

Harris County
HCPHES
Public Health & Environmental Services
Environmental Public Health Division

SAMPLE DATA

Ram Chemical Supply
4949 Greenhouse Road
Houston, TX 77084

ATTN:

SAMPLE LOCATION: Canister #621 - Cy-Lakes High School parking
lot on Greenhouse Road

ID NO.: 15436
SAMPLE NO.: NA-2481
OUTFALL: NA

SAMPLE DATE: 07/11/09
SAMPLE TIME: 10:55 PM

RUN NO.: 2009G13

SAMPLE AMOUNT 1 Canister

APPEARANCE:

SAMPLED BY: Lee . Nunn

VN SENT: _____

PLANT TYPE: NON PERMITTED SAMPLE TYPE: Grab

COPY TO: _____

| LABORATORY ANALYSIS | | | | |
|---------------------|--------------------|-----------|---------|-------|
| PARAMETER | ANALYTICAL RESULTS | | | SPIKE |
| | ORIGINAL | DUPLICATE | RECHECK | % |
| VOCs in Air | * | | | |
| SAMPLE COMMENTS | | | | |
| * See attachment. | | | | |

APPROVED DATE

APPROVED BY

7/17/09
Chapman
LABORATORY DIRECTOR

| | |
|----------------------------|-------------------------------------|
| Sample Name | Can. 621, 09 G 13, NA2481, ID 15436 |
| Location | 4949 Greenhouse Rd. |
| Date/Time Collected | 7/11/09, 10:55pm |
| Date Analyzed | 7/13/2009 400 cc |

| Name | Amount (ppbV) | |
|---------------------------------------|----------------------|---------|
| Ethane | 14.24 | |
| Ethene | 35.84 | |
| Acetylene | 8.37 | |
| Propane | 3.82 | |
| Propene | 12.99 | |
| C3's | 21.68 | |
| Dichlorodifluoromethane | ND | (<0.75) |
| Chloromethane | 5.15 | |
| Dichlorotetrafluoroethane | ND | (<0.75) |
| Isobutane | ND | (<0.75) |
| Vinyl chloride | ND | (<0.75) |
| 1-Butene | 3.69 | |
| 1,3-Butadiene | 2.22 | |
| Butane | 0.89 | |
| trans-2-butene | ND | (<0.75) |
| cis-2-butene | ND | (<0.75) |
| Bromomethane | ND | (<0.75) |
| Chloroethane | ND | (<0.75) |
| Trichloromonofluoromethane | ND | (<0.75) |
| Acrylonitrile | 1.12 | |
| 1,1-Dichloroethene | ND | (<0.75) |
| Methylene chloride | ND | (<0.75) |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | (<0.75) |
| 1,1-Dichloroethane | ND | (<0.75) |
| cis-1,2-Dichloroethene | ND | (<0.75) |
| Chloroform | ND | (<0.75) |
| 1,2-Dichloroethane | ND | (<0.75) |
| 1,1,1-Trichloroethane | ND | (<0.75) |
| Benzene | 12.12 | |
| Carbon tetrachloride | ND | (<0.75) |
| 1,2-Dichloropropane | ND | (<0.75) |
| Trichloroethylene | ND | (<0.75) |
| cis-1,3-Dichloropropene | ND | (<0.75) |
| trans-1,3-Dichloropropene | ND | (<0.75) |
| 1,1,2-Trichloroethane | ND | (<0.75) |
| Toluene | 3.73 | |
| 1,2-Dibromoethane | ND | (<0.75) |
| Tetrachloroethylene | ND | (<0.75) |
| Chlorobenzene | ND | (<0.75) |
| Ethylbenzene | 1.7 | |
| m/p-Xylene | ND | (<1.5) |
| Styrene | 3.69 | |

| | |
|----------------------------|-------------------------------------|
| Sample Name | Can. 621, 09 G 13, NA2481, ID 15436 |
| Location | 4949 Greenhouse Rd. |
| Date/Time Collected | 7/11/09, 10:55pm |
| Date Analyzed | 7/13/2009 400 cc |

| Name | Amount (ppbV) | |
|---------------------------|----------------------|---------|
| 1,1,2,2-Tetrachloroethane | ND | (<0.75) |
| o-Xylene | ND | (<0.75) |
| 1,3,5-Trimethylbenzene | ND | (<0.75) |
| 1,2,4-Trimethylbenzene | ND | (<0.75) |
| 1,3-Dichlorobenzene | ND | (<0.75) |
| 1,4-Dichlorobenzene | ND | (<0.75) |
| 1,2-Dichlorobenzene | ND | (<0.75) |

Tentatively Identified Compounds

| | |
|--------------|----|
| Acetaldehyde | ~2 |
| Acetone | ~3 |
| 1-Pentene | ~2 |
| 1-Hexene | ~2 |

| | |
|----------------------------|-------------------------------------|
| Sample Name | Can. 621, 09 G 13, NA2481, ID 15436 |
| Location | 4949 Greenhouse Rd. |
| Date/Time Collected | 7/11/09, 10:55pm |
| Date Analyzed | 7/13/2009 200 cc |

| Name | Amount (ppbV) | |
|---------------------------------------|----------------------|--------|
| Ethane | 14.46 | |
| Ethene | 36.36 | |
| Acetylene | 8.46 | |
| Propane | 3.88 | |
| Propene | 13.04 | |
| C3's | 22.38 | |
| Dichlorodifluoromethane | ND | (<1.5) |
| Chloromethane | 5.5 | |
| Dichlorotetrafluoroethane | ND | (<1.5) |
| Isobutane | ND | (<1.5) |
| Vinyl chloride | ND | (<1.5) |
| 1-Butene | 3.78 | |
| 1,3-Butadiene | 2.34 | |
| Butane | ND | (<1.5) |
| trans-2-butene | ND | (<1.5) |
| cis-2-butene | ND | (<1.5) |
| Bromomethane | ND | (<1.5) |
| Chloroethane | ND | (<1.5) |
| Trichloromonofluoromethane | ND | (<1.5) |
| Acrylonitrile | ND | (<1.5) |
| 1,1-Dichloroethene | ND | (<1.5) |
| Methylene chloride | ND | (<1.5) |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | (<1.5) |
| 1,1-Dichloroethane | ND | (<1.5) |
| cis-1,2-Dichloroethene | ND | (<1.5) |
| Chloroform | ND | (<1.5) |
| 1,2-Dichloroethane | ND | (<1.5) |
| 1,1,1-Trichloroethane | ND | (<1.5) |
| Benzene | 11.36 | |
| Carbon tetrachloride | ND | (<1.5) |
| 1,2-Dichloropropane | ND | (<1.5) |
| Trichloroethylene | ND | (<1.5) |
| cis-1,3-Dichloropropene | ND | (<1.5) |
| trans-1,3-Dichloropropene | ND | (<1.5) |
| 1,1,2-Trichloroethane | ND | (<1.5) |
| Toluene | 3.44 | |
| 1,2-Dibromoethane | ND | (<1.5) |
| Tetrachloroethylene | ND | (<1.5) |
| Chlorobenzene | ND | (<1.5) |
| Ethylbenzene | 1.58 | |
| m/p-Xylene | ND | (<3.0) |
| Styrene | 3.06 | |

| | |
|----------------------------|-------------------------------------|
| Sample Name | Can. 621, 09 G 13, NA2481, ID 15436 |
| Location | 4949 Greenhouse Rd. |
| Date/Time Collected | 7/11/09, 10:55pm |
| Date Analyzed | 7/13/2009 200 cc |

| Name | Amount (ppbV) | |
|---------------------------|----------------------|--------|
| 1,1,2,2-Tetrachloroethane | ND | (<1.5) |
| o-Xylene | ND | (<1.5) |
| 1,3,5-Trimethylbenzene | ND | (<1.5) |
| 1,2,4-Trimethylbenzene | ND | (<1.5) |
| 1,3-Dichlorobenzene | ND | (<1.5) |
| 1,4-Dichlorobenzene | ND | (<1.5) |
| 1,2-Dichlorobenzene | ND | (<1.5) |

Tentatively Identified Compounds

| | |
|---------|----|
| Acetone | ~4 |
|---------|----|

HARRIS COUNTY ENVIRONMENTAL PUBLIC HEALTH DIVISION

AMBIENT AIR
CANISTER SAMPLING FORM and CUSTODY RECORD

Date: 7/11/09 Time: 10:55 PM Sampled By: Lee NUNN

Name: RAM CHEMICAL SUPPLY

Site/Address: 4949 GREENHOUSE RD

Sample Location: CY-LAKE HIGH SCHOOL PARKING LOT ON
GREENHOUSE RD

Sample Information

Canister Serial No.: 621

Pressure Reading Before Sampling: -30 " Hg

Pressure Reading After Sampling: +2 " Hg

Sampler's Comments: SAMPLE TAKEN FROM SWIMMING POOL
SUPPLY WAREHOUSE FIRE

Custody Record

| | | |
|---|---------------------------------------|-------------------------------|
| Relinquished by Sampler: <u>Lee Nunn</u> | Date / Time <u>7/13/09 8:15 AM</u> | Received By: <u>Umaton</u> |
| Relinquished By: | Date / Time | Received By: |
| Relinquished By: | Date / Time | Received By: |

For Lab Use Only: Canister gauge reading on receipt: _____ " of HG

ID # 15436 NA # 2481 RUN NO 2009613

Atmospheric Information (Optional, but what information is available would be useful.)

| | |
|----------------------------|--|
| Temperature <u>82</u> | Barometric pressure |
| Humidity <u>~40 %</u> | Wind direction (from) <u>S - SE</u> |
| Wind speed <u>7-10 MPH</u> | Sky Conditions: cloudy <input type="checkbox"/> partly cloudy <input checked="" type="checkbox"/> clear <input type="checkbox"/> |

The Odor

If present, check the intensity level

| Description | Intensity | Description | Intensity |
|-----------------------|---|--------------------|--|
| rotten cabbage | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | onion/garlic | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| rotten eggs or sewage | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | gasoline | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| skunk | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | fish | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| burnt rubber | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | natural gas | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| nail polish | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | vinegar | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| asphalt | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | ammonia | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| bleach (chlorine) | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | burnt matches | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| diesel | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | almond | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| ether | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | petroleum | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> |
| mold or mildew | weak <input type="checkbox"/> medium <input type="checkbox"/> strong <input type="checkbox"/> | other <u>SMOKE</u> | weak <input type="checkbox"/> medium <input checked="" type="checkbox"/> strong <input type="checkbox"/> |

Where do you think the odor came from? SMOKE FROM SWIMMING POOL WAREHOUSE FIRE

Health Effects

Check all the apply

| | |
|----------------------------|----------------------|
| nausea | sinus problems |
| skin irritation | difficulty breathing |
| burning eyes | asthma |
| nose and throat irritation | fainting |
| headache | other |

Other Observations (Check all that apply)

| | | | | |
|---|--------|------|------|-------|
| smoke <input checked="" type="checkbox"/> | flames | haze | dust | other |
|---|--------|------|------|-------|

Describe other Observations

SMOKE VISIBLE IN SCHOOL PARKING LOT

ENVIRONMENTAL PUBLIC HEALTH DIVISION LABORATORY
HARRIS COUNTY PUBLIC HEALTH ENVIRONMENTAL SERVICES

ID: TO15_071309

ANALYTICAL NONCONFORMANCE REPORT

ID: TO15_071309

Date: 7/17/2009

Analysis: TO-15

Analyst: M. Cantu / R. V

Run Number: 2009F18, 2009F22, 2009F25, 2009G13

Number of samples: 4

Analysis Date: 7/13/2009

Nonconformance 1: LCS out of control

Nonconformance 2: LCS /LCSD Precision out of control

Nonconformance 3: Other

Nonconformance 4:

Impact on Data 1: Low bias

Impact on Data 2:

Impact on Data 3:

ADDITIONAL ACTION REQUIRED

☐ Corrective action required ☐ Root cause analysis required ☐ Preventive action required

COMMENTS

TO15 Calibration mix used as 2nd Source standard expired on July 2nd. A new stock has been ordered and will be here on July 21 or 22.

ANALYST

R. Versteeg

SUPERVISOR

CB

QA/QC

mm 7/16/09

MANAGER

CB

INCLUDE WITH REPORT



Revised Nonconformance Details by Compound

ID

TO15_071309

| Compound | QC Type | % Deviation | % Recovery | RPD |
|---------------------------|--------------------|-------------|------------|-----|
| 1,2,4-Trichlorobenzene | LCS/LCSD Precision | 0 | 0 | 21 |
| 1,2,4-Trichlorobenzene | LCSD Recovery | 0 | 65 | 0 |
| Bromomethane | LCSD Recovery | 0 | 63 | 0 |
| Bromomethane | LCS Recovery | 0 | 69 | 0 |
| Hexachloro-1,3-Butadiene | LCSD Recovery | 0 | 69 | 0 |
| Styrene | LCSD Recovery | 0 | 44 | 0 |
| Styrene | LCS Recovery | 0 | 52 | 0 |
| Tetrachloroethylene | LCS/LCSD Precision | 0 | 0 | 21 |
| trans-1,3-Dichloropropene | LCSD Recovery | 0 | 67 | 0 |

ENVIRONMENTAL PUBLIC HEALTH DIVISION LABORATORY
HARRIS COUNTY PUBLIC HEALTH ENVIRONMENTAL SERVICES

ID: TO15_071409

ANALYTICAL NONCONFORMANCE REPORT

ID: TO15_071409 Date: 7/17/2009
Analysis: TO-15 Analyst: Verastegui, R.
Run Number: 2009G13 Number of samples: 1
Analysis Date: 7/14/2009

Nonconformance 1: LCS out of control
Nonconformance 2: Other
Nonconformance 3:
Nonconformance 4:

Impact on Data 1: Low bias
Impact on Data 2:
Impact on Data 3:

ADDITIONAL ACTION REQUIRED

☐ Corrective action required ☐ Root cause analysis required ☐ Preventive action required

COMMENTS

TO15 Calibration mix used as 2nd source standard expired on 07/02/09. A new stock was ordered and will be here early next week.

ANALYST

R. Verastegui

SUPERVISOR

SB

QA/QC

Wm 7/16/09

MANAGER

SB

INCLUDE WITH REPORT



Revised Nonconformance Details by Compound

ID

TO15_071409

| Compound | QC Type | % Deviation | % Recovery | RPD |
|---------------------------|---------------|-------------|------------|-----|
| Bromomethane | LCSD Recovery | 0 | 68 | 0 |
| Bromomethane | LCS Recovery | 0 | 64 | 0 |
| Styrene | LCSD Recovery | 0 | 48 | 0 |
| Styrene | LCS Recovery | 0 | 46 | 0 |
| Trans-1,2-Dichloropropene | LCS Recovery | 0 | 70 | 0 |