



CON 12-15
Doc #33980

January 19, 2018

Crown Cleaners
ATTN: Mr. Alan Anderson
5018 EP True Parkway
West Des Moines, IA 50265

RE: Chlorinate Solvents Monitoring – 2017 Quarter 4.

Dear Mr. Anderson:

Impact7G, Inc. (Impact7G) conducted chlorinated solvents monitoring of the Crown Cleaners facility and adjacent restaurant at 5018 EP True Parkway, West Des Moines, IA (Property). Impact7G collected samples to determine exposure levels to chlorinated solvents including: 1,2 Dichloroethane (aka Ethylene dichloride) (DCE), Tetrachloroethylene (aka Perchloroethylene) (PCE), Trichloroethylene (TCE), and Vinylidene Chloride. The monitoring location within the dry cleaning facility was in the boiler room, near the dry cleaning machine. The monitoring location within the adjacent restaurant was in the kitchen area. Personal monitoring pumps were calibrated to a flow rate of 0.021 Liters (L) per minute using a digital TSI 4146 Primary Calibrator. Each location was monitored for approximately 6.0 hours.

TABLE 1 – 2017 Q4 Monitoring Results (ppm)

Constituent	Cleaners Q4-1	Restaurant Q4-2	OSHA PEL	ACGIH TLV
1,2 Dichloroethane (DCE)	<0.069	<0.073	50	10
Tetrachloroethylene (PCE)	0.378	<0.219	100	25
Trichloroethylene (TCE)	<0.261	<0.277	100	10
Vinylidene Chloride	<0.353	<0.375	--	5

No constituents were detected to be above the laboratory's Reporting limit, or OSHA's Permissible Exposure Limit (PEL) and the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV). Both of these reference values are based on an 8-hour Time Weighted Average (TWA).

Should any questions arise, please feel free to contact Brandon Neilson at 515-473-6256 or bneilson@impact7g.com.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Brandon Neilson', written over a light blue horizontal line.

Brandon Neilson, CIH

Enclosures – Analytical Results



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Cedar Falls

704 Enterprise Drive

Cedar Falls, IA 50613

Tel: (319)277-2401

TestAmerica Job ID: 310-121429-1

Client Project/Site: Crown Cleaners Sampling Project

For:

Impact7G, Inc

9550 Hickman Road

Suite 105

Clive, Iowa 50325

Attn: Brandon Neilsen



Authorized for release by:

1/15/2018 4:14:48 PM

Brian Graettinger, Manager of Project Management

(319)277-2401

brian.graettinger@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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.

Case Narrative

Client: Impact7G, Inc
Project/Site: Crown Cleaners Sampling Project

TestAmerica Job ID: 310-121429-1

Job ID: 310-121429-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-121429-1

Comments

No additional comments.

Receipt

The samples were received on 12/22/2017 3:50 PM in good condition.

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

Sample Summary

Client: Impact7G, Inc
Project/Site: Crown Cleaners Sampling Project

TestAmerica Job ID: 310-121429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-121429-1	Q4-01, Drycleaner	Air	12/21/17 00:00	12/22/17 15:50
310-121429-2	Q4-02, Restaurant	Air	12/21/17 00:00	12/22/17 15:50
310-121429-3	Q4-Blank	Air	12/21/17 00:00	12/22/17 15:50



January 8, 2018

BRIAN GRAETTINGER
TESTAMERICA ANALYTICAL TESTING CORP
CEDAR FALLS DIVISION
704 ENTERPRISE DRIVE
CEDAR FALLS, IA 50613

Laboratory Workorder ID: V361064

Client Project ID: 310-121429
Received: December 27, 2017
Reported: January 8, 2018

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

A handwritten signature in black ink, reading "Andrew L. Teague". The signature is fluid and cursive, with the first name "Andrew" and last name "Teague" clearly legible.

Andrew L. Teague, CIH
Technical Director

Enclosures



Analytics Corporation
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Final Report

Work Order V361064

TESTAMERICA ANALYTICAL TESTING CORP
CEDAR FALLS DIVISION
704 ENTERPRISE DRIVE
CEDAR FALLS, IA 50613

Customer: 14709000
Attention: BRIAN GRAETTINGER
PO Number OR#917836

Date Received: 12/27/17
Client Project ID 310-121429

Lab ID: V361064001 Sample ID: 310-121429-1 Q4-01 DRYCLEANER Media: Charcoal Tube 50/100mg Sample Date: 12/21/2017 Sampling Time:

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
1,2-Dichloroethane	NIOSH Method 1003	01/05/18	7.14 L	2.0 ug	< 2 ug	ND	< 2 ug	< 0.28 mg/M3 < 0.0692 ppm
Tetrachloroethylene	NIOSH Method 1003	01/05/18	7.14 L	10.0 ug	18.3 ug	ND	18.3 ug	2.56 mg/M3 0.378 ppm
Trichloroethylene	NIOSH Method 1022	01/05/18	7.14 L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.4 mg/M3 < 0.261 ppm
Vinylidene Chloride	NIOSH Method 1015	01/05/18	7.14 L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.4 mg/M3 < 0.353 ppm

Lab ID: V361064002 Sample ID: 310-121429-2 Q4-02 RESTAURANT Media: Charcoal Tube 50/100mg Sample Date: 12/21/2017 Sampling Time:

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
1,2-Dichloroethane	NIOSH Method 1003	01/05/18	6.72 L	2.0 ug	< 2 ug	ND	< 2 ug	< 0.298 mg/M3 < 0.0735 ppm
Tetrachloroethylene	NIOSH Method 1003	01/05/18	6.72 L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.49 mg/M3 < 0.219 ppm
Trichloroethylene	NIOSH Method 1022	01/05/18	6.72 L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.49 mg/M3 < 0.277 ppm
Vinylidene Chloride	NIOSH Method 1015	01/05/18	6.72 L	10.0 ug	< 10 ug	ND	< 10 ug	< 1.49 mg/M3 < 0.375 ppm

Lab ID: V361064003 Sample ID: 310-121429-3 Q4-BLANK Media: Charcoal Tube 50/100mg Sample Date: 12/21/2017 Sampling Time:

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
1,2-Dichloroethane	NIOSH Method 1003	01/05/18	0 L	2.0 ug	< 2 ug	ND	< 2 ug	--
Tetrachloroethylene	NIOSH Method 1003	01/05/18	0 L	10.0 ug	< 10 ug	ND	< 10 ug	--

Report ID:: V361064-201801082408

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Analytics Corporation
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Final Report

Work Order V361064

Lab ID: V361064003 Sample ID: 310-121429-3 Q4-BLANK Media: Charcoal Tube 50/100mg Sample Date: 12/21/2017 Sampling Time:

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Trichloroethylene	NIOSH Method 1022	01/05/18	0	L	10.0 ug	< 10 ug	ND	< 10 ug	--
Vinylidene Chloride	NIOSH Method 1015	01/05/18	0	L	10.0 ug	< 10 ug	ND	< 10 ug	--



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General Laboratory Comments

Abbreviations:

ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

TestA

Ver: 09/20/2016

Accreditation/Certification and Definitions Summary

Client: Impact7G, Inc
Project/Site: Crown Cleaners Sampling Project

TestAmerica Job ID: 310-121429-1

Laboratory: TestAmerica Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
AIHA-LAP, LLC	IHLAP		101044	11-01-18
Georgia	State Program	4	IA100001 (OR)	09-29-18
Illinois	NELAP	5	200024	11-29-18
Iowa	State Program	7	007	12-01-17 *
Kansas	NELAP	7	E-10341	01-31-18
Minnesota	NELAP	5	019-999-319	12-31-18
Minnesota (Petrofund)	State Program	1	3349	08-22-18
North Dakota	State Program	8	R-186	09-29-18
Oregon	NELAP	10	IA100001	09-29-18

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Impact7G, Inc
Project/Site: Crown Cleaners Sampling Project

TestAmerica Job ID: 310-121429-1

Method	Method Description	Protocol	Laboratory
Perchloroethylene , 1,2 Dichloroethane Trichloroethylene	NIOSH 1003	NONE	Analytics
Vinylidene Chloride	NIOSH 1022	NONE	Analytics
	NIOSH 1015	NONE	Analytics

Protocol References:

NONE = NONE

Laboratory References:

Analytics = Analytics Corporation, 10329 Stony Run Lane, Ashland, VA 23005, TEL (800)888-8061



704 Enterprise Drive
Cedar Falls, IA 50613
Ph: 1-800-750-2401 or (319) 277-2401
Fax: (319) 277-2425
www.testamericainc.com

Laboratory Chain of Custody Form

Send Report To: Brandon Neilson

Send Invoice To: I

Company: Impact TG, Inc.

Address: 9550 Hickman Road, Suite 105

City, State, Zip: Clive, IA 50325

Page: 1 of 1

Phone: (515) 473-6256 Fax: Email Address: bmerfson@impact7g.com

Sampler: JK Project Name: Crown Cleaners Project No.: _____ P.O. #: _____

[illegible]

Sample Receipt	Reporting/Deliverables	Turn Around Time Requested
Temperature _____ °C	Hardcopy Results: Yes _____ No <input checked="" type="checkbox"/>	_____ Next Day by 6pm _____ 2 Business Days
Sample Seals: Yes _____ No _____	E-Mail Results: Yes <input checked="" type="checkbox"/> No _____	_____ 3 Business Days _____ 4 Business Days
Sample Seals Intact: Yes _____ No _____	EDD: Yes _____ No _____ Type: _____	<input checked="" type="checkbox"/> Standard 7 Business Days
Total # of Samples: _____	Data Package: Standard Level II: _____ Level III: _____ Level IV: _____	RUSH Charges Authorized _____ Yes _____ No
		Subject to scheduling and availability (RUSH surcharges apply)

Instructions / Special Requirements:

Date	Time	Samples Relinquished By	Received By
12-27-17	0835	<i>[Signature]</i>	<i>[Signature]</i>

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[Signature] 12-27-17

1/15/2018

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2
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4
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 Enterprise Drive • Cedar Falls, IA 50613

Tel 319-277-2401 • Fax 319-277-2425

IH Sample Receipt Form

Client: Impact 76 Project: Crown Cleaners

City: Clive IA

Date: 12-22-17 Receiver's Initials: D Time (Delivered): 1550

COC completed correctly? ☒ Yes ☐ No
(Cite inconsistencies below)

Sample Checklist (Mark non-conformance or acceptance)

<input type="checkbox"/>	Received Broken	<input type="checkbox"/>	Information Missing
<input type="checkbox"/>	Improper Media	<input type="checkbox"/>	Missing Sample
<input type="checkbox"/>	Missing Label	<input type="checkbox"/>	Sample Past Hold Date
<input type="checkbox"/>	Temperature	<input type="checkbox"/>	Extra Sample
<input type="checkbox"/>	COC Discrepancy	<input type="checkbox"/>	Insufficient Sample Volume
<input type="checkbox"/>	Other:		

Couriers

<input checked="" type="checkbox"/>	UPS	TA Courier
<input type="checkbox"/>	FedEx	Client
<input type="checkbox"/>	FedEx Ground	Other:
<input type="checkbox"/>	USPS	
<input type="checkbox"/>	Spee-Dee	

☒ The samples, as received, are acceptable for analysis

<input type="checkbox"/>	Samples not received in a cooler
<input checked="" type="checkbox"/>	Temperature not taken

Reviewed by: SED Date: 12/26/17

Comments Sample received in cooler with no ice no temp taken

SED