



# Environmental Services Laboratory

Date: 07-Jul-99

CLIENT: Pinnacle Laboratories  
Work Order: 9906145  
Project: 906097/PE/Yard Drums

## QC SUMMARY REPORT Minerals ICV for ICP

| Sample ID: ICVHI   | Batch ID: 584       | Test Code: ICPMET | Units: mg/L | Analysis Date: 06/30/99 | Prep Date:                                             |
|--------------------|---------------------|-------------------|-------------|-------------------------|--------------------------------------------------------|
| Client ID: 9906145 | Run ID: ICP_990630B |                   |             | SeqNo: 16235            |                                                        |
| Analyte            | Result              | PQL               | SPK value   | SPK Ref Val             | %REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual |
| Calcium            | 24.36               | 0.05              | 25          | 0                       | 97.4% 90 110 0                                         |
| Magnesium          | 23.68               | 0.05              | 25          | 0                       | 94.7% 90 110 0                                         |
| Sodium             | 4.825               | 0.2               | 5           | 0                       | 96.5% 90 110 0                                         |

Sample ID: ICVLOW Batch ID: 584 Test Code: ICPMET Units: mg/L Analysis Date: 06/30/99 Prep Date:  
Client ID: 9906145 Run ID: ICP\_990630B SeqNo: 16236

| Analyte         | Result | PQL   | SPK value | SPK Ref Val | %REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual |
|-----------------|--------|-------|-----------|-------------|--------------------------------------------------------|
| Arsenic         | .5063  | 0.005 | 0.5       | 0           | 101.3% 90 110 0                                        |
| Barium          | .4966  | 0.005 | 0.5       | 0           | 99.3% 90 110 0                                         |
| Cadmium         | .5001  | 0.002 | 0.5       | 0           | 100.0% 90 110 0                                        |
| Chromium, 200.7 | .5064  | 0.005 | 0.5       | 0           | 101.3% 95 105 0                                        |
| Copper, 200.7   | .5068  | 0.005 | 0.5       | 0           | 101.4% 95 105 0                                        |
| Lead, 200.7     | .5069  | 0.005 | 0.5       | 0           | 101.4% 95 105 0                                        |
| Potassium       | 5.165  | 0.2   | 5         | 0           | 103.3% 90 110 0                                        |
| Selenium        | .5029  | 0.005 | 0.5       | 0           | 100.6% 90 110 0                                        |
| Silver          | .503   | 0.005 | 0.5       | 0           | 100.6% 90 110 0                                        |
| Zinc, 200.7     | .4991  | 0.005 | 0.5       | 0           | 99.8% 95 105 0                                         |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

|        |                |  |  |   |
|--------|----------------|--|--|---|
| Helper | Victor Calis   |  |  | 3 |
| Helper | Hector Barilla |  |  | 3 |

RC1-029613A

Date \_\_\_\_\_

**CLIENT:** Pinnacle Laboratories  
**Work Order:** 9906145  
**Project:** 906097/PE/Yard Drums

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

|                |               |                    |                  |                        |            |
|----------------|---------------|--------------------|------------------|------------------------|------------|
| Sample ID: CCV | Batch ID: 587 | Test Code: SW8270B | Units: µg/L      | Analysis Date 07/06/99 | Prep Date: |
| Client ID:     | 9906145       | Run ID:            | MANFREDD_990706A | SeqNo: 16599           |            |

| Analyte                 | Result | PQL | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------|--------|-----|-----------|-------------|--------|----------|-----------|-------------|------|----------|------|
| 1,4-Dichlorobenzene     | 49.1   | 5   | 50        | 0           | 98.2%  | 80       | 120       | 0           |      |          |      |
| 2,4,6-Trichlorophenol   | 51.1   | 5   | 50        | 0           | 102.2% | 80       | 120       | 0           |      |          |      |
| 2,4-Dichlorophenol      | 49.7   | 5   | 50        | 0           | 99.4%  | 80       | 120       | 0           |      |          |      |
| 2-Nitrophenol           | 50     | 5   | 50        | 0           | 100.0% | 80       | 120       | 0           |      |          |      |
| 4-Chloro-3-methylphenol | 49.7   | 5   | 50        | 0           | 99.4%  | 80       | 120       | 0           |      |          |      |
| Acenaphthene            | 47.8   | 5   | 50        | 0           | 95.6%  | 80       | 120       | 0           |      |          |      |
| Benzo(a)pyrene          | 50.5   | 5   | 50        | 0           | 101.0% | 80       | 120       | 0           |      |          |      |
| Di-n-octyl phthalate    | 52.5   | 5   | 50        | 0           | 105.0% | 80       | 120       | 0           |      |          |      |
| Fluoranthene            | 49.8   | 5   | 50        | 0           | 99.6%  | 80       | 120       | 0           |      |          |      |
| Hexachlorobutadiene     | 48.4   | 5   | 50        | 0           | 96.8%  | 80       | 120       | 0           |      |          |      |
| N-Nitrosodiphenylamine  | 49.3   | 5   | 50        | 0           | 98.6%  | 80       | 120       | 0           |      |          |      |
| Pentachlorophenol       | 41.3   | 5   | 50        | 0           | 82.6%  | 80       | 120       | 0           |      |          |      |
| Phenol                  | 49.7   | 5   | 50        | 0           | 99.4%  | 80       | 120       | 0           |      |          |      |
| 2,4,6-Tribromophenol    | 52.5   | 5   | 50        | 0           | 105.0% | 80       | 120       | 0           |      |          |      |
| 2-Fluorobiphenyl        | 48.9   | 5   | 50        | 0           | 97.8%  | 80       | 120       | 0           |      |          |      |
| 2-Fluorophenol          | 50.6   | 5   | 50        | 0           | 101.2% | 80       | 120       | 0           |      |          |      |
| 4-Terphenyl-d14         | 48.85  | 5   | 50        | 0           | 97.7%  | 80       | 120       | 0           |      |          |      |
| Nitrobenzene-d5         | 49.3   | 5   | 50        | 0           | 98.6%  | 80       | 120       | 0           |      |          |      |
| Phenol-d5               | 49.77  | 5   | 50        | 0           | 99.5%  | 80       | 120       | 0           |      |          |      |

|                |               |                    |              |                        |                     |
|----------------|---------------|--------------------|--------------|------------------------|---------------------|
| Sample ID: ICV | Batch ID: 591 | Test Code: Mercury | Units: mg/L  | Analysis Date 07/02/99 | Prep Date: 07/01/99 |
| Client ID:     | 9906145       | Run ID:            | MERC_990702B | SeqNo: 16396           |                     |

| Analyte | Result | PQL    | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|-------------|--------|----------|-----------|-------------|------|----------|------|
| Mercury | .00208 | 0.0002 | 0.002     | 0           | 104.0% | 90       | 110       | 0           |      |          |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits