October 2, 2017

Clemson University
310 Klugh Avenue
Clemson, South Carolina 29634

Attn: Mr. W. Robert Newberry, IV
E-mail: wnewber@clemson.edu

Re: Limited Indoor Air Quality Investigation
Former Jacobs Chuck
1 Jacobs Road
Clemson, South Carolina
Terracon Project No. 86127158 Task 97

Dear Mr. Newberry:

Terracon Consultants, Inc. (Terracon) conducted a Limited Indoor Air Quality Investigation in three areas within the warehouses at the former Jacobs Chuck manufacturing facility located at 1 Jacobs Road in Clemson, South Carolina. This service was conducted in general accordance with our Master Service Agreement with Clemson University.

Project Information and Scope of Services

At the request of Clemson University, and based on a review of previous environmental reports provided by your office, Terracon representative Mr. Benjamin Hestir conducted a limited indoor air investigation in two areas within the warehouses on August 16, 2017. The scope was limited to collecting two samples for volatile organic compound (VOC) analysis to aide in evaluating whether the university would lease the buildings and use them for student research space. The samples were collected in the northwest portion of the facility in an area known to have groundwater that has been impacted by previous site activities. The following historical reports were reviewed prior to our VOC sampling event.

- Former Jacob's Chuck – Voluntary Cleanup Contract 14-5835 RP – South Carolina Department of Health and Environmental Control – January 20, 2015
- Jacob's Chuck Site Plan – CCAD Engineering – April 2, 2015
- Jacob's Chuck Building Schematic – unknown source – no date
- Jacob's Chuck - Remedial Investigation Work Plan – ERM NC Inc. – October 1, 2015

- Former Jacob's Chuck – Historical Soil Sample and Soil Gas Survey Locations – ERM NC Inc. – no date
- Former Jacob's Chuck – Remedial Work Plan Approval - November 4, 2015

Other than the two air samples analyzed for VOC's previously mentioned, no other sampling for environmental concerns were conducted by Terracon.

Methods

Stainless steel 6-liter SUMMA canisters were placed in the two locations for an approximate 24-hour period beginning in the morning of August 16th and ending in the morning on August 17th by Ben Hestir of Terracon. The building was locked during the sampling event and the HVAC was turned off. Indoor sample locations are approximated on the attached site figure.

The sample canisters, regulators and analysis were provided by Pace Analytical Laboratory (Pace) of Minneapolis, MN. The samples were analyzed for volatile organic compounds (VOCs) by EPA Method TO-15. At the end of the sampling period, the sample canisters and regulators were shipped to Pace via overnight courier under standard chain of custody.

Sampling Results

Analytical results from the two indoor air samples collected were compared to the most current version (June 2017 RSLs) of the Environmental Protection Agency's (EPA) Regional Screening Levels (RSLs) for residential air and industrial air. These screening levels were utilized rather than a comparison to OSHA permissible exposure limits as this is an indoor air investigation versus an occupational work task.

Of the fifty-eight (58) VOCs reported in the TO-15 analyte list, a total of twenty (20) VOCs were identified in one or more of the two samples collected. Five of the constituents detected exceeded one or both of the RSLs. They are:

- 1,2 Dichlorethane (1,2 DCA)
- Benzene
- Carbon tetrachloride
- Ethylbenzene
- Trichloroethene (TCE)

For the purposes of differentiating between residential and industrial RSLs, residential is based on 24-hour occupancy and industrial is based on occupancy typical to the work environment of 40 hours per week.

Attachment A is the summary table for the sampling event and Attachment B contains the laboratory analytical report from Pace Analytical.

Conclusions

The following conclusions are made based on the sampling and the limited review of previous environmental sampling data:

- Five separate VOCs exceed one or both of the RSLs.
- Since this is a work environment, the screening levels should be compared to the industrial screening levels. In this case four VOC's exceeded the screening level.
- The areas chosen are expected to provide "worst-case" based on a limited review of previous data reports.
- Some or all of the VOCs detected may be associated with a vapor intrusion condition caused by contaminated groundwater as identified in the limited data review.

Recommendations

Based on this evaluation, multiple VOCs were detected in the samples collected at levels exceeding the Industrial RSLs. Please note these are recommended screening levels. Concrete slab sealants designed to prevent vapor intrusion are available and may be an option to reduce potential exposures in the warehouses if the levels are of concern.

Closing

Terracon appreciates the opportunity to provide this service to Clemson University. If you have any questions regarding this report, please contact the undersigned at 864-292-2901.

Sincerely,
Terracon Consultants, Inc.

Benjamin Hestir, P.E.
Project Industrial Hygienist

Jeffrey A. Gurrie
Senior Industrial Hygienist

Attachment A: Indoor Air Results Summary Table
Attachment B: Pace Analytical Lab Report for August 16-17, 2017 samples
Attachment C: Approximate air sample location diagram

Terracon
Consulting Engineers & Scientists

	Sample #	Sample #	EPA RSLs for Industrial Air		EPA RSLs for Residential Air	
VOC Detected	Jacobs 1	Jacobs 2	Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1	Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
1,2,4-Trimethylbenzene	2.5	2.3		260.00		63.00
1,2-Dichloroethane	**14.6**	**12.0**	**0.47**	31.00	**0.11**	**7.30**
2-Butanone (MEK)	25.6	18.2		22,000.00		5,200.00
Acetone	62.9	58.6		140,000.00		32,000.00
Benzene	**3.6**	**2.7**	**1.60**	130.00	**0.36**	31.00
Carbon disulfide	2.2	1.4		3,100.00		730.00
Carbon tetrachloride	**2.3**	**2.2**	**2.00**	440.00	**0.47**	100.00
Chloromethane	2.4	2.1		390.00		94.00
Cyclohexane	1.4	1.0		26,000.00		6,300.00
Dichlorodifluoromethane	2.3	3.0		440.00		100.00
Ethylbenzene	ND	**1.3**	4.90	4,400.00	**1.10**	1,000.00
m&p-Xylene	4.7	4.3		440.00		100.00
Methylene Chloride	8.3	11.6	1,200.00	2,600.00	100.00	630.00
n-Hexane	5.5	4.6		3,100.00		730.00
o-Xylene	1.7	1.7		440.00		100.00
Tetrachloroethene	1.5	1.1	47.00	180.00	11.00	42.00
Toluene	7.0	5.9		22,000.00		5,200.00
Trichloroethene	**6.5**	**4.6**	**3.00**	8.80	**0.48**	**2.10**
Trichlorofluoromethane	22.6	20.5	No RSL	No RSL	No RSL	No RSL
Vinyl acetate	6.9	5.1		880.00		210.00

Note: All units are ug/m^3, RSL = Regional Screening Level, EPA = Environmental Protection Agency, ND = None Detected, VOC = Volatile Organic Compound

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 23, 2017

Ben Hestir
Terracon
3534 Rutherford Rd
Taylors, SC 29687

RE: Project: CU - Former Jacobs
Pace Project No.: 92352093

Dear Ben Hestir:
Enclosed are the analytical results for sample(s) received by the laboratory on August 18, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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CERTIFICATIONS

Project: CU - Former Jacobs
Pace Project No.: 92352093

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: UST-078
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: MN00064
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming via EPA Region 8 Certification #: 8TMS-L

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SAMPLE ANALYTE COUNT

Project: CU - Former Jacobs
Pace Project No.: 92352093

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92352093002	**Jacobs - 1**	TO-15	MJL	58	PASI-M
92352093003	**Jacobs - 2**	TO-15	MJL	58	PASI-M

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ANALYTICAL RESULTS

Project: CU - Former Jacobs
Pace Project No.: 92352093

Sample: Jacobs - 1 **Lab ID: 92352093002** Collected: 08/17/17 09:30 Received: 08/18/17 13:14 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**62.9**	ug/m3	3.6	1.49		08/21/17 19:37	67-64-1	
Benzene	**3.6**	ug/m3	0.48	1.49		08/21/17 19:37	71-43-2	
Bromodichloromethane	ND	ug/m3	2.0	1.49		08/21/17 19:37	75-27-4	
Bromoform	ND	ug/m3	3.1	1.49		08/21/17 19:37	75-25-2	
Bromomethane	ND	ug/m3	1.2	1.49		08/21/17 19:37	74-83-9	
1,3-Butadiene	ND	ug/m3	0.67	1.49		08/21/17 19:37	106-99-0	
2-Butanone (MEK)	**25.6**	ug/m3	4.5	1.49		08/21/17 19:37	78-93-3	
Carbon disulfide	**2.2**	ug/m3	0.94	1.49		08/21/17 19:37	75-15-0	
Carbon tetrachloride	**2.3**	ug/m3	0.95	1.49		08/21/17 19:37	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.49		08/21/17 19:37	108-90-7	
Chloroethane	ND	ug/m3	0.80	1.49		08/21/17 19:37	75-00-3	
Chloroform	ND	ug/m3	0.74	1.49		08/21/17 19:37	67-66-3	
Chloromethane	**2.4**	ug/m3	0.63	1.49		08/21/17 19:37	74-87-3	
Cyclohexane	**1.4**	ug/m3	1.0	1.49		08/21/17 19:37	110-82-7	
Dibromochloromethane	ND	ug/m3	2.6	1.49		08/21/17 19:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.49		08/21/17 19:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.49		08/21/17 19:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.49		08/21/17 19:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.49		08/21/17 19:37	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.5	1.49		08/21/17 19:37	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		08/21/17 19:37	75-34-3	
1,2-Dichloroethane	**14.6**	ug/m3	0.61	1.49		08/21/17 19:37	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		08/21/17 19:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		08/21/17 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		08/21/17 19:37	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.49		08/21/17 19:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.4	1.49		08/21/17 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.4	1.49		08/21/17 19:37	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.1	1.49		08/21/17 19:37	76-14-2	
Ethyl acetate	ND	ug/m3	1.1	1.49		08/21/17 19:37	141-78-6	
Ethylbenzene	ND	ug/m3	1.3	1.49		08/21/17 19:37	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.5	1.49		08/21/17 19:37	622-96-8	
n-Heptane	ND	ug/m3	1.2	1.49		08/21/17 19:37	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	8.1	1.49		08/21/17 19:37	87-68-3	
n-Hexane	**5.5**	ug/m3	1.1	1.49		08/21/17 19:37	110-54-3	
2-Hexanone	ND	ug/m3	6.2	1.49		08/21/17 19:37	591-78-6	
Methylene Chloride	**8.3**	ug/m3	5.3	1.49		08/21/17 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.2	1.49		08/21/17 19:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.5	1.49		08/21/17 19:37	1634-04-4	
Naphthalene	ND	ug/m3	4.0	1.49		08/21/17 19:37	91-20-3	
Propylene	ND	ug/m3	0.52	1.49		08/21/17 19:37	115-07-1	
Styrene	ND	ug/m3	1.3	1.49		08/21/17 19:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.49		08/21/17 19:37	79-34-5	
Tetrachloroethene	**1.5**	ug/m3	1.0	1.49		08/21/17 19:37	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.89	1.49		08/21/17 19:37	109-99-9	
Toluene	**7.0**	ug/m3	1.1	1.49		08/21/17 19:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.6	1.49		08/21/17 19:37	120-82-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CU - Former Jacobs
Pace Project No.: 92352093

Sample: Jacobs - 1 **Lab ID: 92352093002** Collected: 08/17/17 09:30 Received: 08/18/17 13:14 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		08/21/17 19:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.82	1.49		08/21/17 19:37	79-00-5	
Trichloroethene	**6.5**	ug/m3	0.82	1.49		08/21/17 19:37	79-01-6	
Trichlorofluoromethane	**22.6**	ug/m3	1.7	1.49		08/21/17 19:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.4	1.49		08/21/17 19:37	76-13-1	
1,2,4-Trimethylbenzene	**2.5**	ug/m3	1.5	1.49		08/21/17 19:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		08/21/17 19:37	108-67-8	
Vinyl acetate	**6.9**	ug/m3	1.1	1.49		08/21/17 19:37	108-05-4	
Vinyl chloride	ND	ug/m3	0.39	1.49		08/21/17 19:37	75-01-4	
m&p-Xylene	**4.7**	ug/m3	2.6	1.49		08/21/17 19:37	179601-23-1	
o-Xylene	**1.7**	ug/m3	1.3	1.49		08/21/17 19:37	95-47-6	

Sample: Jacobs - 2 **Lab ID: 92352093003** Collected: 08/17/17 09:35 Received: 08/18/17 13:14 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**58.6**	ug/m3	3.5	1.44		08/21/17 20:13	67-64-1	
Benzene	**2.7**	ug/m3	0.47	1.44		08/21/17 20:13	71-43-2	
Bromodichloromethane	ND	ug/m3	2.0	1.44		08/21/17 20:13	75-27-4	
Bromoform	ND	ug/m3	3.0	1.44		08/21/17 20:13	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.44		08/21/17 20:13	74-83-9	
1,3-Butadiene	ND	ug/m3	0.65	1.44		08/21/17 20:13	106-99-0	
2-Butanone (MEK)	**18.2**	ug/m3	4.3	1.44		08/21/17 20:13	78-93-3	
Carbon disulfide	**1.4**	ug/m3	0.91	1.44		08/21/17 20:13	75-15-0	
Carbon tetrachloride	**2.2**	ug/m3	0.92	1.44		08/21/17 20:13	56-23-5	
Chlorobenzene	ND	ug/m3	1.4	1.44		08/21/17 20:13	108-90-7	
Chloroethane	ND	ug/m3	0.78	1.44		08/21/17 20:13	75-00-3	
Chloroform	ND	ug/m3	0.71	1.44		08/21/17 20:13	67-66-3	
Chloromethane	**2.1**	ug/m3	0.60	1.44		08/21/17 20:13	74-87-3	
Cyclohexane	**1.0**	ug/m3	1.0	1.44		08/21/17 20:13	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.44		08/21/17 20:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.44		08/21/17 20:13	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.8	1.44		08/21/17 20:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.44		08/21/17 20:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.44		08/21/17 20:13	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.5	1.44		08/21/17 20:13	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.44		08/21/17 20:13	75-34-3	
1,2-Dichloroethane	**12.0**	ug/m3	0.59	1.44		08/21/17 20:13	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		08/21/17 20:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		08/21/17 20:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		08/21/17 20:13	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.44		08/21/17 20:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	1.44		08/21/17 20:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	1.44		08/21/17 20:13	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.44		08/21/17 20:13	76-14-2	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS

Project: CU - Former Jacobs
Pace Project No.: 92352093

Sample: Jacobs - 2 **Lab ID: 92352093003** Collected: 08/17/17 09:35 Received: 08/18/17 13:14 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Ethyl acetate	ND	ug/m3	1.1	1.44		08/21/17 20:13	141-78-6	
Ethylbenzene	**1.3**	ug/m3	1.3	1.44		08/21/17 20:13	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.4	1.44		08/21/17 20:13	622-96-8	
n-Heptane	ND	ug/m3	1.2	1.44		08/21/17 20:13	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.8	1.44		08/21/17 20:13	87-68-3	
n-Hexane	**4.6**	ug/m3	1.0	1.44		08/21/17 20:13	110-54-3	
2-Hexanone	ND	ug/m3	6.0	1.44		08/21/17 20:13	591-78-6	
Methylene Chloride	**11.6**	ug/m3	5.1	1.44		08/21/17 20:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	1.44		08/21/17 20:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	1.44		08/21/17 20:13	1634-04-4	
Naphthalene	ND	ug/m3	3.8	1.44		08/21/17 20:13	91-20-3	
Propylene	ND	ug/m3	0.50	1.44		08/21/17 20:13	115-07-1	
Styrene	ND	ug/m3	1.3	1.44		08/21/17 20:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.44		08/21/17 20:13	79-34-5	
Tetrachloroethene	**1.1**	ug/m3	0.99	1.44		08/21/17 20:13	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	1.44		08/21/17 20:13	109-99-9	
Toluene	**5.9**	ug/m3	1.1	1.44		08/21/17 20:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.44		08/21/17 20:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		08/21/17 20:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.79	1.44		08/21/17 20:13	79-00-5	
Trichloroethene	**4.6**	ug/m3	0.79	1.44		08/21/17 20:13	79-01-6	
Trichlorofluoromethane	**20.5**	ug/m3	1.6	1.44		08/21/17 20:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.44		08/21/17 20:13	76-13-1	
1,2,4-Trimethylbenzene	**2.3**	ug/m3	1.4	1.44		08/21/17 20:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		08/21/17 20:13	108-67-8	
Vinyl acetate	**5.1**	ug/m3	1.0	1.44		08/21/17 20:13	108-05-4	
Vinyl chloride	ND	ug/m3	0.37	1.44		08/21/17 20:13	75-01-4	
m&p-Xylene	**4.3**	ug/m3	2.5	1.44		08/21/17 20:13	179601-23-1	
o-Xylene	**1.7**	ug/m3	1.3	1.44		08/21/17 20:13	95-47-6	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CU - Former Jacobs
Pace Project No.: 92352093

QC Batch: 492334 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92352093002, 92352093003

METHOD BLANK: 2678699 Matrix: Air
Associated Lab Samples: 92352093002, 92352093003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	08/21/17 09:08	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	08/21/17 09:08	
1,1,2-Trichloroethane	ug/m3	ND	0.55	08/21/17 09:08	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	08/21/17 09:08	
1,1-Dichloroethane	ug/m3	ND	0.82	08/21/17 09:08	
1,1-Dichloroethene	ug/m3	ND	0.81	08/21/17 09:08	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	08/21/17 09:08	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	08/21/17 09:08	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	08/21/17 09:08	
1,2-Dichlorobenzene	ug/m3	ND	1.2	08/21/17 09:08	
1,2-Dichloroethane	ug/m3	ND	0.41	08/21/17 09:08	
1,2-Dichloropropane	ug/m3	ND	0.94	08/21/17 09:08	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	08/21/17 09:08	
1,3-Butadiene	ug/m3	ND	0.45	08/21/17 09:08	
1,3-Dichlorobenzene	ug/m3	ND	1.2	08/21/17 09:08	
1,4-Dichlorobenzene	ug/m3	ND	1.2	08/21/17 09:08	
2-Butanone (MEK)	ug/m3	ND	3.0	08/21/17 09:08	
2-Hexanone	ug/m3	ND	4.2	08/21/17 09:08	
4-Ethyltoluene	ug/m3	ND	1.0	08/21/17 09:08	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	08/21/17 09:08	
Acetone	ug/m3	ND	2.4	08/21/17 09:08	
Benzene	ug/m3	ND	0.32	08/21/17 09:08	
Bromodichloromethane	ug/m3	ND	1.4	08/21/17 09:08	
Bromoform	ug/m3	ND	2.1	08/21/17 09:08	
Bromomethane	ug/m3	ND	0.79	08/21/17 09:08	
Carbon disulfide	ug/m3	ND	0.63	08/21/17 09:08	
Carbon tetrachloride	ug/m3	ND	0.64	08/21/17 09:08	
Chlorobenzene	ug/m3	ND	0.94	08/21/17 09:08	
Chloroethane	ug/m3	ND	0.54	08/21/17 09:08	
Chloroform	ug/m3	ND	0.50	08/21/17 09:08	
Chloromethane	ug/m3	ND	0.42	08/21/17 09:08	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	08/21/17 09:08	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	08/21/17 09:08	
Cyclohexane	ug/m3	ND	0.70	08/21/17 09:08	
Dibromochloromethane	ug/m3	ND	1.7	08/21/17 09:08	
Dichlorodifluoromethane	ug/m3	ND	1.0	08/21/17 09:08	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	08/21/17 09:08	
Ethyl acetate	ug/m3	ND	0.73	08/21/17 09:08	
Ethylbenzene	ug/m3	ND	0.88	08/21/17 09:08	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	08/21/17 09:08	
m&p-Xylene	ug/m3	ND	1.8	08/21/17 09:08	

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(704)875-9092

QUALITY CONTROL DATA

Project: CU - Former Jacobs
Pace Project No.: 92352093

METHOD BLANK: 2678699 Matrix: Air
Associated Lab Samples: 92352093002, 92352093003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/m3	ND	3.7	08/21/17 09:08	
Methylene Chloride	ug/m3	ND	3.5	08/21/17 09:08	
n-Heptane	ug/m3	ND	0.83	08/21/17 09:08	
n-Hexane	ug/m3	ND	0.72	08/21/17 09:08	
Naphthalene	ug/m3	ND	2.7	08/21/17 09:08	
o-Xylene	ug/m3	ND	0.88	08/21/17 09:08	
Propylene	ug/m3	ND	0.35	08/21/17 09:08	
Styrene	ug/m3	ND	0.87	08/21/17 09:08	
Tetrachloroethene	ug/m3	ND	0.69	08/21/17 09:08	
Tetrahydrofuran	ug/m3	ND	0.60	08/21/17 09:08	
Toluene	ug/m3	ND	0.77	08/21/17 09:08	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	08/21/17 09:08	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	08/21/17 09:08	
Trichloroethene	ug/m3	ND	0.55	08/21/17 09:08	
Trichlorofluoromethane	ug/m3	ND	1.1	08/21/17 09:08	
Vinyl acetate	ug/m3	ND	0.72	08/21/17 09:08	
Vinyl chloride	ug/m3	ND	0.26	08/21/17 09:08	

LABORATORY CONTROL SAMPLE: 2678700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	69.1	125	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	86.4	124	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	67.9	122	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	95.5	123	70-130	
1,1-Dichloroethane	ug/m3	41.1	49.6	121	70-130	
1,1-Dichloroethene	ug/m3	40.3	50.4	125	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	91.7	122	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	59.6	119	70-136	
1,2-Dibromoethane (EDB)	ug/m3	78.1	93.8	120	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	73.4	120	70-139	
1,2-Dichloroethane	ug/m3	41.1	50.6	123	70-130	
1,2-Dichloropropane	ug/m3	47	58.2	124	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	58.6	117	70-133	
1,3-Butadiene	ug/m3	22.5	28.8	128	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	72.5	119	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	69.1	113	70-139	
2-Butanone (MEK)	ug/m3	30	34.4	115	70-130	
2-Hexanone	ug/m3	104	125	120	70-138	
4-Ethyltoluene	ug/m3	50	60.3	121	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	124	119	70-130	
Acetone	ug/m3	121	138	114	64-130	
Benzene	ug/m3	32.5	38.0	117	70-130	
Bromodichloromethane	ug/m3	68.1	87.4	128	70-134	

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(704)875-9092

QUALITY CONTROL DATA

Project: CU - Former Jacobs
Pace Project No.: 92352093

LABORATORY CONTROL SAMPLE: 2678700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/m3	105	120	114	70-150	
Bromomethane	ug/m3	39.5	50.8	129	70-130	
Carbon disulfide	ug/m3	31.6	38.4	121	70-134	
Carbon tetrachloride	ug/m3	64	74.5	116	68-150	
Chlorobenzene	ug/m3	46.8	54.1	116	70-132	
Chloroethane	ug/m3	26.8	32.4	121	70-132	
Chloroform	ug/m3	49.6	59.3	120	70-130	
Chloromethane	ug/m3	21	26.9	128	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	49.5	123	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	57.6	125	70-137	
Cyclohexane	ug/m3	35	43.8	125	70-130	
Dibromochloromethane	ug/m3	86.6	95.6	110	70-144	
Dichlorodifluoromethane	ug/m3	50.3	65.0	129	70-130	
Dichlorotetrafluoroethane	ug/m3	71	87.7	123	70-130	
Ethyl acetate	ug/m3	36.6	44.0	120	70-130	
Ethylbenzene	ug/m3	44.1	51.6	117	70-134	
Hexachloro-1,3-butadiene	ug/m3	108	140	129	45-150	
m&p-Xylene	ug/m3	88.3	102	116	70-130	
Methyl-tert-butyl ether	ug/m3	91.6	109	119	66-148	
Methylene Chloride	ug/m3	177	200	113	67-133	
n-Heptane	ug/m3	41.6	50.3	121	70-130	
n-Hexane	ug/m3	35.8	42.6	119	67-132	
Naphthalene	ug/m3	53.3	64.5	121	53-150	
o-Xylene	ug/m3	44.1	51.4	117	70-130	
Propylene	ug/m3	17.5	19.2	110	70-135	
Styrene	ug/m3	43.3	54.7	126	70-139	
Tetrachloroethene	ug/m3	68.9	80.5	117	70-130	
Tetrahydrofuran	ug/m3	30	38.7	129	70-130	
Toluene	ug/m3	38.3	44.0	115	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	48.8	121	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	59.4	129	70-142	
Trichloroethene	ug/m3	54.6	64.2	118	70-130	
Trichlorofluoromethane	ug/m3	57.1	71.4	125	70-130	
Vinyl acetate	ug/m3	35.8	44.6	124	70-137	
Vinyl chloride	ug/m3	26	30.4	117	70-130	

SAMPLE DUPLICATE: 2679903

Parameter	Units	10400125001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		

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QUALITY CONTROL DATA

Project: CU - Former Jacobs
Pace Project No.: 92352093

SAMPLE DUPLICATE: 2679903

Parameter	Units	10400125001 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/m3	ND	ND		
1,2,4-Trimethylbenzene	ug/m3	ND	ND		
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		
1,2-Dichlorobenzene	ug/m3	ND	ND		
1,2-Dichloroethane	ug/m3	ND	ND		
1,2-Dichloropropane	ug/m3	ND	ND		
1,3,5-Trimethylbenzene	ug/m3	ND	ND		
1,3-Butadiene	ug/m3	ND	ND		
1,3-Dichlorobenzene	ug/m3	ND	ND		
1,4-Dichlorobenzene	ug/m3	ND	ND		
2-Butanone (MEK)	ug/m3	8.3	8.8	5	
2-Hexanone	ug/m3	ND	ND		
4-Ethyltoluene	ug/m3	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		
Acetone	ug/m3	21.3	22.7	6	
Benzene	ug/m3	0.89	0.91	3	
Bromodichloromethane	ug/m3	ND	ND		
Bromoform	ug/m3	ND	ND		
Bromomethane	ug/m3	ND	ND		
Carbon disulfide	ug/m3	0.98	1.0	5	
Carbon tetrachloride	ug/m3	2.4	2.3	1	
Chlorobenzene	ug/m3	ND	ND		
Chloroethane	ug/m3	ND	ND		
Chloroform	ug/m3	ND	ND		
Chloromethane	ug/m3	0.92	1.1	14	
cis-1,2-Dichloroethene	ug/m3	ND	ND		
cis-1,3-Dichloropropene	ug/m3	ND	ND		
Cyclohexane	ug/m3	ND	ND		
Dibromochloromethane	ug/m3	ND	ND		
Dichlorodifluoromethane	ug/m3	2.3	2.8	19	
Dichlorotetrafluoroethane	ug/m3	ND	ND		
Ethyl acetate	ug/m3	ND	ND		
Ethylbenzene	ug/m3	ND	ND		
Hexachloro-1,3-butadiene	ug/m3	ND	ND		
m&p-Xylene	ug/m3	ND	1.6J		
Methyl-tert-butyl ether	ug/m3	ND	ND		
Methylene Chloride	ug/m3	ND	4.4J		
n-Heptane	ug/m3	ND	ND		
n-Hexane	ug/m3	1.4	1.5	7	
Naphthalene	ug/m3	ND	ND		
o-Xylene	ug/m3	ND	ND		
Propylene	ug/m3	ND	1.6		
Styrene	ug/m3	ND	ND		
Tetrachloroethene	ug/m3	1.6	1.4	13	
Tetrahydrofuran	ug/m3	ND	ND		
Toluene	ug/m3	3.6	3.7	3	
trans-1,2-Dichloroethene	ug/m3	ND	ND		

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QUALITY CONTROL DATA

Project: CU - Former Jacobs
Pace Project No.: 92352093

SAMPLE DUPLICATE: 2679903

Parameter	Units	10400125001 Result	Dup Result	RPD	Qualifiers
trans-1,3-Dichloropropene	ug/m3	ND	ND		
Trichloroethene	ug/m3	1.5	1.5	1	
Trichlorofluoromethane	ug/m3	ND	1.7J		
Vinyl acetate	ug/m3	2.8	2.9	3	
Vinyl chloride	ug/m3	ND	ND		

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QUALIFIERS

Project: CU - Former Jacobs
Pace Project No.: 92352093

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CU - Former Jacobs
Pace Project No.: 92352093

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92352093002	**Jacobs - 1**	TO-15	492334		
92352093003	**Jacobs - 2**	TO-15	492334		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company: Terracon
Address: 72 Pointe Circle
Greenville, SC 29615
Email To: ben.hestir@terracon.com
Phone: 864 Fax: 293-7348
Requested Due Date/TAT: Aug. 24, 2017

Section B Required Project Information:

Report To: Ben Hestir
Copy To:
Purchase Order No.:
Project Name: CU-Former Jacobs
Project Number: 86127158-Task97

Section C Invoice Information:

Attention: Terracon Corp Office
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☑ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: SC

Reporting Units: ug/m³ ✓ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

ITEM #	*Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: TO-15	Pace Lab ID
1	Jacobs-1	6LC		8/16/17	0930	8/17/17	0930	-30	-2	2703	C0229	✓	
2	Jacobs-2	"		8/16/17	0935	8/17/17	0935	-30	-2	2362	C0450	✓	
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Method: PM10; 3C: Fixed Gas (%); TO-3; TO-3M (Methane); TO-4 (PCBs); TO-13 (PAH); TO-14; TO-15; TO15 Short List*

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Ben Hestir / Terracon	8/17/17	1430	PACE	8/18/17	945

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Hestir

SIGNATURE of SAMPLER: Ben Hestir

DATE Signed (MM / DD / YY): 08/17/17

Pace Analytical	Document Name: **Air Sample Condition Upon Receipt**	Document Revised: 26APR2016 Page 1 of 1
	Document No.: **F-MN-A-106-rev.11**	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Terralon

Project #:

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 770 4426 9367

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** MDTS 8/18/17

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☑ Yes	☑ No	☐ N/A	6. MS. 8/18/17
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: **Date:**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)



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DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: BDH	Project No. 86127158 – Task 97
Drawn by: BDH	Scale: N.T.S.
Checked by: JAG	File Name:
Approved by: JAG	Date: October 2017

Terracon
Consulting Engineers & Scientists
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PH. (864) 292-2901 FAX. (864) 292-6301

VOC SAMPLE LOCATION DIAGRAM

Former Jacobs Chuck Facility
1 Jacobs Drive
Clemson, South Carolina

Attachment 3