



North American Refining

Conoco Inc.  
P. O. Box 37  
Westlake, LA 70669  
(318) 491-5211

February 27, 1981

Virgil Doty  
C-TEK  
9742 Skillman  
Dallas, TX 75243

Dear Virgil:

Please note enclosed samples for coal tar pitch volatiles analysis. The samples were collected on GF + .8um Ag membrane filters. Analyze each sample for CTPV content and express results as an eight hour TWA in mg/m<sup>3</sup>. Should any sample exceed 0.1mg/m<sup>3</sup> CTPV's, evaluate the sample for specific PNA's. Express these results in an eight hour TWA in mg/m<sup>3</sup>.

Included with the above samples is one sample for cresol. It was collected on silica gel. Please analyze for cresol and express the results as an eight hour TWA in ppm.

Bill charges per previous billing instructions.

Sincerely,

Mike Johnston  
Industrial Hygienist  
Lake Charles Refinery

MJ:ar  
Enclosures

MCD 000023714

# MPLE DATA ON CTPV SAMPLES

| <u>Field Sample No.</u> | <u>Time Period</u> | <u>Sample Vol.</u>  | <u>Temp.</u> | <u>Humidity</u> | <u>Bar Press.</u> |
|-------------------------|--------------------|---------------------|--------------|-----------------|-------------------|
| 24-3-81-1               | 477 Min.           | .7203m <sup>3</sup> | 76°F         | 28%             | 30.07             |
| 24-3-81-2               | 480 Min.           | .7248m <sup>3</sup> | 76°F         | 28%             | 30.07             |
| 24-3-81-3               | 480 Min.           | .720m <sup>3</sup>  | 76°F         | 28%             | 30.07             |
| 24-3-81-4               | 470 Min.           | .7097m <sup>3</sup> | 67°F         | 74%             | 30.25             |
| 24-3-81-5               | 472 Min.           | .7127m <sup>3</sup> | 67°F         | 74%             | 30.25             |
| 24-3-81-6               | 475 Min.           | .7125m <sup>3</sup> | 67°F         | 74%             | 30.25             |
| 24-3-81-7               | Blank              |                     | 67°F         | 74%             | 30.25             |

|            |          |                     |      |     |       |
|------------|----------|---------------------|------|-----|-------|
| 12-6-79-52 | 469 Min. | .7082m <sup>3</sup> | 57°F | 75% | 29.98 |
| 12-6-79-53 | 469 Min. | .7082m <sup>3</sup> | 57°F | 75% | 29.98 |
| 12-6-79-54 | 474 Min. | .7157m <sup>3</sup> | 57°F | 75% | 29.98 |
| 12-6-79-55 | 468 Min. | .7067m <sup>3</sup> | 57°F | 75% | 29.98 |
| 12-6-79-56 | 474 Min. | .7157m <sup>3</sup> | 57°F | 75% | 29.98 |
| 12-6-79-58 | 480 Min. | .7248m <sup>3</sup> | 57°F | 75% | 29.98 |
| 12-6-79-59 | 471 Min. | .7065m <sup>3</sup> | 57°F | 75% | 29.98 |
| 12-6-79-60 | Blank    |                     | 57°F | 75% | 29.98 |

## SAMPLE DATA FOR CRESOL

|            |          |      |      |     |       |
|------------|----------|------|------|-----|-------|
| 12-6-79-57 | 465 Min. | 94 l | 57°F | 75% | 29.92 |
| 12-6-79-61 | Blank    |      | 57°F | 75% | 29.92 |

NOTE: Other phenolics may be present.

Field Report

|                                                  |                                 |                                                   |                          |
|--------------------------------------------------|---------------------------------|---------------------------------------------------|--------------------------|
| <del>WASTE TREATMENT POND</del><br>Blowdown Pond |                                 | Sample No.<br>12-6-77-62                          | Sampling Date<br>2-27-81 |
|                                                  |                                 | Shift<br>day                                      | Supervisor<br>G. SIGUR   |
| Pump Serial No.<br>1077                          | Collecting Media<br>6F + 8um Ag | Pump Flow Rate<br>1.5 l/m START<br>1.503 l/m STOP |                          |
| Time Sampling Began<br>7:36                      | Time Sampling Ended<br>3:35     |                                                   |                          |
| Suspected Hazard<br>CTPV/PNA                     |                                 |                                                   |                          |

Description of Work Performed During Sampling Time

Drum quenched during sampling

|                                                                                                                                                                      |                                                                                     |                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment Name/Model<br>MSA MA16 Pump                                                                                                                                | Sampling Train Description                                                          | Pump Calibration Date<br>2-26-81                                                                                                                               |
| Type of Monitoring<br><input type="checkbox"/> General <input type="checkbox"/> Task<br><input type="checkbox"/> Turnaround <input checked="" type="checkbox"/> Area | Weather Conditions<br>Temp 76°F Wind Speed 10 mph<br>Humidity 78% Wind Direction SW | Check One<br><input type="checkbox"/> Clear <input checked="" type="checkbox"/> Partly Cloudy<br><input type="checkbox"/> Cloudy <input type="checkbox"/> Rain |
| Report Filed by<br>M. Johnston                                                                                                                                       | Date<br>2-27-81                                                                     |                                                                                                                                                                |

Laboratory Report

|                  |                                    |                                                                           |
|------------------|------------------------------------|---------------------------------------------------------------------------|
| Date of Analysis | Sample Duration (Hrs)<br>7hr 59min | Total Amount Air Sampled<br>479 x 1.5 = 718.5 l/m (.7185 m <sup>3</sup> ) |
|------------------|------------------------------------|---------------------------------------------------------------------------|

Analysis of Sample

.912 mg/m<sup>3</sup>

Comments

Acridine .038 mg/m<sup>3</sup>

Phenylene .066 mg/m<sup>3</sup>

Naphthalene .003 "

Benzo a Anthracene .014 mg/m<sup>3</sup>

Anthracene .005 "

Fluoranthene .034 "

Pyrene .003 "

MCD 000023716

|                             |                                    |
|-----------------------------|------------------------------------|
| Recovery Efficiency Percent | Date Recovery Efficiency Conducted |
| Equipment Name/Model        | Report Filed By                    |
|                             | Date                               |