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*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

### Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Job Number: JD14830

Sampling Date: 10/11/20

#### 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.

A handwritten signature in black ink that reads "Caitlin Brice".

**Caitlin Brice, M.S.**  
**General Manager**

**Client Service contact: Shalini Williams 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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

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## Sample Summary

Providence Engineering

Job No: JD14830

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

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:  
Organics ND = Not detected above the MDL

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JD14830-1	10/11/20	09:15 BK	10/16/20	AIR	Ambient Air Comp.	CAMS 558
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**Sample Results**

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**Report of Analysis**

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### Report of Analysis

<b>Client Sample ID:</b> CAMS 558		
<b>Lab Sample ID:</b> JD14830-1		<b>Date Sampled:</b> 10/11/20
<b>Matrix:</b> AIR - Ambient Air Comp.	<b>Summa ID:</b> A1163	<b>Date Received:</b> 10/16/20
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Valero-CAMS, Baton Rouge, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6W19761.D	1	10/27/20 19:07	DFT	n/a	n/a	V6W832
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	2.6	0.20	0.11	ppbv		6.2	0.48	0.26	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	0.10	ug/m3
71-43-2	78.11	Benzene	0.13	0.20	0.012	ppbv	J	0.42	0.64	0.038	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	0.18	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	0.38	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	0.085	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	0.096	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	0.29	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	0.12	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	0.13	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	0.098	ug/m3
74-87-3	50.49	Chloromethane	0.65	0.20	0.015	ppbv		1.3	0.41	0.031	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	0.13	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	0.13	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	0.15	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.022	ppbv		ND	0.69	0.076	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	0.049	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	0.067	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.018	ppbv		ND	1.5	0.14	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	0.085	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	0.088	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	0.19	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.37	0.20	0.017	ppbv		1.8	0.99	0.084	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	0.28	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	0.029	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	0.048	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	0.091	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	0.11	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	0.13	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	0.11	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	0.091	ug/m3

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CAMS 558	Date Sampled:	10/11/20
Lab Sample ID:	JD14830-1	Date Received:	10/16/20
Matrix:	AIR - Ambient Air Comp. Summa ID: A1163	Percent Solids:	n/a
Method:	TO-15		
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	1.1	0.50	0.22	ppbv		2.1	0.94	0.41	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	0.065	ug/m3
141-78-6	88	Ethyl Acetate	0.15	0.20	0.038	ppbv	J	0.54	0.72	0.14	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	0.15	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	0.13	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	0.13	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.018	ppbv		ND	0.82	0.074	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	0.49	ug/m3
110-54-3	86.17	Hexane	0.22	0.20	0.011	ppbv		0.78	0.70	0.039	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	0.15	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.065	ppbv		ND	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	0.052	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.18	0.20	0.042	ppbv	J	0.53	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	0.15	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	0.069	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	0.14	ug/m3
115-07-1	42	Propylene	ND	0.50	0.016	ppbv		ND	0.86	0.027	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.019	ppbv		ND	0.85	0.081	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	0.18	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	0.19	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	0.16	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	0.66	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	0.16	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	0.17	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.022	ppbv		ND	0.93	0.10	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	0.042	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	0.21	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	0.15	ug/m3
108-88-3	92.14	Toluene	0.15	0.20	0.014	ppbv	J	0.57	0.75	0.053	ug/m3
79-01-6	131.4	Trichloroethylene	0.13	0.040	0.019	ppbv		0.70	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.20	0.20	0.028	ppbv		1.1	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	0.12	ug/m3
	106.2	m,p-Xylene	0.12	0.20	0.034	ppbv	J	0.52	0.87	0.15	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	0.074	ug/m3
1330-20-7	106.2	Xylenes (total)	0.12	0.20	0.017	ppbv	J	0.52	0.87	0.074	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		65-128%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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**Includes the following where applicable:**

- Chain of Custody
- Summa Canister and Flow Controller Log



AIR

### AIR CHAIN OF CUSTODY

PAGE 0F

SGS North America Inc. - Dayton  
 2235 Route 130, Dayton, NJ 08810  
 TEL. 732-329-0200 FAX 732-329-3499  
 www.sgs.com/ehsusa

FED-EX Tracking # 77116784 Order # 17-093020-12  
 SGS Quote # 5890 SGS Job # JD14830

Client / Reporting Information			Project Information			Weather Parameters			Requested Analysis		
Company Name <u>PROVEDNIK ENVIRONMENTAL</u>			Project Name <u>VALERO REFINERY</u>			Temperature (Fahrenheit)			Requested Analysis		
Address <u>1201 MARIN ST</u>			Street			Start: Maximum:					
City <u>IRVINE CA</u>			City <u>MERRICK CA</u>			Stop: Minimum:					
State <u>CA</u>			State <u>CA</u>			Atmospheric Pressure (inches of Hg)					
Zip <u>92602</u>			Zip			Start: Maximum:					
Project Contact <u>PAUL HOLLER</u>			Project # <u>712-01</u>			Stop: Minimum:			Other weather comment:		
E-mail <u>pholler@provednik.com</u>			Client Purchase Order #			Other weather comment:					
Phone # <u>(225) 766-7900</u>											
Fax # <u>(225) 766-7940</u>											
Supplier(s) Name(s) <u>Provednik Environmental</u>											

Lab Sample #	Field ID / Point of Collection	Air Type			Sampling Equipment Info			Start Sampling Information				Stop Sampling Information				Requested Analysis
		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 558	A	A1165	6L	537	10/10	0915	30	77	JK	10/11	0915	5.5	77	JK	Summar

Turnaround Time (Business days)	Approved By:	Date:	Data Deliverable Information	Comments / Remarks
<input checked="" type="checkbox"/> Standard - 15 Days <input type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day <input type="checkbox"/> Other	_____	_____	All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: DKQP reporting	INITIAL ASSESSMENT <u>4A-PP</u>  LABEL VERIFICATION _____  Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by: <u>PAUL HOLLER</u>	Date Time: <u>10/16/2020 0920</u>	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>	Date Time: <u>10/16/2020 0920</u>	Received By: <u>fedex</u>
Relinquished by: <u>3</u>	Date Time: <u>10/16/2020 10:00</u>	Received By: <u>[Signature]</u>	Relinquished By: <u>4</u>	Date Time: <u></u>	Received By: <u>4</u>
Relinquished by: <u>5</u>	Date Time: <u></u>	Received By: <u></u>	Custody Seal # <u>19699</u>	Date Time: <u></u>	Received By: <u></u>

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

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## SGS Sample Receipt Summary

Job Number: JD14830

Client: PROVIDENCE ENG

Project: PROVIDENCE - CAMS

Date / Time Received: 10/16/2020 10:00:00 AM

Delivery Method: \_\_\_\_\_

Airbill #'s: \_\_\_\_\_

**Cooler Temps (Raw Measured) °C:**

**Cooler Temps (Corrected) °C:**

**Cooler Security**

- |  |   |
|--|---|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> | 3. COC Present: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u>        |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u>  | 4. Smpl Dates/Time OK: <input checked="" type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> |

**Cooler Temperature**

- |  |     |
|--|-----|
| 1. Temp criteria achieved: <input type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> |     |
| 2. Cooler temp verification: _____   | N/A |
| 3. Cooler media: _____   | N/A |
| 4. No. Coolers: _____  | N/A |

**Quality Control Preservation**

- |                                 |  |  |  |
|---------------------------------|--|--|--|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> <u>Y</u>            | <input checked="" type="checkbox"/> <u>N</u> | <input type="checkbox"/> <u>N/A</u>            |
| 2. Trip Blank listed on COC:    | <input type="checkbox"/> <u>Y</u>            | <input checked="" type="checkbox"/> <u>N</u> | <input type="checkbox"/> <u>N/A</u>            |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> <u>Y</u> | <input type="checkbox"/> <u>N</u>            | <input type="checkbox"/> <u>N/A</u>            |
| 4. VOCs headspace free:         | <input type="checkbox"/> <u>Y</u>            | <input type="checkbox"/> <u>N</u>            | <input checked="" type="checkbox"/> <u>N/A</u> |

**Sample Integrity - Documentation**

- |  |  |                                   |
|--|--|-----------------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> <u>Y</u> | <input type="checkbox"/> <u>N</u> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> <u>Y</u> | <input type="checkbox"/> <u>N</u> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> <u>Y</u> | <input type="checkbox"/> <u>N</u> |

**Sample Integrity - Condition**

- |                                  |  |                                   |
|----------------------------------|--|-----------------------------------|
| 1. Sample recvd within HT:       | <input checked="" type="checkbox"/> <u>Y</u> | <input type="checkbox"/> <u>N</u> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> <u>Y</u> | <input type="checkbox"/> <u>N</u> |
| 3. Condition of sample:          | Intact                                       |                                   |

**Sample Integrity - Instructions**

- |  |  |  |  |  |
|--|--|--|--|--|
| 1. Analysis requested is clear:            | <input checked="" type="checkbox"/> <u>Y</u> | <input type="checkbox"/> <u>N</u>            |  |  |
| 2. Bottles received for unspecified tests: | <input type="checkbox"/> <u>Y</u>            | <input checked="" type="checkbox"/> <u>N</u> |  |  |
| 3. Sufficient volume recvd for analysis:   | <input checked="" type="checkbox"/> <u>Y</u> | <input type="checkbox"/> <u>N</u>            |  |  |
| 4. Compositing instructions clear:         | <input type="checkbox"/> <u>Y</u>            | <input type="checkbox"/> <u>N</u>            |  | <input checked="" type="checkbox"/> <u>N/A</u> |
| 5. Filtering instructions clear:           | <input type="checkbox"/> <u>Y</u>            | <input type="checkbox"/> <u>N</u>            |  | <input checked="" type="checkbox"/> <u>N/A</u> |

Test Strip Lot #s:      pH 1-12: 229517      pH 12+: 208717      Other: (Specify) \_\_\_\_\_

Comments

SM089-03  
Rev. Date 12/7/17

**JD14830: Chain of Custody**

Page 2 of 2

3.1  
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# Summa Canister and Flow Controller Log

**Job Number:** JD14830  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 10/16/20

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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

A1163	6	29.4	10/05/20	TCH	CP10886	6W19356.D	JD14830-1	10/19/20	JN	5.5			1
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**SGS Bottle Order(s):**  
 SW-093020-52

<b>Prep Date</b>	<b>Room Temp(F)</b>	<b>Bar Pres "Hg</b>
10/05/20	70	29.92