Sample ID: UA-11D
Date Collected: 08/17/22 09:43
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 12:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 12:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 12:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 12:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 12:05	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 12:05	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 12:05	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 12:05	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 12:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 12:05	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 12:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 12:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 12:05	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 12:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 12:05	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 12:05	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 12:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 12:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 12:05	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 12:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 12:05	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 12:05	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-11D
Date Collected: 08/17/22 09:43
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 12:05	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 12:05	1
2-Hexanone	ND		6.0		ug/L			08/24/22 12:05	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 12:05	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 12:05	1
Acetone	ND		8.0		ug/L			08/24/22 12:05	1
Benzene	ND		0.50		ug/L			08/24/22 12:05	1
Bromobenzene	ND		0.50		ug/L			08/24/22 12:05	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 12:05	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 12:05	1
Bromoform	ND	+	0.50		ug/L			08/24/22 12:05	1
Bromomethane	ND		2.0		ug/L			08/24/22 12:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 12:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 12:05	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 12:05	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/24/22 12:05	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 12:05	1
Chloroethane	ND		0.50		ug/L			08/24/22 12:05	1
Chloroform	ND		0.50		ug/L			08/24/22 12:05	1
Chloromethane	ND		1.0		ug/L			08/24/22 12:05	1
Dibromochloromethane	ND	+	0.50		ug/L			08/24/22 12:05	1
Dibromomethane	ND		0.50		ug/L			08/24/22 12:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 12:05	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 12:05	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 12:05	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 12:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 12:05	1
Naphthalene	ND		1.0		ug/L			08/24/22 12:05	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 12:05	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 12:05	1
o-Xylene	ND		0.50		ug/L			08/24/22 12:05	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 12:05	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 12:05	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 12:05	1
Styrene	ND		0.50		ug/L			08/24/22 12:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 12:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 12:05	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 12:05	1
Tetrachloroethene	0.89		0.50		ug/L			08/24/22 12:05	1
Toluene	ND		0.50		ug/L			08/24/22 12:05	1
Trichloroethene	ND		0.50		ug/L			08/24/22 12:05	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 12:05	1
Vinyl acetate	ND	+	5.0		ug/L			08/24/22 12:05	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 132		08/24/22 12:05	1
4-Bromofluorobenzene (Surr)	97		76 - 120		08/24/22 12:05	1
Dibromofluoromethane	106		80 - 120		08/24/22 12:05	1
Toluene-d8 (Surr)	100		80 - 120		08/24/22 12:05	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-30
Date Collected: 08/17/22 09:56
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 12:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 12:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 12:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 12:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 12:33	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 12:33	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 12:33	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 12:33	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 12:33	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 12:33	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 12:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 12:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 12:33	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 12:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 12:33	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 12:33	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 12:33	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 12:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 12:33	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 12:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 12:33	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 12:33	1
2-Butanone	ND		5.0		ug/L			08/24/22 12:33	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 12:33	1
2-Hexanone	ND		6.0		ug/L			08/24/22 12:33	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 12:33	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 12:33	1
Acetone	ND		8.0		ug/L			08/24/22 12:33	1
Benzene	ND		0.50		ug/L			08/24/22 12:33	1
Bromobenzene	ND		0.50		ug/L			08/24/22 12:33	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 12:33	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 12:33	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 12:33	1
Bromomethane	ND		2.0		ug/L			08/24/22 12:33	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 12:33	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 12:33	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 12:33	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 12:33	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 12:33	1
Chloroethane	ND		0.50		ug/L			08/24/22 12:33	1
Chloroform	ND		0.50		ug/L			08/24/22 12:33	1
Chloromethane	ND		1.0		ug/L			08/24/22 12:33	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 12:33	1
Dibromomethane	ND		0.50		ug/L			08/24/22 12:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 12:33	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 12:33	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 12:33	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 12:33	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 12:33	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-30
Date Collected: 08/17/22 09:56
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 12:33	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 12:33	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 12:33	1
o-Xylene	ND		0.50		ug/L			08/24/22 12:33	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 12:33	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 12:33	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 12:33	1
Styrene	ND		0.50		ug/L			08/24/22 12:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 12:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 12:33	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 12:33	1
Tetrachloroethene	1.5		0.50		ug/L			08/24/22 12:33	1
Toluene	ND		0.50		ug/L			08/24/22 12:33	1
Trichloroethene	ND		0.50		ug/L			08/24/22 12:33	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 12:33	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 12:33	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 132		08/24/22 12:33	1
4-Bromofluorobenzene (Surr)	99		76 - 120		08/24/22 12:33	1
Dibromofluoromethane	107		80 - 120		08/24/22 12:33	1
Toluene-d8 (Surr)	101		80 - 120		08/24/22 12:33	1

Client Sample ID: UA-11
Date Collected: 08/17/22 10:05
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 13:29	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 13:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 13:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 13:29	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 13:29	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 13:29	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 13:29	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 13:29	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 13:29	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 13:29	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 13:29	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 13:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 13:29	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 13:29	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:29	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 13:29	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 13:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 13:29	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:29	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 13:29	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:29	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 13:29	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-11
Date Collected: 08/17/22 10:05
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 13:29	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 13:29	1
2-Hexanone	ND		6.0		ug/L			08/24/22 13:29	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 13:29	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 13:29	1
Acetone	ND		8.0		ug/L			08/24/22 13:29	1
Benzene	ND		0.50		ug/L			08/24/22 13:29	1
Bromobenzene	ND		0.50		ug/L			08/24/22 13:29	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 13:29	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 13:29	1
Bromoform	ND	+	0.50		ug/L			08/24/22 13:29	1
Bromomethane	ND		2.0		ug/L			08/24/22 13:29	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 13:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 13:29	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 13:29	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/24/22 13:29	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 13:29	1
Chloroethane	ND		0.50		ug/L			08/24/22 13:29	1
Chloroform	ND		0.50		ug/L			08/24/22 13:29	1
Chloromethane	ND		1.0		ug/L			08/24/22 13:29	1
Dibromochloromethane	ND	+	0.50		ug/L			08/24/22 13:29	1
Dibromomethane	ND		0.50		ug/L			08/24/22 13:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 13:29	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 13:29	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 13:29	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 13:29	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 13:29	1
Naphthalene	ND		1.0		ug/L			08/24/22 13:29	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 13:29	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 13:29	1
o-Xylene	ND		0.50		ug/L			08/24/22 13:29	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 13:29	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 13:29	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 13:29	1
Styrene	ND		0.50		ug/L			08/24/22 13:29	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 13:29	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 13:29	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 13:29	1
Tetrachloroethene	6.0		0.50		ug/L			08/24/22 13:29	1
Toluene	ND		0.50		ug/L			08/24/22 13:29	1
Trichloroethene	2.2		0.50		ug/L			08/24/22 13:29	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 13:29	1
Vinyl acetate	ND	+	5.0		ug/L			08/24/22 13:29	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 132		08/24/22 13:29	1
4-Bromofluorobenzene (Surr)	100		76 - 120		08/24/22 13:29	1
Dibromofluoromethane	103		80 - 120		08/24/22 13:29	1
Toluene-d8 (Surr)	102		80 - 120		08/24/22 13:29	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UB-03
Date Collected: 08/17/22 10:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 13:57	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 13:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 13:57	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 13:57	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 13:57	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 13:57	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 13:57	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 13:57	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 13:57	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 13:57	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 13:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 13:57	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 13:57	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:57	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 13:57	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 13:57	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 13:57	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:57	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 13:57	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 13:57	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 13:57	1
2-Butanone	ND		5.0		ug/L			08/24/22 13:57	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 13:57	1
2-Hexanone	ND		6.0		ug/L			08/24/22 13:57	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 13:57	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 13:57	1
Acetone	ND		8.0		ug/L			08/24/22 13:57	1
Benzene	ND		0.50		ug/L			08/24/22 13:57	1
Bromobenzene	ND		0.50		ug/L			08/24/22 13:57	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 13:57	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 13:57	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 13:57	1
Bromomethane	ND		2.0		ug/L			08/24/22 13:57	1
cis-1,2-Dichloroethene	4.3		0.50		ug/L			08/24/22 13:57	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 13:57	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 13:57	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 13:57	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 13:57	1
Chloroethane	ND		0.50		ug/L			08/24/22 13:57	1
Chloroform	ND		0.50		ug/L			08/24/22 13:57	1
Chloromethane	ND		1.0		ug/L			08/24/22 13:57	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 13:57	1
Dibromomethane	ND		0.50		ug/L			08/24/22 13:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 13:57	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 13:57	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 13:57	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 13:57	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 13:57	1

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UB-03
Date Collected: 08/17/22 10:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 13:57	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 13:57	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 13:57	1
o-Xylene	ND		0.50		ug/L			08/24/22 13:57	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 13:57	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 13:57	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 13:57	1
Styrene	ND		0.50		ug/L			08/24/22 13:57	1
trans-1,2-Dichloroethene	7.2		0.50		ug/L			08/24/22 13:57	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 13:57	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 13:57	1
Tetrachloroethene	1.1		0.50		ug/L			08/24/22 13:57	1
Toluene	ND		0.50		ug/L			08/24/22 13:57	1
Trichloroethene	0.89		0.50		ug/L			08/24/22 13:57	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 13:57	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 13:57	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 13:57	1
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Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		64 - 132					08/24/22 13:57	1
<i>4-Bromofluorobenzene (Surr)</i>	98		76 - 120					08/24/22 13:57	1
<i>Dibromofluoromethane</i>	106		80 - 120					08/24/22 13:57	1
<i>Toluene-d8 (Surr)</i>	102		80 - 120					08/24/22 13:57	1

Client Sample ID: RB-081722B
Date Collected: 08/17/22 11:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 14:26	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 14:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 14:26	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 14:26	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 14:26	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 14:26	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 14:26	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 14:26	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 14:26	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 14:26	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 14:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 14:26	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 14:26	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 14:26	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 14:26	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 14:26	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 14:26	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 14:26	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 14:26	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 14:26	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 14:26	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-081722B
Date Collected: 08/17/22 11:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 14:26	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 14:26	1
2-Hexanone	ND		6.0		ug/L			08/24/22 14:26	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 14:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 14:26	1
Acetone	ND		8.0		ug/L			08/24/22 14:26	1
Benzene	ND		0.50		ug/L			08/24/22 14:26	1
Bromobenzene	ND		0.50		ug/L			08/24/22 14:26	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 14:26	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 14:26	1
Bromoform	ND	+	0.50		ug/L			08/24/22 14:26	1
Bromomethane	ND		2.0		ug/L			08/24/22 14:26	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 14:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 14:26	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 14:26	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/24/22 14:26	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 14:26	1
Chloroethane	ND		0.50		ug/L			08/24/22 14:26	1
Chloroform	ND		0.50		ug/L			08/24/22 14:26	1
Chloromethane	ND		1.0		ug/L			08/24/22 14:26	1
Dibromochloromethane	ND	+	0.50		ug/L			08/24/22 14:26	1
Dibromomethane	ND		0.50		ug/L			08/24/22 14:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 14:26	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 14:26	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 14:26	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 14:26	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 14:26	1
Naphthalene	ND		1.0		ug/L			08/24/22 14:26	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 14:26	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 14:26	1
o-Xylene	ND		0.50		ug/L			08/24/22 14:26	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 14:26	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 14:26	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 14:26	1
Styrene	ND		0.50		ug/L			08/24/22 14:26	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 14:26	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 14:26	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 14:26	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 14:26	1
Toluene	ND		0.50		ug/L			08/24/22 14:26	1
Trichloroethene	ND		0.50		ug/L			08/24/22 14:26	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 14:26	1
Vinyl acetate	ND	+	5.0		ug/L			08/24/22 14:26	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 132		08/24/22 14:26	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/24/22 14:26	1
Dibromofluoromethane	106		80 - 120		08/24/22 14:26	1
Toluene-d8 (Surr)	101		80 - 120		08/24/22 14:26	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-29
Date Collected: 08/17/22 11:10
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 14:54	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 14:54	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 14:54	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 14:54	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 14:54	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 14:54	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 14:54	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 14:54	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 14:54	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 14:54	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 14:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 14:54	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 14:54	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 14:54	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 14:54	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 14:54	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 14:54	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 14:54	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 14:54	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 14:54	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 14:54	1
2-Butanone	ND		5.0		ug/L			08/24/22 14:54	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 14:54	1
2-Hexanone	ND		6.0		ug/L			08/24/22 14:54	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 14:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 14:54	1
Acetone	ND		8.0		ug/L			08/24/22 14:54	1
Benzene	ND		0.50		ug/L			08/24/22 14:54	1
Bromobenzene	ND		0.50		ug/L			08/24/22 14:54	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 14:54	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 14:54	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 14:54	1
Bromomethane	ND		2.0		ug/L			08/24/22 14:54	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 14:54	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 14:54	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 14:54	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 14:54	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 14:54	1
Chloroethane	ND		0.50		ug/L			08/24/22 14:54	1
Chloroform	ND		0.50		ug/L			08/24/22 14:54	1
Chloromethane	ND		1.0		ug/L			08/24/22 14:54	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 14:54	1
Dibromomethane	ND		0.50		ug/L			08/24/22 14:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 14:54	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 14:54	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 14:54	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 14:54	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 14:54	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-29
Date Collected: 08/17/22 11:10
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 14:54	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 14:54	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 14:54	1
o-Xylene	ND		0.50		ug/L			08/24/22 14:54	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 14:54	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 14:54	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 14:54	1
Styrene	ND		0.50		ug/L			08/24/22 14:54	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 14:54	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 14:54	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 14:54	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 14:54	1
Toluene	ND		0.50		ug/L			08/24/22 14:54	1
Trichloroethene	ND		0.50		ug/L			08/24/22 14:54	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 14:54	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 14:54	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	99		64 - 132		08/24/22 14:54	1
<i>4-Bromofluorobenzene (Surr)</i>	99		76 - 120		08/24/22 14:54	1
<i>Dibromofluoromethane</i>	109		80 - 120		08/24/22 14:54	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120		08/24/22 14:54	1

Client Sample ID: UA-12D
Date Collected: 08/17/22 11:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 15:22	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 15:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 15:22	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 15:22	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 15:22	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 15:22	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 15:22	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 15:22	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 15:22	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 15:22	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 15:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 15:22	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 15:22	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 15:22	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 15:22	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 15:22	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 15:22	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 15:22	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 15:22	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 15:22	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 15:22	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-12D
Date Collected: 08/17/22 11:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 15:22	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 15:22	1
2-Hexanone	ND		6.0		ug/L			08/24/22 15:22	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 15:22	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 15:22	1
Acetone	ND		8.0		ug/L			08/24/22 15:22	1
Benzene	ND		0.50		ug/L			08/24/22 15:22	1
Bromobenzene	ND		0.50		ug/L			08/24/22 15:22	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 15:22	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 15:22	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 15:22	1
Bromomethane	ND		2.0		ug/L			08/24/22 15:22	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 15:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 15:22	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 15:22	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 15:22	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 15:22	1
Chloroethane	ND		0.50		ug/L			08/24/22 15:22	1
Chloroform	ND		0.50		ug/L			08/24/22 15:22	1
Chloromethane	ND		1.0		ug/L			08/24/22 15:22	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 15:22	1
Dibromomethane	ND		0.50		ug/L			08/24/22 15:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 15:22	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 15:22	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 15:22	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 15:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 15:22	1
Naphthalene	ND		1.0		ug/L			08/24/22 15:22	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 15:22	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 15:22	1
o-Xylene	ND		0.50		ug/L			08/24/22 15:22	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 15:22	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 15:22	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 15:22	1
Styrene	ND		0.50		ug/L			08/24/22 15:22	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 15:22	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 15:22	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 15:22	1
Tetrachloroethene	0.76		0.50		ug/L			08/24/22 15:22	1
Toluene	ND		0.50		ug/L			08/24/22 15:22	1
Trichloroethene	ND		0.50		ug/L			08/24/22 15:22	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 15:22	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 15:22	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	99		64 - 132		08/24/22 15:22	1
<i>4-Bromofluorobenzene (Surr)</i>	101		76 - 120		08/24/22 15:22	1
<i>Dibromofluoromethane</i>	107		80 - 120		08/24/22 15:22	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120		08/24/22 15:22	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UA-12
Date Collected: 08/17/22 11:30
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 15:50	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 15:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 15:50	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 15:50	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 15:50	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 15:50	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 15:50	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 15:50	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 15:50	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 15:50	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 15:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 15:50	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 15:50	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 15:50	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 15:50	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 15:50	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 15:50	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 15:50	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 15:50	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 15:50	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 15:50	1
2-Butanone	ND		5.0		ug/L			08/24/22 15:50	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 15:50	1
2-Hexanone	ND		6.0		ug/L			08/24/22 15:50	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 15:50	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 15:50	1
Acetone	ND		8.0		ug/L			08/24/22 15:50	1
Benzene	ND		0.50		ug/L			08/24/22 15:50	1
Bromobenzene	ND		0.50		ug/L			08/24/22 15:50	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 15:50	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 15:50	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 15:50	1
Bromomethane	ND		2.0		ug/L			08/24/22 15:50	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 15:50	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 15:50	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 15:50	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 15:50	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 15:50	1
Chloroethane	ND		0.50		ug/L			08/24/22 15:50	1
Chloroform	ND		0.50		ug/L			08/24/22 15:50	1
Chloromethane	ND		1.0		ug/L			08/24/22 15:50	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 15:50	1
Dibromomethane	ND		0.50		ug/L			08/24/22 15:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 15:50	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 15:50	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 15:50	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 15:50	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 15:50	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-12
Date Collected: 08/17/22 11:30
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 15:50	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 15:50	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 15:50	1
o-Xylene	ND		0.50		ug/L			08/24/22 15:50	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 15:50	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 15:50	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 15:50	1
Styrene	ND		0.50		ug/L			08/24/22 15:50	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 15:50	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 15:50	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 15:50	1
Tetrachloroethene	0.74		0.50		ug/L			08/24/22 15:50	1
Toluene	ND		0.50		ug/L			08/24/22 15:50	1
Trichloroethene	1.7		0.50		ug/L			08/24/22 15:50	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 15:50	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 15:50	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 132		08/24/22 15:50	1
4-Bromofluorobenzene (Surr)	99		76 - 120		08/24/22 15:50	1
Dibromofluoromethane	108		80 - 120		08/24/22 15:50	1
Toluene-d8 (Surr)	100		80 - 120		08/24/22 15:50	1

Client Sample ID: AB-01
Date Collected: 08/17/22 12:45
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 16:18	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 16:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 16:18	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 16:18	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 16:18	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 16:18	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 16:18	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:18	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 16:18	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:18	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 16:18	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 16:18	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:18	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 16:18	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:18	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:18	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:18	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 16:18	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:18	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:18	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: AB-01
Date Collected: 08/17/22 12:45
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 16:18	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:18	1
2-Hexanone	ND		6.0		ug/L			08/24/22 16:18	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:18	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 16:18	1
Acetone	ND		8.0		ug/L			08/24/22 16:18	1
Benzene	ND		0.50		ug/L			08/24/22 16:18	1
Bromobenzene	ND		0.50		ug/L			08/24/22 16:18	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 16:18	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 16:18	1
Bromoform	ND	+	0.50		ug/L			08/24/22 16:18	1
Bromomethane	ND		2.0		ug/L			08/24/22 16:18	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 16:18	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 16:18	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/24/22 16:18	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 16:18	1
Chloroethane	ND		0.50		ug/L			08/24/22 16:18	1
Chloroform	ND		0.50		ug/L			08/24/22 16:18	1
Chloromethane	ND		1.0		ug/L			08/24/22 16:18	1
Dibromochloromethane	ND	+	0.50		ug/L			08/24/22 16:18	1
Dibromomethane	ND		0.50		ug/L			08/24/22 16:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 16:18	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 16:18	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 16:18	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 16:18	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 16:18	1
Naphthalene	ND		1.0		ug/L			08/24/22 16:18	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 16:18	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 16:18	1
o-Xylene	ND		0.50		ug/L			08/24/22 16:18	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 16:18	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 16:18	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 16:18	1
Styrene	ND		0.50		ug/L			08/24/22 16:18	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:18	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 16:18	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 16:18	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 16:18	1
Toluene	ND		0.50		ug/L			08/24/22 16:18	1
Trichloroethene	ND		0.50		ug/L			08/24/22 16:18	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 16:18	1
Vinyl acetate	ND	+	5.0		ug/L			08/24/22 16:18	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 132		08/24/22 16:18	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/24/22 16:18	1
Dibromofluoromethane	107		80 - 120		08/24/22 16:18	1
Toluene-d8 (Surr)	102		80 - 120		08/24/22 16:18	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UA-06D
Date Collected: 08/17/22 13:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 16:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 16:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 16:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 16:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 16:47	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 16:47	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 16:47	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 16:47	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 16:47	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 16:47	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 16:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:47	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 16:47	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:47	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 16:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:47	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:47	1
2-Butanone	ND		5.0		ug/L			08/24/22 16:47	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:47	1
2-Hexanone	ND		6.0		ug/L			08/24/22 16:47	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 16:47	1
Acetone	ND		8.0		ug/L			08/24/22 16:47	1
Benzene	ND		0.50		ug/L			08/24/22 16:47	1
Bromobenzene	ND		0.50		ug/L			08/24/22 16:47	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 16:47	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 16:47	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 16:47	1
Bromomethane	ND		2.0		ug/L			08/24/22 16:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:47	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 16:47	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 16:47	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 16:47	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 16:47	1
Chloroethane	ND		0.50		ug/L			08/24/22 16:47	1
Chloroform	ND		0.50		ug/L			08/24/22 16:47	1
Chloromethane	ND		1.0		ug/L			08/24/22 16:47	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 16:47	1
Dibromomethane	ND		0.50		ug/L			08/24/22 16:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 16:47	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 16:47	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 16:47	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 16:47	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 16:47	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-06D
Date Collected: 08/17/22 13:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 16:47	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 16:47	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 16:47	1
o-Xylene	ND		0.50		ug/L			08/24/22 16:47	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 16:47	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 16:47	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 16:47	1
Styrene	ND		0.50		ug/L			08/24/22 16:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 16:47	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 16:47	1
Tetrachloroethene	2.9		0.50		ug/L			08/24/22 16:47	1
Toluene	ND		0.50		ug/L			08/24/22 16:47	1
Trichloroethene	ND		0.50		ug/L			08/24/22 16:47	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 16:47	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 16:47	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 132		08/24/22 16:47	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/24/22 16:47	1
Dibromofluoromethane	109		80 - 120		08/24/22 16:47	1
Toluene-d8 (Surr)	102		80 - 120		08/24/22 16:47	1

Client Sample ID: UA-06
Date Collected: 08/17/22 13:12
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 17:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 17:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 17:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 17:15	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 17:15	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 17:15	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 17:15	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 17:15	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 17:15	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 17:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:15	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 17:15	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:15	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:15	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:15	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:15	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-06
Date Collected: 08/17/22 13:12
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 17:15	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:15	1
2-Hexanone	ND		6.0		ug/L			08/24/22 17:15	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 17:15	1
Acetone	ND		8.0		ug/L			08/24/22 17:15	1
Benzene	ND		0.50		ug/L			08/24/22 17:15	1
Bromobenzene	ND		0.50		ug/L			08/24/22 17:15	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 17:15	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 17:15	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 17:15	1
Bromomethane	ND		2.0		ug/L			08/24/22 17:15	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:15	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 17:15	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 17:15	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 17:15	1
Chloroethane	ND		0.50		ug/L			08/24/22 17:15	1
Chloroform	ND		0.50		ug/L			08/24/22 17:15	1
Chloromethane	ND		1.0		ug/L			08/24/22 17:15	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 17:15	1
Dibromomethane	ND		0.50		ug/L			08/24/22 17:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 17:15	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 17:15	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 17:15	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 17:15	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 17:15	1
Naphthalene	ND		1.0		ug/L			08/24/22 17:15	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 17:15	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 17:15	1
o-Xylene	ND		0.50		ug/L			08/24/22 17:15	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 17:15	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 17:15	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 17:15	1
Styrene	ND		0.50		ug/L			08/24/22 17:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:15	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 17:15	1
Tetrachloroethene	1.2		0.50		ug/L			08/24/22 17:15	1
Toluene	ND		0.50		ug/L			08/24/22 17:15	1
Trichloroethene	3.6		0.50		ug/L			08/24/22 17:15	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 17:15	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 17:15	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		64 - 132					08/24/22 17:15	1
<i>4-Bromofluorobenzene (Surr)</i>	99		76 - 120					08/24/22 17:15	1
<i>Dibromofluoromethane</i>	107		80 - 120					08/24/22 17:15	1
<i>Toluene-d8 (Surr)</i>	101		80 - 120					08/24/22 17:15	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-26
Date Collected: 08/17/22 15:15
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 17:43	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 17:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 17:43	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 17:43	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 17:43	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 17:43	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 17:43	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:43	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 17:43	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:43	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 17:43	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 17:43	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:43	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 17:43	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:43	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:43	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:43	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:43	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:43	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:43	1
2-Butanone	ND		5.0		ug/L			08/24/22 17:43	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:43	1
2-Hexanone	ND		6.0		ug/L			08/24/22 17:43	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:43	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 17:43	1
Acetone	ND		8.0		ug/L			08/24/22 17:43	1
Benzene	ND		0.50		ug/L			08/24/22 17:43	1
Bromobenzene	ND		0.50		ug/L			08/24/22 17:43	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 17:43	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 17:43	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 17:43	1
Bromomethane	ND		2.0		ug/L			08/24/22 17:43	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:43	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:43	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 17:43	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 17:43	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 17:43	1
Chloroethane	ND		0.50		ug/L			08/24/22 17:43	1
Chloroform	ND		0.50		ug/L			08/24/22 17:43	1
Chloromethane	ND		1.0		ug/L			08/24/22 17:43	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 17:43	1
Dibromomethane	ND		0.50		ug/L			08/24/22 17:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 17:43	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 17:43	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 17:43	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 17:43	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 17:43	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-26
Date Collected: 08/17/22 15:15
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 17:43	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 17:43	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 17:43	1
o-Xylene	ND		0.50		ug/L			08/24/22 17:43	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 17:43	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 17:43	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 17:43	1
Styrene	ND		0.50		ug/L			08/24/22 17:43	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:43	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:43	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 17:43	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 17:43	1
Toluene	ND		0.50		ug/L			08/24/22 17:43	1
Trichloroethene	ND		0.50		ug/L			08/24/22 17:43	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 17:43	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 17:43	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 132		08/24/22 17:43	1
4-Bromofluorobenzene (Surr)	99		76 - 120		08/24/22 17:43	1
Dibromofluoromethane	108		80 - 120		08/24/22 17:43	1
Toluene-d8 (Surr)	101		80 - 120		08/24/22 17:43	1

Client Sample ID: LAX-02
Date Collected: 08/17/22 15:36
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 18:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 18:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 18:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 18:11	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 18:11	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 18:11	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 18:11	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:11	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 18:11	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:11	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 18:11	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 18:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:11	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 18:11	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:11	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:11	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 18:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:11	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:11	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-02
Date Collected: 08/17/22 15:36
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 18:11	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:11	1
2-Hexanone	ND		6.0		ug/L			08/24/22 18:11	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 18:11	1
Acetone	ND		8.0		ug/L			08/24/22 18:11	1
Benzene	ND		0.50		ug/L			08/24/22 18:11	1
Bromobenzene	ND		0.50		ug/L			08/24/22 18:11	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 18:11	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 18:11	1
Bromoform	ND	+	0.50		ug/L			08/24/22 18:11	1
Bromomethane	ND		2.0		ug/L			08/24/22 18:11	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 18:11	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 18:11	1
Carbon tetrachloride	ND	+	0.50		ug/L			08/24/22 18:11	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 18:11	1
Chloroethane	ND		0.50		ug/L			08/24/22 18:11	1
Chloroform	ND		0.50		ug/L			08/24/22 18:11	1
Chloromethane	ND		1.0		ug/L			08/24/22 18:11	1
Dibromochloromethane	ND	+	0.50		ug/L			08/24/22 18:11	1
Dibromomethane	ND		0.50		ug/L			08/24/22 18:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 18:11	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 18:11	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 18:11	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 18:11	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 18:11	1
Naphthalene	ND		1.0		ug/L			08/24/22 18:11	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 18:11	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 18:11	1
o-Xylene	ND		0.50		ug/L			08/24/22 18:11	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 18:11	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 18:11	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 18:11	1
Styrene	ND		0.50		ug/L			08/24/22 18:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 18:11	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 18:11	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 18:11	1
Toluene	ND		0.50		ug/L			08/24/22 18:11	1
Trichloroethene	ND		0.50		ug/L			08/24/22 18:11	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 18:11	1
Vinyl acetate	ND	+	5.0		ug/L			08/24/22 18:11	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 132		08/24/22 18:11	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/24/22 18:11	1
Dibromofluoromethane	107		80 - 120		08/24/22 18:11	1
Toluene-d8 (Surr)	102		80 - 120		08/24/22 18:11	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-08
Date Collected: 08/17/22 16:02
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*+	0.50		ug/L			08/24/22 18:39	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 18:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 18:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 18:39	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 18:39	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 18:39	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 18:39	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 18:39	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:39	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 18:39	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:39	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 18:39	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 18:39	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:39	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 18:39	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:39	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:39	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:39	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 18:39	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:39	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:39	1
2-Butanone	ND		5.0		ug/L			08/24/22 18:39	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:39	1
2-Hexanone	ND		6.0		ug/L			08/24/22 18:39	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:39	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 18:39	1
Acetone	ND		8.0		ug/L			08/24/22 18:39	1
Benzene	ND		0.50		ug/L			08/24/22 18:39	1
Bromobenzene	ND		0.50		ug/L			08/24/22 18:39	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 18:39	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 18:39	1
Bromoform	ND	*+	0.50		ug/L			08/24/22 18:39	1
Bromomethane	ND		2.0		ug/L			08/24/22 18:39	1
cis-1,2-Dichloroethene	0.68		0.50		ug/L			08/24/22 18:39	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 18:39	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 18:39	1
Carbon tetrachloride	ND	*+	0.50		ug/L			08/24/22 18:39	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 18:39	1
Chloroethane	ND		0.50		ug/L			08/24/22 18:39	1
Chloroform	1.0		0.50		ug/L			08/24/22 18:39	1
Chloromethane	ND		1.0		ug/L			08/24/22 18:39	1
Dibromochloromethane	ND	*+	0.50		ug/L			08/24/22 18:39	1
Dibromomethane	ND		0.50		ug/L			08/24/22 18:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 18:39	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 18:39	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 18:39	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 18:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 18:39	1

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-08
Date Collected: 08/17/22 16:02
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 18:39	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 18:39	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 18:39	1
o-Xylene	ND		0.50		ug/L			08/24/22 18:39	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 18:39	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 18:39	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 18:39	1
Styrene	ND		0.50		ug/L			08/24/22 18:39	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:39	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 18:39	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 18:39	1
Tetrachloroethene	42		0.50		ug/L			08/24/22 18:39	1
Toluene	ND		0.50		ug/L			08/24/22 18:39	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 18:39	1
Vinyl acetate	ND	*+	5.0		ug/L			08/24/22 18:39	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		64 - 132		08/24/22 18:39	1
<i>4-Bromofluorobenzene (Surr)</i>	98		76 - 120		08/24/22 18:39	1
<i>Dibromofluoromethane</i>	109		80 - 120		08/24/22 18:39	1
<i>Toluene-d8 (Surr)</i>	105		80 - 120		08/24/22 18:39	1

Client Sample ID: HEW-01
Date Collected: 08/16/22 16:53
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 16:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 16:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 16:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 16:11	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 16:11	1
1,1-Dichloroethene	2.1		0.50		ug/L			08/24/22 16:11	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 16:11	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:11	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 16:11	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:11	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 16:11	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 16:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:11	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 16:11	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:11	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:11	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 16:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:11	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:11	1
2-Butanone	ND		5.0		ug/L			08/24/22 16:11	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-01
Date Collected: 08/16/22 16:53
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:11	1
2-Hexanone	ND		6.0		ug/L			08/24/22 16:11	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 16:11	1
Acetone	ND		8.0		ug/L			08/24/22 16:11	1
Benzene	ND		0.50		ug/L			08/24/22 16:11	1
Bromobenzene	ND	*+	0.50		ug/L			08/24/22 16:11	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 16:11	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 16:11	1
Bromoform	ND		0.50		ug/L			08/24/22 16:11	1
Bromomethane	ND		2.0		ug/L			08/24/22 16:11	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 16:11	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 16:11	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 16:11	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 16:11	1
Chloroethane	ND		0.50		ug/L			08/24/22 16:11	1
Chloroform	ND		0.50		ug/L			08/24/22 16:11	1
Chloromethane	ND		1.0		ug/L			08/24/22 16:11	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 16:11	1
Dibromomethane	ND		0.50		ug/L			08/24/22 16:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 16:11	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 16:11	1
Isopropylbenzene	ND	*+	0.50		ug/L			08/24/22 16:11	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 16:11	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 16:11	1
Naphthalene	ND		1.0		ug/L			08/24/22 16:11	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 16:11	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 16:11	1
o-Xylene	ND		0.50		ug/L			08/24/22 16:11	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 16:11	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 16:11	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 16:11	1
Styrene	ND		0.50		ug/L			08/24/22 16:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 16:11	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 16:11	1
Tetrachloroethene	12		0.50		ug/L			08/24/22 16:11	1
Toluene	ND		0.50		ug/L			08/24/22 16:11	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 16:11	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 16:11	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 132		08/24/22 16:11	1
4-Bromofluorobenzene (Surr)	98		76 - 120		08/24/22 16:11	1
Dibromofluoromethane	97		80 - 120		08/24/22 16:11	1
Toluene-d8 (Surr)	99		80 - 120		08/24/22 16:11	1

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UAX-03
Date Collected: 08/17/22 08:25
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 16:39	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 16:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 16:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 16:39	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 16:39	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 16:39	1
1,1-Dichloroethene	0.53		0.50		ug/L			08/24/22 16:39	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 16:39	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:39	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 16:39	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:39	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 16:39	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 16:39	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:39	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 16:39	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:39	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:39	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:39	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 16:39	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:39	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:39	1
2-Butanone	ND		5.0		ug/L			08/24/22 16:39	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:39	1
2-Hexanone	ND		6.0		ug/L			08/24/22 16:39	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:39	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 16:39	1
Acetone	ND		8.0		ug/L			08/24/22 16:39	1
Benzene	ND		0.50		ug/L			08/24/22 16:39	1
Bromobenzene	ND	+	0.50		ug/L			08/24/22 16:39	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 16:39	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 16:39	1
Bromoform	ND		0.50		ug/L			08/24/22 16:39	1
Bromomethane	ND		2.0		ug/L			08/24/22 16:39	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:39	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 16:39	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 16:39	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 16:39	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 16:39	1
Chloroethane	ND		0.50		ug/L			08/24/22 16:39	1
Chloroform	ND		0.50		ug/L			08/24/22 16:39	1
Chloromethane	ND		1.0		ug/L			08/24/22 16:39	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 16:39	1
Dibromomethane	ND		0.50		ug/L			08/24/22 16:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 16:39	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 16:39	1
Isopropylbenzene	ND	+	0.50		ug/L			08/24/22 16:39	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 16:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 16:39	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-03
Date Collected: 08/17/22 08:25
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 16:39	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 16:39	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 16:39	1
o-Xylene	ND		0.50		ug/L			08/24/22 16:39	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 16:39	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 16:39	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 16:39	1
Styrene	ND		0.50		ug/L			08/24/22 16:39	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:39	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 16:39	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 16:39	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 16:39	1
Toluene	ND		0.50		ug/L			08/24/22 16:39	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 16:39	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 16:39	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		64 - 132		08/24/22 16:39	1
<i>4-Bromofluorobenzene (Surr)</i>	101		76 - 120		08/24/22 16:39	1
<i>Dibromofluoromethane</i>	98		80 - 120		08/24/22 16:39	1
<i>Toluene-d8 (Surr)</i>	94		80 - 120		08/24/22 16:39	1

Client Sample ID: S-21
Date Collected: 08/17/22 08:35
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:06	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 17:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 17:06	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 17:06	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 17:06	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 17:06	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 17:06	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:06	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 17:06	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:06	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 17:06	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 17:06	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:06	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 17:06	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:06	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:06	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:06	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:06	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:06	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:06	1
2-Butanone	ND		5.0		ug/L			08/24/22 17:06	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-21
Date Collected: 08/17/22 08:35
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:06	1
2-Hexanone	ND		6.0		ug/L			08/24/22 17:06	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:06	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 17:06	1
Acetone	ND		8.0		ug/L			08/24/22 17:06	1
Benzene	ND		0.50		ug/L			08/24/22 17:06	1
Bromobenzene	ND	*+	0.50		ug/L			08/24/22 17:06	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 17:06	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 17:06	1
Bromoform	ND		0.50		ug/L			08/24/22 17:06	1
Bromomethane	ND		2.0		ug/L			08/24/22 17:06	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:06	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 17:06	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 17:06	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 17:06	1
Chloroethane	ND		0.50		ug/L			08/24/22 17:06	1
Chloroform	0.53		0.50		ug/L			08/24/22 17:06	1
Chloromethane	ND		1.0		ug/L			08/24/22 17:06	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 17:06	1
Dibromomethane	ND		0.50		ug/L			08/24/22 17:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 17:06	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 17:06	1
Isopropylbenzene	ND	*+	0.50		ug/L			08/24/22 17:06	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 17:06	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 17:06	1
Naphthalene	ND		1.0		ug/L			08/24/22 17:06	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 17:06	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 17:06	1
o-Xylene	ND		0.50		ug/L			08/24/22 17:06	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 17:06	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 17:06	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 17:06	1
Styrene	ND		0.50		ug/L			08/24/22 17:06	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:06	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:06	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 17:06	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 17:06	1
Toluene	ND		0.50		ug/L			08/24/22 17:06	1
Trichloroethene	ND		0.50		ug/L			08/24/22 17:06	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 17:06	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 17:06	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 132		08/24/22 17:06	1
4-Bromofluorobenzene (Surr)	100		76 - 120		08/24/22 17:06	1
Dibromofluoromethane	101		80 - 120		08/24/22 17:06	1
Toluene-d8 (Surr)	95		80 - 120		08/24/22 17:06	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-24
Date Collected: 08/17/22 08:45
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:34	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 17:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 17:34	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 17:34	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 17:34	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 17:34	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 17:34	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:34	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 17:34	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:34	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 17:34	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 17:34	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:34	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 17:34	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:34	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:34	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:34	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:34	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:34	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:34	1
2-Butanone	ND		5.0		ug/L			08/24/22 17:34	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:34	1
2-Hexanone	ND		6.0		ug/L			08/24/22 17:34	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 17:34	1
Acetone	ND		8.0		ug/L			08/24/22 17:34	1
Benzene	ND		0.50		ug/L			08/24/22 17:34	1
Bromobenzene	ND	*+	0.50		ug/L			08/24/22 17:34	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 17:34	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 17:34	1
Bromoform	ND		0.50		ug/L			08/24/22 17:34	1
Bromomethane	ND		2.0		ug/L			08/24/22 17:34	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:34	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:34	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 17:34	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 17:34	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 17:34	1
Chloroethane	ND		0.50		ug/L			08/24/22 17:34	1
Chloroform	ND		0.50		ug/L			08/24/22 17:34	1
Chloromethane	ND		1.0		ug/L			08/24/22 17:34	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 17:34	1
Dibromomethane	ND		0.50		ug/L			08/24/22 17:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 17:34	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 17:34	1
Isopropylbenzene	ND	*+	0.50		ug/L			08/24/22 17:34	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 17:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 17:34	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-24
Date Collected: 08/17/22 08:45
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 17:34	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 17:34	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 17:34	1
o-Xylene	ND		0.50		ug/L			08/24/22 17:34	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 17:34	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 17:34	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 17:34	1
Styrene	ND		0.50		ug/L			08/24/22 17:34	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:34	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:34	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 17:34	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 17:34	1
Toluene	ND		0.50		ug/L			08/24/22 17:34	1
Trichloroethene	ND		0.50		ug/L			08/24/22 17:34	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 17:34	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 17:34	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		64 - 132		08/24/22 17:34	1
<i>4-Bromofluorobenzene (Surr)</i>	96		76 - 120		08/24/22 17:34	1
<i>Dibromofluoromethane</i>	100		80 - 120		08/24/22 17:34	1
<i>Toluene-d8 (Surr)</i>	96		80 - 120		08/24/22 17:34	1

Client Sample ID: S-2400
Date Collected: 08/17/22 09:05
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 18:02	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 18:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 18:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 18:02	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 18:02	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 18:02	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 18:02	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 18:02	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:02	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 18:02	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:02	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 18:02	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 18:02	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:02	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 18:02	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:02	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:02	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:02	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 18:02	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:02	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:02	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-2400
Date Collected: 08/17/22 09:05
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 18:02	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:02	1
2-Hexanone	ND		6.0		ug/L			08/24/22 18:02	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 18:02	1
Acetone	ND		8.0		ug/L			08/24/22 18:02	1
Benzene	ND		0.50		ug/L			08/24/22 18:02	1
Bromobenzene	ND	*+	0.50		ug/L			08/24/22 18:02	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 18:02	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 18:02	1
Bromoform	ND		0.50		ug/L			08/24/22 18:02	1
Bromomethane	ND		2.0		ug/L			08/24/22 18:02	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 18:02	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 18:02	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 18:02	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 18:02	1
Chloroethane	ND		0.50		ug/L			08/24/22 18:02	1
Chloroform	ND		0.50		ug/L			08/24/22 18:02	1
Chloromethane	ND		1.0		ug/L			08/24/22 18:02	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 18:02	1
Dibromomethane	ND		0.50		ug/L			08/24/22 18:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 18:02	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 18:02	1
Isopropylbenzene	ND	*+	0.50		ug/L			08/24/22 18:02	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 18:02	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 18:02	1
Naphthalene	ND		1.0		ug/L			08/24/22 18:02	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 18:02	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 18:02	1
o-Xylene	ND		0.50		ug/L			08/24/22 18:02	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 18:02	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 18:02	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 18:02	1
Styrene	ND		0.50		ug/L			08/24/22 18:02	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:02	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 18:02	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 18:02	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 18:02	1
Toluene	ND		0.50		ug/L			08/24/22 18:02	1
Trichloroethene	ND		0.50		ug/L			08/24/22 18:02	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 18:02	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 18:02	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 132		08/24/22 18:02	1
4-Bromofluorobenzene (Surr)	97		76 - 120		08/24/22 18:02	1
Dibromofluoromethane	98		80 - 120		08/24/22 18:02	1
Toluene-d8 (Surr)	97		80 - 120		08/24/22 18:02	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UA-15D
Date Collected: 08/17/22 09:10
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 17:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 17:11	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 17:11	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 17:11	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 17:11	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:11	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 17:11	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:11	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 17:11	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 17:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:11	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 17:11	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:11	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:11	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:11	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:11	1
2-Butanone	ND		5.0		ug/L			08/24/22 17:11	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:11	1
2-Hexanone	ND		6.0		ug/L			08/24/22 17:11	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 17:11	1
Acetone	ND		8.0		ug/L			08/24/22 17:11	1
Benzene	ND		0.50		ug/L			08/24/22 17:11	1
Bromobenzene	ND		0.50		ug/L			08/24/22 17:11	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 17:11	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 17:11	1
Bromoform	ND		0.50		ug/L			08/24/22 17:11	1
Bromomethane	ND		2.0		ug/L			08/24/22 17:11	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:11	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:11	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 17:11	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 17:11	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 17:11	1
Chloroethane	ND		0.50		ug/L			08/24/22 17:11	1
Chloroform	ND		0.50		ug/L			08/24/22 17:11	1
Chloromethane	ND		1.0		ug/L			08/24/22 17:11	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 17:11	1
Dibromomethane	ND		0.50		ug/L			08/24/22 17:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 17:11	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 17:11	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 17:11	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 17:11	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 17:11	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-15D
Date Collected: 08/17/22 09:10
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-23
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 17:11	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 17:11	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 17:11	1
o-Xylene	ND		0.50		ug/L			08/24/22 17:11	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 17:11	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 17:11	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 17:11	1
Styrene	ND		0.50		ug/L			08/24/22 17:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 17:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:11	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 17:11	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 17:11	1
Toluene	ND		0.50		ug/L			08/24/22 17:11	1
Trichloroethene	ND		0.50		ug/L			08/24/22 17:11	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 17:11	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 17:11	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		64 - 132		08/24/22 17:11	1
<i>4-Bromofluorobenzene (Surr)</i>	87		76 - 120		08/24/22 17:11	1
<i>Dibromofluoromethane</i>	104		80 - 120		08/24/22 17:11	1
<i>Toluene-d8 (Surr)</i>	99		80 - 120		08/24/22 17:11	1

Client Sample ID: AB-02
Date Collected: 08/17/22 09:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-24
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:38	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 17:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 17:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 17:38	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 17:38	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 17:38	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 17:38	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 17:38	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:38	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 17:38	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 17:38	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 17:38	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 17:38	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:38	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 17:38	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:38	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 17:38	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:38	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 17:38	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 17:38	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 17:38	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: AB-02
Date Collected: 08/17/22 09:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-24
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 17:38	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:38	1
2-Hexanone	ND		6.0		ug/L			08/24/22 17:38	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 17:38	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 17:38	1
Acetone	ND		8.0		ug/L			08/24/22 17:38	1
Benzene	ND		0.50		ug/L			08/24/22 17:38	1
Bromobenzene	ND		0.50		ug/L			08/24/22 17:38	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 17:38	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 17:38	1
Bromoform	ND		0.50		ug/L			08/24/22 17:38	1
Bromomethane	ND		2.0		ug/L			08/24/22 17:38	1
cis-1,2-Dichloroethene	7.3		0.50		ug/L			08/24/22 17:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:38	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 17:38	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 17:38	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 17:38	1
Chloroethane	ND		0.50		ug/L			08/24/22 17:38	1
Chloroform	ND		0.50		ug/L			08/24/22 17:38	1
Chloromethane	ND		1.0		ug/L			08/24/22 17:38	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 17:38	1
Dibromomethane	ND		0.50		ug/L			08/24/22 17:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 17:38	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 17:38	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 17:38	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 17:38	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 17:38	1
Naphthalene	ND		1.0		ug/L			08/24/22 17:38	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 17:38	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 17:38	1
o-Xylene	ND		0.50		ug/L			08/24/22 17:38	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 17:38	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 17:38	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 17:38	1
Styrene	ND		0.50		ug/L			08/24/22 17:38	1
trans-1,2-Dichloroethene	18		0.50		ug/L			08/24/22 17:38	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 17:38	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 17:38	1
Tetrachloroethene	1.4		0.50		ug/L			08/24/22 17:38	1
Toluene	ND		0.50		ug/L			08/24/22 17:38	1
Trichloroethene	13		0.50		ug/L			08/24/22 17:38	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 17:38	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 17:38	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 132		08/24/22 17:38	1
4-Bromofluorobenzene (Surr)	89		76 - 120		08/24/22 17:38	1
Dibromofluoromethane	108		80 - 120		08/24/22 17:38	1
Toluene-d8 (Surr)	100		80 - 120		08/24/22 17:38	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: RB-081722A
Date Collected: 08/17/22 09:25
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-25
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 18:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 18:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 18:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 18:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 18:05	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 18:05	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 18:05	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 18:05	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 18:05	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 18:05	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 18:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:05	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 18:05	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:05	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 18:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:05	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:05	1
2-Butanone	ND		5.0		ug/L			08/24/22 18:05	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:05	1
2-Hexanone	ND		6.0		ug/L			08/24/22 18:05	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:05	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 18:05	1
Acetone	ND		8.0		ug/L			08/24/22 18:05	1
Benzene	ND		0.50		ug/L			08/24/22 18:05	1
Bromobenzene	ND		0.50		ug/L			08/24/22 18:05	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 18:05	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 18:05	1
Bromoform	ND		0.50		ug/L			08/24/22 18:05	1
Bromomethane	ND		2.0		ug/L			08/24/22 18:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:05	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 18:05	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 18:05	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 18:05	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 18:05	1
Chloroethane	ND		0.50		ug/L			08/24/22 18:05	1
Chloroform	ND		0.50		ug/L			08/24/22 18:05	1
Chloromethane	ND		1.0		ug/L			08/24/22 18:05	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 18:05	1
Dibromomethane	ND		0.50		ug/L			08/24/22 18:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 18:05	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 18:05	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 18:05	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 18:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 18:05	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-081722A
Date Collected: 08/17/22 09:25
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-25
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 18:05	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 18:05	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 18:05	1
o-Xylene	ND		0.50		ug/L			08/24/22 18:05	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 18:05	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 18:05	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 18:05	1
Styrene	ND		0.50		ug/L			08/24/22 18:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 18:05	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 18:05	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 18:05	1
Toluene	ND		0.50		ug/L			08/24/22 18:05	1
Trichloroethene	ND		0.50		ug/L			08/24/22 18:05	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 18:05	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 18:05	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		08/24/22 18:05	1
4-Bromofluorobenzene (Surr)	89		76 - 120		08/24/22 18:05	1
Dibromofluoromethane	111		80 - 120		08/24/22 18:05	1
Toluene-d8 (Surr)	101		80 - 120		08/24/22 18:05	1

Client Sample ID: S-27
Date Collected: 08/17/22 09:55
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-26
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 18:32	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 18:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 18:32	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 18:32	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 18:32	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 18:32	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 18:32	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:32	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 18:32	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 18:32	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 18:32	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 18:32	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:32	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 18:32	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:32	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 18:32	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:32	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 18:32	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 18:32	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 18:32	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-27
Date Collected: 08/17/22 09:55
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-26
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 18:32	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:32	1
2-Hexanone	ND		6.0		ug/L			08/24/22 18:32	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 18:32	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 18:32	1
Acetone	ND		8.0		ug/L			08/24/22 18:32	1
Benzene	ND		0.50		ug/L			08/24/22 18:32	1
Bromobenzene	ND		0.50		ug/L			08/24/22 18:32	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 18:32	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 18:32	1
Bromoform	ND		0.50		ug/L			08/24/22 18:32	1
Bromomethane	ND		2.0		ug/L			08/24/22 18:32	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:32	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 18:32	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 18:32	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 18:32	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 18:32	1
Chloroethane	ND		0.50		ug/L			08/24/22 18:32	1
Chloroform	ND		0.50		ug/L			08/24/22 18:32	1
Chloromethane	ND		1.0		ug/L			08/24/22 18:32	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 18:32	1
Dibromomethane	ND		0.50		ug/L			08/24/22 18:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 18:32	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 18:32	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 18:32	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 18:32	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 18:32	1
Naphthalene	ND		1.0		ug/L			08/24/22 18:32	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 18:32	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 18:32	1
o-Xylene	ND		0.50		ug/L			08/24/22 18:32	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 18:32	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 18:32	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 18:32	1
Styrene	ND		0.50		ug/L			08/24/22 18:32	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 18:32	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 18:32	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 18:32	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 18:32	1
Toluene	ND		0.50		ug/L			08/24/22 18:32	1
Trichloroethene	ND		0.50		ug/L			08/24/22 18:32	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 18:32	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 18:32	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 18:32	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	108		64 - 132		08/24/22 18:32	1
<i>4-Bromofluorobenzene (Surr)</i>	90		76 - 120		08/24/22 18:32	1
<i>Dibromofluoromethane</i>	107		80 - 120		08/24/22 18:32	1
<i>Toluene-d8 (Surr)</i>	97		80 - 120		08/24/22 18:32	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-31
Date Collected: 08/17/22 10:15
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-27
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 19:00	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 19:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 19:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 19:00	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 19:00	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 19:00	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 19:00	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 19:00	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 19:00	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 19:00	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 19:00	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 19:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 19:00	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 19:00	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 19:00	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 19:00	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 19:00	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 19:00	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 19:00	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 19:00	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 19:00	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 19:00	1
2-Butanone	ND		5.0		ug/L			08/24/22 19:00	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 19:00	1
2-Hexanone	ND		6.0		ug/L			08/24/22 19:00	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 19:00	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 19:00	1
Acetone	ND		8.0		ug/L			08/24/22 19:00	1
Benzene	ND		0.50		ug/L			08/24/22 19:00	1
Bromobenzene	ND		0.50		ug/L			08/24/22 19:00	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 19:00	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 19:00	1
Bromoform	ND		0.50		ug/L			08/24/22 19:00	1
Bromomethane	ND		2.0		ug/L			08/24/22 19:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 19:00	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 19:00	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 19:00	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 19:00	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 19:00	1
Chloroethane	ND		0.50		ug/L			08/24/22 19:00	1
Chloroform	ND		0.50		ug/L			08/24/22 19:00	1
Chloromethane	ND		1.0		ug/L			08/24/22 19:00	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 19:00	1
Dibromomethane	ND		0.50		ug/L			08/24/22 19:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 19:00	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 19:00	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 19:00	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 19:00	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 19:00	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-31
Date Collected: 08/17/22 10:15
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-27
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 19:00	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 19:00	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 19:00	1
o-Xylene	ND		0.50		ug/L			08/24/22 19:00	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 19:00	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 19:00	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 19:00	1
Styrene	ND		0.50		ug/L			08/24/22 19:00	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 19:00	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 19:00	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 19:00	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 19:00	1
Toluene	ND		0.50		ug/L			08/24/22 19:00	1
Trichloroethene	ND		0.50		ug/L			08/24/22 19:00	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 19:00	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 19:00	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		08/24/22 19:00	1
4-Bromofluorobenzene (Surr)	89		76 - 120		08/24/22 19:00	1
Dibromofluoromethane	107		80 - 120		08/24/22 19:00	1
Toluene-d8 (Surr)	100		80 - 120		08/24/22 19:00	1

Client Sample ID: HEW-03
Date Collected: 08/17/22 10:30
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-28
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			08/24/22 19:27	4
1,1,1-Trichloroethane	ND		2.0		ug/L			08/24/22 19:27	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/24/22 19:27	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			08/24/22 19:27	4
1,1,2-Trichloroethane	ND		2.0		ug/L			08/24/22 19:27	4
1,1-Dichloroethane	ND		2.0		ug/L			08/24/22 19:27	4
1,1-Dichloroethene	ND		2.0		ug/L			08/24/22 19:27	4
1,1-Dichloropropene	ND		2.0		ug/L			08/24/22 19:27	4
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/24/22 19:27	4
1,2,3-Trichloropropane	ND		2.0		ug/L			08/24/22 19:27	4
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/24/22 19:27	4
1,2,4-Trimethylbenzene	ND		2.0		ug/L			08/24/22 19:27	4
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			08/24/22 19:27	4
1,2-Dibromoethane	ND		2.0		ug/L			08/24/22 19:27	4
1,2-Dichlorobenzene	ND		2.0		ug/L			08/24/22 19:27	4
1,2-Dichloroethane	ND		2.0		ug/L			08/24/22 19:27	4
1,2-Dichloropropane	ND		2.0		ug/L			08/24/22 19:27	4
1,3,5-Trimethylbenzene	ND		2.0		ug/L			08/24/22 19:27	4
1,3-Dichlorobenzene	ND		2.0		ug/L			08/24/22 19:27	4
1,3-Dichloropropane	ND		2.0		ug/L			08/24/22 19:27	4
1,4-Dichlorobenzene	ND		2.0		ug/L			08/24/22 19:27	4
2,2-Dichloropropane	ND		2.0		ug/L			08/24/22 19:27	4

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-03
Date Collected: 08/17/22 10:30
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-28
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		20		ug/L			08/24/22 19:27	4
2-Chlorotoluene	ND		2.0		ug/L			08/24/22 19:27	4
2-Hexanone	ND		24		ug/L			08/24/22 19:27	4
4-Chlorotoluene	ND		2.0		ug/L			08/24/22 19:27	4
4-Methyl-2-pentanone	ND		20		ug/L			08/24/22 19:27	4
Acetone	ND		32		ug/L			08/24/22 19:27	4
Benzene	ND		2.0		ug/L			08/24/22 19:27	4
Bromobenzene	ND		2.0		ug/L			08/24/22 19:27	4
Bromochloromethane	ND		4.0		ug/L			08/24/22 19:27	4
Bromodichloromethane	ND		2.0		ug/L			08/24/22 19:27	4
Bromoform	ND		2.0		ug/L			08/24/22 19:27	4
Bromomethane	ND		8.0		ug/L			08/24/22 19:27	4
cis-1,2-Dichloroethene	ND		2.0		ug/L			08/24/22 19:27	4
cis-1,3-Dichloropropene	ND		2.0		ug/L			08/24/22 19:27	4
Carbon disulfide	ND		4.0		ug/L			08/24/22 19:27	4
Carbon tetrachloride	ND		2.0		ug/L			08/24/22 19:27	4
Chlorobenzene	ND		2.0		ug/L			08/24/22 19:27	4
Chloroethane	ND		2.0		ug/L			08/24/22 19:27	4
Chloroform	ND		2.0		ug/L			08/24/22 19:27	4
Chloromethane	ND		4.0		ug/L			08/24/22 19:27	4
Dibromochloromethane	ND		2.0		ug/L			08/24/22 19:27	4
Dibromomethane	ND		2.0		ug/L			08/24/22 19:27	4
Dichlorodifluoromethane	ND		4.0		ug/L			08/24/22 19:27	4
Ethylbenzene	ND		2.0		ug/L			08/24/22 19:27	4
Isopropylbenzene	ND		2.0		ug/L			08/24/22 19:27	4
Methylene Chloride	ND		4.0		ug/L			08/24/22 19:27	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			08/24/22 19:27	4
Naphthalene	ND		4.0		ug/L			08/24/22 19:27	4
n-Butylbenzene	ND		2.0		ug/L			08/24/22 19:27	4
N-Propylbenzene	ND		2.0		ug/L			08/24/22 19:27	4
o-Xylene	ND		2.0		ug/L			08/24/22 19:27	4
m,p-Xylene	ND		4.0		ug/L			08/24/22 19:27	4
p-Isopropyltoluene	ND		2.0		ug/L			08/24/22 19:27	4
sec-Butylbenzene	ND		2.0		ug/L			08/24/22 19:27	4
Styrene	ND		2.0		ug/L			08/24/22 19:27	4
trans-1,2-Dichloroethene	ND		2.0		ug/L			08/24/22 19:27	4
trans-1,3-Dichloropropene	ND		2.0		ug/L			08/24/22 19:27	4
tert-Butylbenzene	ND		2.0		ug/L			08/24/22 19:27	4
Tetrachloroethene	2.1		2.0		ug/L			08/24/22 19:27	4
Toluene	ND		2.0		ug/L			08/24/22 19:27	4
Trichloroethene	100		2.0		ug/L			08/24/22 19:27	4
Trichlorofluoromethane	ND		2.0		ug/L			08/24/22 19:27	4
Vinyl acetate	ND		20		ug/L			08/24/22 19:27	4
Vinyl chloride	ND		2.0		ug/L			08/24/22 19:27	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 132		08/24/22 19:27	4
4-Bromofluorobenzene (Surr)	93		76 - 120		08/24/22 19:27	4
Dibromofluoromethane	110		80 - 120		08/24/22 19:27	4
Toluene-d8 (Surr)	101		80 - 120		08/24/22 19:27	4

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-07
Date Collected: 08/17/22 10:45
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-29
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 19:54	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 19:54	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 19:54	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 19:54	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 19:54	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 19:54	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 19:54	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 19:54	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 19:54	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 19:54	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 19:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 19:54	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 19:54	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 19:54	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 19:54	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 19:54	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 19:54	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 19:54	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 19:54	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 19:54	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 19:54	1
2-Butanone	ND		5.0		ug/L			08/24/22 19:54	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 19:54	1
2-Hexanone	ND		6.0		ug/L			08/24/22 19:54	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 19:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 19:54	1
Acetone	ND		8.0		ug/L			08/24/22 19:54	1
Benzene	ND		0.50		ug/L			08/24/22 19:54	1
Bromobenzene	ND		0.50		ug/L			08/24/22 19:54	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 19:54	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 19:54	1
Bromoform	ND		0.50		ug/L			08/24/22 19:54	1
Bromomethane	ND		2.0		ug/L			08/24/22 19:54	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 19:54	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 19:54	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 19:54	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 19:54	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 19:54	1
Chloroethane	ND		0.50		ug/L			08/24/22 19:54	1
Chloroform	ND		0.50		ug/L			08/24/22 19:54	1
Chloromethane	ND		1.0		ug/L			08/24/22 19:54	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 19:54	1
Dibromomethane	ND		0.50		ug/L			08/24/22 19:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 19:54	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 19:54	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 19:54	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 19:54	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 19:54	1

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-07
Date Collected: 08/17/22 10:45
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-29
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 19:54	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 19:54	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 19:54	1
o-Xylene	ND		0.50		ug/L			08/24/22 19:54	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 19:54	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 19:54	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 19:54	1
Styrene	ND		0.50		ug/L			08/24/22 19:54	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 19:54	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 19:54	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 19:54	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 19:54	1
Toluene	ND		0.50		ug/L			08/24/22 19:54	1
Trichloroethene	ND		0.50		ug/L			08/24/22 19:54	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 19:54	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 19:54	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		64 - 132		08/24/22 19:54	1
4-Bromofluorobenzene (Surr)	91		76 - 120		08/24/22 19:54	1
Dibromofluoromethane	108		80 - 120		08/24/22 19:54	1
Toluene-d8 (Surr)	98		80 - 120		08/24/22 19:54	1

Client Sample ID: UA-02
Date Collected: 08/17/22 11:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-30
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 20:22	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 20:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 20:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 20:22	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 20:22	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 20:22	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 20:22	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 20:22	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 20:22	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 20:22	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 20:22	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 20:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 20:22	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 20:22	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 20:22	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 20:22	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 20:22	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 20:22	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 20:22	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 20:22	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 20:22	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 20:22	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UA-02
Date Collected: 08/17/22 11:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-30
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0		ug/L			08/24/22 20:22	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 20:22	1
2-Hexanone	ND		6.0		ug/L			08/24/22 20:22	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 20:22	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 20:22	1
Acetone	ND		8.0		ug/L			08/24/22 20:22	1
Benzene	ND		0.50		ug/L			08/24/22 20:22	1
Bromobenzene	ND		0.50		ug/L			08/24/22 20:22	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 20:22	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 20:22	1
Bromoform	ND		0.50		ug/L			08/24/22 20:22	1
Bromomethane	ND		2.0		ug/L			08/24/22 20:22	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 20:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 20:22	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 20:22	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 20:22	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 20:22	1
Chloroethane	ND		0.50		ug/L			08/24/22 20:22	1
Chloroform	ND		0.50		ug/L			08/24/22 20:22	1
Chloromethane	ND		1.0		ug/L			08/24/22 20:22	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 20:22	1
Dibromomethane	ND		0.50		ug/L			08/24/22 20:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 20:22	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 20:22	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 20:22	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 20:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 20:22	1
Naphthalene	ND		1.0		ug/L			08/24/22 20:22	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 20:22	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 20:22	1
o-Xylene	ND		0.50		ug/L			08/24/22 20:22	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 20:22	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 20:22	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 20:22	1
Styrene	ND		0.50		ug/L			08/24/22 20:22	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 20:22	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 20:22	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 20:22	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 20:22	1
Toluene	ND		0.50		ug/L			08/24/22 20:22	1
Trichloroethene	0.82		0.50		ug/L			08/24/22 20:22	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 20:22	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 20:22	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		08/24/22 20:22	1
4-Bromofluorobenzene (Surr)	94		76 - 120		08/24/22 20:22	1
Dibromofluoromethane	107		80 - 120		08/24/22 20:22	1
Toluene-d8 (Surr)	99		80 - 120		08/24/22 20:22	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: S-15
Date Collected: 08/17/22 11:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-31
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 20:49	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 20:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 20:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 20:49	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 20:49	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 20:49	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 20:49	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 20:49	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 20:49	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 20:49	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 20:49	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 20:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 20:49	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 20:49	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 20:49	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 20:49	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 20:49	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 20:49	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 20:49	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 20:49	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 20:49	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 20:49	1
2-Butanone	ND		5.0		ug/L			08/24/22 20:49	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 20:49	1
2-Hexanone	ND		6.0		ug/L			08/24/22 20:49	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 20:49	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 20:49	1
Acetone	ND		8.0		ug/L			08/24/22 20:49	1
Benzene	ND		0.50		ug/L			08/24/22 20:49	1
Bromobenzene	ND		0.50		ug/L			08/24/22 20:49	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 20:49	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 20:49	1
Bromoform	ND		0.50		ug/L			08/24/22 20:49	1
Bromomethane	ND		2.0		ug/L			08/24/22 20:49	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 20:49	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 20:49	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 20:49	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 20:49	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 20:49	1
Chloroethane	ND		0.50		ug/L			08/24/22 20:49	1
Chloroform	ND		0.50		ug/L			08/24/22 20:49	1
Chloromethane	ND		1.0		ug/L			08/24/22 20:49	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 20:49	1
Dibromomethane	ND		0.50		ug/L			08/24/22 20:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 20:49	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 20:49	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 20:49	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 20:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 20:49	1

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: S-15
Date Collected: 08/17/22 11:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-31
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L			08/24/22 20:49	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 20:49	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 20:49	1
o-Xylene	ND		0.50		ug/L			08/24/22 20:49	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 20:49	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 20:49	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 20:49	1
Styrene	ND		0.50		ug/L			08/24/22 20:49	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 20:49	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 20:49	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 20:49	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 20:49	1
Toluene	ND		0.50		ug/L			08/24/22 20:49	1
Trichloroethene	0.66		0.50		ug/L			08/24/22 20:49	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 20:49	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 20:49	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 132		08/24/22 20:49	1
4-Bromofluorobenzene (Surr)	94		76 - 120		08/24/22 20:49	1
Dibromofluoromethane	106		80 - 120		08/24/22 20:49	1
Toluene-d8 (Surr)	99		80 - 120		08/24/22 20:49	1

Client Sample ID: SE-01
Date Collected: 08/17/22 16:13
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-32
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			08/24/22 21:17	4
1,1,1-Trichloroethane	ND		2.0		ug/L			08/24/22 21:17	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			08/24/22 21:17	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0		ug/L			08/24/22 21:17	4
1,1,2-Trichloroethane	ND		2.0		ug/L			08/24/22 21:17	4
1,1-Dichloroethane	ND		2.0		ug/L			08/24/22 21:17	4
1,1-Dichloroethene	ND		2.0		ug/L			08/24/22 21:17	4
1,1-Dichloropropene	ND		2.0		ug/L			08/24/22 21:17	4
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/24/22 21:17	4
1,2,3-Trichloropropane	ND		2.0		ug/L			08/24/22 21:17	4
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/24/22 21:17	4
1,2,4-Trimethylbenzene	ND		2.0		ug/L			08/24/22 21:17	4
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/L			08/24/22 21:17	4
1,2-Dibromoethane	ND		2.0		ug/L			08/24/22 21:17	4
1,2-Dichlorobenzene	ND		2.0		ug/L			08/24/22 21:17	4
1,2-Dichloroethane	ND		2.0		ug/L			08/24/22 21:17	4
1,2-Dichloropropane	ND		2.0		ug/L			08/24/22 21:17	4
1,3,5-Trimethylbenzene	ND		2.0		ug/L			08/24/22 21:17	4
1,3-Dichlorobenzene	ND		2.0		ug/L			08/24/22 21:17	4
1,3-Dichloropropane	ND		2.0		ug/L			08/24/22 21:17	4
1,4-Dichlorobenzene	ND		2.0		ug/L			08/24/22 21:17	4
2,2-Dichloropropane	ND		2.0		ug/L			08/24/22 21:17	4

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SE-01
Date Collected: 08/17/22 16:13
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-32
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		20		ug/L			08/24/22 21:17	4
2-Chlorotoluene	ND		2.0		ug/L			08/24/22 21:17	4
2-Hexanone	ND		24		ug/L			08/24/22 21:17	4
4-Chlorotoluene	ND		2.0		ug/L			08/24/22 21:17	4
4-Methyl-2-pentanone	ND		20		ug/L			08/24/22 21:17	4
Acetone	ND		32		ug/L			08/24/22 21:17	4
Benzene	ND		2.0		ug/L			08/24/22 21:17	4
Bromobenzene	ND		2.0		ug/L			08/24/22 21:17	4
Bromochloromethane	ND		4.0		ug/L			08/24/22 21:17	4
Bromodichloromethane	ND		2.0		ug/L			08/24/22 21:17	4
Bromoform	ND		2.0		ug/L			08/24/22 21:17	4
Bromomethane	ND		8.0		ug/L			08/24/22 21:17	4
cis-1,2-Dichloroethene	2.9		2.0		ug/L			08/24/22 21:17	4
cis-1,3-Dichloropropene	ND		2.0		ug/L			08/24/22 21:17	4
Carbon disulfide	ND		4.0		ug/L			08/24/22 21:17	4
Carbon tetrachloride	ND		2.0		ug/L			08/24/22 21:17	4
Chlorobenzene	ND		2.0		ug/L			08/24/22 21:17	4
Chloroethane	ND		2.0		ug/L			08/24/22 21:17	4
Chloroform	2.8		2.0		ug/L			08/24/22 21:17	4
Chloromethane	ND		4.0		ug/L			08/24/22 21:17	4
Dibromochloromethane	ND		2.0		ug/L			08/24/22 21:17	4
Dibromomethane	ND		2.0		ug/L			08/24/22 21:17	4
Dichlorodifluoromethane	ND		4.0		ug/L			08/24/22 21:17	4
Ethylbenzene	ND		2.0		ug/L			08/24/22 21:17	4
Isopropylbenzene	ND		2.0		ug/L			08/24/22 21:17	4
Methylene Chloride	ND		4.0		ug/L			08/24/22 21:17	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/L			08/24/22 21:17	4
Naphthalene	ND		4.0		ug/L			08/24/22 21:17	4
n-Butylbenzene	ND		2.0		ug/L			08/24/22 21:17	4
N-Propylbenzene	ND		2.0		ug/L			08/24/22 21:17	4
o-Xylene	ND		2.0		ug/L			08/24/22 21:17	4
m,p-Xylene	ND		4.0		ug/L			08/24/22 21:17	4
p-Isopropyltoluene	ND		2.0		ug/L			08/24/22 21:17	4
sec-Butylbenzene	ND		2.0		ug/L			08/24/22 21:17	4
Styrene	ND		2.0		ug/L			08/24/22 21:17	4
trans-1,2-Dichloroethene	ND		2.0		ug/L			08/24/22 21:17	4
trans-1,3-Dichloropropene	ND		2.0		ug/L			08/24/22 21:17	4
tert-Butylbenzene	ND		2.0		ug/L			08/24/22 21:17	4
Tetrachloroethene	86		2.0		ug/L			08/24/22 21:17	4
Toluene	ND		2.0		ug/L			08/24/22 21:17	4
Trichlorofluoromethane	ND		2.0		ug/L			08/24/22 21:17	4
Vinyl acetate	ND		20		ug/L			08/24/22 21:17	4
Vinyl chloride	ND		2.0		ug/L			08/24/22 21:17	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 132		08/24/22 21:17	4
4-Bromofluorobenzene (Surr)	90		76 - 120		08/24/22 21:17	4
Dibromofluoromethane	107		80 - 120		08/24/22 21:17	4
Toluene-d8 (Surr)	100		80 - 120		08/24/22 21:17	4

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Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Client Sample ID: S-08
Date Collected: 08/17/22 16:02
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1000		25		ug/L			08/25/22 14:29	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 132					08/25/22 14:29	50
4-Bromofluorobenzene (Surr)	90		76 - 120					08/25/22 14:29	50
Dibromofluoromethane	110		80 - 120					08/25/22 14:29	50
Toluene-d8 (Surr)	100		80 - 120					08/25/22 14:29	50

Client Sample ID: HEW-01
Date Collected: 08/16/22 16:53
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	690		25		ug/L			08/25/22 14:57	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 132					08/25/22 14:57	50
4-Bromofluorobenzene (Surr)	94		76 - 120					08/25/22 14:57	50
Dibromofluoromethane	110		80 - 120					08/25/22 14:57	50
Toluene-d8 (Surr)	102		80 - 120					08/25/22 14:57	50

Client Sample ID: SE-01
Date Collected: 08/17/22 16:13
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-32
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	3800		50		ug/L			08/25/22 15:24	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 132					08/25/22 15:24	100
4-Bromofluorobenzene (Surr)	94		76 - 120					08/25/22 15:24	100
Dibromofluoromethane	110		80 - 120					08/25/22 15:24	100
Toluene-d8 (Surr)	100		80 - 120					08/25/22 15:24	100

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Client Sample ID: UAX-03
Date Collected: 08/17/22 08:25
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	9.1		0.50		ug/L			08/25/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 132					08/25/22 14:02	1
4-Bromofluorobenzene (Surr)	92		76 - 120					08/25/22 14:02	1
Dibromofluoromethane	109		80 - 120					08/25/22 14:02	1
Toluene-d8 (Surr)	98		80 - 120					08/25/22 14:02	1

- 1
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- 14
- 15
- 16

Client Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: LAX-02
Date Collected: 08/17/22 15:36
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:57	08/19/22 21:20	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	69		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	71		58 - 135						

Client Sample ID: HEW-01
Date Collected: 08/16/22 16:53
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		0.50		ug/L		08/18/22 11:57	08/24/22 12:49	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	47		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	70		58 - 135						

Client Sample ID: UAX-03
Date Collected: 08/17/22 08:25
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:57	08/19/22 21:49	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	62		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	89		58 - 135						

Client Sample ID: HEW-03
Date Collected: 08/17/22 10:30
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-28
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:57	08/19/22 22:03	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	57		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	86		58 - 135						

Surrogate Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-132)	BFB (76-120)	DBFM (80-120)	TOL (80-120)
570-106791-1	TB-081722	97	99	107	100
570-106791-2	UA-07D	98	99	104	102
570-106791-3	UA-07	100	98	106	99
570-106791-4	UA-11D	99	97	106	100
570-106791-5	S-30	99	99	107	101
570-106791-6	UA-11	96	100	103	102
570-106791-7	UB-03	98	98	106	102
570-106791-8	RB-081722B	98	98	106	101
570-106791-9	S-29	99	99	109	100
570-106791-10	UA-12D	99	101	107	100
570-106791-11	UA-12	101	99	108	100
570-106791-12	AB-01	102	98	107	102
570-106791-13	UA-06D	103	98	109	102
570-106791-14	UA-06	100	99	107	101
570-106791-15	S-26	99	99	108	101
570-106791-16	LAX-02	99	98	107	102
570-106791-17	S-08	102	98	109	105
570-106791-17 - DL	S-08	109	90	110	100
570-106791-18	HEW-01	95	98	97	99
570-106791-18 - DL	HEW-01	112	94	110	102
570-106791-19	UAX-03	93	101	98	94
570-106791-19 - RA	UAX-03	108	92	109	98
570-106791-20	S-21	95	100	101	95
570-106791-21	S-24	93	96	100	96
570-106791-22	S-2400	96	97	98	97
570-106791-23	UA-15D	94	87	104	99
570-106791-24	AB-02	104	89	108	100
570-106791-25	RB-081722A	107	89	111	101
570-106791-26	S-27	108	90	107	97
570-106791-27	S-31	106	89	107	100
570-106791-28	HEW-03	110	93	110	101
570-106791-29	S-07	113	91	108	98
570-106791-30	UA-02	106	94	107	99
570-106791-31	S-15	110	94	106	99
570-106791-32	SE-01	109	90	107	100
570-106791-32 - DL	SE-01	108	94	110	100
LCS 570-258930/3	Lab Control Sample	90	96	96	96
LCS 570-258931/3	Lab Control Sample	90	100	105	100
LCS 570-259139/3	Lab Control Sample	100	100	103	101
LCS 570-259289/3	Lab Control Sample	99	101	102	98
LCSD 570-258930/4	Lab Control Sample Dup	93	112	97	97
LCSD 570-258931/4	Lab Control Sample Dup	96	100	104	100
LCSD 570-259139/4	Lab Control Sample Dup	100	100	103	100
LCSD 570-259289/4	Lab Control Sample Dup	109	101	104	100
MB 570-258930/6	Method Blank	97	102	99	98
MB 570-258931/6	Method Blank	96	97	105	102
MB 570-259139/6	Method Blank	103	93	103	96
MB 570-259289/6	Method Blank	107	94	106	98

Surrogate Legend

Surrogate Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (58-135)
570-106776-D-1-B MS	Matrix Spike	77
570-106776-D-1-C MSD	Matrix Spike Duplicate	75
570-106791-16	LAX-02	71
570-106791-18	HEW-01	70
570-106791-19	UAX-03	89
570-106791-28	HEW-03	86
LCS 570-257771/2-A	Lab Control Sample	72
LCSD 570-257771/3-A	Lab Control Sample Dup	70
MB 570-257771/1-A	Method Blank	74

Surrogate Legend

NBZ = Nitrobenzene-d5

Isotope Dilution Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (21-120)
570-106776-D-1-B MS	Matrix Spike	45
570-106776-D-1-C MSD	Matrix Spike Duplicate	47
570-106791-16	LAX-02	69
570-106791-18	HEW-01	47
570-106791-19	UAX-03	62
570-106791-28	HEW-03	57
LCS 570-257771/2-A	Lab Control Sample	46
LCSD 570-257771/3-A	Lab Control Sample Dup	46
MB 570-257771/1-A	Method Blank	50

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-258930/6
Matrix: Water
Analysis Batch: 258930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 09:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 09:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 09:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 09:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 09:14	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 09:14	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 09:14	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 09:14	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 09:14	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 09:14	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 09:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 09:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 09:14	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 09:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:14	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 09:14	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 09:14	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 09:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:14	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 09:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:14	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 09:14	1
2-Butanone	ND		5.0		ug/L			08/24/22 09:14	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 09:14	1
2-Hexanone	ND		6.0		ug/L			08/24/22 09:14	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 09:14	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 09:14	1
Acetone	ND		8.0		ug/L			08/24/22 09:14	1
Benzene	ND		0.50		ug/L			08/24/22 09:14	1
Bromobenzene	ND		0.50		ug/L			08/24/22 09:14	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 09:14	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 09:14	1
Bromoform	ND		0.50		ug/L			08/24/22 09:14	1
Bromomethane	ND		2.0		ug/L			08/24/22 09:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 09:14	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 09:14	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 09:14	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 09:14	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 09:14	1
Chloroethane	ND		0.50		ug/L			08/24/22 09:14	1
Chloroform	ND		0.50		ug/L			08/24/22 09:14	1
Chloromethane	ND		1.0		ug/L			08/24/22 09:14	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 09:14	1
Dibromomethane	ND		0.50		ug/L			08/24/22 09:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 09:14	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 09:14	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 09:14	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 09:14	1

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258930/6
Matrix: Water
Analysis Batch: 258930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 09:14	1
Naphthalene	ND		1.0		ug/L			08/24/22 09:14	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 09:14	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 09:14	1
o-Xylene	ND		0.50		ug/L			08/24/22 09:14	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 09:14	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 09:14	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 09:14	1
Styrene	ND		0.50		ug/L			08/24/22 09:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 09:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 09:14	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 09:14	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 09:14	1
Toluene	ND		0.50		ug/L			08/24/22 09:14	1
Trichloroethene	ND		0.50		ug/L			08/24/22 09:14	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 09:14	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 09:14	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 09:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 132		08/24/22 09:14	1
4-Bromofluorobenzene (Surr)	102		76 - 120		08/24/22 09:14	1
Dibromofluoromethane	99		80 - 120		08/24/22 09:14	1
Toluene-d8 (Surr)	98		80 - 120		08/24/22 09:14	1

Lab Sample ID: LCS 570-258930/3
Matrix: Water
Analysis Batch: 258930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	10.99		ug/L		110	80 - 125
1,1,1-Trichloroethane	10.0	10.85		ug/L		108	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.77		ug/L		108	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.26		ug/L		123	56 - 132
1,1,2-Trichloroethane	10.0	9.914		ug/L		99	80 - 121
1,1-Dichloroethane	10.0	9.264		ug/L		93	80 - 120
1,1-Dichloroethene	10.0	10.44		ug/L		104	80 - 126
1,1-Dichloropropene	10.0	11.56		ug/L		116	72 - 122
1,2,3-Trichlorobenzene	10.0	10.63		ug/L		106	80 - 125
1,2,3-Trichloropropane	10.0	9.123		ug/L		91	75 - 127
1,2,4-Trichlorobenzene	10.0	10.47		ug/L		105	80 - 124
1,2,4-Trimethylbenzene	10.0	11.52		ug/L		115	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	9.284		ug/L		93	63 - 123
1,2-Dibromoethane	10.0	10.67		ug/L		107	80 - 125
1,2-Dichlorobenzene	10.0	10.68		ug/L		107	80 - 120
1,2-Dichloroethane	10.0	10.12		ug/L		101	76 - 130
1,2-Dichloropropane	10.0	9.319		ug/L		93	74 - 124
1,3,5-Trimethylbenzene	10.0	11.22		ug/L		112	80 - 122

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258930/3
Matrix: Water
Analysis Batch: 258930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	10.0	10.84		ug/L		108	80 - 120
1,3-Dichloropropane	10.0	9.782		ug/L		98	80 - 121
1,4-Dichlorobenzene	10.0	10.61		ug/L		106	80 - 120
2,2-Dichloropropane	10.0	11.51		ug/L		115	79 - 131
2-Butanone	10.0	9.065		ug/L		91	48 - 145
2-Chlorotoluene	10.0	10.14		ug/L		101	80 - 120
2-Hexanone	10.0	9.079		ug/L		91	50 - 149
4-Chlorotoluene	10.0	10.81		ug/L		108	80 - 120
4-Methyl-2-pentanone	10.0	7.016		ug/L		70	63 - 120
Acetone	10.0	7.425	J	ug/L		74	45 - 139
Benzene	10.0	11.62		ug/L		116	80 - 120
Bromobenzene	10.0	11.04		ug/L		110	80 - 125
Bromochloromethane	10.0	9.825		ug/L		98	80 - 120
Bromodichloromethane	10.0	10.58		ug/L		106	73 - 131
Bromoform	10.0	10.91		ug/L		109	76 - 124
Bromomethane	10.0	9.391		ug/L		94	26 - 180
cis-1,2-Dichloroethene	10.0	10.57		ug/L		106	80 - 120
cis-1,3-Dichloropropene	10.0	10.39		ug/L		104	76 - 123
Carbon disulfide	10.0	11.69		ug/L		117	75 - 123
Carbon tetrachloride	10.0	11.73		ug/L		117	61 - 139
Chlorobenzene	10.0	10.77		ug/L		108	80 - 120
Chloroethane	10.0	8.819		ug/L		88	54 - 150
Chloroform	10.0	10.73		ug/L		107	80 - 120
Chloromethane	10.0	10.79		ug/L		108	28 - 151
Dibromochloromethane	10.0	10.95		ug/L		110	74 - 136
Dibromomethane	10.0	9.249		ug/L		92	80 - 122
Dichlorodifluoromethane	10.0	14.49		ug/L		145	27 - 154
Ethylbenzene	10.0	10.77		ug/L		108	80 - 126
Isopropylbenzene	10.0	10.99		ug/L		110	80 - 120
Methylene Chloride	10.0	11.02		ug/L		110	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	8.228		ug/L		82	69 - 128
Naphthalene	10.0	8.964		ug/L		90	70 - 130
n-Butylbenzene	10.0	11.26		ug/L		113	78 - 127
N-Propylbenzene	10.0	10.85		ug/L		109	80 - 121
o-Xylene	10.0	10.03		ug/L		100	80 - 124
m,p-Xylene	20.0	21.12		ug/L		106	80 - 123
p-Isopropyltoluene	10.0	11.31		ug/L		113	80 - 128
sec-Butylbenzene	10.0	11.57		ug/L		116	80 - 125
Styrene	10.0	10.46		ug/L		105	80 - 121
trans-1,2-Dichloroethene	10.0	9.371		ug/L		94	79 - 120
trans-1,3-Dichloropropene	10.0	10.10		ug/L		101	80 - 126
tert-Butylbenzene	10.0	10.95		ug/L		109	80 - 121
Tetrachloroethene	10.0	11.33		ug/L		113	80 - 125
Toluene	10.0	10.51		ug/L		105	80 - 120
Trichloroethene	10.0	10.88		ug/L		109	77 - 124
Trichlorofluoromethane	10.0	12.12		ug/L		121	41 - 163
Vinyl acetate	10.0	10.49		ug/L		105	61 - 126
Vinyl chloride	10.0	10.77		ug/L		108	50 - 160

QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258930/3
Matrix: Water
Analysis Batch: 258930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		64 - 132
4-Bromofluorobenzene (Surr)	96		76 - 120
Dibromofluoromethane	96		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 570-258930/4
Matrix: Water
Analysis Batch: 258930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	10.0	11.21		ug/L		112	80 - 125	2	20
1,1,1-Trichloroethane	10.0	10.37		ug/L		104	75 - 121	4	20
1,1,2,2-Tetrachloroethane	10.0	11.77		ug/L		118	80 - 120	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.19		ug/L		112	56 - 132	9	22
1,1,2-Trichloroethane	10.0	11.25		ug/L		112	80 - 121	13	20
1,1-Dichloroethane	10.0	8.780		ug/L		88	80 - 120	5	20
1,1-Dichloroethene	10.0	9.890		ug/L		99	80 - 126	5	21
1,1-Dichloropropene	10.0	10.82		ug/L		108	72 - 122	7	20
1,2,3-Trichlorobenzene	10.0	10.42		ug/L		104	80 - 125	2	20
1,2,3-Trichloropropane	10.0	10.92		ug/L		109	75 - 127	18	20
1,2,4-Trichlorobenzene	10.0	9.983		ug/L		100	80 - 124	5	20
1,2,4-Trimethylbenzene	10.0	10.79		ug/L		108	80 - 128	7	20
1,2-Dibromo-3-Chloropropane	10.0	9.701		ug/L		97	63 - 123	4	20
1,2-Dibromoethane	10.0	11.93		ug/L		119	80 - 125	11	20
1,2-Dichlorobenzene	10.0	10.39		ug/L		104	80 - 120	3	20
1,2-Dichloroethane	10.0	9.937		ug/L		99	76 - 130	2	20
1,2-Dichloropropane	10.0	9.019		ug/L		90	74 - 124	3	20
1,3,5-Trimethylbenzene	10.0	12.07	J	ug/L		121	80 - 122	7	20
1,3-Dichlorobenzene	10.0	10.26		ug/L		103	80 - 120	5	20
1,3-Dichloropropane	10.0	11.32		ug/L		113	80 - 121	15	20
1,4-Dichlorobenzene	10.0	10.30		ug/L		103	80 - 120	3	20
2,2-Dichloropropane	10.0	10.87		ug/L		109	79 - 131	6	20
2-Butanone	10.0	9.593		ug/L		96	48 - 145	6	30
2-Chlorotoluene	10.0	11.21		ug/L		112	80 - 120	10	20
2-Hexanone	10.0	9.357		ug/L		94	50 - 149	3	29
4-Chlorotoluene	10.0	10.17		ug/L		102	80 - 120	6	20
4-Methyl-2-pentanone	10.0	7.972		ug/L		80	63 - 120	13	20
Acetone	10.0	7.660	J	ug/L		77	45 - 139	3	30
Benzene	10.0	10.94		ug/L		109	80 - 120	6	20
Bromobenzene	10.0	12.76	*+ me	ug/L		128	80 - 125	14	20
Bromochloromethane	10.0	9.651		ug/L		97	80 - 120	2	20
Bromodichloromethane	10.0	10.36		ug/L		104	73 - 131	2	20
Bromoform	10.0	11.26		ug/L		113	76 - 124	3	20
Bromomethane	10.0	9.371		ug/L		94	26 - 180	0	20
cis-1,2-Dichloroethene	10.0	10.28		ug/L		103	80 - 120	3	20
cis-1,3-Dichloropropene	10.0	10.11		ug/L		101	76 - 123	3	20
Carbon disulfide	10.0	10.67		ug/L		107	75 - 123	9	20
Carbon tetrachloride	10.0	10.95		ug/L		110	61 - 139	7	20

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258930/4
Matrix: Water
Analysis Batch: 258930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	10.0	10.38		ug/L		104	80 - 120	4	20
Chloroethane	10.0	7.817		ug/L		78	54 - 150	12	25
Chloroform	10.0	10.42		ug/L		104	80 - 120	3	20
Chloromethane	10.0	8.913		ug/L		89	28 - 151	19	20
Dibromochloromethane	10.0	12.20		ug/L		122	74 - 136	11	20
Dibromomethane	10.0	9.823		ug/L		98	80 - 122	6	20
Dichlorodifluoromethane	10.0	12.27		ug/L		123	27 - 154	17	21
Ethylbenzene	10.0	10.78		ug/L		108	80 - 126	0	20
Isopropylbenzene	10.0	12.08	*+ me	ug/L		121	80 - 120	9	20
Methylene Chloride	10.0	9.810		ug/L		98	80 - 120	12	20
Methyl-t-Butyl Ether (MTBE)	10.0	8.748		ug/L		87	69 - 128	6	20
Naphthalene	10.0	9.349		ug/L		93	70 - 130	4	20
n-Butylbenzene	10.0	10.33		ug/L		103	78 - 127	9	20
N-Propylbenzene	10.0	11.79		ug/L		118	80 - 121	8	20
o-Xylene	10.0	10.68		ug/L		107	80 - 124	6	20
m,p-Xylene	20.0	22.42		ug/L		112	80 - 123	6	20
p-Isopropyltoluene	10.0	10.24		ug/L		102	80 - 128	10	20
sec-Butylbenzene	10.0	10.74		ug/L		107	80 - 125	7	20
Styrene	10.0	11.42		ug/L		114	80 - 121	9	20
trans-1,2-Dichloroethene	10.0	8.579		ug/L		86	79 - 120	9	20
trans-1,3-Dichloropropene	10.0	11.28		ug/L		113	80 - 126	11	20
tert-Butylbenzene	10.0	9.993		ug/L		100	80 - 121	9	20
Tetrachloroethene	10.0	11.59		ug/L		116	80 - 125	2	20
Toluene	10.0	10.12		ug/L		101	80 - 120	4	20
Trichloroethene	10.0	10.16		ug/L		102	77 - 124	7	20
Trichlorofluoromethane	10.0	10.86		ug/L		109	41 - 163	11	21
Vinyl acetate	10.0	11.57		ug/L		116	61 - 126	10	24
Vinyl chloride	10.0	10.12		ug/L		101	50 - 160	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	93		64 - 132
4-Bromofluorobenzene (Surr)	112		76 - 120
Dibromofluoromethane	97		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 570-258931/6
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 09:16	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 09:16	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258931/6
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 09:16	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 09:16	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 09:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 09:16	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 09:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 09:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 09:16	1
2-Butanone	ND		5.0		ug/L			08/24/22 09:16	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 09:16	1
2-Hexanone	ND		6.0		ug/L			08/24/22 09:16	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 09:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 09:16	1
Acetone	ND		8.0		ug/L			08/24/22 09:16	1
Benzene	ND		0.50		ug/L			08/24/22 09:16	1
Bromobenzene	ND		0.50		ug/L			08/24/22 09:16	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 09:16	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 09:16	1
Bromoform	ND		0.50		ug/L			08/24/22 09:16	1
Bromomethane	ND		2.0		ug/L			08/24/22 09:16	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 09:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 09:16	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 09:16	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 09:16	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 09:16	1
Chloroethane	ND		0.50		ug/L			08/24/22 09:16	1
Chloroform	ND		0.50		ug/L			08/24/22 09:16	1
Chloromethane	ND		1.0		ug/L			08/24/22 09:16	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 09:16	1
Dibromomethane	ND		0.50		ug/L			08/24/22 09:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 09:16	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 09:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 09:16	1
Naphthalene	ND		1.0		ug/L			08/24/22 09:16	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
o-Xylene	ND		0.50		ug/L			08/24/22 09:16	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 09:16	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 09:16	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
Styrene	ND		0.50		ug/L			08/24/22 09:16	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-258931/6
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 09:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 09:16	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 09:16	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 09:16	1
Toluene	ND		0.50		ug/L			08/24/22 09:16	1
Trichloroethene	ND		0.50		ug/L			08/24/22 09:16	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 09:16	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 09:16	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 09:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 132		08/24/22 09:16	1
4-Bromofluorobenzene (Surr)	97		76 - 120		08/24/22 09:16	1
Dibromofluoromethane	105		80 - 120		08/24/22 09:16	1
Toluene-d8 (Surr)	102		80 - 120		08/24/22 09:16	1

Lab Sample ID: LCS 570-258931/3
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	13.01	*+ me	ug/L		130	80 - 125
1,1,1-Trichloroethane	10.0	11.30		ug/L		113	75 - 121
1,1,2,2-Tetrachloroethane	10.0	11.22		ug/L		112	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.55		ug/L		125	56 - 132
1,1,2-Trichloroethane	10.0	10.56		ug/L		106	80 - 121
1,1-Dichloroethane	10.0	11.33		ug/L		113	80 - 120
1,1-Dichloroethene	10.0	11.63		ug/L		116	80 - 126
1,1-Dichloropropene	10.0	11.39		ug/L		114	72 - 122
1,2,3-Trichlorobenzene	10.0	10.85		ug/L		109	80 - 125
1,2,3-Trichloropropane	10.0	10.28		ug/L		103	75 - 127
1,2,4-Trichlorobenzene	10.0	10.55		ug/L		105	80 - 124
1,2,4-Trimethylbenzene	10.0	10.97		ug/L		110	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	11.15		ug/L		112	63 - 123
1,2-Dibromoethane	10.0	10.26		ug/L		103	80 - 125
1,2-Dichlorobenzene	10.0	10.53		ug/L		105	80 - 120
1,2-Dichloroethane	10.0	9.576		ug/L		96	76 - 130
1,2-Dichloropropane	10.0	11.02		ug/L		110	74 - 124
1,3,5-Trimethylbenzene	10.0	10.76		ug/L		108	80 - 122
1,3-Dichlorobenzene	10.0	10.79		ug/L		108	80 - 120
1,3-Dichloropropane	10.0	10.21		ug/L		102	80 - 121
1,4-Dichlorobenzene	10.0	10.64		ug/L		106	80 - 120
2,2-Dichloropropane	10.0	10.73		ug/L		107	79 - 131
2-Butanone	10.0	8.846		ug/L		88	48 - 145
2-Chlorotoluene	10.0	10.76		ug/L		108	80 - 120
2-Hexanone	10.0	9.015		ug/L		90	50 - 149
4-Chlorotoluene	10.0	10.88		ug/L		109	80 - 120
4-Methyl-2-pentanone	10.0	9.086		ug/L		91	63 - 120

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258931/3
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	10.0	8.135		ug/L		81	45 - 139
Benzene	10.0	10.77		ug/L		108	80 - 120
Bromobenzene	10.0	10.48		ug/L		105	80 - 125
Bromochloromethane	10.0	10.42		ug/L		104	80 - 120
Bromodichloromethane	10.0	12.02		ug/L		120	73 - 131
Bromoform	10.0	15.22	*+	ug/L		152	76 - 124
Bromomethane	10.0	7.366		ug/L		74	26 - 180
cis-1,2-Dichloroethene	10.0	11.53		ug/L		115	80 - 120
cis-1,3-Dichloropropene	10.0	10.85		ug/L		108	76 - 123
Carbon disulfide	10.0	12.00		ug/L		120	75 - 123
Carbon tetrachloride	10.0	14.15	*+ me	ug/L		142	61 - 139
Chlorobenzene	10.0	10.93		ug/L		109	80 - 120
Chloroethane	10.0	12.93		ug/L		129	54 - 150
Chloroform	10.0	10.92		ug/L		109	80 - 120
Chloromethane	10.0	8.384		ug/L		84	28 - 151
Dibromochloromethane	10.0	13.85	*+ me	ug/L		138	74 - 136
Dibromomethane	10.0	10.51		ug/L		105	80 - 122
Dichlorodifluoromethane	10.0	11.31		ug/L		113	27 - 154
Ethylbenzene	10.0	10.92		ug/L		109	80 - 126
Isopropylbenzene	10.0	11.00		ug/L		110	80 - 120
Methylene Chloride	10.0	10.69		ug/L		107	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	9.441		ug/L		94	69 - 128
Naphthalene	10.0	10.87		ug/L		109	70 - 130
n-Butylbenzene	10.0	11.52		ug/L		115	78 - 127
N-Propylbenzene	10.0	11.19		ug/L		112	80 - 121
o-Xylene	10.0	10.99		ug/L		110	80 - 124
m,p-Xylene	20.0	21.77		ug/L		109	80 - 123
p-Isopropyltoluene	10.0	11.38		ug/L		114	80 - 128
sec-Butylbenzene	10.0	11.49		ug/L		115	80 - 125
Styrene	10.0	11.17		ug/L		112	80 - 121
trans-1,2-Dichloroethene	10.0	11.38		ug/L		114	79 - 120
trans-1,3-Dichloropropene	10.0	10.27		ug/L		103	80 - 126
tert-Butylbenzene	10.0	11.28		ug/L		113	80 - 121
Tetrachloroethene	10.0	11.10		ug/L		111	80 - 125
Toluene	10.0	11.23		ug/L		112	80 - 120
Trichloroethene	10.0	11.31		ug/L		113	77 - 124
Trichlorofluoromethane	10.0	12.59		ug/L		126	41 - 163
Vinyl acetate	10.0	13.44	*+ me	ug/L		134	61 - 126
Vinyl chloride	10.0	12.14		ug/L		121	50 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		64 - 132
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane	105		80 - 120
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258931/4
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	10.0	12.03		ug/L		120	80 - 125	8	20
1,1,1-Trichloroethane	10.0	10.31		ug/L		103	75 - 121	9	20
1,1,2,2-Tetrachloroethane	10.0	11.70		ug/L		117	80 - 120	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.02		ug/L		110	56 - 132	13	22
1,1,2-Trichloroethane	10.0	10.15		ug/L		102	80 - 121	4	20
1,1-Dichloroethane	10.0	10.46		ug/L		105	80 - 120	8	20
1,1-Dichloroethene	10.0	10.62		ug/L		106	80 - 126	9	21
1,1-Dichloropropene	10.0	10.68		ug/L		107	72 - 122	6	20
1,2,3-Trichlorobenzene	10.0	10.32		ug/L		103	80 - 125	5	20
1,2,3-Trichloropropane	10.0	10.39		ug/L		104	75 - 127	1	20
1,2,4-Trichlorobenzene	10.0	10.12		ug/L		101	80 - 124	4	20
1,2,4-Trimethylbenzene	10.0	10.06		ug/L		101	80 - 128	9	20
1,2-Dibromo-3-Chloropropane	10.0	11.82		ug/L		118	63 - 123	6	20
1,2-Dibromoethane	10.0	10.13		ug/L		101	80 - 125	1	20
1,2-Dichlorobenzene	10.0	10.00		ug/L		100	80 - 120	5	20
1,2-Dichloroethane	10.0	9.176		ug/L		92	76 - 130	4	20
1,2-Dichloropropane	10.0	10.30		ug/L		103	74 - 124	7	20
1,3,5-Trimethylbenzene	10.0	9.870		ug/L		99	80 - 122	9	20
1,3-Dichlorobenzene	10.0	10.10		ug/L		101	80 - 120	7	20
1,3-Dichloropropane	10.0	9.979		ug/L		100	80 - 121	2	20
1,4-Dichlorobenzene	10.0	9.847		ug/L		98	80 - 120	8	20
2,2-Dichloropropane	10.0	9.549		ug/L		95	79 - 131	12	20
2-Butanone	10.0	9.465		ug/L		95	48 - 145	7	30
2-Chlorotoluene	10.0	9.885		ug/L		99	80 - 120	8	20
2-Hexanone	10.0	9.328		ug/L		93	50 - 149	3	29
4-Chlorotoluene	10.0	9.930		ug/L		99	80 - 120	9	20
4-Methyl-2-pentanone	10.0	9.624		ug/L		96	63 - 120	6	20
Acetone	10.0	8.249		ug/L		82	45 - 139	1	30
Benzene	10.0	9.918		ug/L		99	80 - 120	8	20
Bromobenzene	10.0	9.860		ug/L		99	80 - 125	6	20
Bromochloromethane	10.0	9.809		ug/L		98	80 - 120	6	20
Bromodichloromethane	10.0	11.25		ug/L		113	73 - 131	7	20
Bromoform	10.0	14.88	*+	ug/L		149	76 - 124	2	20
Bromomethane	10.0	6.521		ug/L		65	26 - 180	12	20
cis-1,2-Dichloroethene	10.0	10.53		ug/L		105	80 - 120	9	20
cis-1,3-Dichloropropene	10.0	10.36		ug/L		104	76 - 123	5	20
Carbon disulfide	10.0	10.94		ug/L		109	75 - 123	9	20
Carbon tetrachloride	10.0	12.87		ug/L		129	61 - 139	9	20
Chlorobenzene	10.0	10.03		ug/L		100	80 - 120	9	20
Chloroethane	10.0	11.49		ug/L		115	54 - 150	12	25
Chloroform	10.0	10.23		ug/L		102	80 - 120	7	20
Chloromethane	10.0	7.644		ug/L		76	28 - 151	9	20
Dibromochloromethane	10.0	13.48		ug/L		135	74 - 136	3	20
Dibromomethane	10.0	10.29		ug/L		103	80 - 122	2	20
Dichlorodifluoromethane	10.0	9.995		ug/L		100	27 - 154	12	21
Ethylbenzene	10.0	9.971		ug/L		100	80 - 126	9	20
Isopropylbenzene	10.0	10.03		ug/L		100	80 - 120	9	20
Methylene Chloride	10.0	10.14		ug/L		101	80 - 120	5	20

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258931/4
Matrix: Water
Analysis Batch: 258931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl-t-Butyl Ether (MTBE)	10.0	9.521		ug/L		95	69 - 128	1	20
Naphthalene	10.0	10.85		ug/L		109	70 - 130	0	20
n-Butylbenzene	10.0	10.27		ug/L		103	78 - 127	12	20
N-Propylbenzene	10.0	10.19		ug/L		102	80 - 121	9	20
o-Xylene	10.0	10.16		ug/L		102	80 - 124	8	20
m,p-Xylene	20.0	19.79		ug/L		99	80 - 123	10	20
p-Isopropyltoluene	10.0	10.32		ug/L		103	80 - 128	10	20
sec-Butylbenzene	10.0	10.49		ug/L		105	80 - 125	9	20
Styrene	10.0	10.38		ug/L		104	80 - 121	7	20
trans-1,2-Dichloroethene	10.0	10.40		ug/L		104	79 - 120	9	20
trans-1,3-Dichloropropene	10.0	9.799		ug/L		98	80 - 126	5	20
tert-Butylbenzene	10.0	10.29		ug/L		103	80 - 121	9	20
Tetrachloroethene	10.0	9.915		ug/L		99	80 - 125	11	20
Toluene	10.0	10.25		ug/L		102	80 - 120	9	20
Trichloroethene	10.0	10.29		ug/L		103	77 - 124	9	20
Trichlorofluoromethane	10.0	11.49		ug/L		115	41 - 163	9	21
Vinyl acetate	10.0	12.56		ug/L		126	61 - 126	7	24
Vinyl chloride	10.0	10.87		ug/L		109	50 - 160	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	96		64 - 132
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane	104		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 570-259139/6
Matrix: Water
Analysis Batch: 259139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 16:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			08/24/22 16:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			08/24/22 16:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			08/24/22 16:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			08/24/22 16:15	1
1,1-Dichloroethane	ND		0.50		ug/L			08/24/22 16:15	1
1,1-Dichloroethene	ND		0.50		ug/L			08/24/22 16:15	1
1,1-Dichloropropene	ND		0.50		ug/L			08/24/22 16:15	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			08/24/22 16:15	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			08/24/22 16:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			08/24/22 16:15	1
1,2-Dibromoethane	ND		0.50		ug/L			08/24/22 16:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:15	1
1,2-Dichloroethane	ND		0.50		ug/L			08/24/22 16:15	1
1,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			08/24/22 16:15	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-259139/6
Matrix: Water
Analysis Batch: 259139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:15	1
1,3-Dichloropropane	ND		0.50		ug/L			08/24/22 16:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			08/24/22 16:15	1
2,2-Dichloropropane	ND		0.50		ug/L			08/24/22 16:15	1
2-Butanone	ND		5.0		ug/L			08/24/22 16:15	1
2-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:15	1
2-Hexanone	ND		6.0		ug/L			08/24/22 16:15	1
4-Chlorotoluene	ND		0.50		ug/L			08/24/22 16:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/24/22 16:15	1
Acetone	ND		8.0		ug/L			08/24/22 16:15	1
Benzene	ND		0.50		ug/L			08/24/22 16:15	1
Bromobenzene	ND		0.50		ug/L			08/24/22 16:15	1
Bromochloromethane	ND		1.0		ug/L			08/24/22 16:15	1
Bromodichloromethane	ND		0.50		ug/L			08/24/22 16:15	1
Bromoform	ND		0.50		ug/L			08/24/22 16:15	1
Bromomethane	ND		2.0		ug/L			08/24/22 16:15	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 16:15	1
Carbon disulfide	ND		1.0		ug/L			08/24/22 16:15	1
Carbon tetrachloride	ND		0.50		ug/L			08/24/22 16:15	1
Chlorobenzene	ND		0.50		ug/L			08/24/22 16:15	1
Chloroethane	ND		0.50		ug/L			08/24/22 16:15	1
Chloroform	ND		0.50		ug/L			08/24/22 16:15	1
Chloromethane	ND		1.0		ug/L			08/24/22 16:15	1
Dibromochloromethane	ND		0.50		ug/L			08/24/22 16:15	1
Dibromomethane	ND		0.50		ug/L			08/24/22 16:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/24/22 16:15	1
Ethylbenzene	ND		0.50		ug/L			08/24/22 16:15	1
Isopropylbenzene	ND		0.50		ug/L			08/24/22 16:15	1
Methylene Chloride	ND		1.0		ug/L			08/24/22 16:15	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/24/22 16:15	1
Naphthalene	ND		1.0		ug/L			08/24/22 16:15	1
n-Butylbenzene	ND		0.50		ug/L			08/24/22 16:15	1
N-Propylbenzene	ND		0.50		ug/L			08/24/22 16:15	1
o-Xylene	ND		0.50		ug/L			08/24/22 16:15	1
m,p-Xylene	ND		1.0		ug/L			08/24/22 16:15	1
p-Isopropyltoluene	ND		0.50		ug/L			08/24/22 16:15	1
sec-Butylbenzene	ND		0.50		ug/L			08/24/22 16:15	1
Styrene	ND		0.50		ug/L			08/24/22 16:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			08/24/22 16:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			08/24/22 16:15	1
tert-Butylbenzene	ND		0.50		ug/L			08/24/22 16:15	1
Tetrachloroethene	ND		0.50		ug/L			08/24/22 16:15	1
Toluene	ND		0.50		ug/L			08/24/22 16:15	1
Trichloroethene	ND		0.50		ug/L			08/24/22 16:15	1
Trichlorofluoromethane	ND		0.50		ug/L			08/24/22 16:15	1
Vinyl acetate	ND		5.0		ug/L			08/24/22 16:15	1
Vinyl chloride	ND		0.50		ug/L			08/24/22 16:15	1

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-259139/6
Matrix: Water
Analysis Batch: 259139

Client Sample ID: Method Blank
Prep Type: Total/NA

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	103		64 - 132		08/24/22 16:15	1
4-Bromofluorobenzene (Surr)	93		76 - 120		08/24/22 16:15	1
Dibromofluoromethane	103		80 - 120		08/24/22 16:15	1
Toluene-d8 (Surr)	96		80 - 120		08/24/22 16:15	1

Lab Sample ID: LCS 570-259139/3
Matrix: Water
Analysis Batch: 259139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
1,1,1,2-Tetrachloroethane	10.0	10.64		ug/L		106	80 - 125
1,1,1-Trichloroethane	10.0	10.77		ug/L		108	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.96		ug/L		110	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.18		ug/L		102	56 - 132
1,1,2-Trichloroethane	10.0	11.11		ug/L		111	80 - 121
1,1-Dichloroethane	10.0	10.26		ug/L		103	80 - 120
1,1-Dichloroethene	10.0	10.98		ug/L		110	80 - 126
1,1-Dichloropropene	10.0	10.32		ug/L		103	72 - 122
1,2,3-Trichlorobenzene	10.0	10.60		ug/L		106	80 - 125
1,2,3-Trichloropropane	10.0	10.03		ug/L		100	75 - 127
1,2,4-Trichlorobenzene	10.0	10.11		ug/L		101	80 - 124
1,2,4-Trimethylbenzene	10.0	10.58		ug/L		106	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	9.373		ug/L		94	63 - 123
1,2-Dibromoethane	10.0	9.877		ug/L		99	80 - 125
1,2-Dichlorobenzene	10.0	10.67		ug/L		107	80 - 120
1,2-Dichloroethane	10.0	10.87		ug/L		109	76 - 130
1,2-Dichloropropane	10.0	10.57		ug/L		106	74 - 124
1,3,5-Trimethylbenzene	10.0	10.88		ug/L		109	80 - 122
1,3-Dichlorobenzene	10.0	10.50		ug/L		105	80 - 120
1,3-Dichloropropane	10.0	10.72		ug/L		107	80 - 121
1,4-Dichlorobenzene	10.0	10.19		ug/L		102	80 - 120
2,2-Dichloropropane	10.0	11.37		ug/L		114	79 - 131
2-Butanone	10.0	10.10		ug/L		101	48 - 145
2-Chlorotoluene	10.0	10.74		ug/L		107	80 - 120
2-Hexanone	10.0	8.461		ug/L		85	50 - 149
4-Chlorotoluene	10.0	10.42		ug/L		104	80 - 120
4-Methyl-2-pentanone	10.0	9.164		ug/L		92	63 - 120
Acetone	10.0	12.02		ug/L		120	45 - 139
Benzene	10.0	10.57		ug/L		106	80 - 120
Bromobenzene	10.0	10.79		ug/L		108	80 - 125
Bromochloromethane	10.0	10.35		ug/L		104	80 - 120
Bromodichloromethane	10.0	11.55		ug/L		115	73 - 131
Bromoform	10.0	11.35		ug/L		114	76 - 124
Bromomethane	10.0	10.86		ug/L		109	26 - 180
cis-1,2-Dichloroethene	10.0	10.58		ug/L		106	80 - 120
cis-1,3-Dichloropropene	10.0	9.928		ug/L		99	76 - 123
Carbon disulfide	10.0	10.31		ug/L		103	75 - 123
Carbon tetrachloride	10.0	11.54		ug/L		115	61 - 139

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-259139/3
Matrix: Water
Analysis Batch: 259139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	10.0	10.47		ug/L		105	80 - 120
Chloroethane	10.0	10.05		ug/L		101	54 - 150
Chloroform	10.0	10.46		ug/L		105	80 - 120
Chloromethane	10.0	11.11		ug/L		111	28 - 151
Dibromochloromethane	10.0	11.53		ug/L		115	74 - 136
Dibromomethane	10.0	11.08		ug/L		111	80 - 122
Dichlorodifluoromethane	10.0	7.493		ug/L		75	27 - 154
Ethylbenzene	10.0	10.74		ug/L		107	80 - 126
Isopropylbenzene	10.0	10.68		ug/L		107	80 - 120
Methylene Chloride	10.0	10.57		ug/L		106	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	10.33		ug/L		103	69 - 128
Naphthalene	10.0	10.18		ug/L		102	70 - 130
n-Butylbenzene	10.0	10.03		ug/L		100	78 - 127
N-Propylbenzene	10.0	11.04		ug/L		110	80 - 121
o-Xylene	10.0	10.85		ug/L		108	80 - 124
m,p-Xylene	20.0	22.18		ug/L		111	80 - 123
p-Isopropyltoluene	10.0	10.63		ug/L		106	80 - 128
sec-Butylbenzene	10.0	10.46		ug/L		105	80 - 125
Styrene	10.0	9.759		ug/L		98	80 - 121
trans-1,2-Dichloroethene	10.0	10.26		ug/L		103	79 - 120
trans-1,3-Dichloropropene	10.0	10.74		ug/L		107	80 - 126
tert-Butylbenzene	10.0	10.40		ug/L		104	80 - 121
Tetrachloroethene	10.0	10.77		ug/L		108	80 - 125
Toluene	10.0	10.61		ug/L		106	80 - 120
Trichloroethene	10.0	10.74		ug/L		107	77 - 124
Trichlorofluoromethane	10.0	9.125		ug/L		91	41 - 163
Vinyl acetate	10.0	9.994		ug/L		100	61 - 126
Vinyl chloride	10.0	9.204		ug/L		92	50 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 132
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane	103		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 570-259139/4
Matrix: Water
Analysis Batch: 259139

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	10.0	10.58		ug/L		106	80 - 125	1	20
1,1,1-Trichloroethane	10.0	10.86		ug/L		109	75 - 121	1	20
1,1,2,2-Tetrachloroethane	10.0	11.11		ug/L		111	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.68		ug/L		107	56 - 132	5	22
1,1,2-Trichloroethane	10.0	10.96		ug/L		110	80 - 121	1	20
1,1-Dichloroethane	10.0	10.44		ug/L		104	80 - 120	2	20
1,1-Dichloroethene	10.0	11.30		ug/L		113	80 - 126	3	21
1,1-Dichloropropene	10.0	10.67		ug/L		107	72 - 122	3	20

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-259139/4
Matrix: Water
Analysis Batch: 259139

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	10.0	10.77		ug/L		108	80 - 125	2	20
1,2,3-Trichloropropane	10.0	9.600		ug/L		96	75 - 127	4	20
1,2,4-Trichlorobenzene	10.0	10.38		ug/L		104	80 - 124	3	20
1,2,4-Trimethylbenzene	10.0	10.81		ug/L		108	80 - 128	2	20
1,2-Dibromo-3-Chloropropane	10.0	9.172		ug/L		92	63 - 123	2	20
1,2-Dibromoethane	10.0	9.955		ug/L		100	80 - 125	1	20
1,2-Dichlorobenzene	10.0	10.81		ug/L		108	80 - 120	1	20
1,2-Dichloroethane	10.0	10.85		ug/L		109	76 - 130	0	20
1,2-Dichloropropane	10.0	11.00		ug/L		110	74 - 124	4	20
1,3,5-Trimethylbenzene	10.0	10.98		ug/L		110	80 - 122	1	20
1,3-Dichlorobenzene	10.0	10.73		ug/L		107	80 - 120	2	20
1,3-Dichloropropane	10.0	10.88		ug/L		109	80 - 121	1	20
1,4-Dichlorobenzene	10.0	10.29		ug/L		103	80 - 120	1	20
2,2-Dichloropropane	10.0	11.58		ug/L		116	79 - 131	2	20
2-Butanone	10.0	11.27		ug/L		113	48 - 145	11	30
2-Chlorotoluene	10.0	10.87		ug/L		109	80 - 120	1	20
2-Hexanone	10.0	10.20		ug/L		102	50 - 149	19	29
4-Chlorotoluene	10.0	10.48		ug/L		105	80 - 120	1	20
4-Methyl-2-pentanone	10.0	9.149		ug/L		91	63 - 120	0	20
Acetone	10.0	10.84		ug/L		108	45 - 139	10	30
Benzene	10.0	10.85		ug/L		109	80 - 120	3	20
Bromobenzene	10.0	10.84		ug/L		108	80 - 125	0	20
Bromochloromethane	10.0	10.54		ug/L		105	80 - 120	2	20
Bromodichloromethane	10.0	11.74		ug/L		117	73 - 131	2	20
Bromoform	10.0	11.55		ug/L		116	76 - 124	2	20
Bromomethane	10.0	10.25		ug/L		102	26 - 180	6	20
cis-1,2-Dichloroethene	10.0	10.94		ug/L		109	80 - 120	3	20
cis-1,3-Dichloropropene	10.0	10.03		ug/L		100	76 - 123	1	20
Carbon disulfide	10.0	10.53		ug/L		105	75 - 123	2	20
Carbon tetrachloride	10.0	11.75		ug/L		117	61 - 139	2	20
Chlorobenzene	10.0	10.67		ug/L		107	80 - 120	2	20
Chloroethane	10.0	10.25		ug/L		102	54 - 150	2	25
Chloroform	10.0	10.81		ug/L		108	80 - 120	3	20
Chloromethane	10.0	12.76		ug/L		128	28 - 151	14	20
Dibromochloromethane	10.0	11.40		ug/L		114	74 - 136	1	20
Dibromomethane	10.0	10.60		ug/L		106	80 - 122	4	20
Dichlorodifluoromethane	10.0	8.096		ug/L		81	27 - 154	8	21
Ethylbenzene	10.0	10.77		ug/L		108	80 - 126	0	20
Isopropylbenzene	10.0	10.87		ug/L		109	80 - 120	2	20
Methylene Chloride	10.0	9.973		ug/L		100	80 - 120	6	20
Methyl-t-Butyl Ether (MTBE)	10.0	10.17		ug/L		102	69 - 128	1	20
Naphthalene	10.0	10.15		ug/L		102	70 - 130	0	20
n-Butylbenzene	10.0	10.24		ug/L		102	78 - 127	2	20
N-Propylbenzene	10.0	11.08		ug/L		111	80 - 121	0	20
o-Xylene	10.0	11.00		ug/L		110	80 - 124	1	20
m,p-Xylene	20.0	21.98		ug/L		110	80 - 123	1	20
p-Isopropyltoluene	10.0	10.81		ug/L		108	80 - 128	2	20
sec-Butylbenzene	10.0	10.73		ug/L		107	80 - 125	3	20
Styrene	10.0	10.03		ug/L		100	80 - 121	3	20

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-259139/4

Matrix: Water

Analysis Batch: 259139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	10.0	10.64		ug/L		106	79 - 120	4	20
trans-1,3-Dichloropropene	10.0	10.40		ug/L		104	80 - 126	3	20
tert-Butylbenzene	10.0	10.50		ug/L		105	80 - 121	1	20
Tetrachloroethene	10.0	10.77		ug/L		108	80 - 125	0	20
Toluene	10.0	10.78		ug/L		108	80 - 120	2	20
Trichloroethene	10.0	11.04		ug/L		110	77 - 124	3	20
Trichlorofluoromethane	10.0	9.523		ug/L		95	41 - 163	4	21
Vinyl acetate	10.0	9.976		ug/L		100	61 - 126	0	24
Vinyl chloride	10.0	9.455		ug/L		95	50 - 160	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 132
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane	103		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 570-259289/6

Matrix: Water

Analysis Batch: 259289

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50		ug/L			08/25/22 12:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		08/25/22 12:13	1
4-Bromofluorobenzene (Surr)	94		76 - 120		08/25/22 12:13	1
Dibromofluoromethane	106		80 - 120		08/25/22 12:13	1
Toluene-d8 (Surr)	98		80 - 120		08/25/22 12:13	1

Lab Sample ID: LCS 570-259289/3

Matrix: Water

Analysis Batch: 259289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	10.0	10.99		ug/L		110	77 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		64 - 132
4-Bromofluorobenzene (Surr)	101		76 - 120
Dibromofluoromethane	102		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 570-259289/4

Matrix: Water

Analysis Batch: 259289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	10.0	10.77		ug/L		108	77 - 124	2	20

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		64 - 132
4-Bromofluorobenzene (Surr)	101		76 - 120
Dibromofluoromethane	104		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-257771/1-A
 Matrix: Water
 Analysis Batch: 258098

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 257771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50		ug/L		08/18/22 11:56	08/19/22 18:56	1
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	50		21 - 120				08/18/22 11:56	08/19/22 18:56	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	74		58 - 135				08/18/22 11:56	08/19/22 18:56	1

Lab Sample ID: LCS 570-257771/2-A
 Matrix: Water
 Analysis Batch: 258098

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 257771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	20.0	21.50		ug/L		108	63 - 144
Isotope Dilution	%Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	46		21 - 120				
Surrogate	%Recovery	LCS Qualifier	Limits				
Nitrobenzene-d5	72		58 - 135				

Lab Sample ID: LCSD 570-257771/3-A
 Matrix: Water
 Analysis Batch: 258098

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 257771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,4-Dioxane	20.0	21.01		ug/L		105	63 - 144	2	20
Isotope Dilution	%Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8	46		21 - 120						
Surrogate	%Recovery	LCSD Qualifier	Limits						
Nitrobenzene-d5	70		58 - 135						

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 570-106776-D-1-B MS
Matrix: Water
Analysis Batch: 258098

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 257771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	4.4	F1	20.0	4.970	F1	ug/L		3	48 - 164
MS MS									
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	45		21 - 120						
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	77		58 - 135						

Lab Sample ID: 570-106776-D-1-C MSD
Matrix: Water
Analysis Batch: 258098

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 257771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	4.4	F1	20.0	6.016	F1	ug/L		8	48 - 164	19	20
MSD MSD											
Isotope Dilution	%Recovery	Qualifier	Limits								
1,4-Dioxane-d8	47		21 - 120								
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	75		58 - 135								

Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCSD 570-258930/4

Matrix: Water

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance
								Status
1,1,1,2-Tetrachloroethane	10.0	11.21		ug/L	112	80 - 125	73 - 133	
1,1,1-Trichloroethane	10.0	10.37		ug/L	104	75 - 121	67 - 129	
1,1,2,2-Tetrachloroethane	10.0	11.77		ug/L	118	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.19		ug/L	112	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	11.25		ug/L	112	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	8.780		ug/L	88	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	9.890		ug/L	99	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	10.82		ug/L	108	72 - 122	64 - 130	
1,2,3-Trichlorobenzene	10.0	10.42		ug/L	104	80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	10.92		ug/L	109	75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	9.983		ug/L	100	80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.79		ug/L	108	80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	9.701		ug/L	97	63 - 123	53 - 133	
1,2-Dibromoethane	10.0	11.93		ug/L	119	80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.39		ug/L	104	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	9.937		ug/L	99	76 - 130	67 - 139	
1,2-Dichloropropane	10.0	9.019		ug/L	90	74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	12.07		ug/L	121	80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.26		ug/L	103	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	11.32		ug/L	113	80 - 121	73 - 128	
1,4-Dichlorobenzene	10.0	10.30		ug/L	103	80 - 120	73 - 127	
2,2-Dichloropropane	10.0	10.87		ug/L	109	79 - 131	70 - 140	
2-Butanone	10.0	9.593		ug/L	96	48 - 145	32 - 161	
2-Chlorotoluene	10.0	11.21		ug/L	112	80 - 120	73 - 127	
2-Hexanone	10.0	9.357		ug/L	94	50 - 149	34 - 166	
4-Chlorotoluene	10.0	10.17		ug/L	102	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	7.972		ug/L	80	63 - 120	54 - 130	
Acetone	10.0	7.660	J	ug/L	77	45 - 139	29 - 155	
Benzene	10.0	10.94		ug/L	109	80 - 120	73 - 127	
Bromobenzene	10.0	12.76	*+ me	ug/L	128	80 - 125	73 - 133	ME
Bromochloromethane	10.0	9.651		ug/L	97	80 - 120	73 - 127	
Bromodichloromethane	10.0	10.36		ug/L	104	73 - 131	63 - 141	
Bromoform	10.0	11.26		ug/L	113	76 - 124	68 - 132	
Bromomethane	10.0	9.371		ug/L	94	26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	10.28		ug/L	103	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.11		ug/L	101	76 - 123	68 - 131	
Carbon disulfide	10.0	10.67		ug/L	107	75 - 123	67 - 131	
Carbon tetrachloride	10.0	10.95		ug/L	110	61 - 139	48 - 152	
Chlorobenzene	10.0	10.38		ug/L	104	80 - 120	73 - 127	
Chloroethane	10.0	7.817		ug/L	78	54 - 150	38 - 166	
Chloroform	10.0	10.42		ug/L	104	80 - 120	73 - 127	
Chloromethane	10.0	8.913		ug/L	89	28 - 151	8 - 172	
Dibromochloromethane	10.0	12.20		ug/L	122	74 - 136	64 - 146	
Dibromomethane	10.0	9.823		ug/L	98	80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	12.27		ug/L	123	27 - 154	6 - 175	
Ethylbenzene	10.0	10.78		ug/L	108	80 - 126	72 - 134	
Isopropylbenzene	10.0	12.08	*+ me	ug/L	121	80 - 120	73 - 127	ME
Methylene Chloride	10.0	9.810		ug/L	98	80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	8.748		ug/L	87	69 - 128	59 - 138	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258930/4
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Naphthalene	10.0	9.349		ug/L	93	70 - 130	60 - 140	
n-Butylbenzene	10.0	10.33		ug/L	103	78 - 127	70 - 135	
N-Propylbenzene	10.0	11.79		ug/L	118	80 - 121	73 - 128	
o-Xylene	10.0	10.68		ug/L	107	80 - 124	73 - 131	
m,p-Xylene	20.0	22.42		ug/L	112	80 - 123	73 - 130	
p-Isopropyltoluene	10.0	10.24		ug/L	102	80 - 128	72 - 136	
sec-Butylbenzene	10.0	10.74		ug/L	107	80 - 125	73 - 133	
Styrene	10.0	11.42		ug/L	114	80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	8.579		ug/L	86	79 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	11.28		ug/L	113	80 - 126	72 - 134	
tert-Butylbenzene	10.0	9.993		ug/L	100	80 - 121	73 - 128	
Tetrachloroethene	10.0	11.59		ug/L	116	80 - 125	73 - 133	
Toluene	10.0	10.12		ug/L	101	80 - 120	73 - 127	
Trichloroethene	10.0	10.16		ug/L	102	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	10.86		ug/L	109	41 - 163	21 - 183	
Vinyl acetate	10.0	11.57		ug/L	116	61 - 126	50 - 137	
Vinyl chloride	10.0	10.12		ug/L	101	50 - 160	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	2

ME = Marginal Exceedance

Lab Sample ID: LCS 570-258931/3
Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	10.0	13.01	*+ me	ug/L	130	80 - 125	73 - 133	ME ¹
1,1,1-Trichloroethane	10.0	11.30		ug/L	113	75 - 121	67 - 129	
1,1,2,2-Tetrachloroethane	10.0	11.22		ug/L	112	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.55		ug/L	125	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	10.56		ug/L	106	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	11.33		ug/L	113	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	11.63		ug/L	116	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	11.39		ug/L	114	72 - 122	64 - 130	
1,2,3-Trichlorobenzene	10.0	10.85		ug/L	109	80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	10.28		ug/L	103	75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	10.55		ug/L	105	80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.97		ug/L	110	80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	11.15		ug/L	112	63 - 123	53 - 133	
1,2-Dibromoethane	10.0	10.26		ug/L	103	80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.53		ug/L	105	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	9.576		ug/L	96	76 - 130	67 - 139	
1,2-Dichloropropane	10.0	11.02		ug/L	110	74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	10.76		ug/L	108	80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.79		ug/L	108	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	10.21		ug/L	102	80 - 121	73 - 128	
1,4-Dichlorobenzene	10.0	10.64		ug/L	106	80 - 120	73 - 127	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-258931/3
Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
2,2-Dichloropropane	10.0	10.73		ug/L	107	79 - 131	70 - 140	
2-Butanone	10.0	8.846		ug/L	88	48 - 145	32 - 161	
2-Chlorotoluene	10.0	10.76		ug/L	108	80 - 120	73 - 127	
2-Hexanone	10.0	9.015		ug/L	90	50 - 149	34 - 166	
4-Chlorotoluene	10.0	10.88		ug/L	109	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	9.086		ug/L	91	63 - 120	54 - 130	
Acetone	10.0	8.135		ug/L	81	45 - 139	29 - 155	
Benzene	10.0	10.77		ug/L	108	80 - 120	73 - 127	
Bromobenzene	10.0	10.48		ug/L	105	80 - 125	73 - 133	
Bromochloromethane	10.0	10.42		ug/L	104	80 - 120	73 - 127	
Bromodichloromethane	10.0	12.02		ug/L	120	73 - 131	63 - 141	
Bromoform	10.0	15.22	*+	ug/L	152	76 - 124	68 - 132	X
Bromomethane	10.0	7.366		ug/L	74	26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	11.53		ug/L	115	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.85		ug/L	108	76 - 123	68 - 131	
Carbon disulfide	10.0	12.00		ug/L	120	75 - 123	67 - 131	
Carbon tetrachloride	10.0	14.15	*+ me	ug/L	142	61 - 139	48 - 152	ME ¹
Chlorobenzene	10.0	10.93		ug/L	109	80 - 120	73 - 127	
Chloroethane	10.0	12.93		ug/L	129	54 - 150	38 - 166	
Chloroform	10.0	10.92		ug/L	109	80 - 120	73 - 127	
Chloromethane	10.0	8.384		ug/L	84	28 - 151	8 - 172	
Dibromochloromethane	10.0	13.85	*+ me	ug/L	138	74 - 136	64 - 146	ME ¹
Dibromomethane	10.0	10.51		ug/L	105	80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	11.31		ug/L	113	27 - 154	6 - 175	
Ethylbenzene	10.0	10.92		ug/L	109	80 - 126	72 - 134	
Isopropylbenzene	10.0	11.00		ug/L	110	80 - 120	73 - 127	
Methylene Chloride	10.0	10.69		ug/L	107	80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	9.441		ug/L	94	69 - 128	59 - 138	
Naphthalene	10.0	10.87		ug/L	109	70 - 130	60 - 140	
n-Butylbenzene	10.0	11.52		ug/L	115	78 - 127	70 - 135	
N-Propylbenzene	10.0	11.19		ug/L	112	80 - 121	73 - 128	
o-Xylene	10.0	10.99		ug/L	110	80 - 124	73 - 131	
m,p-Xylene	20.0	21.77		ug/L	109	80 - 123	73 - 130	
p-Isopropyltoluene	10.0	11.38		ug/L	114	80 - 128	72 - 136	
sec-Butylbenzene	10.0	11.49		ug/L	115	80 - 125	73 - 133	
Styrene	10.0	11.17		ug/L	112	80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	11.38		ug/L	114	79 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	10.27		ug/L	103	80 - 126	72 - 134	
tert-Butylbenzene	10.0	11.28		ug/L	113	80 - 121	73 - 128	
Tetrachloroethene	10.0	11.10		ug/L	111	80 - 125	73 - 133	
Toluene	10.0	11.23		ug/L	112	80 - 120	73 - 127	
Trichloroethene	10.0	11.31		ug/L	113	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	12.59		ug/L	126	41 - 163	21 - 183	
Vinyl acetate	10.0	13.44	*+ me	ug/L	134	61 - 126	50 - 137	ME ¹
Vinyl chloride	10.0	12.14		ug/L	121	50 - 160	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	4

Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

ME¹ = Marginal Exceedance and number of ME's found greater than allowed
X = % Recovery is greater than widest possible limit

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCSD 570-258931/4
Matrix: Water

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec.	ME %Rec.	Marginal Exceedance Status
						Limits	Limits	
1,1,1,2-Tetrachloroethane	10.0	12.03		ug/L	120	80 - 125	73 - 133	
1,1,1-Trichloroethane	10.0	10.31		ug/L	103	75 - 121	67 - 129	
1,1,1,2-Tetrachloroethane	10.0	11.70		ug/L	117	80 - 120	73 - 127	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.02		ug/L	110	56 - 132	43 - 145	
1,1,2-Trichloroethane	10.0	10.15		ug/L	102	80 - 121	73 - 128	
1,1-Dichloroethane	10.0	10.46		ug/L	105	80 - 120	73 - 127	
1,1-Dichloroethene	10.0	10.62		ug/L	106	80 - 126	72 - 134	
1,1-Dichloropropene	10.0	10.68		ug/L	107	72 - 122	64 - 130	
1,2,3-Trichlorobenzene	10.0	10.32		ug/L	103	80 - 125	73 - 133	
1,2,3-Trichloropropane	10.0	10.39		ug/L	104	75 - 127	66 - 136	
1,2,4-Trichlorobenzene	10.0	10.12		ug/L	101	80 - 124	73 - 131	
1,2,4-Trimethylbenzene	10.0	10.06		ug/L	101	80 - 128	72 - 136	
1,2-Dibromo-3-Chloropropane	10.0	11.82		ug/L	118	63 - 123	53 - 133	
1,2-Dibromoethane	10.0	10.13		ug/L	101	80 - 125	73 - 133	
1,2-Dichlorobenzene	10.0	10.00		ug/L	100	80 - 120	73 - 127	
1,2-Dichloroethane	10.0	9.176		ug/L	92	76 - 130	67 - 139	
1,2-Dichloropropane	10.0	10.30		ug/L	103	74 - 124	66 - 132	
1,3,5-Trimethylbenzene	10.0	9.870		ug/L	99	80 - 122	73 - 129	
1,3-Dichlorobenzene	10.0	10.10		ug/L	101	80 - 120	73 - 127	
1,3-Dichloropropane	10.0	9.979		ug/L	100	80 - 121	73 - 128	
1,4-Dichlorobenzene	10.0	9.847		ug/L	98	80 - 120	73 - 127	
2,2-Dichloropropane	10.0	9.549		ug/L	95	79 - 131	70 - 140	
2-Butanone	10.0	9.465		ug/L	95	48 - 145	32 - 161	
2-Chlorotoluene	10.0	9.885		ug/L	99	80 - 120	73 - 127	
2-Hexanone	10.0	9.328		ug/L	93	50 - 149	34 - 166	
4-Chlorotoluene	10.0	9.930		ug/L	99	80 - 120	73 - 127	
4-Methyl-2-pentanone	10.0	9.624		ug/L	96	63 - 120	54 - 130	
Acetone	10.0	8.249		ug/L	82	45 - 139	29 - 155	
Benzene	10.0	9.918		ug/L	99	80 - 120	73 - 127	
Bromobenzene	10.0	9.860		ug/L	99	80 - 125	73 - 133	
Bromochloromethane	10.0	9.809		ug/L	98	80 - 120	73 - 127	
Bromodichloromethane	10.0	11.25		ug/L	113	73 - 131	63 - 141	
Bromoform	10.0	14.88	*+	ug/L	149	76 - 124	68 - 132	X
Bromomethane	10.0	6.521		ug/L	65	26 - 180	1 - 206	
cis-1,2-Dichloroethene	10.0	10.53		ug/L	105	80 - 120	73 - 127	
cis-1,3-Dichloropropene	10.0	10.36		ug/L	104	76 - 123	68 - 131	
Carbon disulfide	10.0	10.94		ug/L	109	75 - 123	67 - 131	
Carbon tetrachloride	10.0	12.87		ug/L	129	61 - 139	48 - 152	
Chlorobenzene	10.0	10.03		ug/L	100	80 - 120	73 - 127	
Chloroethane	10.0	11.49		ug/L	115	54 - 150	38 - 166	
Chloroform	10.0	10.23		ug/L	102	80 - 120	73 - 127	
Chloromethane	10.0	7.644		ug/L	76	28 - 151	8 - 172	
Dibromochloromethane	10.0	13.48		ug/L	135	74 - 136	64 - 146	
Dibromomethane	10.0	10.29		ug/L	103	80 - 122	73 - 129	
Dichlorodifluoromethane	10.0	9.995		ug/L	100	27 - 154	6 - 175	
Ethylbenzene	10.0	9.971		ug/L	100	80 - 126	72 - 134	

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Marginal Exceedance (ME) Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-258931/4
 Matrix: Water

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Isopropylbenzene	10.0	10.03		ug/L	100	80 - 120	73 - 127	
Methylene Chloride	10.0	10.14		ug/L	101	80 - 120	73 - 127	
Methyl-t-Butyl Ether (MTBE)	10.0	9.521		ug/L	95	69 - 128	59 - 138	
Naphthalene	10.0	10.85		ug/L	109	70 - 130	60 - 140	
n-Butylbenzene	10.0	10.27		ug/L	103	78 - 127	70 - 135	
N-Propylbenzene	10.0	10.19		ug/L	102	80 - 121	73 - 128	
o-Xylene	10.0	10.16		ug/L	102	80 - 124	73 - 131	
m,p-Xylene	20.0	19.79		ug/L	99	80 - 123	73 - 130	
p-Isopropyltoluene	10.0	10.32		ug/L	103	80 - 128	72 - 136	
sec-Butylbenzene	10.0	10.49		ug/L	105	80 - 125	73 - 133	
Styrene	10.0	10.38		ug/L	104	80 - 121	73 - 128	
trans-1,2-Dichloroethene	10.0	10.40		ug/L	104	79 - 120	72 - 127	
trans-1,3-Dichloropropene	10.0	9.799		ug/L	98	80 - 126	72 - 134	
tert-Butylbenzene	10.0	10.29		ug/L	103	80 - 121	73 - 128	
Tetrachloroethene	10.0	9.915		ug/L	99	80 - 125	73 - 133	
Toluene	10.0	10.25		ug/L	102	80 - 120	73 - 127	
Trichloroethene	10.0	10.29		ug/L	103	77 - 124	69 - 132	
Trichlorofluoromethane	10.0	11.49		ug/L	115	41 - 163	21 - 183	
Vinyl acetate	10.0	12.56		ug/L	126	61 - 126	50 - 137	
Vinyl chloride	10.0	10.87		ug/L	109	50 - 160	32 - 178	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
66	3	0

X = % Recovery is greater than widest possible limit

QC Association Summary

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

GC/MS VOA

Analysis Batch: 258930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106791-18	HEW-01	Total/NA	Water	8260B	
570-106791-19	UAX-03	Total/NA	Water	8260B	
570-106791-20	S-21	Total/NA	Water	8260B	
570-106791-21	S-24	Total/NA	Water	8260B	
570-106791-22	S-2400	Total/NA	Water	8260B	
MB 570-258930/6	Method Blank	Total/NA	Water	8260B	
LCS 570-258930/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-258930/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 258931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106791-1	TB-081722	Total/NA	Water	8260B	
570-106791-2	UA-07D	Total/NA	Water	8260B	
570-106791-3	UA-07	Total/NA	Water	8260B	
570-106791-4	UA-11D	Total/NA	Water	8260B	
570-106791-5	S-30	Total/NA	Water	8260B	
570-106791-6	UA-11	Total/NA	Water	8260B	
570-106791-7	UB-03	Total/NA	Water	8260B	
570-106791-8	RB-081722B	Total/NA	Water	8260B	
570-106791-9	S-29	Total/NA	Water	8260B	
570-106791-10	UA-12D	Total/NA	Water	8260B	
570-106791-11	UA-12	Total/NA	Water	8260B	
570-106791-12	AB-01	Total/NA	Water	8260B	
570-106791-13	UA-06D	Total/NA	Water	8260B	
570-106791-14	UA-06	Total/NA	Water	8260B	
570-106791-15	S-26	Total/NA	Water	8260B	
570-106791-16	LAX-02	Total/NA	Water	8260B	
570-106791-17	S-08	Total/NA	Water	8260B	
MB 570-258931/6	Method Blank	Total/NA	Water	8260B	
LCS 570-258931/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-258931/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 259139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106791-23	UA-15D	Total/NA	Water	8260B	
570-106791-24	AB-02	Total/NA	Water	8260B	
570-106791-25	RB-081722A	Total/NA	Water	8260B	
570-106791-26	S-27	Total/NA	Water	8260B	
570-106791-27	S-31	Total/NA	Water	8260B	
570-106791-28	HEW-03	Total/NA	Water	8260B	
570-106791-29	S-07	Total/NA	Water	8260B	
570-106791-30	UA-02	Total/NA	Water	8260B	
570-106791-31	S-15	Total/NA	Water	8260B	
570-106791-32	SE-01	Total/NA	Water	8260B	
MB 570-259139/6	Method Blank	Total/NA	Water	8260B	
LCS 570-259139/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-259139/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 259289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106791-17 - DL	S-08	Total/NA	Water	8260B	

QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

GC/MS VOA (Continued)

Analysis Batch: 259289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106791-18 - DL	HEW-01	Total/NA	Water	8260B	
570-106791-19 - RA	UAX-03	Total/NA	Water	8260B	
570-106791-32 - DL	SE-01	Total/NA	Water	8260B	
MB 570-259289/6	Method Blank	Total/NA	Water	8260B	
LCS 570-259289/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-259289/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 257771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106791-16	LAX-02	Total/NA	Water	3510C	
570-106791-18	HEW-01	Total/NA	Water	3510C	
570-106791-19	UAX-03	Total/NA	Water	3510C	
570-106791-28	HEW-03	Total/NA	Water	3510C	
MB 570-257771/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-257771/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-257771/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-106776-D-1-B MS	Matrix Spike	Total/NA	Water	3510C	
570-106776-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 258098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106791-16	LAX-02	Total/NA	Water	8270C SIM ID	257771
570-106791-19	UAX-03	Total/NA	Water	8270C SIM ID	257771
570-106791-28	HEW-03	Total/NA	Water	8270C SIM ID	257771
MB 570-257771/1-A	Method Blank	Total/NA	Water	8270C SIM ID	257771
LCS 570-257771/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	257771
LCSD 570-257771/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	257771
570-106776-D-1-B MS	Matrix Spike	Total/NA	Water	8270C SIM ID	257771
570-106776-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM ID	257771

Analysis Batch: 259053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-106791-18	HEW-01	Total/NA	Water	8270C SIM ID	257771

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: TB-081722

Lab Sample ID: 570-106791-1

Date Collected: 08/17/22 08:00

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 10:40	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-07D

Lab Sample ID: 570-106791-2

Date Collected: 08/17/22 09:00

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 11:08	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-07

Lab Sample ID: 570-106791-3

Date Collected: 08/17/22 09:15

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 11:37	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-11D

Lab Sample ID: 570-106791-4

Date Collected: 08/17/22 09:43

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 12:05	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: S-30

Lab Sample ID: 570-106791-5

Date Collected: 08/17/22 09:56

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 12:33	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-11

Lab Sample ID: 570-106791-6

Date Collected: 08/17/22 10:05

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 13:29	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: UB-03
Date Collected: 08/17/22 10:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 13:57	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: RB-081722B
Date Collected: 08/17/22 11:00
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 14:26	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: S-29
Date Collected: 08/17/22 11:10
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 14:54	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-12D
Date Collected: 08/17/22 11:20
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 15:22	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-12
Date Collected: 08/17/22 11:30
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 15:50	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: AB-01
Date Collected: 08/17/22 12:45
Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 16:18	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Lab Chronicle

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: UA-06D

Lab Sample ID: 570-106791-13

Date Collected: 08/17/22 13:00

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 16:47	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: UA-06

Lab Sample ID: 570-106791-14

Date Collected: 08/17/22 13:12

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 17:15	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: S-26

Lab Sample ID: 570-106791-15

Date Collected: 08/17/22 15:15

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 17:43	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Client Sample ID: LAX-02

Lab Sample ID: 570-106791-16

Date Collected: 08/17/22 15:36

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 18:11	N5PD	EET CAL 4
Instrument ID: GCMSUU										
Total/NA	Prep	3510C			100 mL	10 mL	257771	08/18/22 11:57	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258098	08/19/22 21:20	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: S-08

Lab Sample ID: 570-106791-17

Date Collected: 08/17/22 16:02

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	50	20 mL	20 mL	259289	08/25/22 14:29	UJHB	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Analysis	8260B		1	20 mL	20 mL	258931	08/24/22 18:39	N5PD	EET CAL 4
Instrument ID: GCMSUU										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: HEW-01

Date Collected: 08/16/22 16:53

Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	50	20 mL	20 mL	259289	08/25/22 14:57	UJHB	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Analysis	8260B		1	20 mL	20 mL	258930	08/24/22 16:11	OH1	EET CAL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	257771	08/18/22 11:57	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	259053	08/24/22 12:49	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-03

Date Collected: 08/17/22 08:25

Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	259289	08/25/22 14:02	UJHB	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Analysis	8260B		1	20 mL	20 mL	258930	08/24/22 16:39	OH1	EET CAL 4
Instrument ID: GCMSWW										
Total/NA	Prep	3510C			100 mL	10 mL	257771	08/18/22 11:57	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258098	08/19/22 21:49	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: S-21

Date Collected: 08/17/22 08:35

Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258930	08/24/22 17:06	OH1	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: S-24

Date Collected: 08/17/22 08:45

Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258930	08/24/22 17:34	OH1	EET CAL 4
Instrument ID: GCMSWW										

Client Sample ID: S-2400

Date Collected: 08/17/22 09:05

Date Received: 08/17/22 17:40

Lab Sample ID: 570-106791-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	258930	08/24/22 18:02	OH1	EET CAL 4
Instrument ID: GCMSWW										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: UA-15D

Lab Sample ID: 570-106791-23

Date Collected: 08/17/22 09:10

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	259139	08/24/22 17:11	OH1	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: AB-02

Lab Sample ID: 570-106791-24

Date Collected: 08/17/22 09:20

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	259139	08/24/22 17:38	OH1	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: RB-081722A

Lab Sample ID: 570-106791-25

Date Collected: 08/17/22 09:25

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	259139	08/24/22 18:05	OH1	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: S-27

Lab Sample ID: 570-106791-26

Date Collected: 08/17/22 09:55

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	259139	08/24/22 18:32	OH1	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: S-31

Lab Sample ID: 570-106791-27

Date Collected: 08/17/22 10:15

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	259139	08/24/22 19:00	OH1	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: HEW-03

Lab Sample ID: 570-106791-28

Date Collected: 08/17/22 10:30

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	259139	08/24/22 19:27	OH1	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Prep	3510C			100 mL	10 mL	257771	08/18/22 11:57	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	0 mL	258098	08/19/22 22:03	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Lab Chronicle

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Client Sample ID: S-07

Lab Sample ID: 570-106791-29

Date Collected: 08/17/22 10:45

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	259139	08/24/22 19:54	OH1	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: UA-02

Lab Sample ID: 570-106791-30

Date Collected: 08/17/22 11:00

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	259139	08/24/22 20:22	OH1	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: S-15

Lab Sample ID: 570-106791-31

Date Collected: 08/17/22 11:20

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	259139	08/24/22 20:49	OH1	EET CAL 4
Instrument ID: GCMSL										

Client Sample ID: SE-01

Lab Sample ID: 570-106791-32

Date Collected: 08/17/22 16:13

Matrix: Water

Date Received: 08/17/22 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	259139	08/24/22 21:17	OH1	EET CAL 4
Instrument ID: GCMSL										
Total/NA	Analysis	8260B	DL	100	20 mL	20 mL	259289	08/25/22 15:24	UJHB	EET CAL 4
Instrument ID: GCMSL										

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

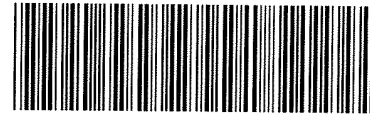


Sample Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon Full Scale / Bldg 684

Job ID: 570-106791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-106791-1	TB-081722	Water	08/17/22 08:00	08/17/22 17:40
570-106791-2	UA-07D	Water	08/17/22 09:00	08/17/22 17:40
570-106791-3	UA-07	Water	08/17/22 09:15	08/17/22 17:40
570-106791-4	UA-11D	Water	08/17/22 09:43	08/17/22 17:40
570-106791-5	S-30	Water	08/17/22 09:56	08/17/22 17:40
570-106791-6	UA-11	Water	08/17/22 10:05	08/17/22 17:40
570-106791-7	UB-03	Water	08/17/22 10:20	08/17/22 17:40
570-106791-8	RB-081722B	Water	08/17/22 11:00	08/17/22 17:40
570-106791-9	S-29	Water	08/17/22 11:10	08/17/22 17:40
570-106791-10	UA-12D	Water	08/17/22 11:20	08/17/22 17:40
570-106791-11	UA-12	Water	08/17/22 11:30	08/17/22 17:40
570-106791-12	AB-01	Water	08/17/22 12:45	08/17/22 17:40
570-106791-13	UA-06D	Water	08/17/22 13:00	08/17/22 17:40
570-106791-14	UA-06	Water	08/17/22 13:12	08/17/22 17:40
570-106791-15	S-26	Water	08/17/22 15:15	08/17/22 17:40
570-106791-16	LAX-02	Water	08/17/22 15:36	08/17/22 17:40
570-106791-17	S-08	Water	08/17/22 16:02	08/17/22 17:40
570-106791-18	HEW-01	Water	08/16/22 16:53	08/17/22 17:40
570-106791-19	UAX-03	Water	08/17/22 08:25	08/17/22 17:40
570-106791-20	S-21	Water	08/17/22 08:35	08/17/22 17:40
570-106791-21	S-24	Water	08/17/22 08:45	08/17/22 17:40
570-106791-22	S-2400	Water	08/17/22 09:05	08/17/22 17:40
570-106791-23	UA-15D	Water	08/17/22 09:10	08/17/22 17:40
570-106791-24	AB-02	Water	08/17/22 09:20	08/17/22 17:40
570-106791-25	RB-081722A	Water	08/17/22 09:25	08/17/22 17:40
570-106791-26	S-27	Water	08/17/22 09:55	08/17/22 17:40
570-106791-27	S-31	Water	08/17/22 10:15	08/17/22 17:40
570-106791-28	HEW-03	Water	08/17/22 10:30	08/17/22 17:40
570-106791-29	S-07	Water	08/17/22 10:45	08/17/22 17:40
570-106791-30	UA-02	Water	08/17/22 11:00	08/17/22 17:40
570-106791-31	S-15	Water	08/17/22 11:20	08/17/22 17:40
570-106791-32	SE-01	Water	08/17/22 16:13	08/17/22 17:40



PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Laboratory
Eurofins Calscience, Inc
Attn: **Virendra Patel**
ECI Project #57001317
2841 Dow Avenue, Suite 100
Tustin, CA 92780

Project BCI Fullerton 764 10	Sampled By D. Scott	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	250 ml Amber	VOCs by EPA 8260B	1,4-Dioxane by 8270C	0-10	10-100	100-1,000	>1,000	Standard TAT	MS/MSD Requested	REMARKS	
		Date	Time																	
1	TB-081722	08 17 22	0800	X	X		X	2			X		X							
2	JA-07D		0900	X	X		X	3			X		X							
3	JA-07		0915	X	X			3			X		X							
4	JA-11D		0943	X	X			3			X		X							
5	S-30		0956	X	X			3			X		X							
6	JA-11		1005	X	X			3			X		X							
7	UB-03		1020	X	X			3			X		X							
8	RB-081722B		1100	X	X			3			X		X							
9	S-29		1110	X	X			3			X		X							
10	JA-12D		1120	X	X			3			X		X							
11	JA-12		1130	X	X			3			X		X							
12	AB-01		1245	X	X			3			X		X							
13	UA-06D		1300	X	X			3			X		X							
14	UA-06		1312	X	X			3			X		X							
15	S-26		1515	X	X			3			X		X							
16	LA-02		1536	X	X			3			X		X							
17	S-08 LA-02		1602	X	X			3		1	X		X			X				
17 JK	S-08		1602	X	X			3			X					X				

Total number of containers per analysis _____ Total No of Containers _____

Comments Report "J" Flags

Geotracker ID T0605900143, Log Code HARG

Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
<i>[Signature]</i> / H+A	08/17/22 1644	<i>[Signature]</i>	8/17/22 1649
Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
<i>[Signature]</i>	8/17/22 1740	<i>[Signature]</i>	8/17/22 1740

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

① 44/47°C SC11 Temperature on receipt
② 40/49°C



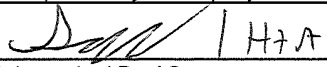
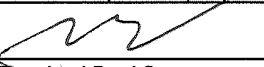
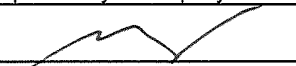
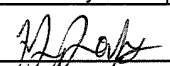
PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project		Sampled By		SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	250 mL Amber	VOCs by EPA 8260B	1,4-Dioxane by 8270C	0-10	10-100	100-1,000	>1,000	Standard TAT	MS/MSD Requested	REMARKS	
BCI Fullerton 764 10	A. DONNELLY, A. WARDEN	Date	Time																			
18	HEW-01	8/16/22	1653	X	X			X	3				X	X								
20 19	UA-X-03	8/17/22	0825	X	X				3				X	X								
20	S-21		0835	X	X				3				X	X								
22 21	S-24		0845	X	X				3				X	X								
22	S-2400		0905	X	X				3				X	X								
23	UA-15D		0910	X	X				3				X	X								
24	AB-02		0920	X	X				3				X	X								
25	RB-081722A		0925	X	X				3				X	X								
26	S-27		0955	X	X				3				X	X								
27	S-31		1015	X	X				3				X	X								
28	HEW-03		1030	X	X				3				X	X								
29	S-07		1045	X	X				3				X	X								
30	UA-02		1100	X	X				3				X	X								
31	S-15		1120	X	X				3				X	X								

Total number of containers per analysis _____ Total No. of Containers _____

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company	Date / Time	Received By / Company	Date / Time
 / H7A	08-17-22 1644		8/17/22 1649
Relinquished By / Company	Date / Time	Received By / Company	Date / Time
	8/17/22 1740		8/17/22 1740

- No. of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

① 4.4/4.7°C SC11 Temperature on receipt
② 4.6/4.9°C



PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project BCI Fullerton 764 10	Sampled By <i>D. Scalice</i>	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber 250 mL Amber	ANALYSIS REQUESTED VOCs by EPA 8260B	ESTIMATED CONCENTRATION 1,4-Dioxane by 8270C	SPECIAL HANDLING Standard TAT	M/MSMD Requested	Laboratory	
		Date	Time											Eurofins Calscience, Inc Attn: Virendra Patel ECI Project #57001317 2841 Dow Avenue, Suite 100 Tustin, CA 92780	
LAB ID	SAMPLE ID	Date	Time											REMARKS	
32	SE-01	08.17.22	16:13	X	X	X	X	X	X	X	X	X	X		
Total number of containers per analysis														Total No. of Containers _____	

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code. HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company	Date / Time	Received By / Company	Date / Time
<i>[Signature]</i> / H+A	08.17.22 1644	<i>[Signature]</i>	8/17/22 1644
<i>[Signature]</i>	8/17/22 1740	<i>[Signature]</i>	8/17/22 1740

- No. of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

① 44/47°C
② 46/49°C
5011 Temperature on receipt



Login Sample Receipt Checklist

Client: Hargis + Associates, Inc.

Job Number: 570-106791-1

Login Number: 106791

List Number: 1

Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Steve Netto
Hargis + Associates, Inc.
3131 Camino del Rio N
Suite 355
San Diego, California 92108

Generated 12/1/2022 8:13:19 AM

JOB DESCRIPTION

Raytheon - Bldg. 684

JOB NUMBER

570-118468-1

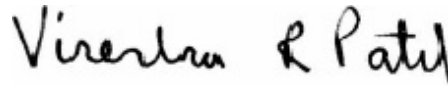
Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Authorized for release by
Virendra Patel, Project Manager I
Virendra.Patel@et.eurofinsus.com
(714)895-5494



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Definitions/Glossary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Job ID: 570-118468-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-118468-1

Comments

No additional comments.

Receipt

The samples were received on 11/23/2022 2:44 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

Receipt Exceptions

The 250 amber container label for the following sample did not match the information listed on the Chain-of-Custody (COC): UAX-01 (570-118468-7). The container labels list UAX-03, while the COC lists UAX-01 (collection date/time matched).

The clients office was contacted with the above sample receipt anomalies. The laboratory was provided written direction on how to proceed, please refer to the COC section of the report for further details.

GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 570-284289 were outside control limits: UAX-03 (570-118468-9[MS]) and UAX-03 (570-118468-9[MSD]). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260B: The method blank for analytical batch 570-284289 contained 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,4-Dichlorobenzene and Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: Internal standard (ISTD) response for TBA-d9 for the following sample in analytical batch 570-284289 was outside acceptance criteria: HEW-300 (570-118468-13). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Client Sample ID: LAX-02

Lab Sample ID: 570-118468-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.31	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: TB-112322

Lab Sample ID: 570-118468-2

No Detections.

Client Sample ID: LAX-03

Lab Sample ID: 570-118468-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.47	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: RB-112322

Lab Sample ID: 570-118468-4

No Detections.

Client Sample ID: LAX-01

Lab Sample ID: 570-118468-5

No Detections.

Client Sample ID: UAX-02

Lab Sample ID: 570-118468-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.0		0.50	0.21	ug/L	1		8260B	Total/NA
Trichloroethene	4.7		0.50	0.15	ug/L	1		8260B	Total/NA
1,4-Dioxane	1.4		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: UAX-01

Lab Sample ID: 570-118468-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.3		0.50	0.21	ug/L	1		8260B	Total/NA
Trichloroethene	2.9		0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: HEW-01

Lab Sample ID: 570-118468-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.1	J	5.0	2.1	ug/L	10		8260B	Total/NA
Tetrachloroethene	12		5.0	1.6	ug/L	10		8260B	Total/NA
Trichloroethene	800		5.0	1.5	ug/L	10		8260B	Total/NA
1,4-Dioxane	1.4		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: UAX-03

Lab Sample ID: 570-118468-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.56		0.50	0.21	ug/L	1		8260B	Total/NA
Trichloroethene	9.2		0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: HEW-04

Lab Sample ID: 570-118468-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.25	J	0.50	0.21	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.3		0.50	0.21	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.47	J	0.50	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.3		0.50	0.16	ug/L	1		8260B	Total/NA
Trichloroethene	81		0.50	0.15	ug/L	1		8260B	Total/NA
1,4-Dioxane	8.2		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Client Sample ID: HEW-05

Lab Sample ID: 570-118468-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.55	J	1.0	0.42	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	8.7		1.0	0.31	ug/L	2		8260B	Total/NA
Trichloroethene	110		1.0	0.31	ug/L	2		8260B	Total/NA

Client Sample ID: HEW-03

Lab Sample ID: 570-118468-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.48	J	1.0	0.42	ug/L	2		8260B	Total/NA
Tetrachloroethene	2.5		1.0	0.31	ug/L	2		8260B	Total/NA
Trichloroethene	110		1.0	0.31	ug/L	2		8260B	Total/NA

Client Sample ID: HEW-300

Lab Sample ID: 570-118468-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.45	J	1.0	0.42	ug/L	2		8260B	Total/NA
Tetrachloroethene	2.4		1.0	0.31	ug/L	2		8260B	Total/NA
Trichloroethene	100		1.0	0.31	ug/L	2		8260B	Total/NA
1,4-Dioxane	0.56		0.50	0.34	ug/L	1		8270C SIM ID	Total/NA

Client Sample ID: HEW-02

Lab Sample ID: 570-118468-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	99		1.0	0.31	ug/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LAX-02
Date Collected: 11/23/22 08:20
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 01:09	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/27/22 01:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 01:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 01:09	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 01:09	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/27/22 01:09	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			11/27/22 01:09	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/27/22 01:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 01:09	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 01:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 01:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 01:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 01:09	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 01:09	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 01:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 01:09	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 01:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 01:09	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 01:09	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 01:09	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 01:09	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 01:09	1
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 01:09	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/27/22 01:09	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 01:09	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 01:09	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 01:09	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 01:09	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 01:09	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 01:09	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 01:09	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 01:09	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 01:09	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 01:09	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/27/22 01:09	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			11/27/22 01:09	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/27/22 01:09	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 01:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/27/22 01:09	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 01:09	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 01:09	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 01:09	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 01:09	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 01:09	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 01:09	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/27/22 01:09	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 01:09	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 01:09	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 01:09	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-02
Date Collected: 11/23/22 08:20
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 01:09	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 01:09	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/27/22 01:09	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 01:09	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 01:09	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 01:09	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 01:09	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 01:09	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 01:09	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 01:09	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 01:09	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/27/22 01:09	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 01:09	1
Trichloroethene	0.31	J	0.50	0.15	ug/L			11/27/22 01:09	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 01:09	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 01:09	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		64 - 132		11/27/22 01:09	1
<i>4-Bromofluorobenzene (Surr)</i>	92		76 - 120		11/27/22 01:09	1
<i>Dibromofluoromethane</i>	99		80 - 120		11/27/22 01:09	1
<i>Toluene-d8 (Surr)</i>	98		80 - 120		11/27/22 01:09	1

Client Sample ID: TB-112322
Date Collected: 11/23/22 08:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 00:45	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/27/22 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 00:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 00:45	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 00:45	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/27/22 00:45	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			11/27/22 00:45	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/27/22 00:45	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 00:45	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 00:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 00:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 00:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 00:45	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 00:45	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 00:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 00:45	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 00:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 00:45	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 00:45	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 00:45	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 00:45	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 00:45	1

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: TB-112322
Date Collected: 11/23/22 08:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 00:45	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/27/22 00:45	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 00:45	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 00:45	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 00:45	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 00:45	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 00:45	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 00:45	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 00:45	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 00:45	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 00:45	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 00:45	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/27/22 00:45	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			11/27/22 00:45	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/27/22 00:45	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 00:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/27/22 00:45	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 00:45	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 00:45	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 00:45	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 00:45	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 00:45	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 00:45	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/27/22 00:45	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 00:45	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 00:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 00:45	1
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 00:45	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 00:45	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/27/22 00:45	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 00:45	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 00:45	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 00:45	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 00:45	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 00:45	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 00:45	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 00:45	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 00:45	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/27/22 00:45	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 00:45	1
Trichloroethene	ND		0.50	0.15	ug/L			11/27/22 00:45	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 00:45	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 00:45	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 132		11/27/22 00:45	1
4-Bromofluorobenzene (Surr)	90		76 - 120		11/27/22 00:45	1
Dibromofluoromethane	99		80 - 120		11/27/22 00:45	1
Toluene-d8 (Surr)	100		80 - 120		11/27/22 00:45	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LAX-03
Date Collected: 11/23/22 08:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 01:34	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/27/22 01:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 01:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 01:34	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 01:34	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/27/22 01:34	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			11/27/22 01:34	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/27/22 01:34	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 01:34	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 01:34	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 01:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 01:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 01:34	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 01:34	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 01:34	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 01:34	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 01:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 01:34	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 01:34	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 01:34	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 01:34	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 01:34	1
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 01:34	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/27/22 01:34	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 01:34	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 01:34	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 01:34	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 01:34	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 01:34	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 01:34	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 01:34	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 01:34	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 01:34	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 01:34	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/27/22 01:34	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			11/27/22 01:34	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/27/22 01:34	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 01:34	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/27/22 01:34	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 01:34	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 01:34	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 01:34	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 01:34	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 01:34	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 01:34	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/27/22 01:34	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 01:34	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 01:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 01:34	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-03
Date Collected: 11/23/22 08:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 01:34	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 01:34	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/27/22 01:34	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 01:34	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 01:34	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 01:34	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 01:34	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 01:34	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 01:34	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 01:34	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 01:34	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/27/22 01:34	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 01:34	1
Trichloroethene	0.47	J	0.50	0.15	ug/L			11/27/22 01:34	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 01:34	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 01:34	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		64 - 132		11/27/22 01:34	1
<i>4-Bromofluorobenzene (Surr)</i>	93		76 - 120		11/27/22 01:34	1
<i>Dibromofluoromethane</i>	96		80 - 120		11/27/22 01:34	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120		11/27/22 01:34	1

Client Sample ID: RB-112322
Date Collected: 11/23/22 09:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 01:58	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/27/22 01:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 01:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 01:58	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 01:58	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/27/22 01:58	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			11/27/22 01:58	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/27/22 01:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 01:58	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 01:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 01:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 01:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 01:58	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 01:58	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 01:58	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 01:58	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 01:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 01:58	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 01:58	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 01:58	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 01:58	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 01:58	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: RB-112322
Date Collected: 11/23/22 09:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 01:58	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/27/22 01:58	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 01:58	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 01:58	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 01:58	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 01:58	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 01:58	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 01:58	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 01:58	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 01:58	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 01:58	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 01:58	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/27/22 01:58	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			11/27/22 01:58	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/27/22 01:58	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 01:58	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/27/22 01:58	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 01:58	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 01:58	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 01:58	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 01:58	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 01:58	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 01:58	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/27/22 01:58	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 01:58	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 01:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 01:58	1
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 01:58	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 01:58	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/27/22 01:58	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 01:58	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 01:58	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 01:58	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 01:58	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 01:58	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 01:58	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 01:58	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 01:58	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/27/22 01:58	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 01:58	1
Trichloroethene	ND		0.50	0.15	ug/L			11/27/22 01:58	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 01:58	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 01:58	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		11/27/22 01:58	1
4-Bromofluorobenzene (Surr)	93		76 - 120		11/27/22 01:58	1
Dibromofluoromethane	102		80 - 120		11/27/22 01:58	1
Toluene-d8 (Surr)	101		80 - 120		11/27/22 01:58	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LAX-01
Date Collected: 11/23/22 09:50
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 02:22	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/27/22 02:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 02:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 02:22	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 02:22	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/27/22 02:22	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			11/27/22 02:22	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/27/22 02:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 02:22	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 02:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 02:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 02:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 02:22	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 02:22	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 02:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 02:22	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 02:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 02:22	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 02:22	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 02:22	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 02:22	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 02:22	1
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 02:22	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/27/22 02:22	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 02:22	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 02:22	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 02:22	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 02:22	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 02:22	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 02:22	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 02:22	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 02:22	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 02:22	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 02:22	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/27/22 02:22	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			11/27/22 02:22	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/27/22 02:22	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 02:22	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/27/22 02:22	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 02:22	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 02:22	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 02:22	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 02:22	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 02:22	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 02:22	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/27/22 02:22	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 02:22	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 02:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 02:22	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LAX-01
Date Collected: 11/23/22 09:50
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 02:22	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 02:22	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/27/22 02:22	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 02:22	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 02:22	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 02:22	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 02:22	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 02:22	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 02:22	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 02:22	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 02:22	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/27/22 02:22	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 02:22	1
Trichloroethene	ND		0.50	0.15	ug/L			11/27/22 02:22	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 02:22	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 02:22	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 132		11/27/22 02:22	1
4-Bromofluorobenzene (Surr)	90		76 - 120		11/27/22 02:22	1
Dibromofluoromethane	99		80 - 120		11/27/22 02:22	1
Toluene-d8 (Surr)	100		80 - 120		11/27/22 02:22	1

Client Sample ID: UAX-02
Date Collected: 11/23/22 10:15
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 02:46	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/27/22 02:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 02:46	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 02:46	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/27/22 02:46	1
1,1-Dichloroethene	4.0		0.50	0.21	ug/L			11/27/22 02:46	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/27/22 02:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 02:46	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 02:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 02:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 02:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 02:46	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 02:46	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 02:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 02:46	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 02:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 02:46	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 02:46	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 02:46	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 02:46	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 02:46	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-02
Date Collected: 11/23/22 10:15
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 02:46	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/27/22 02:46	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 02:46	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 02:46	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 02:46	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 02:46	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 02:46	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 02:46	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 02:46	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 02:46	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 02:46	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 02:46	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/27/22 02:46	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			11/27/22 02:46	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/27/22 02:46	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 02:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/27/22 02:46	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 02:46	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 02:46	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 02:46	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 02:46	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 02:46	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 02:46	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/27/22 02:46	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 02:46	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 02:46	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 02:46	1
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 02:46	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 02:46	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/27/22 02:46	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 02:46	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 02:46	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 02:46	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 02:46	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 02:46	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 02:46	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 02:46	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 02:46	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/27/22 02:46	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 02:46	1
Trichloroethene	4.7		0.50	0.15	ug/L			11/27/22 02:46	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 02:46	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 02:46	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 132		11/27/22 02:46	1
4-Bromofluorobenzene (Surr)	92		76 - 120		11/27/22 02:46	1
Dibromofluoromethane	100		80 - 120		11/27/22 02:46	1
Toluene-d8 (Surr)	102		80 - 120		11/27/22 02:46	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UAX-01
Date Collected: 11/23/22 10:35
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 03:11	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/27/22 03:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 03:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 03:11	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 03:11	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/27/22 03:11	1
1,1-Dichloroethene	2.3		0.50	0.21	ug/L			11/27/22 03:11	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/27/22 03:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 03:11	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 03:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 03:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 03:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 03:11	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 03:11	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 03:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 03:11	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 03:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 03:11	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 03:11	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 03:11	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 03:11	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 03:11	1
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 03:11	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/27/22 03:11	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 03:11	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 03:11	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 03:11	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 03:11	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 03:11	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 03:11	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 03:11	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 03:11	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 03:11	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 03:11	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/27/22 03:11	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			11/27/22 03:11	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/27/22 03:11	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 03:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/27/22 03:11	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 03:11	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 03:11	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 03:11	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 03:11	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 03:11	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 03:11	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/27/22 03:11	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 03:11	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 03:11	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 03:11	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-01
Date Collected: 11/23/22 10:35
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 03:11	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 03:11	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/27/22 03:11	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 03:11	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 03:11	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 03:11	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 03:11	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 03:11	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 03:11	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 03:11	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 03:11	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/27/22 03:11	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 03:11	1
Trichloroethene	2.9		0.50	0.15	ug/L			11/27/22 03:11	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 03:11	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 03:11	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 132		11/27/22 03:11	1
4-Bromofluorobenzene (Surr)	92		76 - 120		11/27/22 03:11	1
Dibromofluoromethane	99		80 - 120		11/27/22 03:11	1
Toluene-d8 (Surr)	103		80 - 120		11/27/22 03:11	1

Client Sample ID: HEW-01
Date Collected: 11/23/22 10:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	2.0	ug/L			11/27/22 03:59	10
1,1,1-Trichloroethane	ND		5.0	2.0	ug/L			11/27/22 03:59	10
1,1,2,2-Tetrachloroethane	ND		5.0	1.4	ug/L			11/27/22 03:59	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.5	ug/L			11/27/22 03:59	10
1,1,2-Trichloroethane	ND		5.0	1.8	ug/L			11/27/22 03:59	10
1,1-Dichloroethane	ND		5.0	2.1	ug/L			11/27/22 03:59	10
1,1-Dichloroethene	2.1	J	5.0	2.1	ug/L			11/27/22 03:59	10
1,1-Dichloropropene	ND		5.0	1.6	ug/L			11/27/22 03:59	10
1,2,3-Trichlorobenzene	ND		5.0	2.6	ug/L			11/27/22 03:59	10
1,2,3-Trichloropropane	ND		5.0	3.1	ug/L			11/27/22 03:59	10
1,2,4-Trichlorobenzene	ND		5.0	2.6	ug/L			11/27/22 03:59	10
1,2,4-Trimethylbenzene	ND		5.0	2.2	ug/L			11/27/22 03:59	10
1,2-Dibromo-3-Chloropropane	ND		10	8.4	ug/L			11/27/22 03:59	10
1,2-Dibromoethane	ND		5.0	2.7	ug/L			11/27/22 03:59	10
1,2-Dichlorobenzene	ND		5.0	1.4	ug/L			11/27/22 03:59	10
1,2-Dichloroethane	ND		5.0	1.4	ug/L			11/27/22 03:59	10
1,2-Dichloropropane	ND		5.0	1.4	ug/L			11/27/22 03:59	10
1,3,5-Trimethylbenzene	ND		5.0	1.9	ug/L			11/27/22 03:59	10
1,3-Dichlorobenzene	ND		5.0	1.6	ug/L			11/27/22 03:59	10
1,3-Dichloropropane	ND		5.0	1.9	ug/L			11/27/22 03:59	10
1,4-Dichlorobenzene	ND		5.0	1.1	ug/L			11/27/22 03:59	10
2,2-Dichloropropane	ND		5.0	2.6	ug/L			11/27/22 03:59	10

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-01
Date Collected: 11/23/22 10:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		50	29	ug/L			11/27/22 03:59	10
2-Chlorotoluene	ND		5.0	2.3	ug/L			11/27/22 03:59	10
2-Hexanone	ND		60	20	ug/L			11/27/22 03:59	10
4-Chlorotoluene	ND		5.0	2.4	ug/L			11/27/22 03:59	10
4-Methyl-2-pentanone	ND		50	16	ug/L			11/27/22 03:59	10
Acetone	ND		80	36	ug/L			11/27/22 03:59	10
Benzene	ND		5.0	1.4	ug/L			11/27/22 03:59	10
Bromobenzene	ND		5.0	1.4	ug/L			11/27/22 03:59	10
Bromochloromethane	ND		10	2.7	ug/L			11/27/22 03:59	10
Bromodichloromethane	ND		5.0	1.5	ug/L			11/27/22 03:59	10
Bromoform	ND		5.0	2.8	ug/L			11/27/22 03:59	10
Bromomethane	ND		20	19	ug/L			11/27/22 03:59	10
cis-1,2-Dichloroethene	ND		5.0	1.6	ug/L			11/27/22 03:59	10
cis-1,3-Dichloropropene	ND		5.0	1.5	ug/L			11/27/22 03:59	10
Carbon disulfide	ND		10	3.2	ug/L			11/27/22 03:59	10
Carbon tetrachloride	ND		5.0	2.7	ug/L			11/27/22 03:59	10
Chlorobenzene	ND		5.0	1.2	ug/L			11/27/22 03:59	10
Chloroethane	ND		5.0	3.8	ug/L			11/27/22 03:59	10
Chloroform	ND		5.0	1.7	ug/L			11/27/22 03:59	10
Chloromethane	ND		10	6.5	ug/L			11/27/22 03:59	10
Dibromochloromethane	ND		5.0	2.1	ug/L			11/27/22 03:59	10
Dibromomethane	ND		5.0	1.6	ug/L			11/27/22 03:59	10
Dichlorodifluoromethane	ND		10	5.1	ug/L			11/27/22 03:59	10
Ethylbenzene	ND		5.0	1.6	ug/L			11/27/22 03:59	10
Isopropylbenzene	ND		5.0	2.1	ug/L			11/27/22 03:59	10
Methylene Chloride	ND		10	4.0	ug/L			11/27/22 03:59	10
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.4	ug/L			11/27/22 03:59	10
Naphthalene	ND		10	5.5	ug/L			11/27/22 03:59	10
n-Butylbenzene	ND		5.0	2.4	ug/L			11/27/22 03:59	10
N-Propylbenzene	ND		5.0	1.8	ug/L			11/27/22 03:59	10
o-Xylene	ND		5.0	1.8	ug/L			11/27/22 03:59	10
m,p-Xylene	ND		10	3.9	ug/L			11/27/22 03:59	10
p-Isopropyltoluene	ND		5.0	2.0	ug/L			11/27/22 03:59	10
sec-Butylbenzene	ND		5.0	2.0	ug/L			11/27/22 03:59	10
Styrene	ND		5.0	2.7	ug/L			11/27/22 03:59	10
trans-1,2-Dichloroethene	ND		5.0	2.2	ug/L			11/27/22 03:59	10
trans-1,3-Dichloropropene	ND		5.0	2.1	ug/L			11/27/22 03:59	10
tert-Butylbenzene	ND		5.0	2.1	ug/L			11/27/22 03:59	10
Tetrachloroethene	12		5.0	1.6	ug/L			11/27/22 03:59	10
Toluene	ND		5.0	1.4	ug/L			11/27/22 03:59	10
Trichloroethene	800		5.0	1.5	ug/L			11/27/22 03:59	10
Trichlorofluoromethane	ND		5.0	2.6	ug/L			11/27/22 03:59	10
Vinyl acetate	ND		50	32	ug/L			11/27/22 03:59	10
Vinyl chloride	ND		5.0	2.3	ug/L			11/27/22 03:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		11/27/22 03:59	10
4-Bromofluorobenzene (Surr)	89		76 - 120		11/27/22 03:59	10
Dibromofluoromethane	102		80 - 120		11/27/22 03:59	10
Toluene-d8 (Surr)	108		80 - 120		11/27/22 03:59	10

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: UAX-03
Date Collected: 11/23/22 11:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 03:35	1
1,1,1-Trichloroethane	ND	F1	0.50	0.20	ug/L			11/27/22 03:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 03:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 03:35	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 03:35	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/27/22 03:35	1
1,1-Dichloroethene	0.56		0.50	0.21	ug/L			11/27/22 03:35	1
1,1-Dichloropropene	ND	F1	0.50	0.16	ug/L			11/27/22 03:35	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 03:35	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 03:35	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 03:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 03:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 03:35	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 03:35	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 03:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 03:35	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 03:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 03:35	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 03:35	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 03:35	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 03:35	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 03:35	1
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 03:35	1
2-Chlorotoluene	ND	F1	0.50	0.23	ug/L			11/27/22 03:35	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 03:35	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 03:35	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 03:35	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 03:35	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 03:35	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 03:35	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 03:35	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 03:35	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 03:35	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 03:35	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/27/22 03:35	1
cis-1,3-Dichloropropane	ND		0.50	0.15	ug/L			11/27/22 03:35	1
Carbon disulfide	ND	F1	1.0	0.32	ug/L			11/27/22 03:35	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 03:35	1
Chlorobenzene	ND	F1	0.50	0.12	ug/L			11/27/22 03:35	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 03:35	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 03:35	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 03:35	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 03:35	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 03:35	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 03:35	1
Ethylbenzene	ND	F1	0.50	0.16	ug/L			11/27/22 03:35	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 03:35	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 03:35	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 03:35	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: UAX-03
Date Collected: 11/23/22 11:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 03:35	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 03:35	1
N-Propylbenzene	ND	F1	0.50	0.18	ug/L			11/27/22 03:35	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 03:35	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 03:35	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 03:35	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 03:35	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 03:35	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 03:35	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 03:35	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 03:35	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/27/22 03:35	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 03:35	1
Trichloroethene	9.2		0.50	0.15	ug/L			11/27/22 03:35	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 03:35	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 03:35	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 132		11/27/22 03:35	1
4-Bromofluorobenzene (Surr)	92		76 - 120		11/27/22 03:35	1
Dibromofluoromethane	103		80 - 120		11/27/22 03:35	1
Toluene-d8 (Surr)	102		80 - 120		11/27/22 03:35	1

Client Sample ID: HEW-04
Date Collected: 11/23/22 11:25
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/27/22 04:23	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/27/22 04:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/27/22 04:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/27/22 04:23	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/27/22 04:23	1
1,1-Dichloroethane	0.25	J	0.50	0.21	ug/L			11/27/22 04:23	1
1,1-Dichloroethene	1.3		0.50	0.21	ug/L			11/27/22 04:23	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/27/22 04:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 04:23	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/27/22 04:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			11/27/22 04:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/27/22 04:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/27/22 04:23	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/27/22 04:23	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/27/22 04:23	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/27/22 04:23	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/27/22 04:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/27/22 04:23	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/27/22 04:23	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/27/22 04:23	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			11/27/22 04:23	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/27/22 04:23	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-04
Date Collected: 11/23/22 11:25
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		5.0	2.9	ug/L			11/27/22 04:23	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/27/22 04:23	1
2-Hexanone	ND		6.0	2.0	ug/L			11/27/22 04:23	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/27/22 04:23	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/27/22 04:23	1
Acetone	ND		8.0	3.6	ug/L			11/27/22 04:23	1
Benzene	ND		0.50	0.14	ug/L			11/27/22 04:23	1
Bromobenzene	ND		0.50	0.14	ug/L			11/27/22 04:23	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/27/22 04:23	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/27/22 04:23	1
Bromoform	ND		0.50	0.28	ug/L			11/27/22 04:23	1
Bromomethane	ND		2.0	1.9	ug/L			11/27/22 04:23	1
cis-1,2-Dichloroethene	0.47	J	0.50	0.16	ug/L			11/27/22 04:23	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			11/27/22 04:23	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/27/22 04:23	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/27/22 04:23	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/27/22 04:23	1
Chloroethane	ND		0.50	0.38	ug/L			11/27/22 04:23	1
Chloroform	ND		0.50	0.17	ug/L			11/27/22 04:23	1
Chloromethane	ND		1.0	0.65	ug/L			11/27/22 04:23	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/27/22 04:23	1
Dibromomethane	ND		0.50	0.16	ug/L			11/27/22 04:23	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/27/22 04:23	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/27/22 04:23	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/27/22 04:23	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/27/22 04:23	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/27/22 04:23	1
Naphthalene	ND		1.0	0.55	ug/L			11/27/22 04:23	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/27/22 04:23	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/27/22 04:23	1
o-Xylene	ND		0.50	0.18	ug/L			11/27/22 04:23	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/27/22 04:23	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/27/22 04:23	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/27/22 04:23	1
Styrene	ND		0.50	0.27	ug/L			11/27/22 04:23	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/27/22 04:23	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/27/22 04:23	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/27/22 04:23	1
Tetrachloroethene	1.3		0.50	0.16	ug/L			11/27/22 04:23	1
Toluene	ND		0.50	0.14	ug/L			11/27/22 04:23	1
Trichloroethene	81		0.50	0.15	ug/L			11/27/22 04:23	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/27/22 04:23	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/27/22 04:23	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/27/22 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 132		11/27/22 04:23	1
4-Bromofluorobenzene (Surr)	88		76 - 120		11/27/22 04:23	1
Dibromofluoromethane	100		80 - 120		11/27/22 04:23	1
Toluene-d8 (Surr)	104		80 - 120		11/27/22 04:23	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-05
Date Collected: 11/23/22 11:40
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/L			11/27/22 04:47	2
1,1,1-Trichloroethane	ND		1.0	0.40	ug/L			11/27/22 04:47	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.27	ug/L			11/27/22 04:47	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			11/27/22 04:47	2
1,1,2-Trichloroethane	ND		1.0	0.36	ug/L			11/27/22 04:47	2
1,1-Dichloroethane	ND		1.0	0.42	ug/L			11/27/22 04:47	2
1,1-Dichloroethene	0.55	J	1.0	0.42	ug/L			11/27/22 04:47	2
1,1-Dichloropropene	ND		1.0	0.32	ug/L			11/27/22 04:47	2
1,2,3-Trichlorobenzene	ND		1.0	0.52	ug/L			11/27/22 04:47	2
1,2,3-Trichloropropane	ND		1.0	0.62	ug/L			11/27/22 04:47	2
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L			11/27/22 04:47	2
1,2,4-Trimethylbenzene	ND		1.0	0.45	ug/L			11/27/22 04:47	2
1,2-Dibromo-3-Chloropropane	ND		2.0	1.7	ug/L			11/27/22 04:47	2
1,2-Dibromoethane	ND		1.0	0.53	ug/L			11/27/22 04:47	2
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/27/22 04:47	2
1,2-Dichloroethane	ND		1.0	0.27	ug/L			11/27/22 04:47	2
1,2-Dichloropropane	ND		1.0	0.29	ug/L			11/27/22 04:47	2
1,3,5-Trimethylbenzene	ND		1.0	0.37	ug/L			11/27/22 04:47	2
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			11/27/22 04:47	2
1,3-Dichloropropane	ND		1.0	0.38	ug/L			11/27/22 04:47	2
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			11/27/22 04:47	2
2,2-Dichloropropane	ND		1.0	0.51	ug/L			11/27/22 04:47	2
2-Butanone	ND		10	5.7	ug/L			11/27/22 04:47	2
2-Chlorotoluene	ND		1.0	0.46	ug/L			11/27/22 04:47	2
2-Hexanone	ND		12	4.1	ug/L			11/27/22 04:47	2
4-Chlorotoluene	ND		1.0	0.48	ug/L			11/27/22 04:47	2
4-Methyl-2-pentanone	ND		10	3.3	ug/L			11/27/22 04:47	2
Acetone	ND		16	7.1	ug/L			11/27/22 04:47	2
Benzene	ND		1.0	0.28	ug/L			11/27/22 04:47	2
Bromobenzene	ND		1.0	0.28	ug/L			11/27/22 04:47	2
Bromochloromethane	ND		2.0	0.55	ug/L			11/27/22 04:47	2
Bromodichloromethane	ND		1.0	0.31	ug/L			11/27/22 04:47	2
Bromoform	ND		1.0	0.57	ug/L			11/27/22 04:47	2
Bromomethane	ND		4.0	3.7	ug/L			11/27/22 04:47	2
cis-1,2-Dichloroethene	8.7		1.0	0.31	ug/L			11/27/22 04:47	2
cis-1,3-Dichloropropene	ND		1.0	0.31	ug/L			11/27/22 04:47	2
Carbon disulfide	ND		2.0	0.65	ug/L			11/27/22 04:47	2
Carbon tetrachloride	ND		1.0	0.54	ug/L			11/27/22 04:47	2
Chlorobenzene	ND		1.0	0.24	ug/L			11/27/22 04:47	2
Chloroethane	ND		1.0	0.75	ug/L			11/27/22 04:47	2
Chloroform	ND		1.0	0.34	ug/L			11/27/22 04:47	2
Chloromethane	ND		2.0	1.3	ug/L			11/27/22 04:47	2
Dibromochloromethane	ND		1.0	0.42	ug/L			11/27/22 04:47	2
Dibromomethane	ND		1.0	0.32	ug/L			11/27/22 04:47	2
Dichlorodifluoromethane	ND		2.0	1.0	ug/L			11/27/22 04:47	2
Ethylbenzene	ND		1.0	0.33	ug/L			11/27/22 04:47	2
Isopropylbenzene	ND		1.0	0.42	ug/L			11/27/22 04:47	2
Methylene Chloride	ND		2.0	0.81	ug/L			11/27/22 04:47	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.28	ug/L			11/27/22 04:47	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-05
Date Collected: 11/23/22 11:40
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	1.1	ug/L			11/27/22 04:47	2
n-Butylbenzene	ND		1.0	0.48	ug/L			11/27/22 04:47	2
N-Propylbenzene	ND		1.0	0.35	ug/L			11/27/22 04:47	2
o-Xylene	ND		1.0	0.36	ug/L			11/27/22 04:47	2
m,p-Xylene	ND		2.0	0.79	ug/L			11/27/22 04:47	2
p-Isopropyltoluene	ND		1.0	0.40	ug/L			11/27/22 04:47	2
sec-Butylbenzene	ND		1.0	0.39	ug/L			11/27/22 04:47	2
Styrene	ND		1.0	0.55	ug/L			11/27/22 04:47	2
trans-1,2-Dichloroethene	ND		1.0	0.44	ug/L			11/27/22 04:47	2
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			11/27/22 04:47	2
tert-Butylbenzene	ND		1.0	0.41	ug/L			11/27/22 04:47	2
Tetrachloroethene	ND		1.0	0.31	ug/L			11/27/22 04:47	2
Toluene	ND		1.0	0.28	ug/L			11/27/22 04:47	2
Trichloroethene	110		1.0	0.31	ug/L			11/27/22 04:47	2
Trichlorofluoromethane	ND		1.0	0.52	ug/L			11/27/22 04:47	2
Vinyl acetate	ND		10	6.4	ug/L			11/27/22 04:47	2
Vinyl chloride	ND		1.0	0.45	ug/L			11/27/22 04:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 132		11/27/22 04:47	2
4-Bromofluorobenzene (Surr)	87		76 - 120		11/27/22 04:47	2
Dibromofluoromethane	103		80 - 120		11/27/22 04:47	2
Toluene-d8 (Surr)	104		80 - 120		11/27/22 04:47	2

Client Sample ID: HEW-03
Date Collected: 11/23/22 12:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/L			11/27/22 05:12	2
1,1,1-Trichloroethane	ND		1.0	0.40	ug/L			11/27/22 05:12	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.27	ug/L			11/27/22 05:12	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			11/27/22 05:12	2
1,1,2-Trichloroethane	ND		1.0	0.36	ug/L			11/27/22 05:12	2
1,1-Dichloroethane	ND		1.0	0.42	ug/L			11/27/22 05:12	2
1,1-Dichloroethene	0.48	J	1.0	0.42	ug/L			11/27/22 05:12	2
1,1-Dichloropropene	ND		1.0	0.32	ug/L			11/27/22 05:12	2
1,2,3-Trichlorobenzene	ND		1.0	0.52	ug/L			11/27/22 05:12	2
1,2,3-Trichloropropane	ND		1.0	0.62	ug/L			11/27/22 05:12	2
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L			11/27/22 05:12	2
1,2,4-Trimethylbenzene	ND		1.0	0.45	ug/L			11/27/22 05:12	2
1,2-Dibromo-3-Chloropropane	ND		2.0	1.7	ug/L			11/27/22 05:12	2
1,2-Dibromoethane	ND		1.0	0.53	ug/L			11/27/22 05:12	2
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/27/22 05:12	2
1,2-Dichloroethane	ND		1.0	0.27	ug/L			11/27/22 05:12	2
1,2-Dichloropropane	ND		1.0	0.29	ug/L			11/27/22 05:12	2
1,3,5-Trimethylbenzene	ND		1.0	0.37	ug/L			11/27/22 05:12	2
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			11/27/22 05:12	2
1,3-Dichloropropane	ND		1.0	0.38	ug/L			11/27/22 05:12	2
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			11/27/22 05:12	2
2,2-Dichloropropane	ND		1.0	0.51	ug/L			11/27/22 05:12	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-03
Date Collected: 11/23/22 12:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	5.7	ug/L			11/27/22 05:12	2
2-Chlorotoluene	ND		1.0	0.46	ug/L			11/27/22 05:12	2
2-Hexanone	ND		12	4.1	ug/L			11/27/22 05:12	2
4-Chlorotoluene	ND		1.0	0.48	ug/L			11/27/22 05:12	2
4-Methyl-2-pentanone	ND		10	3.3	ug/L			11/27/22 05:12	2
Acetone	ND		16	7.1	ug/L			11/27/22 05:12	2
Benzene	ND		1.0	0.28	ug/L			11/27/22 05:12	2
Bromobenzene	ND		1.0	0.28	ug/L			11/27/22 05:12	2
Bromochloromethane	ND		2.0	0.55	ug/L			11/27/22 05:12	2
Bromodichloromethane	ND		1.0	0.31	ug/L			11/27/22 05:12	2
Bromoform	ND		1.0	0.57	ug/L			11/27/22 05:12	2
Bromomethane	ND		4.0	3.7	ug/L			11/27/22 05:12	2
cis-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/27/22 05:12	2
cis-1,3-Dichloropropene	ND		1.0	0.31	ug/L			11/27/22 05:12	2
Carbon disulfide	ND		2.0	0.65	ug/L			11/27/22 05:12	2
Carbon tetrachloride	ND		1.0	0.54	ug/L			11/27/22 05:12	2
Chlorobenzene	ND		1.0	0.24	ug/L			11/27/22 05:12	2
Chloroethane	ND		1.0	0.75	ug/L			11/27/22 05:12	2
Chloroform	ND		1.0	0.34	ug/L			11/27/22 05:12	2
Chloromethane	ND		2.0	1.3	ug/L			11/27/22 05:12	2
Dibromochloromethane	ND		1.0	0.42	ug/L			11/27/22 05:12	2
Dibromomethane	ND		1.0	0.32	ug/L			11/27/22 05:12	2
Dichlorodifluoromethane	ND		2.0	1.0	ug/L			11/27/22 05:12	2
Ethylbenzene	ND		1.0	0.33	ug/L			11/27/22 05:12	2
Isopropylbenzene	ND		1.0	0.42	ug/L			11/27/22 05:12	2
Methylene Chloride	ND		2.0	0.81	ug/L			11/27/22 05:12	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.28	ug/L			11/27/22 05:12	2
Naphthalene	ND		2.0	1.1	ug/L			11/27/22 05:12	2
n-Butylbenzene	ND		1.0	0.48	ug/L			11/27/22 05:12	2
N-Propylbenzene	ND		1.0	0.35	ug/L			11/27/22 05:12	2
o-Xylene	ND		1.0	0.36	ug/L			11/27/22 05:12	2
m,p-Xylene	ND		2.0	0.79	ug/L			11/27/22 05:12	2
p-Isopropyltoluene	ND		1.0	0.40	ug/L			11/27/22 05:12	2
sec-Butylbenzene	ND		1.0	0.39	ug/L			11/27/22 05:12	2
Styrene	ND		1.0	0.55	ug/L			11/27/22 05:12	2
trans-1,2-Dichloroethene	ND		1.0	0.44	ug/L			11/27/22 05:12	2
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			11/27/22 05:12	2
tert-Butylbenzene	ND		1.0	0.41	ug/L			11/27/22 05:12	2
Tetrachloroethene	2.5		1.0	0.31	ug/L			11/27/22 05:12	2
Toluene	ND		1.0	0.28	ug/L			11/27/22 05:12	2
Trichloroethene	110		1.0	0.31	ug/L			11/27/22 05:12	2
Trichlorofluoromethane	ND		1.0	0.52	ug/L			11/27/22 05:12	2
Vinyl acetate	ND		10	6.4	ug/L			11/27/22 05:12	2
Vinyl chloride	ND		1.0	0.45	ug/L			11/27/22 05:12	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 132		11/27/22 05:12	2
4-Bromofluorobenzene (Surr)	91		76 - 120		11/27/22 05:12	2
Dibromofluoromethane	99		80 - 120		11/27/22 05:12	2
Toluene-d8 (Surr)	107		80 - 120		11/27/22 05:12	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: HEW-300
Date Collected: 11/23/22 12:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/L			11/27/22 05:36	2
1,1,1-Trichloroethane	ND		1.0	0.40	ug/L			11/27/22 05:36	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.27	ug/L			11/27/22 05:36	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			11/27/22 05:36	2
1,1,2-Trichloroethane	ND		1.0	0.36	ug/L			11/27/22 05:36	2
1,1-Dichloroethane	ND		1.0	0.42	ug/L			11/27/22 05:36	2
1,1-Dichloroethene	0.45	J	1.0	0.42	ug/L			11/27/22 05:36	2
1,1-Dichloropropene	ND		1.0	0.32	ug/L			11/27/22 05:36	2
1,2,3-Trichlorobenzene	ND		1.0	0.52	ug/L			11/27/22 05:36	2
1,2,3-Trichloropropane	ND		1.0	0.62	ug/L			11/27/22 05:36	2
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L			11/27/22 05:36	2
1,2,4-Trimethylbenzene	ND		1.0	0.45	ug/L			11/27/22 05:36	2
1,2-Dibromo-3-Chloropropane	ND		2.0	1.7	ug/L			11/27/22 05:36	2
1,2-Dibromoethane	ND		1.0	0.53	ug/L			11/27/22 05:36	2
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/27/22 05:36	2
1,2-Dichloroethane	ND		1.0	0.27	ug/L			11/27/22 05:36	2
1,2-Dichloropropane	ND		1.0	0.29	ug/L			11/27/22 05:36	2
1,3,5-Trimethylbenzene	ND		1.0	0.37	ug/L			11/27/22 05:36	2
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			11/27/22 05:36	2
1,3-Dichloropropane	ND		1.0	0.38	ug/L			11/27/22 05:36	2
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			11/27/22 05:36	2
2,2-Dichloropropane	ND		1.0	0.51	ug/L			11/27/22 05:36	2
2-Butanone	ND		10	5.7	ug/L			11/27/22 05:36	2
2-Chlorotoluene	ND		1.0	0.46	ug/L			11/27/22 05:36	2
2-Hexanone	ND		12	4.1	ug/L			11/27/22 05:36	2
4-Chlorotoluene	ND		1.0	0.48	ug/L			11/27/22 05:36	2
4-Methyl-2-pentanone	ND		10	3.3	ug/L			11/27/22 05:36	2
Acetone	ND		16	7.1	ug/L			11/27/22 05:36	2
Benzene	ND		1.0	0.28	ug/L			11/27/22 05:36	2
Bromobenzene	ND		1.0	0.28	ug/L			11/27/22 05:36	2
Bromochloromethane	ND		2.0	0.55	ug/L			11/27/22 05:36	2
Bromodichloromethane	ND		1.0	0.31	ug/L			11/27/22 05:36	2
Bromoform	ND		1.0	0.57	ug/L			11/27/22 05:36	2
Bromomethane	ND		4.0	3.7	ug/L			11/27/22 05:36	2
cis-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/27/22 05:36	2
cis-1,3-Dichloropropene	ND		1.0	0.31	ug/L			11/27/22 05:36	2
Carbon disulfide	ND		2.0	0.65	ug/L			11/27/22 05:36	2
Carbon tetrachloride	ND		1.0	0.54	ug/L			11/27/22 05:36	2
Chlorobenzene	ND		1.0	0.24	ug/L			11/27/22 05:36	2
Chloroethane	ND		1.0	0.75	ug/L			11/27/22 05:36	2
Chloroform	ND		1.0	0.34	ug/L			11/27/22 05:36	2
Chloromethane	ND		2.0	1.3	ug/L			11/27/22 05:36	2
Dibromochloromethane	ND		1.0	0.42	ug/L			11/27/22 05:36	2
Dibromomethane	ND		1.0	0.32	ug/L			11/27/22 05:36	2
Dichlorodifluoromethane	ND		2.0	1.0	ug/L			11/27/22 05:36	2
Ethylbenzene	ND		1.0	0.33	ug/L			11/27/22 05:36	2
Isopropylbenzene	ND		1.0	0.42	ug/L			11/27/22 05:36	2
Methylene Chloride	ND		2.0	0.81	ug/L			11/27/22 05:36	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.28	ug/L			11/27/22 05:36	2

Eurofins Calscience

Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-300
Date Collected: 11/23/22 12:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	1.1	ug/L			11/27/22 05:36	2
n-Butylbenzene	ND		1.0	0.48	ug/L			11/27/22 05:36	2
N-Propylbenzene	ND		1.0	0.35	ug/L			11/27/22 05:36	2
o-Xylene	ND		1.0	0.36	ug/L			11/27/22 05:36	2
m,p-Xylene	ND		2.0	0.79	ug/L			11/27/22 05:36	2
p-Isopropyltoluene	ND		1.0	0.40	ug/L			11/27/22 05:36	2
sec-Butylbenzene	ND		1.0	0.39	ug/L			11/27/22 05:36	2
Styrene	ND		1.0	0.55	ug/L			11/27/22 05:36	2
trans-1,2-Dichloroethene	ND		1.0	0.44	ug/L			11/27/22 05:36	2
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			11/27/22 05:36	2
tert-Butylbenzene	ND		1.0	0.41	ug/L			11/27/22 05:36	2
Tetrachloroethene	2.4		1.0	0.31	ug/L			11/27/22 05:36	2
Toluene	ND		1.0	0.28	ug/L			11/27/22 05:36	2
Trichloroethene	100		1.0	0.31	ug/L			11/27/22 05:36	2
Trichlorofluoromethane	ND		1.0	0.52	ug/L			11/27/22 05:36	2
Vinyl acetate	ND		10	6.4	ug/L			11/27/22 05:36	2
Vinyl chloride	ND		1.0	0.45	ug/L			11/27/22 05:36	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 132		11/27/22 05:36	2
4-Bromofluorobenzene (Surr)	88		76 - 120		11/27/22 05:36	2
Dibromofluoromethane	101		80 - 120		11/27/22 05:36	2
Toluene-d8 (Surr)	104		80 - 120		11/27/22 05:36	2

Client Sample ID: HEW-02
Date Collected: 11/23/22 12:10
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/L			11/27/22 06:00	2
1,1,1-Trichloroethane	ND		1.0	0.40	ug/L			11/27/22 06:00	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.27	ug/L			11/27/22 06:00	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.50	ug/L			11/27/22 06:00	2
1,1,2-Trichloroethane	ND		1.0	0.36	ug/L			11/27/22 06:00	2
1,1-Dichloroethane	ND		1.0	0.42	ug/L			11/27/22 06:00	2
1,1-Dichloroethene	ND		1.0	0.42	ug/L			11/27/22 06:00	2
1,1-Dichloropropene	ND		1.0	0.32	ug/L			11/27/22 06:00	2
1,2,3-Trichlorobenzene	ND		1.0	0.52	ug/L			11/27/22 06:00	2
1,2,3-Trichloropropane	ND		1.0	0.62	ug/L			11/27/22 06:00	2
1,2,4-Trichlorobenzene	ND		1.0	0.52	ug/L			11/27/22 06:00	2
1,2,4-Trimethylbenzene	ND		1.0	0.45	ug/L			11/27/22 06:00	2
1,2-Dibromo-3-Chloropropane	ND		2.0	1.7	ug/L			11/27/22 06:00	2
1,2-Dibromoethane	ND		1.0	0.53	ug/L			11/27/22 06:00	2
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/27/22 06:00	2
1,2-Dichloroethane	ND		1.0	0.27	ug/L			11/27/22 06:00	2
1,2-Dichloropropane	ND		1.0	0.29	ug/L			11/27/22 06:00	2
1,3,5-Trimethylbenzene	ND		1.0	0.37	ug/L			11/27/22 06:00	2
1,3-Dichlorobenzene	ND		1.0	0.32	ug/L			11/27/22 06:00	2
1,3-Dichloropropane	ND		1.0	0.38	ug/L			11/27/22 06:00	2
1,4-Dichlorobenzene	ND		1.0	0.23	ug/L			11/27/22 06:00	2
2,2-Dichloropropane	ND		1.0	0.51	ug/L			11/27/22 06:00	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: HEW-02
Date Collected: 11/23/22 12:10
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10	5.7	ug/L			11/27/22 06:00	2
2-Chlorotoluene	ND		1.0	0.46	ug/L			11/27/22 06:00	2
2-Hexanone	ND		12	4.1	ug/L			11/27/22 06:00	2
4-Chlorotoluene	ND		1.0	0.48	ug/L			11/27/22 06:00	2
4-Methyl-2-pentanone	ND		10	3.3	ug/L			11/27/22 06:00	2
Acetone	ND		16	7.1	ug/L			11/27/22 06:00	2
Benzene	ND		1.0	0.28	ug/L			11/27/22 06:00	2
Bromobenzene	ND		1.0	0.28	ug/L			11/27/22 06:00	2
Bromochloromethane	ND		2.0	0.55	ug/L			11/27/22 06:00	2
Bromodichloromethane	ND		1.0	0.31	ug/L			11/27/22 06:00	2
Bromoform	ND		1.0	0.57	ug/L			11/27/22 06:00	2
Bromomethane	ND		4.0	3.7	ug/L			11/27/22 06:00	2
cis-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/27/22 06:00	2
cis-1,3-Dichloropropene	ND		1.0	0.31	ug/L			11/27/22 06:00	2
Carbon disulfide	ND		2.0	0.65	ug/L			11/27/22 06:00	2
Carbon tetrachloride	ND		1.0	0.54	ug/L			11/27/22 06:00	2
Chlorobenzene	ND		1.0	0.24	ug/L			11/27/22 06:00	2
Chloroethane	ND		1.0	0.75	ug/L			11/27/22 06:00	2
Chloroform	ND		1.0	0.34	ug/L			11/27/22 06:00	2
Chloromethane	ND		2.0	1.3	ug/L			11/27/22 06:00	2
Dibromochloromethane	ND		1.0	0.42	ug/L			11/27/22 06:00	2
Dibromomethane	ND		1.0	0.32	ug/L			11/27/22 06:00	2
Dichlorodifluoromethane	ND		2.0	1.0	ug/L			11/27/22 06:00	2
Ethylbenzene	ND		1.0	0.33	ug/L			11/27/22 06:00	2
Isopropylbenzene	ND		1.0	0.42	ug/L			11/27/22 06:00	2
Methylene Chloride	ND		2.0	0.81	ug/L			11/27/22 06:00	2
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.28	ug/L			11/27/22 06:00	2
Naphthalene	ND		2.0	1.1	ug/L			11/27/22 06:00	2
n-Butylbenzene	ND		1.0	0.48	ug/L			11/27/22 06:00	2
N-Propylbenzene	ND		1.0	0.35	ug/L			11/27/22 06:00	2
o-Xylene	ND		1.0	0.36	ug/L			11/27/22 06:00	2
m,p-Xylene	ND		2.0	0.79	ug/L			11/27/22 06:00	2
p-Isopropyltoluene	ND		1.0	0.40	ug/L			11/27/22 06:00	2
sec-Butylbenzene	ND		1.0	0.39	ug/L			11/27/22 06:00	2
Styrene	ND		1.0	0.55	ug/L			11/27/22 06:00	2
trans-1,2-Dichloroethene	ND		1.0	0.44	ug/L			11/27/22 06:00	2
trans-1,3-Dichloropropene	ND		1.0	0.42	ug/L			11/27/22 06:00	2
tert-Butylbenzene	ND		1.0	0.41	ug/L			11/27/22 06:00	2
Tetrachloroethene	ND		1.0	0.31	ug/L			11/27/22 06:00	2
Toluene	ND		1.0	0.28	ug/L			11/27/22 06:00	2
Trichloroethene	99		1.0	0.31	ug/L			11/27/22 06:00	2
Trichlorofluoromethane	ND		1.0	0.52	ug/L			11/27/22 06:00	2
Vinyl acetate	ND		10	6.4	ug/L			11/27/22 06:00	2
Vinyl chloride	ND		1.0	0.45	ug/L			11/27/22 06:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 132		11/27/22 06:00	2
4-Bromofluorobenzene (Surr)	89		76 - 120		11/27/22 06:00	2
Dibromofluoromethane	105		80 - 120		11/27/22 06:00	2
Toluene-d8 (Surr)	105		80 - 120		11/27/22 06:00	2

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: LAX-02
Date Collected: 11/23/22 08:20
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 05:45	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	56		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	114		58 - 135						
							Prepared	Analyzed	Dil Fac
							11/28/22 18:54	11/29/22 05:45	1

Client Sample ID: LAX-03
Date Collected: 11/23/22 08:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 05:59	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	61		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	103		58 - 135						
							Prepared	Analyzed	Dil Fac
							11/28/22 18:54	11/29/22 05:59	1

Client Sample ID: LAX-01
Date Collected: 11/23/22 09:50
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 06:14	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	52		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	105		58 - 135						
							Prepared	Analyzed	Dil Fac
							11/28/22 18:54	11/29/22 06:14	1

Client Sample ID: UAX-02
Date Collected: 11/23/22 10:15
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.4		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 06:28	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	57		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	102		58 - 135						
							Prepared	Analyzed	Dil Fac
							11/28/22 18:54	11/29/22 06:28	1

Client Sample ID: UAX-01
Date Collected: 11/23/22 10:35
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 06:43	1
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	66		21 - 120						
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	102		58 - 135						
							Prepared	Analyzed	Dil Fac
							11/28/22 18:54	11/29/22 06:43	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: HEW-01
Date Collected: 11/23/22 10:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.4		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 06:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	60		21 - 120				11/28/22 18:54	11/29/22 06:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	110		58 - 135				11/28/22 18:54	11/29/22 06:58	1

Client Sample ID: UAX-03
Date Collected: 11/23/22 11:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 07:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	56		21 - 120				11/28/22 18:54	11/29/22 07:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	112		58 - 135				11/28/22 18:54	11/29/22 07:12	1

Client Sample ID: HEW-04
Date Collected: 11/23/22 11:25
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.2		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 07:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	54		21 - 120				11/28/22 18:54	11/29/22 07:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	105		58 - 135				11/28/22 18:54	11/29/22 07:57	1

Client Sample ID: HEW-05
Date Collected: 11/23/22 11:40
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 08:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	54		21 - 120				11/28/22 18:54	11/29/22 08:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	102		58 - 135				11/28/22 18:54	11/29/22 08:11	1

Client Sample ID: HEW-03
Date Collected: 11/23/22 12:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 08:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	60		21 - 120				11/28/22 18:54	11/29/22 08:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	104		58 - 135				11/28/22 18:54	11/29/22 08:26	1

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Client Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Client Sample ID: HEW-300
Date Collected: 11/23/22 12:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.56		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 08:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	50		21 - 120				11/28/22 18:54	11/29/22 08:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	105		58 - 135				11/28/22 18:54	11/29/22 08:40	1

Client Sample ID: HEW-02
Date Collected: 11/23/22 12:10
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 08:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	50		21 - 120				11/28/22 18:54	11/29/22 08:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	101		58 - 135				11/28/22 18:54	11/29/22 08:55	1

Surrogate Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-132)	BFB (76-120)	DBFM (80-120)	TOL (80-120)
570-118468-1	LAX-02	103	92	99	98
570-118468-2	TB-112322	98	90	99	100
570-118468-3	LAX-03	107	93	96	100
570-118468-4	RB-112322	106	93	102	101
570-118468-5	LAX-01	102	90	99	100
570-118468-6	UAX-02	102	92	100	102
570-118468-7	UAX-01	102	92	99	103
570-118468-8	HEW-01	107	89	102	108
570-118468-9	UAX-03	106	92	103	102
570-118468-9 MS	UAX-03	93	99	93	100
570-118468-9 MSD	UAX-03	100	98	96	99
570-118468-10	HEW-04	103	88	100	104
570-118468-11	HEW-05	103	87	103	104
570-118468-12	HEW-03	107	91	99	107
570-118468-13	HEW-300	104	88	101	104
570-118468-14	HEW-02	109	89	105	105
LCS 570-284289/4	Lab Control Sample	108	101	97	102
LCSD 570-284289/5	Lab Control Sample Dup	100	100	97	99
MB 570-284289/6	Method Blank	98	94	96	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		NBZ (58-135)
570-118468-1	LAX-02	114
570-118468-3	LAX-03	103
570-118468-5	LAX-01	105
570-118468-6	UAX-02	102
570-118468-7	UAX-01	102
570-118468-8	HEW-01	110
570-118468-9	UAX-03	112
570-118468-9 MS	UAX-03	100
570-118468-9 MSD	UAX-03	106
570-118468-10	HEW-04	105
570-118468-11	HEW-05	102
570-118468-12	HEW-03	104
570-118468-13	HEW-300	105
570-118468-14	HEW-02	101
LCS 570-284623/2-A	Lab Control Sample	86
LCSD 570-284623/3-A	Lab Control Sample Dup	83
MB 570-284623/1-A	Method Blank	83

Surrogate Legend

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Surrogate Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684
NBZ = Nitrobenzene-d5

Job ID: 570-118468-1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Isotope Dilution Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (21-120)
570-118468-1	LAX-02	56
570-118468-3	LAX-03	61
570-118468-5	LAX-01	52
570-118468-6	UAX-02	57
570-118468-7	UAX-01	66
570-118468-8	HEW-01	60
570-118468-9	UAX-03	56
570-118468-9 MS	UAX-03	46
570-118468-9 MSD	UAX-03	48
570-118468-10	HEW-04	54
570-118468-11	HEW-05	54
570-118468-12	HEW-03	60
570-118468-13	HEW-300	50
570-118468-14	HEW-02	50
LCS 570-284623/2-A	Lab Control Sample	111
LCSD 570-284623/3-A	Lab Control Sample Dup	102
MB 570-284623/1-A	Method Blank	30

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-284289/6
Matrix: Water
Analysis Batch: 284289

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			11/26/22 23:32	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			11/26/22 23:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			11/26/22 23:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.25	ug/L			11/26/22 23:32	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			11/26/22 23:32	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			11/26/22 23:32	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			11/26/22 23:32	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			11/26/22 23:32	1
1,2,3-Trichlorobenzene	0.4731	J	0.50	0.26	ug/L			11/26/22 23:32	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			11/26/22 23:32	1
1,2,4-Trichlorobenzene	0.3676	J	0.50	0.26	ug/L			11/26/22 23:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.22	ug/L			11/26/22 23:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			11/26/22 23:32	1
1,2-Dibromoethane	ND		0.50	0.27	ug/L			11/26/22 23:32	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			11/26/22 23:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			11/26/22 23:32	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			11/26/22 23:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/L			11/26/22 23:32	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			11/26/22 23:32	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			11/26/22 23:32	1
1,4-Dichlorobenzene	0.1592	J	0.50	0.11	ug/L			11/26/22 23:32	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			11/26/22 23:32	1
2-Butanone	ND		5.0	2.9	ug/L			11/26/22 23:32	1
2-Chlorotoluene	ND		0.50	0.23	ug/L			11/26/22 23:32	1
2-Hexanone	ND		6.0	2.0	ug/L			11/26/22 23:32	1
4-Chlorotoluene	ND		0.50	0.24	ug/L			11/26/22 23:32	1
4-Methyl-2-pentanone	ND		5.0	1.6	ug/L			11/26/22 23:32	1
Acetone	ND		8.0	3.6	ug/L			11/26/22 23:32	1
Benzene	ND		0.50	0.14	ug/L			11/26/22 23:32	1
Bromobenzene	ND		0.50	0.14	ug/L			11/26/22 23:32	1
Bromochloromethane	ND		1.0	0.27	ug/L			11/26/22 23:32	1
Bromodichloromethane	ND		0.50	0.15	ug/L			11/26/22 23:32	1
Bromoform	ND		0.50	0.28	ug/L			11/26/22 23:32	1
Bromomethane	ND		2.0	1.9	ug/L			11/26/22 23:32	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			11/26/22 23:32	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			11/26/22 23:32	1
Carbon disulfide	ND		1.0	0.32	ug/L			11/26/22 23:32	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			11/26/22 23:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			11/26/22 23:32	1
Chloroethane	ND		0.50	0.38	ug/L			11/26/22 23:32	1
Chloroform	ND		0.50	0.17	ug/L			11/26/22 23:32	1
Chloromethane	ND		1.0	0.65	ug/L			11/26/22 23:32	1
Dibromochloromethane	ND		0.50	0.21	ug/L			11/26/22 23:32	1
Dibromomethane	ND		0.50	0.16	ug/L			11/26/22 23:32	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			11/26/22 23:32	1
Ethylbenzene	ND		0.50	0.16	ug/L			11/26/22 23:32	1
Isopropylbenzene	ND		0.50	0.21	ug/L			11/26/22 23:32	1
Methylene Chloride	ND		1.0	0.40	ug/L			11/26/22 23:32	1

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-284289/6
Matrix: Water
Analysis Batch: 284289

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.14	ug/L			11/26/22 23:32	1
Naphthalene	0.8026	J	1.0	0.55	ug/L			11/26/22 23:32	1
n-Butylbenzene	ND		0.50	0.24	ug/L			11/26/22 23:32	1
N-Propylbenzene	ND		0.50	0.18	ug/L			11/26/22 23:32	1
o-Xylene	ND		0.50	0.18	ug/L			11/26/22 23:32	1
m,p-Xylene	ND		1.0	0.39	ug/L			11/26/22 23:32	1
p-Isopropyltoluene	ND		0.50	0.20	ug/L			11/26/22 23:32	1
sec-Butylbenzene	ND		0.50	0.20	ug/L			11/26/22 23:32	1
Styrene	ND		0.50	0.27	ug/L			11/26/22 23:32	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			11/26/22 23:32	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			11/26/22 23:32	1
tert-Butylbenzene	ND		0.50	0.21	ug/L			11/26/22 23:32	1
Tetrachloroethene	ND		0.50	0.16	ug/L			11/26/22 23:32	1
Toluene	ND		0.50	0.14	ug/L			11/26/22 23:32	1
Trichloroethene	ND		0.50	0.15	ug/L			11/26/22 23:32	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			11/26/22 23:32	1
Vinyl acetate	ND		5.0	3.2	ug/L			11/26/22 23:32	1
Vinyl chloride	ND		0.50	0.23	ug/L			11/26/22 23:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		64 - 132		11/26/22 23:32	1
4-Bromofluorobenzene (Surr)	94		76 - 120		11/26/22 23:32	1
Dibromofluoromethane	96		80 - 120		11/26/22 23:32	1
Toluene-d8 (Surr)	99		80 - 120		11/26/22 23:32	1

Lab Sample ID: LCS 570-284289/4
Matrix: Water
Analysis Batch: 284289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	10.0	9.596		ug/L		96	75 - 121
1,1,2,2-Tetrachloroethane	10.0	9.779		ug/L		98	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	7.959		ug/L		80	56 - 132
1,1,2-Trichloroethane	10.0	10.40		ug/L		104	80 - 121
1,1-Dichloroethane	10.0	10.05		ug/L		101	80 - 120
1,1-Dichloroethene	10.0	9.411		ug/L		94	80 - 126
1,1-Dichloropropene	10.0	9.017		ug/L		90	72 - 122
1,2,3-Trichlorobenzene	10.0	11.16		ug/L		112	80 - 125
1,2,3-Trichloropropane	10.0	10.99		ug/L		110	75 - 127
1,2,4-Trichlorobenzene	10.0	10.89		ug/L		109	80 - 124
1,2,4-Trimethylbenzene	10.0	10.11		ug/L		101	80 - 128
1,2-Dibromo-3-Chloropropane	10.0	9.459		ug/L		95	63 - 123
1,2-Dibromoethane	10.0	10.34		ug/L		103	80 - 125
1,2-Dichlorobenzene	10.0	10.16		ug/L		102	80 - 120
1,2-Dichloroethane	10.0	10.83		ug/L		108	76 - 130
1,2-Dichloropropane	10.0	10.60		ug/L		106	74 - 124
1,3,5-Trimethylbenzene	10.0	10.60		ug/L		106	80 - 122

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QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-284289/4
Matrix: Water
Analysis Batch: 284289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	10.0	10.23		ug/L		102	80 - 120
1,3-Dichloropropane	10.0	10.36		ug/L		104	80 - 121
1,4-Dichlorobenzene	10.0	9.746		ug/L		97	80 - 120
2,2-Dichloropropane	10.0	10.61		ug/L		106	79 - 131
2-Butanone	10.0	10.40		ug/L		104	48 - 145
2-Chlorotoluene	10.0	9.760		ug/L		98	80 - 120
2-Hexanone	10.0	7.297		ug/L		73	50 - 149
4-Chlorotoluene	10.0	9.475		ug/L		95	80 - 120
4-Methyl-2-pentanone	10.0	10.27		ug/L		103	63 - 120
Acetone	10.0	8.736		ug/L		87	45 - 139
Benzene	10.0	10.24		ug/L		102	80 - 120
Bromobenzene	10.0	10.51		ug/L		105	80 - 125
Bromochloromethane	10.0	10.22		ug/L		102	80 - 120
Bromodichloromethane	10.0	10.71		ug/L		107	73 - 131
Bromoform	10.0	10.34		ug/L		103	76 - 124
Bromomethane	10.0	12.07		ug/L		121	26 - 180
cis-1,2-Dichloroethene	10.0	9.756		ug/L		98	80 - 120
cis-1,3-Dichloropropene	10.0	10.95		ug/L		110	76 - 123
Carbon disulfide	10.0	8.321		ug/L		83	75 - 123
Carbon tetrachloride	10.0	9.421		ug/L		94	61 - 139
Chlorobenzene	10.0	9.858		ug/L		99	80 - 120
Chloroethane	10.0	11.27		ug/L		113	54 - 150
Chloroform	10.0	9.751		ug/L		98	80 - 120
Chloromethane	10.0	13.78		ug/L		138	28 - 151
Dibromochloromethane	10.0	10.75		ug/L		107	74 - 136
Dibromomethane	10.0	10.76		ug/L		108	80 - 122
Dichlorodifluoromethane	10.0	10.55		ug/L		105	27 - 154
Ethylbenzene	10.0	10.15		ug/L		101	80 - 126
Isopropylbenzene	10.0	10.42		ug/L		104	80 - 120
Methylene Chloride	10.0	9.071		ug/L		91	80 - 120
Methyl-t-Butyl Ether (MTBE)	10.0	10.72		ug/L		107	69 - 128
Naphthalene	10.0	8.765		ug/L		88	70 - 130
n-Butylbenzene	10.0	9.780		ug/L		98	78 - 127
N-Propylbenzene	10.0	10.12		ug/L		101	80 - 121
o-Xylene	10.0	10.26		ug/L		103	80 - 124
m,p-Xylene	20.0	20.30		ug/L		101	80 - 123
p-Isopropyltoluene	10.0	10.16		ug/L		102	80 - 128
sec-Butylbenzene	10.0	9.787		ug/L		98	80 - 125
Styrene	10.0	10.61		ug/L		106	80 - 121
trans-1,2-Dichloroethene	10.0	9.437		ug/L		94	79 - 120
trans-1,3-Dichloropropene	10.0	10.84		ug/L		108	80 - 126
tert-Butylbenzene	10.0	9.921		ug/L		99	80 - 121
Tetrachloroethene	10.0	10.49		ug/L		105	80 - 125
Toluene	10.0	10.39		ug/L		104	80 - 120
Trichloroethene	10.0	10.23		ug/L		102	77 - 124
Trichlorofluoromethane	10.0	10.85		ug/L		109	41 - 163
Vinyl acetate	10.0	10.77		ug/L		108	61 - 126
Vinyl chloride	10.0	11.20		ug/L		112	50 - 160

QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-284289/4
Matrix: Water
Analysis Batch: 284289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		64 - 132
4-Bromofluorobenzene (Surr)	101		76 - 120
Dibromofluoromethane	97		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 570-284289/5
Matrix: Water
Analysis Batch: 284289

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	10.0	10.29		ug/L		103	80 - 125	4	20	
1,1,1-Trichloroethane	10.0	9.193		ug/L		92	75 - 121	4	20	
1,1,2,2-Tetrachloroethane	10.0	9.907		ug/L		99	80 - 120	1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	7.480		ug/L		75	56 - 132	6	22	
1,1,2-Trichloroethane	10.0	10.17		ug/L		102	80 - 121	2	20	
1,1-Dichloroethane	10.0	9.624		ug/L		96	80 - 120	4	20	
1,1-Dichloroethene	10.0	8.749		ug/L		87	80 - 126	7	21	
1,1-Dichloropropene	10.0	8.735		ug/L		87	72 - 122	3	20	
1,2,3-Trichlorobenzene	10.0	11.31		ug/L		113	80 - 125	1	20	
1,2,3-Trichloropropane	10.0	9.991		ug/L		100	75 - 127	10	20	
1,2,4-Trichlorobenzene	10.0	10.82		ug/L		108	80 - 124	1	20	
1,2,4-Trimethylbenzene	10.0	10.07		ug/L		101	80 - 128	0	20	
1,2-Dibromo-3-Chloropropane	10.0	9.320		ug/L		93	63 - 123	1	20	
1,2-Dibromoethane	10.0	10.15		ug/L		102	80 - 125	2	20	
1,2-Dichlorobenzene	10.0	10.26		ug/L		103	80 - 120	1	20	
1,2-Dichloroethane	10.0	10.46		ug/L		105	76 - 130	3	20	
1,2-Dichloropropane	10.0	10.26		ug/L		103	74 - 124	3	20	
1,3,5-Trimethylbenzene	10.0	10.16		ug/L		102	80 - 122	4	20	
1,3-Dichlorobenzene	10.0	10.21		ug/L		102	80 - 120	0	20	
1,3-Dichloropropane	10.0	9.966		ug/L		100	80 - 121	4	20	
1,4-Dichlorobenzene	10.0	9.717		ug/L		97	80 - 120	0	20	
2,2-Dichloropropane	10.0	10.07		ug/L		101	79 - 131	5	20	
2-Butanone	10.0	10.08		ug/L		101	48 - 145	3	30	
2-Chlorotoluene	10.0	9.519		ug/L		95	80 - 120	2	20	
2-Hexanone	10.0	9.339		ug/L		93	50 - 149	25	29	
4-Chlorotoluene	10.0	9.567		ug/L		96	80 - 120	1	20	
4-Methyl-2-pentanone	10.0	9.996		ug/L		100	63 - 120	3	20	
Acetone	10.0	8.448		ug/L		84	45 - 139	3	30	
Benzene	10.0	9.747		ug/L		97	80 - 120	5	20	
Bromobenzene	10.0	10.11		ug/L		101	80 - 125	4	20	
Bromochloromethane	10.0	10.46		ug/L		105	80 - 120	2	20	
Bromodichloromethane	10.0	10.47		ug/L		105	73 - 131	2	20	
Bromoform	10.0	10.76		ug/L		108	76 - 124	4	20	
Bromomethane	10.0	12.19		ug/L		122	26 - 180	1	20	
cis-1,2-Dichloroethene	10.0	9.492		ug/L		95	80 - 120	3	20	
cis-1,3-Dichloropropene	10.0	10.64		ug/L		106	76 - 123	3	20	
Carbon disulfide	10.0	7.972		ug/L		80	75 - 123	4	20	
Carbon tetrachloride	10.0	8.788		ug/L		88	61 - 139	7	20	

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-284289/5
Matrix: Water
Analysis Batch: 284289

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	10.0	9.471		ug/L		95	80 - 120	4	20
Chloroethane	10.0	10.66		ug/L		107	54 - 150	6	25
Chloroform	10.0	9.305		ug/L		93	80 - 120	5	20
Chloromethane	10.0	13.23		ug/L		132	28 - 151	4	20
Dibromochloromethane	10.0	10.59		ug/L		106	74 - 136	1	20
Dibromomethane	10.0	10.41		ug/L		104	80 - 122	3	20
Dichlorodifluoromethane	10.0	9.676		ug/L		97	27 - 154	9	21
Ethylbenzene	10.0	9.648		ug/L		96	80 - 126	5	20
Isopropylbenzene	10.0	9.798		ug/L		98	80 - 120	6	20
Methylene Chloride	10.0	8.747		ug/L		87	80 - 120	4	20
Methyl-t-Butyl Ether (MTBE)	10.0	10.38		ug/L		104	69 - 128	3	20
Naphthalene	10.0	9.001		ug/L		90	70 - 130	3	20
n-Butylbenzene	10.0	9.747		ug/L		97	78 - 127	0	20
N-Propylbenzene	10.0	9.660		ug/L		97	80 - 121	5	20
o-Xylene	10.0	9.842		ug/L		98	80 - 124	4	20
m,p-Xylene	20.0	19.59		ug/L		98	80 - 123	4	20
p-Isopropyltoluene	10.0	9.956		ug/L		100	80 - 128	2	20
sec-Butylbenzene	10.0	9.592		ug/L		96	80 - 125	2	20
Styrene	10.0	10.35		ug/L		104	80 - 121	2	20
trans-1,2-Dichloroethene	10.0	9.054		ug/L		91	79 - 120	4	20
trans-1,3-Dichloropropene	10.0	10.38		ug/L		104	80 - 126	4	20
tert-Butylbenzene	10.0	9.753		ug/L		98	80 - 121	2	20
Tetrachloroethene	10.0	9.714		ug/L		97	80 - 125	8	20
Toluene	10.0	9.875		ug/L		99	80 - 120	5	20
Trichloroethene	10.0	9.590		ug/L		96	77 - 124	6	20
Trichlorofluoromethane	10.0	10.19		ug/L		102	41 - 163	6	21
Vinyl acetate	10.0	10.60		ug/L		106	61 - 126	2	24
Vinyl chloride	10.0	10.56		ug/L		106	50 - 160	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 132
4-Bromofluorobenzene (Surr)	100		76 - 120
Dibromofluoromethane	97		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 570-118468-9 MS
Matrix: Water
Analysis Batch: 284289

Client Sample ID: UAX-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		10.0	7.951		ug/L		80	61 - 142
1,1,1-Trichloroethane	ND	F1	10.0	7.076		ug/L		71	68 - 138
1,1,2,2-Tetrachloroethane	ND		10.0	8.591		ug/L		86	71 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	5.350		ug/L		53	51 - 132
1,1,2-Trichloroethane	ND		10.0	8.296		ug/L		83	70 - 132
1,1-Dichloroethane	ND		10.0	7.568		ug/L		76	70 - 132
1,1-Dichloroethene	0.56		10.0	7.488		ug/L		69	57 - 148
1,1-Dichloropropene	ND	F1	10.0	6.992	F1	ug/L		70	74 - 132

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-118468-9 MS

Matrix: Water

Analysis Batch: 284289

Client Sample ID: UAX-03

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichlorobenzene	ND		10.0	8.588		ug/L		86	66 - 135
1,2,3-Trichloropropane	ND		10.0	8.098		ug/L		81	61 - 130
1,2,4-Trichlorobenzene	ND		10.0	8.294		ug/L		83	66 - 131
1,2,4-Trimethylbenzene	ND		10.0	7.846		ug/L		78	65 - 132
1,2-Dibromo-3-Chloropropane	ND		10.0	7.977		ug/L		80	48 - 132
1,2-Dibromoethane	ND		10.0	8.051		ug/L		81	74 - 128
1,2-Dichlorobenzene	ND		10.0	8.115		ug/L		81	74 - 126
1,2-Dichloroethane	ND		10.0	8.100		ug/L		81	65 - 140
1,2-Dichloropropane	ND		10.0	8.022		ug/L		80	75 - 127
1,3,5-Trimethylbenzene	ND		10.0	7.921		ug/L		79	64 - 144
1,3-Dichlorobenzene	ND		10.0	7.989		ug/L		80	73 - 125
1,3-Dichloropropane	ND		10.0	8.346		ug/L		83	71 - 131
1,4-Dichlorobenzene	ND		10.0	7.669		ug/L		77	73 - 125
2,2-Dichloropropane	ND		10.0	6.520		ug/L		65	39 - 138
2-Butanone	ND		10.0	6.085		ug/L		61	44 - 140
2-Chlorotoluene	ND	F1	10.0	7.462		ug/L		75	71 - 130
2-Hexanone	ND		10.0	8.099		ug/L		81	52 - 136
4-Chlorotoluene	ND		10.0	7.278		ug/L		73	69 - 127
4-Methyl-2-pentanone	ND		10.0	8.936		ug/L		89	44 - 139
Acetone	ND		10.0	6.576	J	ug/L		66	20 - 174
Benzene	ND		10.0	7.662		ug/L		77	75 - 125
Bromobenzene	ND		10.0	8.016		ug/L		80	75 - 132
Bromochloromethane	ND		10.0	8.355		ug/L		84	75 - 125
Bromodichloromethane	ND		10.0	7.998		ug/L		80	70 - 137
Bromoform	ND		10.0	8.332		ug/L		83	51 - 142
Bromomethane	ND		10.0	7.505		ug/L		75	46 - 164
cis-1,2-Dichloroethene	ND		10.0	7.618		ug/L		76	62 - 138
cis-1,3-Dichloropropene	ND		10.0	8.031		ug/L		80	67 - 125
Carbon disulfide	ND	F1	10.0	6.325	F1	ug/L		63	70 - 132
Carbon tetrachloride	ND		10.0	7.011		ug/L		70	50 - 159
Chlorobenzene	ND	F1	10.0	7.520		ug/L		75	75 - 128
Chloroethane	ND		10.0	9.044		ug/L		90	62 - 161
Chloroform	ND		10.0	7.392		ug/L		74	73 - 130
Chloromethane	ND		10.0	9.481		ug/L		95	45 - 157
Dibromochloromethane	ND		10.0	8.197		ug/L		82	63 - 145
Dibromomethane	ND		10.0	8.608		ug/L		86	75 - 127
Dichlorodifluoromethane	ND		10.0	6.341		ug/L		63	31 - 132
Ethylbenzene	ND	F1	10.0	7.594		ug/L		76	73 - 135
Isopropylbenzene	ND		10.0	7.678		ug/L		77	69 - 141
Methylene Chloride	ND		10.0	7.128		ug/L		71	65 - 127
Methyl-t-Butyl Ether (MTBE)	ND		10.0	8.907		ug/L		89	59 - 131
Naphthalene	ND		10.0	8.991		ug/L		90	51 - 133
n-Butylbenzene	ND		10.0	7.196		ug/L		72	66 - 128
N-Propylbenzene	ND	F1	10.0	7.431		ug/L		74	73 - 136
o-Xylene	ND		10.0	7.820		ug/L		78	69 - 138
m,p-Xylene	ND		20.0	15.71		ug/L		79	73 - 138
p-Isopropyltoluene	ND		10.0	7.643		ug/L		76	69 - 134
sec-Butylbenzene	ND		10.0	7.547		ug/L		75	70 - 130
Styrene	ND		10.0	5.349		ug/L		53	45 - 144

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-118468-9 MS
Matrix: Water
Analysis Batch: 284289

Client Sample ID: UAX-03
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier						
trans-1,2-Dichloroethene	ND		10.0	7.229		ug/L		72	61 - 138		
trans-1,3-Dichloropropene	ND		10.0	8.156		ug/L		82	61 - 131		
tert-Butylbenzene	ND		10.0	7.389		ug/L		74	71 - 131		
Tetrachloroethene	ND		10.0	7.536		ug/L		75	64 - 150		
Toluene	ND		10.0	7.693		ug/L		77	75 - 127		
Trichloroethene	9.2		10.0	15.63		ug/L		65	34 - 159		
Trichlorofluoromethane	ND		10.0	7.408		ug/L		74	69 - 142		
Vinyl acetate	ND		10.0	7.136		ug/L		71	35 - 132		
Vinyl chloride	ND		10.0	8.082		ug/L		81	51 - 168		
Surrogate	MS MS		Limits								
	%Recovery	Qualifier									
1,2-Dichloroethane-d4 (Surr)	93		64 - 132								
4-Bromofluorobenzene (Surr)	99		76 - 120								
Dibromofluoromethane	93		80 - 120								
Toluene-d8 (Surr)	100		80 - 120								

Lab Sample ID: 570-118468-9 MSD
Matrix: Water
Analysis Batch: 284289

Client Sample ID: UAX-03
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		10.0	7.720		ug/L		77	61 - 142	3	20	
1,1,1-Trichloroethane	ND	F1	10.0	6.646	F1	ug/L		66	68 - 138	6	20	
1,1,2,2-Tetrachloroethane	ND		10.0	8.864		ug/L		89	71 - 133	3	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	5.286		ug/L		53	51 - 132	1	21	
1,1,2-Trichloroethane	ND		10.0	8.376		ug/L		84	70 - 132	1	20	
1,1-Dichloroethane	ND		10.0	7.146		ug/L		71	70 - 132	6	20	
1,1-Dichloroethene	0.56		10.0	7.607		ug/L		70	57 - 148	2	20	
1,1-Dichloropropene	ND	F1	10.0	6.615	F1	ug/L		66	74 - 132	6	20	
1,2,3-Trichlorobenzene	ND		10.0	8.864		ug/L		89	66 - 135	3	22	
1,2,3-Trichloropropane	ND		10.0	8.214		ug/L		82	61 - 130	1	20	
1,2,4-Trichlorobenzene	ND		10.0	8.315		ug/L		83	66 - 131	0	24	
1,2,4-Trimethylbenzene	ND		10.0	7.470		ug/L		75	65 - 132	5	22	
1,2-Dibromo-3-Chloropropane	ND		10.0	8.743		ug/L		87	48 - 132	9	20	
1,2-Dibromoethane	ND		10.0	8.339		ug/L		83	74 - 128	4	20	
1,2-Dichlorobenzene	ND		10.0	8.244		ug/L		82	74 - 126	2	20	
1,2-Dichloroethane	ND		10.0	8.231		ug/L		82	65 - 140	2	20	
1,2-Dichloropropane	ND		10.0	7.763		ug/L		78	75 - 127	3	20	
1,3,5-Trimethylbenzene	ND		10.0	7.478		ug/L		75	64 - 144	6	22	
1,3-Dichlorobenzene	ND		10.0	7.954		ug/L		80	73 - 125	0	21	
1,3-Dichloropropane	ND		10.0	8.305		ug/L		83	71 - 131	0	20	
1,4-Dichlorobenzene	ND		10.0	7.745		ug/L		77	73 - 125	1	20	
2,2-Dichloropropane	ND		10.0	6.272		ug/L		63	39 - 138	4	20	
2-Butanone	ND		10.0	7.974		ug/L		80	44 - 140	27	34	
2-Chlorotoluene	ND	F1	10.0	6.957	F1	ug/L		70	71 - 130	7	20	
2-Hexanone	ND		10.0	8.336		ug/L		83	52 - 136	3	37	
4-Chlorotoluene	ND		10.0	7.288		ug/L		73	69 - 127	0	20	
4-Methyl-2-pentanone	ND		10.0	8.930		ug/L		89	44 - 139	0	21	

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QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-118468-9 MSD

Client Sample ID: UAX-03

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 284289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND		10.0	7.607	J	ug/L		76	20 - 174	15	35
Benzene	ND		10.0	7.506		ug/L		75	75 - 125	2	20
Bromobenzene	ND		10.0	8.024		ug/L		80	75 - 132	0	20
Bromochloromethane	ND		10.0	8.508		ug/L		85	75 - 125	2	20
Bromodichloromethane	ND		10.0	8.032		ug/L		80	70 - 137	0	20
Bromoform	ND		10.0	8.594		ug/L		86	51 - 142	3	20
Bromomethane	ND		10.0	8.175		ug/L		82	46 - 164	9	25
cis-1,2-Dichloroethene	ND		10.0	7.467		ug/L		75	62 - 138	2	20
cis-1,3-Dichloropropene	ND		10.0	8.041		ug/L		80	67 - 125	0	20
Carbon disulfide	ND	F1	10.0	6.041	F1	ug/L		60	70 - 132	5	20
Carbon tetrachloride	ND		10.0	6.658		ug/L		67	50 - 159	5	20
Chlorobenzene	ND	F1	10.0	7.292	F1	ug/L		73	75 - 128	3	20
Chloroethane	ND		10.0	9.268		ug/L		93	62 - 161	2	20
Chloroform	ND		10.0	7.323		ug/L		73	73 - 130	1	20
Chloromethane	ND		10.0	10.94		ug/L		109	45 - 157	14	21
Dibromochloromethane	ND		10.0	8.428		ug/L		84	63 - 145	3	20
Dibromomethane	ND		10.0	8.666		ug/L		87	75 - 127	1	20
Dichlorodifluoromethane	ND		10.0	7.240		ug/L		72	31 - 132	13	21
Ethylbenzene	ND	F1	10.0	7.173	F1	ug/L		72	73 - 135	6	20
Isopropylbenzene	ND		10.0	7.269		ug/L		73	69 - 141	5	22
Methylene Chloride	ND		10.0	6.920		ug/L		69	65 - 127	3	20
Methyl-t-Butyl Ether (MTBE)	ND		10.0	9.024		ug/L		90	59 - 131	1	20
Naphthalene	ND		10.0	8.563		ug/L		86	51 - 133	5	25
n-Butylbenzene	ND		10.0	6.864		ug/L		69	66 - 128	5	24
N-Propylbenzene	ND	F1	10.0	7.056	F1	ug/L		71	73 - 136	5	22
o-Xylene	ND		10.0	7.403		ug/L		74	69 - 138	5	20
m,p-Xylene	ND		20.0	15.35		ug/L		77	73 - 138	2	21
p-Isopropyltoluene	ND		10.0	7.238		ug/L		72	69 - 134	5	23
sec-Butylbenzene	ND		10.0	7.169		ug/L		72	70 - 130	5	22
Styrene	ND		10.0	4.824		ug/L		48	45 - 144	10	32
trans-1,2-Dichloroethene	ND		10.0	6.930		ug/L		69	61 - 138	4	21
trans-1,3-Dichloropropene	ND		10.0	8.037		ug/L		80	61 - 131	1	20
tert-Butylbenzene	ND		10.0	7.137		ug/L		71	71 - 131	3	23
Tetrachloroethene	ND		10.0	7.054		ug/L		71	64 - 150	7	23
Toluene	ND		10.0	7.587		ug/L		76	75 - 127	1	20
Trichloroethene	9.2		10.0	15.69		ug/L		65	34 - 159	0	23
Trichlorofluoromethane	ND		10.0	8.570		ug/L		86	69 - 142	15	20
Vinyl acetate	ND		10.0	6.221		ug/L		62	35 - 132	14	29
Vinyl chloride	ND		10.0	9.210		ug/L		92	51 - 168	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 132
4-Bromofluorobenzene (Surr)	98		76 - 120
Dibromofluoromethane	96		80 - 120
Toluene-d8 (Surr)	99		80 - 120

QC Sample Results

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8270C SIM ID - Semivolatle Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-284623/1-A
Matrix: Water
Analysis Batch: 284647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		11/28/22 18:54	11/29/22 05:01	1
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		21 - 120				11/28/22 18:54	11/29/22 05:01	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83		58 - 135				11/28/22 18:54	11/29/22 05:01	1

Lab Sample ID: LCS 570-284623/2-A
Matrix: Water
Analysis Batch: 284647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284623

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1,4-Dioxane	20.0	15.51		ug/L		78	63 - 144	
Isotope Dilution	%Recovery	LCS Qualifier	Limits					
1,4-Dioxane-d8	111		21 - 120					
Surrogate	%Recovery	LCS Qualifier	Limits					
Nitrobenzene-d5	86		58 - 135					

Lab Sample ID: LCSD 570-284623/3-A
Matrix: Water
Analysis Batch: 284647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 284623

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	20.0	17.32		ug/L		87	63 - 144	11	20
Isotope Dilution	%Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8	102		21 - 120						
Surrogate	%Recovery	LCSD Qualifier	Limits						
Nitrobenzene-d5	83		58 - 135						

Lab Sample ID: 570-118468-9 MS
Matrix: Water
Analysis Batch: 284647

Client Sample ID: UAX-03
Prep Type: Total/NA
Prep Batch: 284623

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	ND		20.0	17.96		ug/L		90	48 - 164
Isotope Dilution	%Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8	46		21 - 120						
Surrogate	%Recovery	MS Qualifier	Limits						
Nitrobenzene-d5	100		58 - 135						

QC Sample Results

Client: Hargis + Associates, Inc.
 Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 570-118468-9 MSD
Matrix: Water
Analysis Batch: 284647

Client Sample ID: UAX-03
Prep Type: Total/NA
Prep Batch: 284623

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		20.0	21.57		ug/L		108	48 - 164	18	20
	<i>MSD</i>	<i>MSD</i>									
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>								
1,4-Dioxane-d8	48		21 - 120								
	<i>MSD</i>	<i>MSD</i>									
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>								
Nitrobenzene-d5	106		58 - 135								

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QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

GC/MS VOA

Analysis Batch: 284289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-118468-1	LAX-02	Total/NA	Water	8260B	
570-118468-2	TB-112322	Total/NA	Water	8260B	
570-118468-3	LAX-03	Total/NA	Water	8260B	
570-118468-4	RB-112322	Total/NA	Water	8260B	
570-118468-5	LAX-01	Total/NA	Water	8260B	
570-118468-6	UAX-02	Total/NA	Water	8260B	
570-118468-7	UAX-01	Total/NA	Water	8260B	
570-118468-8	HEW-01	Total/NA	Water	8260B	
570-118468-9	UAX-03	Total/NA	Water	8260B	
570-118468-10	HEW-04	Total/NA	Water	8260B	
570-118468-11	HEW-05	Total/NA	Water	8260B	
570-118468-12	HEW-03	Total/NA	Water	8260B	
570-118468-13	HEW-300	Total/NA	Water	8260B	
570-118468-14	HEW-02	Total/NA	Water	8260B	
MB 570-284289/6	Method Blank	Total/NA	Water	8260B	
LCS 570-284289/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-284289/5	Lab Control Sample Dup	Total/NA	Water	8260B	
570-118468-9 MS	UAX-03	Total/NA	Water	8260B	
570-118468-9 MSD	UAX-03	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 284623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-118468-1	LAX-02	Total/NA	Water	3510C	
570-118468-3	LAX-03	Total/NA	Water	3510C	
570-118468-5	LAX-01	Total/NA	Water	3510C	
570-118468-6	UAX-02	Total/NA	Water	3510C	
570-118468-7	UAX-01	Total/NA	Water	3510C	
570-118468-8	HEW-01	Total/NA	Water	3510C	
570-118468-9	UAX-03	Total/NA	Water	3510C	
570-118468-10	HEW-04	Total/NA	Water	3510C	
570-118468-11	HEW-05	Total/NA	Water	3510C	
570-118468-12	HEW-03	Total/NA	Water	3510C	
570-118468-13	HEW-300	Total/NA	Water	3510C	
570-118468-14	HEW-02	Total/NA	Water	3510C	
MB 570-284623/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-284623/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-284623/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-118468-9 MS	UAX-03	Total/NA	Water	3510C	
570-118468-9 MSD	UAX-03	Total/NA	Water	3510C	

Analysis Batch: 284647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-118468-1	LAX-02	Total/NA	Water	8270C SIM ID	284623
570-118468-3	LAX-03	Total/NA	Water	8270C SIM ID	284623
570-118468-5	LAX-01	Total/NA	Water	8270C SIM ID	284623
570-118468-6	UAX-02	Total/NA	Water	8270C SIM ID	284623
570-118468-7	UAX-01	Total/NA	Water	8270C SIM ID	284623
570-118468-8	HEW-01	Total/NA	Water	8270C SIM ID	284623
570-118468-9	UAX-03	Total/NA	Water	8270C SIM ID	284623

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QC Association Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

GC/MS Semi VOA (Continued)

Analysis Batch: 284647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-118468-10	HEW-04	Total/NA	Water	8270C SIM ID	284623
570-118468-11	HEW-05	Total/NA	Water	8270C SIM ID	284623
570-118468-12	HEW-03	Total/NA	Water	8270C SIM ID	284623
570-118468-13	HEW-300	Total/NA	Water	8270C SIM ID	284623
570-118468-14	HEW-02	Total/NA	Water	8270C SIM ID	284623
MB 570-284623/1-A	Method Blank	Total/NA	Water	8270C SIM ID	284623
LCS 570-284623/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	284623
LCSD 570-284623/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	284623
570-118468-9 MS	UAX-03	Total/NA	Water	8270C SIM ID	284623
570-118468-9 MSD	UAX-03	Total/NA	Water	8270C SIM ID	284623

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Client Sample ID: LAX-02

Lab Sample ID: 570-118468-1

Date Collected: 11/23/22 08:20

Matrix: Water

Date Received: 11/23/22 14:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 01:09	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 05:45	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: TB-112322

Lab Sample ID: 570-118468-2

Date Collected: 11/23/22 08:00

Matrix: Water

Date Received: 11/23/22 14:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 00:45	N1A	EET CAL 4
Instrument ID: GCMSVV										

Client Sample ID: LAX-03

Lab Sample ID: 570-118468-3

Date Collected: 11/23/22 08:45

Matrix: Water

Date Received: 11/23/22 14:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 01:34	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 05:59	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: RB-112322

Lab Sample ID: 570-118468-4

Date Collected: 11/23/22 09:00

Matrix: Water

Date Received: 11/23/22 14:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 01:58	N1A	EET CAL 4
Instrument ID: GCMSVV										

Client Sample ID: LAX-01

Lab Sample ID: 570-118468-5

Date Collected: 11/23/22 09:50

Matrix: Water

Date Received: 11/23/22 14:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 02:22	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 06:14	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Client Sample ID: UAX-02
Date Collected: 11/23/22 10:15
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 02:46	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 06:28	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-01
Date Collected: 11/23/22 10:35
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 03:11	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 06:43	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-01
Date Collected: 11/23/22 10:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	20 mL	20 mL	284289	11/27/22 03:59	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 06:58	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: UAX-03
Date Collected: 11/23/22 11:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 03:35	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 07:12	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-04
Date Collected: 11/23/22 11:25
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	284289	11/27/22 04:23	N1A	EET CAL 4
Instrument ID: GCMSVV										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Client Sample ID: HEW-04
Date Collected: 11/23/22 11:25
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 07:57	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-05
Date Collected: 11/23/22 11:40
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	284289	11/27/22 04:47	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 08:11	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-03
Date Collected: 11/23/22 12:00
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	284289	11/27/22 05:12	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 08:26	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-300
Date Collected: 11/23/22 12:45
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	284289	11/27/22 05:36	N1A	EET CAL 4
Instrument ID: GCMSVV										
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 08:40	UFLE	EET CAL 4
Instrument ID: GCMSDDD										

Client Sample ID: HEW-02
Date Collected: 11/23/22 12:10
Date Received: 11/23/22 14:44

Lab Sample ID: 570-118468-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	20 mL	20 mL	284289	11/27/22 06:00	N1A	EET CAL 4
Instrument ID: GCMSVV										

Lab Chronicle

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Client Sample ID: HEW-02

Lab Sample ID: 570-118468-14

Date Collected: 11/23/22 12:10

Matrix: Water

Date Received: 11/23/22 14:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			100 mL	10 mL	284623	11/28/22 18:54	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	284647	11/29/22 08:55	UFLE	EET CAL 4

Instrument ID: GCMSDDD

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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Accreditation/Certification Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-23

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Method Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



Sample Summary

Client: Hargis + Associates, Inc.
Project/Site: Raytheon - Bldg. 684

Job ID: 570-118468-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-118468-1	LAX-02	Water	11/23/22 08:20	11/23/22 14:44
570-118468-2	TB-112322	Water	11/23/22 08:00	11/23/22 14:44
570-118468-3	LAX-03	Water	11/23/22 08:45	11/23/22 14:44
570-118468-4	RB-112322	Water	11/23/22 09:00	11/23/22 14:44
570-118468-5	LAX-01	Water	11/23/22 09:50	11/23/22 14:44
570-118468-6	UAX-02	Water	11/23/22 10:15	11/23/22 14:44
570-118468-7	UAX-01	Water	11/23/22 10:35	11/23/22 14:44
570-118468-8	HEW-01	Water	11/23/22 10:45	11/23/22 14:44
570-118468-9	UAX-03	Water	11/23/22 11:00	11/23/22 14:44
570-118468-10	HEW-04	Water	11/23/22 11:25	11/23/22 14:44
570-118468-11	HEW-05	Water	11/23/22 11:40	11/23/22 14:44
570-118468-12	HEW-03	Water	11/23/22 12:00	11/23/22 14:44
570-118468-13	HEW-300	Water	11/23/22 12:45	11/23/22 14:44
570-118468-14	HEW-02	Water	11/23/22 12:10	11/23/22 14:44

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Virendra Patel

From: DJ Sealee <DSealee@HARGIS.COM>
Sent: Monday, November 28, 2022 9:29 AM
To: Virendra Patel; Andrew Donnelly
Subject: RE: Eurofins Calscience sample confirmation files from 570-118468-1 Raytheon Bldg. 684

EXTERNAL EMAIL*

Hello Virendra,

Apologies, I believe the sample was just mislabeled. The 250 amber should belong to UAX-01.

Thank you

DJ Sealee | Hydrogeologist
Hargis + Associates, Inc.
3131 Camino Del Rio North, Suite 355
San Diego, CA 92108
Cell: (619) 319-1504
Office: (858) 410-7440
dsealee@hargis.com



From: Virendra Patel <Virendra.Patel@et.eurofinsus.com>
Sent: Friday, November 25, 2022 10:45 AM
To: Andrew Donnelly <ADONNELLY@HARGIS.COM>; Amanda Janzon <AJanzon@HARGIS.COM>; Danielle Gallaher <dgallaher@HARGIS.COM>; DJ Sealee <DSealee@HARGIS.COM>; Monica Morales <MMorales@Hargis.com>; Ross Horton <RHorton@HARGIS.COM>; Ruben Sanchez <RSanchez@HARGIS.COM>; Steve Netto <SNETTO@HARGIS.COM>; Tony Rossi <TROSSI@HARGIS.COM>; Patel Virendra <Virendra.Patel@et.eurofinsus.com>
Subject: Eurofins Calscience sample confirmation files from 570-118468-1 Raytheon Bldg. 684

CAUTION: This email originated from outside your organization. Do not click links, open attachments or follow instructions unless you have verified the sender and know the content is genuine and safe.

Hello,

Attached please find the sample confirmation files for job 570-118468-1; Raytheon Full Scale/Bldg. 684 (Fullerton

The 250 amber container label for the following sample did not match the information listed on the Chain-of-Custody

(COC): UAX-01 (570-118468-7). The container labels list UAX-03, while the COC lists UAX-01 (collection date/time matched).

Please feel free to contact me if you have any questions.

Thank you.

Virendra Patel
Project Manager

Eurofins Calscience
Phone: 714-895-5494
Mobile: 714-887-9901

E-mail: Virendra.Patel@et.eurofinsus.com
www.eurofinsus.com/env

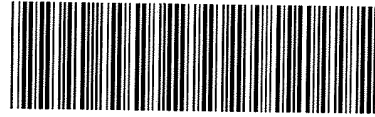


Reference: [570-393270]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

118468



570-118468 Chain of Custody

Date 11-23-22
Page 1 of 2

PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project BCI Fullerton 764 10	Sampled By <u>D. Searee / R. Adams</u>	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	# Amber	125 mL Amber	VOCs by EPA 8260B	1,4-Dioxane by 8270C	0-10	10-100	100-1,000	>1,000	Standard TAT	MS/MSD Requested	REMARKS	
		Date	Time																	
	<u>LAX-02</u>	<u>11-23-22</u>	<u>0820</u>	X	X		X	3			X		X							
	↓		↓	X					1			X								
	<u>TB-112322</u>		<u>0800</u>	X	X			2			X		X							
	<u>LAX-03</u>		<u>0845</u>	X	X			3			X		X							
	↓		↓	X					1			X								
	<u>RB-112322</u>		<u>0900</u>	X	X			3			X		X							
	<u>LAX-01</u>		<u>0950</u>	X	X			3			X		X							
	↓		↓	X					1			X								
	<u>UAX-02</u>		<u>1015</u>	X	X			3			X		X							
	↓		↓	X					1			X								
	<u>UAX-01</u>		<u>1035</u>	X	X			3			X		X							
	↓		↓	X					1			X								
	<u>HEW-01</u>		<u>1045</u>	X	X			3			X		X							
	↓		↓	X					1			X								
	<u>UAX-03</u>		<u>1100</u>	X	X			9			X		X							X
	↓		↓	X					3			X								X
	<u>HEW-04</u>		<u>1125</u>	X	X			3			X		X							
	↓		↓	X					1			X								

Total number of containers per analysis _____ Total No of Containers _____

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company: <u>Steve Netto / H+A</u>	Date / Time: <u>11/23/22 1444</u>	Received By / Company: <u>EC</u>	Date / Time: <u>11-23-22 14:44</u>
Relinquished By / Company:	Date / Time:	Received By / Company:	Date / Time:

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

1.2/1.0 SC11 Temperature on receipt

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12/1/2022





Date 11-23-22
Page 2 of 2

PROJECT Building 684 - Raytheon
TASK NO 764 10

Project Manager Steve Netto
QA Manager Andrew Donnelly
Phone 858-455-6500

Project BCI Fullerton 764 10	Sampled By: <u>D. Seaton</u> <u>R. Adams</u>	SAMPLE COLLECTION		Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1L Amber	125 mL Amber	VOCs by EPA 8260B	1,4-Dioxane by 8270C	0-10	10-100	100-1,000	>1,000	Standard TAT	MS/MSD Requested	REMARKS	
		Date	Time																	
		11-23-22	1140	X	X		X	3			X		X							
	↓		↓	X	X			3		1	X		X		X					
	HEW-03		1200	X	X			3			X			X						
	↓		↓	X	X					1	X		X							
	HEW-0300		1245	X	X			3			X			X						
	↓		↓	X	X					1	X		X							
	HEW-02		1210	X	X			3			X		X							
	↓		↓	X	X					1	X		X							
Total number of containers per analysis																			Total No of Containers	

Comments Report "J" Flags
Geotracker ID T0605900143, Log Code HARG
Field Point ID = QCTB for Trip Blanks ("TB-"), QCRB for Equipment Rinsate Blanks (RB-), all other samples Field Point ID = Sample ID

Relinquished By / Company <u>Steve Netto / HIA</u>	Date / Time <u>11/23/22</u> <u>1444</u>	Received By / Company <u>Andrew Donnelly / EC</u>	Date / Time <u>11-23-22</u> <u>14:44</u>
Relinquished By / Company	Date / Time	Received By / Company	Date / Time

- No of containers correct
- Received in good condition
- Custody seals secure
- Conforms to COC document

Send Results to
Steve Netto
3131 Camino Del Rio North
Suite 355
San Diego, CA 92108
Ph 858-455-6500
snetto@hargis.com

_____ Temperature on receipt



Login Sample Receipt Checklist

Client: Hargis + Associates, Inc.

Job Number: 570-118468-1

Login Number: 118468

List Number: 1

Creator: Ovalle, Erick

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

