

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB85760

Sampling Date: 12/30/14

Report to:

Providence Engineering

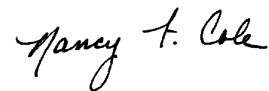
kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: **10**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Nancy Cole
Laboratory Director

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

| | |
|--|-----------|
| Section 1: Sample Summary | 3 |
| Section 2: Sample Results | 4 |
| 2.1: JB85760-1: CAMS 205 | 5 |
| Section 3: Misc. Forms | 7 |
| 3.1: Chain of Custody | 8 |
| 3.2: Summa Canister and Flow Controller Log | 10 |



Sample Summary

Providence Engineering

Job No: JB85760

Valero-CAMS, Baton Rouge, LA
Project No: 712-001

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------------------|------------------|
| | Date | Time By | | Code | Type | |
| JB85760-1 | 12/30/14 | 13:00 KH | 01/07/15 | AIR | Ambient Air Grab | CAMS 205 |

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|------------------------------|-----------------|----------|
| Client Sample ID: | CAMS 205 | Date Sampled: | 12/30/14 |
| Lab Sample ID: | JB85760-1 | Date Received: | 01/07/15 |
| Matrix: | AIR - Ambient Air Grab | Summa ID: | A1190 |
| Method: | TO-15 | Percent Solids: | n/a |
| Project: | Valero-CAMS, Baton Rouge, LA | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|------|----------|----|-----------|------------|------------------|
| Run #2 | W49820.D | 1.58 | 01/08/15 | ML | n/a | n/a | VW1994 |

| Run #1 | Initial Volume |
|--------|----------------|
| Run #2 | 632 ml |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|------|-------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone | 3.6 | 0.20 | 0.11 | ppbv | | 8.6 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.034 | ppbv | | ND | 0.44 | 0.075 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.15 | 0.20 | 0.025 | ppbv | J | 0.48 | 0.64 | 0.080 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.20 | 0.029 | ppbv | | ND | 1.3 | 0.19 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.20 | 0.035 | ppbv | | ND | 2.1 | 0.36 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.033 | ppbv | | ND | 0.78 | 0.13 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.035 | ppbv | | ND | 0.87 | 0.15 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.047 | ppbv | | ND | 1.0 | 0.24 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.20 | 0.031 | ppbv | | ND | 0.62 | 0.097 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.034 | ppbv | | ND | 0.92 | 0.16 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.042 | ppbv | | ND | 0.53 | 0.11 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.20 | 0.024 | ppbv | | ND | 0.98 | 0.12 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.56 | 0.20 | 0.079 | ppbv | | 1.2 | 0.41 | 0.16 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.037 | ppbv | | ND | 0.63 | 0.12 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.032 | ppbv | | ND | 1.0 | 0.17 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.20 | 0.025 | ppbv | | ND | 1.3 | 0.16 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.20 | 0.027 | ppbv | | ND | 0.69 | 0.093 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.027 | ppbv | | ND | 0.81 | 0.11 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.20 | 0.052 | ppbv | | ND | 0.79 | 0.21 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane | ND | 0.20 | 0.027 | ppbv | | ND | 1.5 | 0.21 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.023 | ppbv | | ND | 0.81 | 0.093 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.029 | ppbv | | ND | 0.92 | 0.13 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | 0.43 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.46 | 0.20 | 0.030 | ppbv | | 2.3 | 0.99 | 0.15 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.7 | 0.32 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.070 | ppbv | | ND | 0.79 | 0.28 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.023 | ppbv | | ND | 0.79 | 0.091 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.025 | ppbv | | ND | 0.91 | 0.11 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.20 | 0.033 | ppbv | | ND | 1.2 | 0.20 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.20 | 0.029 | ppbv | | ND | 1.2 | 0.17 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.20 | 0.037 | ppbv | | ND | 1.2 | 0.22 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.025 | ppbv | | ND | 0.91 | 0.11 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|------------------------------|-----------------|----------|
| Client Sample ID: | CAMS 205 | Date Sampled: | 12/30/14 |
| Lab Sample ID: | JB85760-1 | Date Received: | 01/07/15 |
| Matrix: | AIR - Ambient Air Grab | Summa ID: | A1190 |
| Method: | TO-15 | Percent Solids: | n/a |
| Project: | Valero-CAMS, Baton Rouge, LA | | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 3.7 | 0.50 | 0.17 | ppbv | | 7.0 | 0.94 | 0.32 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.20 | 0.035 | ppbv | | ND | 0.87 | 0.15 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 0.20 | 0.061 | ppbv | | ND | 0.72 | 0.22 | ug/m3 |
| 622-96-8 | 120.2 | 4-Ethyltoluene | ND | 0.20 | 0.032 | ppbv | | ND | 0.98 | 0.16 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.20 | 0.040 | ppbv | | ND | 1.5 | 0.31 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.20 | 0.031 | ppbv | | ND | 1.4 | 0.22 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.20 | 0.021 | ppbv | | ND | 0.82 | 0.086 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.20 | 0.051 | ppbv | | ND | 2.1 | 0.54 | ug/m3 |
| 110-54-3 | 86.17 | Hexane | 0.21 | 0.20 | 0.042 | ppbv | | 0.74 | 0.70 | 0.15 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.20 | 0.064 | ppbv | | ND | 0.82 | 0.26 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.63 | 0.20 | 0.066 | ppbv | | 1.5 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.24 | 0.20 | 0.13 | ppbv | | 0.83 | 0.69 | 0.45 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 0.18 | 0.20 | 0.040 | ppbv | J | 0.53 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.042 | ppbv | | ND | 0.82 | 0.17 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.041 | ppbv | | ND | 0.72 | 0.15 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.50 | 0.048 | ppbv | | ND | 0.86 | 0.082 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.20 | 0.033 | ppbv | | ND | 0.85 | 0.14 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.20 | 0.024 | ppbv | | ND | 1.1 | 0.13 | ug/m3 |
| 79-34-5 | 167.9 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.040 | ppbv | | ND | 1.4 | 0.27 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.20 | 0.035 | ppbv | | ND | 1.1 | 0.19 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.061 | ppbv | | ND | 1.5 | 0.45 | ug/m3 |
| 95-63-6 | 120.2 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.029 | ppbv | | ND | 0.98 | 0.14 | ug/m3 |
| 108-67-8 | 120.2 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.029 | ppbv | | ND | 0.98 | 0.14 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.025 | ppbv | | ND | 0.93 | 0.12 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.20 | 0.044 | ppbv | | ND | 0.61 | 0.13 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.040 | 0.037 | ppbv | | ND | 0.27 | 0.25 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.049 | ppbv | | ND | 0.59 | 0.14 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.17 | 0.20 | 0.030 | ppbv | J | 0.64 | 0.75 | 0.11 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.030 | ppbv | | ND | 0.21 | 0.16 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.25 | 0.20 | 0.029 | ppbv | | 1.4 | 1.1 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.20 | 0.031 | ppbv | | ND | 0.51 | 0.079 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.095 | ppbv | | ND | 0.70 | 0.33 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.12 | 0.20 | 0.069 | ppbv | J | 0.52 | 0.87 | 0.30 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.20 | 0.034 | ppbv | | ND | 0.87 | 0.15 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 0.12 | 0.20 | 0.034 | ppbv | J | 0.52 | 0.87 | 0.15 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 65-128% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log



CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FSP-EX Tracking # 6250 6349 230
 Lab Quote #
 Bottle Order Control #
 Lab Job # JB85760

| Client / Reporting Information | | | | | | Weather Parameters | | | | | Requested Analysis | | | | | | |
|--|--------------------------------|-----------------------------------|-------------------------------|-------------------------|--------------------------|--|----------------------------|-------------------------|-------------------|---------------|-------------------------------|---------------------------|-------------------------|-------------------|---------------|--------------|--|
| Company Name: Providence Eng | | | Project Name: Valero Refining | | | Temperature (Fahrenheit) | | | | | Standard TO-15 Reporting List | | | | | | |
| Address: 1201 Main St | | | Street | | | Start: | | Maximum: | | | | | | | | | |
| City: BIR State: LA Zip: 70802 | | | City: Meroux State: LA | | | Stop: | | Minimum: | | | | | | | | | |
| Project Contact: paulhollis@providenceeng.com | | | Project # 712-001 | | | Atmospheric Pressure (inches of Hg) | | | | | | | | | | | |
| Phone # (225) 766-7400 | | | Client Purchase Order # | | | Start: | | Maximum: | | | | | | | | | |
| Fax # -7440 | | | | | | Stop: | | Minimum: | | | | | | | | | |
| Sampler(s) Name(s): R Hudson | | | | | | Other weather comment: | | | | | | | | | | | |
| Lab Sample # | Field ID / Point of Collection | Air Type | | Sampling Equipment Info | | | Start Sampling Information | | | | | Stop Sampling Information | | | | | |
| | | Indoor(I) Soil Vap(SV) Ambient(A) | Canister Serial # | Canister Size 6L or 1L | Flow Controller Serial # | Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. | Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. | | |
| -1 | CAMS 205 | A | A1190 | 6L | - | 12-29 | 1300 | 0.02 | 75 | KH | 12-30 | 1300 | 11.17 | 75 | KH | ✓ | |
| Summa | | | | | | | | | | | | | | | | | |
| Turnaround Time (Business days) | | | | | | Date Deliverable Information | | | | | | Comments / Remarks | | | | | |
| Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other | | | | | | Approved By: _____ Date: _____ All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: | | | | | | | | | | | |
| Sample Custody must be documented below each time samples change possession, including courier delivery. | | | | | | | | | | | | | | | | | |
| Relinquished by Laboratory: | | Date Time: | | Received By: | | Relinquished By: | | Date Time: | | Received By: | | Relinquished By: | | Date Time: | | Received By: | |
| 1 | | | | 1 | | 2 | | | | 2 | | 3 | | | | 4 | |
| Relinquished by: | | Date Time: | | Received By: | | Relinquished By: | | Date Time: | | Received By: | | Relinquished By: | | Date Time: | | Received By: | |
| 3 Fedex | | 12/15 09:20 | | 3 | | 4 | | | | 4 | | 5 | | | | 4 | |
| Relinquished by: | | Date Time: | | Received By: | | Custody Seal # | | | | | | | | | | | |
| 5 | | | | 5 | | | | | | | | | | | | | |

31
3

44.10

ABG

JB85760: Chain of Custody

Page 1 of 2

Summa Canister and Flow Controller Log

Job Number: JB85760
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 01/07/15

32
3

| SUMMA CANISTERS | | | | | | | | | | | | | |
|-----------------|---|----------|----------|----|-----------|------------|---------------|----------|----|----------|-----------|------------|----------|
| Shipping | | | | | | | Receiving | | | | | | |
| Summa ID | L | Vac " Hg | Date Out | By | SCC Batch | SCC FileID | Sample Number | Date In | By | Vac " Hg | Pres psig | Final psig | Dil Fact |
| A1190 | 6 | 29.4 | 12/18/14 | RD | CP7419 | 5W8546.D | JB85760-1 | 01/07/15 | ML | 7 | | | 1 |

Accutest Bottle Order(s):
 VP-12/18/2014-9

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 12/18/14 70 29.92