BAS 01-07110

BRYAN A. STIRRAT & ASSOCIATES

# CHAIN OF CUSTODY



**PROJECT INFORMATION**

PROJECT NAME: GREGORY CANYON
JOB NUMBER: —
PROJECT MANAGER: SARAH BATTELLE
LABORATORY: BC LABS
SHIPMENT METHOD: LAB COURIER
TURNAROUND TIME:

DISPOSAL: Lab Disposal [ ] Return [ ] Pick Up [ ]

| BAS Sample I.D. | LAB I.D. | DATE | TIME | MATRIX | NUMBER OF CONTAINERS | Chloride, Sulfate, Nitrate (N), pH, TDS | Metals (Ca, Mg, Na) | CAM Metals (Except Molybdenum) + Tin | 8260 (Volatile Organics including isobutyl alcohol | 8270 (SVOCs including organophosphorus pesticides | Cyanide, sulfide | 8150 (Chlorinated Herbicides) | 8080 (Organochlorine Pesticides & PCBs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GLA-12 | -1 | 6-20-01 | 1440 | GW | 9 | X | X | X | X | X | X | X | X |
| GLA-13 | -2 | ↓ | 1110 | ↓ | 9 | X | X | X | X | X | X | X | X |
| GLA-11 | -3 | ↓ | 1240 | ↓ | 9 | X | X | X | X | X | X | X | X |
| GLA-16 | -4 | ↓ | 1005 | ↓ | 9 | X | X | X | X | X | X | X | X |
| LUCIO #2 | -5 | ↓ | 1245 | ↓ | 9 | X | X | X | X | X | X | X | X |
| EQUIP BLANK | -6 | ↓ | — | W | 1 | | | | X | | | | |
| FIELD BLANK | -7 | ↓ | — | ↓ | 1 | | | | X | | | | |
| TRIP BLANK | -8TB | ↓ | — | ↓ | 1 | | | | X | | | | |

* No Bottle received (8TB) don't run pc 6/21/01

REC'D JUL 18 2001

CHK BY: APR
DISTRIBUTION: MABGSB
SUB-OUT ☐

SHORT HOLDING TIME
$Cr^{+6}$ $NO_2$ $NO_3$ OP SS
DO BOD MBAS C O T

| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) |
|---|---|---|
| [signature] | 6-20-01 1700 | [signature] |
| [signature] | 6/21/01 1245 | [signature] |
| [signature] | 6-21-01 15150 | [signature] 6-21-01 1550 |

**SAMPLE CONDITION (Lab Initials)**

Shipping Container:
Sealed _____
Sample(s):
Integrity _____
Chilled _____
Sealed _____

**COMMENTS:**
EQUIP. & FIELD Blanks collected w/ BAS DI water.
No container provi FOR CYANIDE paran ter.

1360 Valley Vista Drive, Diamond Bar, CA 91765 (909) 860-7777 FAX (909) 860-8017

Original to accompany lab report Copy 1 – Lab Copy 2 – Originatc

**BC Laboratories, Inc.**



WATER ANALYSIS
(GENERAL CHEMISTRY)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/11/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

RECD JUL 1 8 2001

RECD JUL 1 8 2001

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-12
Sampling Date/Time: 06/20/2001 @ 14:40

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 49. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | 30. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | 88. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | 38. | mg/L | 1. | 0.25 | EPA-300.0 |
| Chloride | 119. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | 0.28 | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | 7.16 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | 520. | mg/L | 40. | 20. | EPA-160.1 |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

California D.O.H.S. Cert. #1186

M. Atencio

Marna Atencio
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/11/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-13
Sampling Date/Time: 06/20/2001 @ 11:10

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 100. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | 65. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | 130. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | 137. | mg/L | 1. | 0.25 | EPA-300.0 |
| Chloride | 269. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | 29.3 | mg/L | 0.2 | 0.040 | EPA-300.0 |
| pH | 7.19 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | 990. | mg/L | 50. | 30. | EPA-160.1 |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

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DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/11/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-11
Sampling Date/Time: 06/20/2001 @ 12:40

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 98. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | 32. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | 110. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | 85. | mg/L | 1. | 0.25 | EPA-300.0 |
| Chloride | 184. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | 0.32 | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | 7.60 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | 750. | mg/L | 50. | 30. | EPA-160.1 |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

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DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/11/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-16
Sampling Date/Time: 06/20/2001 @ 10:05

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 85. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | 41. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | 81. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | 108. | mg/L | 1. | 0.25 | EPA-300.0 |
| Chloride | 109. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | 6.60 | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | 7.49 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | 683. | mg/L | 40. | 20. | EPA-160.1 |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

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M.D.L. = Method Detection Limit

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(GENERAL CHEMISTRY)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/11/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: LUCIO#2
Sampling Date/Time: 06/20/2001 @ 12:45

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 94. | mg/L | 0.05 | 0.02 | EPA-6[illegible] |
| Magnesium | 34. | mg/L | 0.05 | 0.02 | EPA-6[illegible] |
| Sodium | 67. | mg/L | 0.5 | 0.07 | EPA-6[illegible] |
| Sulfate | 159. | mg/L | 1. | 0.25 | EPA-3[illegible] |
| Chloride | 103. | mg/L | 0.5 | 0.090 | EPA-3[illegible] |
| Nitrate as N | 0.57 | mg/L | 0.1 | 0.020 | EPA-3[illegible] |
| pH | 7.35 | pH Units | -. | -. | EPA-9[illegible] |
| Total Dissolved Solids @ 180 C | 667. | mg/L | 40. | 20. | EPA-1[illegible] |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9[illegible] |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-3[illegible] |

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M.D.L. = Method Detection Limit

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WATER ANALYSIS
(METALS)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-12
Sampling Date/Time: 06/20/2001 @ 14:40

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 20. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | | 30. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | | 10. | µg/L | 10. | 0.89 | EPA-6010 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.

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Dan Schultz
Laboratory Director

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WATER ANALYSIS
(METALS)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-13
Sampling Date/Time: 06/20/2001 @ 11:10

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | *02 | 10. | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 79. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | *02 | 3.0 | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | | 30. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | | 47. | µg/L | 10. | 0.89 | EPA-6010 |

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Flag Explanations:
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*02 = Sample result is between the MDL and PQL.

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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-11
Sampling Date/Time: 06/20/2001 @ 12:40

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | 4. | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | *02 | 6.0 | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | 20. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | *02 | 6.0 | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | | 13. | µg/L | 10. | 0.89 | EPA-6010 |

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Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-16
Sampling Date/Time: 06/20/2001 @ 10:05

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | *02 | 1. | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 81. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | | 30. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | *02 | 1.2 | µg/L | 10. | 0.89 | EPA-6010 |

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*02 = Sample result is between the MDL and PQL.

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Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: LUCIO#2
Sampling Date/Time: 06/20/2001 @ 12:45

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Meth |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7 |
| Dissolved Barium | | 110. | µg/L | 10. | 0.9 | EPA-6 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6 |
| Dissolved Chromium | *02 | 4.0 | µg/L | 10. | 4. | EPA-6 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6 |
| Dissolved Copper | *02 | 6. | µg/L | 10. | 3. | EPA-6 |
| Dissolved Lead | * | 0.7 | µg/L | 1. | 0.40 | EPA-7 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7 |
| Dissolved Nickel | | None Detected | µg/L | 10. | 3. | EPA-6 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7 |
| Dissolved Silver | *02 | 5. | µg/L | 10. | 3. | EPA-6 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7 |
| Dissolved Vanadium | | 10. | µg/L | 10. | 3. | EPA-6 |
| Dissolved Zinc | *02 | 9.0 | µg/L | 10. | 0.89 | EPA-6 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
- * = Sample result is between the MDL and PQL.
  Continuing calibration blank result is between the MDL and PQL.
- *01 = Note: PQL's and MDL's are raised due to matrix interferences.
- *02 = Sample result is between the MDL and PQL.

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Dan Schultz
Laboratory Director

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**BC Laboratories, Inc.**



Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/03/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-12
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 14:40
Date Extracted: 06/22/2001
Date Analyzed: 06/26/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 |
| Toxaphene | None Detected | µg/L | 2. | 1. |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 |
| Surrogates | | | | |
| TCMX | 81. | % | 51-118 | |
| Dibutyl chlorendate | 98. | % | 62-142 | |

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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**BC Laboratories, Inc.**



Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/03/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-13
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 11:10
Date Extracted: 06/22/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 |
| Toxaphene | None Detected | µg/L | 2. | 1. |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 |
| Surrogates | | | | |
| TCMX | 76. | % | 51-118 | |
| Dibutyl chlorendate | 92. | % | 62-142 | |

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Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/03/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-11
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 12:40
Date Extracted: 06/22/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 |
| Toxaphene | None Detected | µg/L | 2. | 1. |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 |
| Surrogates | | | | |
| TCMX | 72. | % | 51-118 | |
| Dibutyl chlorendate | 81. | % | 62-142 | |

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Stuart G. Buttram
Department Supervisor

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/03/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-16
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 10:05
Date Extracted: 06/22/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 |
| Toxaphene | None Detected | µg/L | 2. | 1. |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 |
| Surrogates | | | | |
| TCMX | 79. | % | 51-118 | |
| Dibutyl chlorendate | 104. | % | 62-142 | |

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Stuart G. Buttram
Department Supervisor

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/03/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: LUCIO#2
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 12:45
Date Extracted: 06/22/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 |
| Toxaphene | None Detected | µg/L | 2. | 1. |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 |
| Surrogates | | | | |
| TCMX | 89. | % | 51-118 | |
| Dibutyl chlorendate | 101. | % | 62-142 | |

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Stuart G. Buttram
Department Supervisor

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**BC Laboratories, Inc.**



Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 06/28/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-12
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 14:40
Date Extracted: 06/22/2001
Date Analyzed: 06/26/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 83. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

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Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 06/28/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-13
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 11:10
Date Extracted: 06/22/2001
Date Analyzed: 06/26/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 97. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

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Stuart G. Buttram
Department Supervisor

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Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 06/28/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-11
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 12:40
Date Extracted: 06/22/2001
Date Analyzed: 06/26/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 96. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

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Stuart G. Buttram
Department Supervisor

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Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 06/28/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-16
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 10:05
Date Extracted: 06/22/2001
Date Analyzed: 06/26/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 78. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

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Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



# Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 06/28/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: LUCIO#2
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 12:45
Date Extracted: 06/22/2001
Date Analyzed: 06/26/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 |

## Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 92. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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**BC Laboratories, Inc.**



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-12
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 14:40
Date Extracted: 06/22/2001
Date Analyzed: 07/02/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.23 | *13 |
| Acenaphthylene | None Detected | µg/L | 2. | 0.36 | |
| Aldrin | None Detected | µg/L | 2. | 0.27 | |
| Aniline | None Detected | µg/L | 5. | 1.8 | |
| Anthracene | None Detected | µg/L | 2. | 0.22 | |
| Benzidine | None Detected | µg/L | 20. | 0.16 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.27 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.66 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.64 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.35 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.25 | |
| Benzoic Acid | None Detected | µg/L | 10. | 0.84 | |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.66 | |
| Butyl Benzyl phthalate | None Detected | µg/L | 2. | 0.24 | |
| alpha-BHC | None Detected | µg/L | 2. | 0.24 | |
| beta-BHC | None Detected | µg/L | 2. | 0.23 | |
| delta-BHC | None Detected | µg/L | 2. | 0.26 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.21 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.24 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.56 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.22 | |
| bis(2-ethylhexyl)phthalate | 0.79 | µg/L | 5. | 0.33 | * |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.29 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.28 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.31 | |
| Chrysene | None Detected | µg/L | 2. | 0.20 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.75 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.22 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.30 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.29 | |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.25 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.28 | *13 |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.35 | |
| Dieldrin | None Detected | µg/L | 3. | 0.43 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.29 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.25 | |

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BC Laboratories, Inc.



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-12, 06/20/2001 @ 14:40

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.25 | *13 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.28 | |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.20 | |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.38 | |
| Endosulfan I | None Detected | µg/L | 10. | 1.0 | |
| Endosulfan II | None Detected | µg/L | 10. | 0.78 | |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.33 | |
| Endrin | None Detected | µg/L | 2. | 1.9 | |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.54 | |
| Fluoranthene | None Detected | µg/L | 2. | 0.25 | |
| Fluorene | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.25 | |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.27 | *13 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.35 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.27 | |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 | |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.23 | |
| Isophorone | None Detected | µg/L | 2. | 0.27 | |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.31 | |
| Naphthalene | None Detected | µg/L | 2. | 0.24 | |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.066 | |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.73 | |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.4 | |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.1 | |
| Nitrobenzene | None Detected | µg/L | 2. | 0.23 | |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.34 | |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 1.9 | |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.20 | |
| Phenanthrene | None Detected | µg/L | 2. | 0.24 | |
| Pyrene | None Detected | µg/L | 2. | 0.23 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.36 | |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.23 | |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.16 | |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.28 | |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.67 | |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.28 | |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.4 | |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.20 | |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.41 | |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.26 | |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.46 | |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.54 | |
| Phenol | None Detected | µg/L | 2. | 0.19 | |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-12, 06/20/2001 @ 14:40

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.26 |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.24 |
| Acetophenone | None Detected | µg/L | 10. | 0.12 |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.46 |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.17 |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.17 |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.067 |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.25 |
| Diphenylamine | None Detected | µg/L | 10. | 0.081 |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.17 |
| Kepone | None Detected | µg/L | 20. | 2.5 |
| Methapyrilene | None Detected | µg/L | 10. | 0.87 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.15 |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.13 |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.48 |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.062 |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.19 |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.26 |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.18 |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.16 |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.17 |
| Phenacetin | None Detected | µg/L | 10. | 0.13 |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.49 |
| Pronamide | None Detected | µg/L | 10. | 0.14 |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.20 |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.24 |
| o-Toluidine | None Detected | µg/L | 10. | 0.072 |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.18 |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.059 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 77. | 21-100 |
| Phenol-d5 | 63. | 10-94 |
| Nitrobenzene-d5 | 104. | 35-114 |
| 2-Fluorobiphenyl | 96. | 43-116 |
| 2,4,6-Tribromophenol | 121. | 10-123 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-12, 06/20/2001 @ 14:40

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 94. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
* = Sample result is between the MDL and PQL.
Method blank for bis-2-ethylhexyl-phthalate detected at 0.67 µg/L.
*13 = LCS recovery not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-13
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 11:10
Date Extracted: 06/22/2001
Date Analyzed: 07/02/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.24 | *13 |
| Acenaphthylene | None Detected | µg/L | 2. | 0.36 | |
| Aldrin | None Detected | µg/L | 2. | 0.27 | |
| Aniline | None Detected | µg/L | 5. | 1.9 | |
| Anthracene | None Detected | µg/L | 2. | 0.23 | |
| Benzidine | None Detected | µg/L | 20. | 0.17 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.27 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.67 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.64 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.35 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.25 | |
| Benzoic Acid | None Detected | µg/L | 10. | 0.84 | |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.67 | |
| Butyl Benzyl phthalate | None Detected | µg/L | 2. | 0.24 | |
| alpha-BHC | None Detected | µg/L | 2. | 0.24 | |
| beta-BHC | None Detected | µg/L | 2. | 0.23 | |
| delta-BHC | None Detected | µg/L | 2. | 0.26 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.22 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.24 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.56 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.22 | |
| bis(2-ethylhexyl)phthalate | 0.67 | µg/L | 5. | 0.33 | * |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.29 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.28 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.31 | |
| Chrysene | None Detected | µg/L | 2. | 0.20 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.76 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.23 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.30 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.30 | |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.25 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.28 | *13 |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.36 | |
| Dieldrin | None Detected | µg/L | 3. | 0.43 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.29 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.25 | |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-13, 06/20/2001 @ 11:10

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.25 | *13 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.28 | |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.20 | |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.38 | |
| Endosulfan I | None Detected | µg/L | 10. | 1.1 | |
| Endosulfan II | None Detected | µg/L | 10. | 0.79 | |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.33 | |
| Endrin | None Detected | µg/L | 2. | 1.9 | |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.55 | |
| Fluoranthene | None Detected | µg/L | 2. | 0.26 | |
| Fluorene | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.25 | |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.28 | *13 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.36 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.27 | |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 | |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.23 | |
| Isophorone | None Detected | µg/L | 2. | 0.27 | |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.31 | |
| Naphthalene | None Detected | µg/L | 2. | 0.25 | |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.067 | |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.74 | |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.5 | |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.2 | |
| Nitrobenzene | None Detected | µg/L | 2. | 0.24 | |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.34 | |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 1.9 | |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.20 | |
| Phenanthrene | None Detected | µg/L | 2. | 0.24 | |
| Pyrene | None Detected | µg/L | 2. | 0.23 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.36 | |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.24 | |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.17 | |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.28 | |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.68 | |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.29 | |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.4 | |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.20 | |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.42 | |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.26 | |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.46 | |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.54 | |
| Phenol | None Detected | µg/L | 2. | 0.19 | |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-13, 06/20/2001 @ 11:10

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.27 |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.24 |
| Acetophenone | None Detected | µg/L | 10. | 0.13 |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.47 |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.17 |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.17 |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.068 |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.26 |
| Diphenylamine | None Detected | µg/L | 10. | 0.082 |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.18 |
| Kepone | None Detected | µg/L | 20. | 2.5 |
| Methapyrilene | None Detected | µg/L | 10. | 0.88 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.15 |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.13 |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.48 |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.063 |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.19 |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.26 |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.18 |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.16 |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.17 |
| Phenacetin | None Detected | µg/L | 10. | 0.13 |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.49 |
| Pronamide | None Detected | µg/L | 10. | 0.14 |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.20 |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.25 |
| o-Toluidine | None Detected | µg/L | 10. | 0.073 |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.18 |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.060 |

Quality Control Data

| Surrogates | % Recovery | Control Limits | |
|---|---|---|---|
| 2-Fluorophenol | 83. | 21-100 | |
| Phenol-d5 | 72. | 10-94 | |
| Nitrobenzene-d5 | 108. | 35-114 | |
| 2-Fluorobiphenyl | 99. | 43-116 | |
| 2,4,6-Tribromophenol | 127. | 10-123 | *21 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-13, 06/20/2001 @ 11:10

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 101. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
* = Sample result is between the MDL and PQL.
Method blank for bis-2-ethylhexyl-phthalate detected at 0.67 µg/L.
*13 = LCS recovery not within established limits.
*21 = Surrogate recovery not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-11
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 12:40
Date Extracted: 06/22/2001
Date Analyzed: 07/02/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.24 | *13 |
| Acenaphthylene | None Detected | µg/L | 2. | 0.37 | |
| Aldrin | None Detected | µg/L | 2. | 0.27 | |
| Aniline | None Detected | µg/L | 5. | 1.9 | |
| Anthracene | None Detected | µg/L | 2. | 0.23 | |
| Benzidine | None Detected | µg/L | 20. | 0.17 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.27 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.68 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.65 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.35 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.25 | |
| Benzoic Acid | None Detected | µg/L | 10. | 0.85 | |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.67 | |
| Butyl Benzyl phthalate | 0.40 | µg/L | 2. | 0.25 | * |
| alpha-BHC | None Detected | µg/L | 2. | 0.24 | |
| beta-BHC | None Detected | µg/L | 2. | 0.24 | |
| delta-BHC | None Detected | µg/L | 2. | 0.27 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.22 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.24 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.57 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.23 | |
| bis(2-ethylhexyl)phthalate | 4.2 | µg/L | 5. | 0.34 | ** |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.30 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.28 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.32 | |
| Chrysene | None Detected | µg/L | 2. | 0.20 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.77 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.23 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.30 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.30 | |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.25 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.25 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.28 | *13 |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.36 | |
| Dieldrin | None Detected | µg/L | 3. | 0.44 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.29 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.25 | |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-11, 06/20/2001 @ 12:40

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.25 | *13 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.29 | |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.21 | |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.39 | |
| Endosulfan I | None Detected | µg/L | 10. | 1.1 | |
| Endosulfan II | None Detected | µg/L | 10. | 0.80 | |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.33 | |
| Endrin | None Detected | µg/L | 2. | 1.9 | |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.55 | |
| Fluoranthene | None Detected | µg/L | 2. | 0.26 | |
| Fluorene | None Detected | µg/L | 2. | 0.29 | |
| Heptachlor | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.25 | |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.28 | *13 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.36 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.27 | |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 | |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.23 | |
| Isophorone | None Detected | µg/L | 2. | 0.27 | |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.31 | |
| Naphthalene | None Detected | µg/L | 2. | 0.25 | |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.068 | |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.75 | |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.5 | |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.2 | |
| Nitrobenzene | None Detected | µg/L | 2. | 0.24 | |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.34 | |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 1.9 | |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.21 | |
| Phenanthrene | None Detected | µg/L | 2. | 0.24 | |
| Pyrene | None Detected | µg/L | 2. | 0.23 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.37 | |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.24 | |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.17 | |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.28 | |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.69 | |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.29 | |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.5 | |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.21 | |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.42 | |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.26 | |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.47 | |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.55 | |
| Phenol | None Detected | µg/L | 2. | 0.19 | |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-11, 06/20/2001 @ 12:40

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.27 |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.25 |
| Acetophenone | None Detected | µg/L | 10. | 0.13 |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.47 |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.17 |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.17 |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.069 |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.26 |
| Diphenylamine | None Detected | µg/L | 10. | 0.083 |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.18 |
| Kepone | None Detected | µg/L | 20. | 2.6 |
| Methapyrilene | None Detected | µg/L | 10. | 0.89 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.16 |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.14 |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.49 |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.064 |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.20 |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.26 |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.18 |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.17 |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.18 |
| Phenacetin | None Detected | µg/L | 10. | 0.13 |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.50 |
| Pronamide | None Detected | µg/L | 10. | 0.14 |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.20 |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.25 |
| o-Toluidine | None Detected | µg/L | 10. | 0.074 |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.19 |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.061 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 72. | 21-100 |
| Phenol-d5 | 64. | 10-94 |
| Nitrobenzene-d5 | 101. | 35-114 |
| 2-Fluorobiphenyl | 95. | 43-116 |
| 2,4,6-Tribromophenol | 121. | 10-123 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-11, 06/20/2001 @ 12:40

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 101. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
* = Sample result is between the MDL and PQL.
Method blank for Benzyl-butyl-phthalate detected at 0.26 µg/L.
** = Sample result is between the MDL and PQL.
Method blank for bis-2-ethylhexyl-phthalate detected at 0.67 µg/L.
*13 = LCS recovery not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-16
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 10:05
Date Extracted: 06/22/2001
Date Analyzed: 07/02/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.23 | *13 |
| Acenaphthylene | None Detected | µg/L | 2. | 0.36 | |
| Aldrin | None Detected | µg/L | 2. | 0.27 | |
| Aniline | None Detected | µg/L | 5. | 1.8 | |
| Anthracene | None Detected | µg/L | 2. | 0.22 | |
| Benzidine | None Detected | µg/L | 20. | 0.16 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.27 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.66 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.64 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.35 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.25 | |
| Benzoic Acid | None Detected | µg/L | 10. | 0.84 | |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.66 | |
| Butyl Benzyl phthalate | None Detected | µg/L | 2. | 0.24 | |
| alpha-BHC | None Detected | µg/L | 2. | 0.24 | |
| beta-BHC | None Detected | µg/L | 2. | 0.23 | |
| delta-BHC | None Detected | µg/L | 2. | 0.26 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.21 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.24 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.56 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.22 | |
| bis(2-ethylhexyl)phthalate | 0.81 | µg/L | 5. | 0.33 | * |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.29 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.28 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.31 | |
| Chrysene | None Detected | µg/L | 2. | 0.20 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.75 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.22 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.30 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.29 | |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.25 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.28 | *13 |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.35 | |
| Dieldrin | None Detected | µg/L | 3. | 0.43 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.29 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.25 | |

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BC Laboratories, Inc.



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-16, 06/20/2001 @ 10:05

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.25 | *13 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.28 | |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.20 | |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.38 | |
| Endosulfan I | None Detected | µg/L | 10. | 1.0 | |
| Endosulfan II | None Detected | µg/L | 10. | 0.78 | |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.33 | |
| Endrin | None Detected | µg/L | 2. | 1.9 | |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.54 | |
| Fluoranthene | None Detected | µg/L | 2. | 0.25 | |
| Fluorene | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.25 | |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.27 | *13 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.35 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.27 | |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 | |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.23 | |
| Isophorone | None Detected | µg/L | 2. | 0.27 | |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.31 | |
| Naphthalene | None Detected | µg/L | 2. | 0.24 | |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.066 | |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.73 | |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.4 | |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.1 | |
| Nitrobenzene | None Detected | µg/L | 2. | 0.23 | |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.34 | |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 1.9 | |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.20 | |
| Phenanthrene | None Detected | µg/L | 2. | 0.24 | |
| Pyrene | None Detected | µg/L | 2. | 0.23 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.36 | |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.23 | |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.16 | |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.28 | |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.67 | |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.28 | |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.4 | |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.20 | |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.41 | |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.26 | |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.46 | |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.54 | |
| Phenol | None Detected | µg/L | 2. | 0.19 | |

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4100 Atlas Court * Bakersfield, CA 93308 * (661)327-4911 * Fax(661)327-1918 * www.bclabs.com

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-16, 06/20/2001 @ 10:05

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.26 |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.24 |
| Acetophenone | None Detected | µg/L | 10. | 0.12 |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.46 |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.17 |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.17 |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.067 |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.25 |
| Diphenylamine | None Detected | µg/L | 10. | 0.081 |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.17 |
| Kepone | None Detected | µg/L | 20. | 2.5 |
| Methapyrilene | None Detected | µg/L | 10. | 0.87 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.15 |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.13 |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.48 |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.062 |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.19 |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.26 |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.18 |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.16 |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.17 |
| Phenacetin | None Detected | µg/L | 10. | 0.13 |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.49 |
| Pronamide | None Detected | µg/L | 10. | 0.14 |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.20 |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.24 |
| o-Toluidine | None Detected | µg/L | 10. | 0.072 |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.18 |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.059 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 81. | 21-100 |
| Phenol-d5 | 69. | 10-94 |
| Nitrobenzene-d5 | 110. | 35-114 |
| 2-Fluorobiphenyl | 99. | 43-116 |
| 2,4,6-Tribromophenol | 123. | 10-123 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-16, 06/20/2001 @ 10:05

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 103. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
* = Sample result is between the MDL and PQL.
Method blank for bis-2-ethylhexyl-phthalate detected at 0.67 µg/L.
*13 = LCS recovery not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

All results listed in this report are for the exclusive use of the submitting party, BC Laboratories, Inc. assumes no responsibility for report alteration, detachment or third party interpretation.

**BC Laboratories, Inc.**



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: LUCIO#2
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 12:45
Date Extracted: 06/22/2001
Date Analyzed: 07/02/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.24 | *~~13~~ |
| Acenaphthylene | None Detected | µg/L | 2. | 0.36 | |
| Aldrin | None Detected | µg/L | 2. | 0.27 | |
| Aniline | None Detected | µg/L | 5. | 1.9 | |
| Anthracene | None Detected | µg/L | 2. | 0.23 | |
| Benzidine | None Detected | µg/L | 20. | 0.17 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.27 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.67 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.64 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.35 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.25 | |
| Benzoic Acid | None Detected | µg/L | 10. | 0.84 | |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.67 | |
| Butyl Benzyl phthalate | None Detected | µg/L | 2. | 0.24 | |
| alpha-BHC | None Detected | µg/L | 2. | 0.24 | |
| beta-BHC | None Detected | µg/L | 2. | 0.23 | |
| delta-BHC | None Detected | µg/L | 2. | 0.26 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.22 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.24 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.56 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.22 | |
| bis(2-ethylhexyl)phthalate | 0.62 | µg/L | 5. | 0.33 | * |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.29 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.28 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.31 | |
| Chrysene | None Detected | µg/L | 2. | 0.20 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.76 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.23 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.30 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.30 | |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.25 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.28 | *~~13~~ |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.36 | |
| Dieldrin | None Detected | µg/L | 3. | 0.43 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.29 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.25 | |

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BC Laboratories, Inc.



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Sample Description: GREGORY CANYON, GREGORY CANYON, LUCIO#2, 06/20/2001 @ 12:45

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.25 | *13 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.28 | |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.20 | |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.38 | |
| Endosulfan I | None Detected | µg/L | 10. | 1.1 | |
| Endosulfan II | None Detected | µg/L | 10. | 0.79 | |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.33 | |
| Endrin | None Detected | µg/L | 2. | 1.9 | |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.55 | |
| Fluoranthene | None Detected | µg/L | 2. | 0.26 | |
| Fluorene | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor | None Detected | µg/L | 2. | 0.28 | |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.25 | |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.28 | *13 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.36 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.27 | |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 | |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.23 | |
| Isophorone | None Detected | µg/L | 2. | 0.27 | |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.31 | |
| Naphthalene | None Detected | µg/L | 2. | 0.25 | |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.067 | |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.74 | |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.5 | |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.2 | |
| Nitrobenzene | None Detected | µg/L | 2. | 0.24 | |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.34 | |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 1.9 | |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.20 | |
| Phenanthrene | None Detected | µg/L | 2. | 0.24 | |
| Pyrene | None Detected | µg/L | 2. | 0.23 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.36 | |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.24 | |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.17 | |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.28 | |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.68 | |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.29 | |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.4 | |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.20 | |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.42 | |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.26 | |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.46 | |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.54 | |
| Phenol | None Detected | µg/L | 2. | 0.19 | |

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**BC Laboratories, Inc.**



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Sample Description: GREGORY CANYON, GREGORY CANYON, LUCIO#2, 06/20/2001 @ 12:45

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.27 |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.24 |
| Acetophenone | None Detected | µg/L | 10. | 0.13 |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.47 |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.17 |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.17 |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.068 |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.26 |
| Diphenylamine | None Detected | µg/L | 10. | 0.082 |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.18 |
| Kepone | None Detected | µg/L | 20. | 2.5 |
| Methapyrilene | None Detected | µg/L | 10. | 0.88 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.15 |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.13 |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.48 |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.063 |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.19 |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.26 |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.18 |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.16 |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.17 |
| Phenacetin | None Detected | µg/L | 10. | 0.13 |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.49 |
| Pronamide | None Detected | µg/L | 10. | 0.14 |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.20 |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.25 |
| o-Toluidine | None Detected | µg/L | 10. | 0.073 |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.18 |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.060 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 78. | 21-100 |
| Phenol-d5 | 65. | 10-94 |
| Nitrobenzene-d5 | 105. | 35-114 |
| 2-Fluorobiphenyl | 97. | 43-116 |
| 2,4,6-Tribromophenol | 116. | 10-123 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Sample Description: GREGORY CANYON, GREGORY CANYON, LUCIO#2, 06/20/2001 @ 12:45

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 93. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
* = Sample result is between the MDL and PQL.
Method blank for bis-2-ethylhexyl-phthalate detected at 0.67 µg/L.
*13 = LCS recovery not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*WATER

Samples Affected: 01-07110-1, 01-07110-3 - 01-07110-5

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Calcium | EPA-600-4-79-02 | 06/20/2001 | ARD | EPA-6010 | 06/25/2001 | ARD |
| Magnesium | EPA-600-4-79-02 | 06/20/2001 | ARD | EPA-6010 | 06/25/2001 | ARD |
| Sodium | EPA-600-4-79-02 | 06/20/2001 | ARD | EPA-6010 | 06/25/2001 | ARD |
| Sulfate | n.a. | 06/22/2001 | DPC | EPA-300.0 | 06/22/2001 | DPC |
| Chloride | n.a. | 06/22/2001 | DPC | EPA-300.0 | 06/22/2001 | DPC |
| Nitrate as N | n.a. | 06/22/2001 | DPC | EPA-300.0 | 06/22/2001 | DPC |
| pH | n.a. | 06/22/2001 | PDL | EPA-9040 | 06/22/2001 | PDL |
| Total Dissolved Solids @ 180 C | n.a. | 06/25/2001 | ELN | EPA-160.1 | 06/25/2001 | ELN |
| Total Cyanide | EPA-335.3 | 06/26/2001 | MET | EPA-9012 | 06/27/2001 | TDC |
| Total Sulfide | n.a. | 06/22/2001 | JWH2 | EPA-376.2 | 06/22/2001 | JWH2 |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*WATER

Samples Affected: 01-07110-1, 01-07110-3 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Calcium | < 0.05 | mg/L |
| Magnesium | < 0.05 | mg/L |
| Sodium | < 0.5 | mg/L |
| Sulfate | < 1. | mg/L |
| Chloride | < 0.5 | mg/L |
| Nitrate as N | < 0.1 | mg/L |
| Total Dissolved Solids @ 180 C | <10. | mg/L |
| Total Cyanide | < 0.02 | mg/L |
| Total Sulfide | < 0.1 | mg/L |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*WATER

Samples Affected: 01-07110-1, 01-07110-3 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | Sample Duplicate | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Sample R.P.D. | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | DISS-7110-1 | 48.85 | 47.94 | 57.87 | 56.83 | 10.2 | 10.2 | mg/L | 2. | 2. | 20 | H MEAN | H MEAN | 85 - 11 |
| Magnesium | DISS-7110-1 | 30.39 | 29.87 | 40.26 | 39.5 | 10.2 | 10.2 | mg/L | 2. | 2. | 20 | 97. | 89. | 85 - 11 |
| Sodium | DISS-7110-1 | 88.07 | 86.21 | 95.91 | 94.18 | 10.2 | 10.2 | mg/L | 2. | 2. | 20 | H MEAN | H MEAN | 85 - 11 |
| Sulfate | 6966-2 | 15.18 | 15.02 | 115.3 | 115.4 | 100.0 | 100.0 | mg/L | 1. | 0. | 10 | 100. | 100. | 80 - 12 |
| Chloride | 6966-2 | 2.832 | 2.848 | 104.7 | 105.4 | 100.0 | 100.0 | mg/L | 1. | 1. | 10 | 102. | 103. | 80 - 12 |
| Nitrate as N | 6966-2 | 0.2645 | 0.2739 | 5.206 | 5.151 | 5.000 | 5.000 | mg/L | <PQL | 1. | 10 | 99. | 98. | 80 - 12 |
| pH | 7084-1 | 7.58 | 7.59 | | | | | pH Units | 0. | | ± .1 PH UN | | | |
| Total Dissolved Solids @ 180 C | 7110-1 | 520.0 | 523.3 | | | | | mg/L | 1. | | 10 | | | |
| Total Cyanide | W-TOTAL-07179- | < 0.02 | < 0.02 | 0.2006 | 0.1977 | 0.2500 | 0.2500 | mg/L | <PQL | 1. | 10 | 80. | 79. | 90 - 11 |
| Total Sulfide | 7110-1 | < 0.1 | < 0.1 | 0.5687 | 0.5722 | 0.5556 | 0.5556 | mg/L | <PQL | 1. | 10 | 99. | 100. | 80 - 12 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H Mean - sample concentration is greater than four times the spike leve
The matrix spike recoveries for Total Cyanide are outside QC limits.

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*WATER

Samples Affected: 01-07110-1, 01-07110-3 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Calcium | LFB-1 | 9.9820 | 10. | mg/L | 100. | 85 - 115 |
| Magnesium | LFB-1 | 10.22 | 10. | mg/L | 102. | 85 - 115 |
| Sodium | LFB-1 | 10.47 | 10. | mg/L | 105. | 85 - 115 |
| Sulfate | LCSW-6-21A | 94.925 | 100. | mg/L | 95. | 90 - 110 |
| Chloride | LCSW-6-21A | 99.431 | 100. | mg/L | 99. | 90 - 110 |
| Nitrate as N | LCSW-6-21A | 4.8321 | 5.00 | mg/L | 97. | 90 - 110 |
| pH | LCSW1 | 6.99 | 7.0 | pH Units | 100. | 98 - 102 |
| Total Dissolved Solids @ 180 C | LCSW1 | 600.00 | 586. | mg/L | 102. | 90 - 110 |
| Total Cyanide | W-TOTAL-LC | 9.8773 | 10.0 | mg/L | 99. | 90 - 110 |
| Total Sulfide | LCSW1 | 0.50867 | 0.500 | mg/L | 102. | 90 - 110 |

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B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-2*WATER

Samples Affected: 01-07110-2

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Calcium | EPA-600-4-79-02 | 06/20/2001 | ARD | EPA-6010 | 06/25/2001 | ARD |
| Magnesium | EPA-600-4-79-02 | 06/20/2001 | ARD | EPA-6010 | 06/25/2001 | ARD |
| Sodium | EPA-600-4-79-02 | 06/20/2001 | ARD | EPA-6010 | 06/25/2001 | ARD |
| Sulfate | n.a. | 06/22/2001 | DPC | EPA-300.0 | 06/22/2001 | DPC |
| Chloride | n.a. | 06/22/2001 | DPC | EPA-300.0 | 06/22/2001 | DPC |
| Nitrate as N | n.a. | 06/22/2001 | MMT | EPA-300.0 | 06/22/2001 | MMT |
| pH | n.a. | 06/22/2001 | PDL | EPA-9040 | 06/22/2001 | PDL |
| Total Dissolved Solids @ 180 C | n.a. | 06/25/2001 | ELN | EPA-160.1 | 06/25/2001 | ELN |
| Total Cyanide | EPA-335.3 | 06/26/2001 | MET | EPA-9012 | 06/27/2001 | TDC |
| Total Sulfide | n.a. | 06/22/2001 | JWH2 | EPA-376.2 | 06/22/2001 | JWH2 |

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B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-2*WATER

Samples Affected: 01-07110-2

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Calcium | < 0.05 | mg/L |
| Magnesium | < 0.05 | mg/L |
| Sodium | < 0.5 | mg/L |
| Sulfate | < 1. | mg/L |
| Chloride | < 0.5 | mg/L |
| Nitrate as N | < 0.1 | mg/L |
| Total Dissolved Solids @ 180 C | <10. | mg/L |
| Total Cyanide | < 0.02 | mg/L |
| Total Sulfide | < 0.1 | mg/L |

Quality Control Officer

Danette Bohm

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**BC Laboratories, Inc**

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-2*WATER

Samples Affected: 01-07110-2

| Constituents | QC Sample ID | Sample Result | Sample Duplicate | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Sample R.P.D. | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | DISS-7110-1 | 48.85 | 47.94 | 57.87 | 56.83 | 10.2 | 10.2 | mg/L | 2. | 2. | 20 | H MEAN | H MEAN | 85 - 11 |
| Magnesium | DISS-7110-1 | 30.39 | 29.87 | 40.26 | 39.5 | 10.2 | 10.2 | mg/L | 2. | 2. | 20 | 97. | 89. | 85 - 11 |
| Sodium | DISS-7110-1 | 88.07 | 86.21 | 95.91 | 94.18 | 10.2 | 10.2 | mg/L | 2. | 2. | 20 | H MEAN | H MEAN | 85 - 11 |
| Sulfate | 6966-2 | 15.18 | 15.02 | 115.3 | 115.4 | 100.0 | 100.0 | mg/L | 1. | 0. | 10 | 100. | 100. | 80 - 12 |
| Chloride | 6966-2 | 2.832 | 2.848 | 104.7 | 105.4 | 100.0 | 100.0 | mg/L | 1. | 1. | 10 | 102. | 103. | 80 - 12 |
| Nitrate as N | 7099-1 | 6.674 | 6.543 | 11.76 | 11.77 | 5.000 | 5.000 | mg/L | 2. | 0. | 10 | 102. | 102. | 80 - 12 |
| pH | 7084-1 | 7.58 | 7.59 | | | | | pH Units | 0. | | ± .1 PH UN | | | |
| Total Dissolved Solids @ 180 C | 7110-1 | 520.0 | 523.3 | | | | | mg/L | 1. | | 10 | | | |
| Total Cyanide | W-TOTAL-07179- | < 0.02 | < 0.02 | 0.2006 | 0.1977 | 0.2500 | 0.2500 | mg/L | <PQL | 1. | 10 | 80. | 79. | 90 - 11 |
| Total Sulfide | 7110-1 | < 0.1 | < 0.1 | 0.5687 | 0.5722 | 0.5556 | 0.5556 | mg/L | <PQL | 1. | 10 | 99. | 100. | 80 - 12 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H Mean - sample concentration is greater than four times the spike level.
The matrix spike recoveries for Total Cyanide are outside QC limits.

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-2*WATER

Samples Affected: 01-07110-2

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Calcium | LFB-1 | 9.9820 | 10. | mg/L | 100. | 85 - 115 |
| Magnesium | LFB-1 | 10.22 | 10. | mg/L | 102. | 85 - 115 |
| Sodium | LFB-1 | 10.47 | 10. | mg/L | 105. | 85 - 115 |
| Sulfate | LCSW-6-21A | 94.925 | 100. | mg/L | 95. | 90 - 110 |
| Chloride | LCSW-6-21A | 99.431 | 100. | mg/L | 99. | 90 - 110 |
| Nitrate as N | LCSW-06-22 | 4.9604 | 5.00 | mg/L | 99. | 90 - 110 |
| pH | LCSW1 | 6.99 | 7.0 | pH Units | 100. | 98 - 102 |
| Total Dissolved Solids @ 180 C | LCSW1 | 600.00 | 586. | mg/L | 102. | 90 - 110 |
| Total Cyanide | W-TOTAL-LC | 9.8773 | 10.0 | mg/L | 99. | 90 - 110 |
| Total Sulfide | LCSW1 | 0.50867 | 0.500 | mg/L | 102. | 90 - 110 |

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B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*METAL

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Dissolved Antimony | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Arsenic | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-7060 | 07/06/2001 | DIW |
| Dissolved Barium | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Beryllium | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Cadmium | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Chromium | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Cobalt | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Copper | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/26/2001 | JCC |
| Dissolved Lead | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-7421 | 07/06/2001 | DIW |
| Dissolved Mercury | EPA-7470 | 06/25/2001 | DMM2 | EPA-7470 | 06/28/2001 | PAP |
| Dissolved Nickel | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Selenium | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-7740 | 07/06/2001 | DIW |
| Dissolved Silver | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Tin | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-282.2 | 06/27/2001 | LMK |
| Dissolved Thallium | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-7841 | 06/25/2001 | LMK |
| Dissolved Vanadium | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |
| Dissolved Zinc | EPA-600-4-79-02 | 06/20/2001 | FIELD | EPA-6010 | 06/25/2001 | ARD |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/16/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*METAL

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Dissolved Antimony | <100. | µg/L |
| Dissolved Arsenic | < 2. | µg/L |
| Dissolved Barium | <10. | µg/L |
| Dissolved Beryllium | <10. | µg/L |
| Dissolved Cadmium | <10. | µg/L |
| Dissolved Chromium | <10. | µg/L |
| Dissolved Cobalt | <50. | µg/L |
| Dissolved Copper | <10. | µg/L |
| Dissolved Lead | < 1. | µg/L |
| Dissolved Mercury | < 0.2 | µg/L |
| Dissolved Nickel | <10. | µg/L |
| Dissolved Selenium | < 1. | µg/L |
| Dissolved Silver | <10. | µg/L |
| Dissolved Tin | < 5. | µg/L |
| Dissolved Thallium | < 1. | µg/L |
| Dissolved Vanadium | <10. | µg/L |
| Dissolved Zinc | <10. | µg/L |

Quality Control Officer

Danette Bohm

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**BC Laboratories, Inc**

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/16/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*METAL

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | Sample Duplicate | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Sample R.P.D. | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Antimony | DISS-7110-1 | <100. | <100. | 414.7 | 448.4 | 408.2 | 408.2 | µg/L | <PQL | 8. | 20 | 101. | 109. | 85 - 11 |
| Dissolved Arsenic | DISS-7110-1 | < 2. | < 2. | 27.57 | 27.32 | 26.32 | 26.32 | µg/L | <PQL | 1. | 20 | 105. | 104. | 85 - 11 |
| Dissolved Barium | DISS-7110-1 | 19.40 | 19.80 | 219.0 | 213.6 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 98. | 95. | 85 - 11 |
| Dissolved Beryllium | DISS-7110-1 | < 10. | < 10. | 194.7 | 190.1 | 204.1 | 204.1 | µg/L | <PQL | 2. | 20 | 96. | 93. | 85 - 11 |
| Dissolved Cadmium | DISS-7110-1 | < 10. | < 10. | 201.3 | 200.1 | 204.1 | 204.1 | µg/L | <PQL | 1. | 20 | 99. | 98. | 85 - 11 |
| Dissolved Chromium | DISS-7110-1 | < 10. | < 10. | 205.7 | 197.1 | 204.1 | 204.1 | µg/L | <PQL | 4. | 20 | 100. | 96. | 85 - 11 |
| Dissolved Cobalt | DISS-7110-1 | < 50. | < 50. | 202.0 | 196.0 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 93. | 91. | 85 - 11 |
| Dissolved Copper | DISS-5178-7-X5 | < 50. | < 50. | 963.8 | 939.8 | 1020. | 1020. | µg/L | <PQL | 3. | 20 | 100. | 99. | 85 - 11 |
| Dissolved Lead | DISS-7110-1 | < 1. | < 1. | 25.91 | 25.68 | 26.32 | 26.32 | µg/L | <PQL | 1. | 20 | 103. | 100. | 70 - 1 |
| Dissolved Mercury | DISS-07110-1 | < 0.2 | < 0.2 | 1.070 | 1.045 | 1.000 | 1.000 | µg/L | <PQL | 2. | 20 | 98. | 96. | 85 - 1 |
| Dissolved Nickel | DISS-7110-1 | < 10. | < 10. | 402.4 | 392.8 | 408.2 | 408.2 | µg/L | <PQL | 2. | 20 | 90. | 91. | 85 - 1 |
| Dissolved Selenium | DISS-7110-1-X4 | < 10. | < 10. | 95.78 | 97.10 | 105.3 | 105.3 | µg/L | <PQL | 1. | 20 | 98. | 95. | 85 - 1 |
| Dissolved Silver | DISS-7110-1 | < 10. | < 10. | 200.7 | 193.8 | 204.1 | 204.1 | µg/L | <PQL | 4. | 20 | 97. | 97. | 85 - 1 |
| Dissolved Tin | DISS-7110-1 | < 5. | < 5. | 51.05 | 50.74 | 52.63 | 52.63 | µg/L | <PQL | 1. | 20 | 91. | 89. | 85 - 1 |
| Dissolved Thallium | DISS-7110-2 | < 1. | < 1. | 24.40 | 23.72 | 26.32 | 26.32 | µg/L | <PQL | 3. | 20 | 103. | 100. | 85 - 1 |
| Dissolved Vanadium | DISS-7110-1 | 30.10 | 30.20 | 240.0 | 233.7 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 102. | 100. | 85 - 1 |
| Dissolved Zinc | DISS-7110-1 | 10.30 | 5.000 | 218.0 | 214.0 | 204.1 | 204.1 | µg/L | <PQL | 2. | 20 | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/16/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*METAL

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Dissolved Antimony | LFB-1 | 388.80 | 400. | µg/L | 97. | 85 - 115 |
| Dissolved Arsenic | LFB-LCSW | 26.384 | 25.0 | µg/L | 106. | 85 - 115 |
| Dissolved Barium | LFB-1 | 197.40 | 200. | µg/L | 99. | 85 - 115 |
| Dissolved Beryllium | LFB-1 | 188.50 | 200. | µg/L | 94. | 85 - 115 |
| Dissolved Cadmium | LFB-1 | 201.70 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Chromium | LFB-1 | 202.20 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Cobalt | LFB-1 | 201.40 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Copper | LFB-1 | 190.00 | 200. | µg/L | 95. | 85 - 115 |
| Dissolved Lead | LFB-LCSW | 25.408 | 25.0 | µg/L | 102. | 85 - 115 |
| Dissolved Mercury | DISS-LCSW2 | 1.0157 | 1.00 | µg/L | 102. | 85 - 115 |
| Dissolved Nickel | LFB-1 | 405.70 | 400. | µg/L | 101. | 85 - 115 |
| Dissolved Selenium | LFB-LCSW | 24.045 | 25.0 | µg/L | 96. | 85 - 115 |
| Dissolved Silver | LFB-1 | 193.50 | 200. | µg/L | 97. | 85 - 115 |
| Dissolved Tin | LFB-50-LCS | 47.400 | 50.0 | µg/L | 95. | 85 - 115 |
| Dissolved Thallium | LFB-25-LCS | 23.980 | 25.0 | µg/L | 96. | 85 - 115 |
| Dissolved Vanadium | LFB-1 | 202.80 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Zinc | LFB-1 | 209.70 | 200. | µg/L | 105. | 85 - 115 |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8150

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 06/29/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8150

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Method 8150 compounds | EPA-3510 | 06/22/2001 | MM | EPA-8150 | 06/26/2001 | KMS |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
Method 8150

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 06/28/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8150

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| 2,4-D | LCS | 1.865 | 2.000 | µg/L | 93. | 20 - 142 |
| Dinoseb | LCS | 0.740 | 1.000 | µg/L | 74. | 13 - 119 |
| 2,4,5-T | LCS | 0.569 | 0.600 | µg/L | 95. | 42 - 121 |
| 2,4,5-TP (Silvex) | LCS | 0.606 | 0.600 | µg/L | 101. | 54 - 132 |

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8150

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 06/28/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8150

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 2,4-D | < 0.4 | µg/L |
| Dinoseb | < 0.2 | µg/L |
| 2,4,5-T | < 0.09 | µg/L |
| 2,4,5-TP (Silvex) | < 0.07 | µg/L |

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8150

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 06/28/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8150

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | MS-06-22-01 | < 0.4 | 2.024 | 2.097 | 2.000 | 2.000 | µg/L | 4. | 30 | 101. | 105. | 20 - 142 |
| Dinoseb | MS-06-22-01 | < 0.2 | 0.879 | 0.804 | 1.000 | 1.000 | µg/L | 9. | 30 | 88. | 80. | 13 - 119 |
| 2,4,5-T | MS-06-22-01 | < 0.09 | 0.617 | 0.588 | 0.600 | 0.600 | µg/L | 5. | 30 | 103. | 98. | 42 - 121 |
| 2,4,5-TP (Silvex) | MS-06-22-01 | < 0.07 | 0.659 | 0.687 | 0.600 | 0.600 | µg/L | 4. | 30 | 110. | 115. | 54 - 132 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/10/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8080

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Aldrin | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| alpha-BHC | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| beta-BHC | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| delta-BHC | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| gamma-BHC | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Chlordane (Technical) | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| 4,4'-DDD | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| 4,4'-DDE | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| 4,4'-DDT | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Dieldrin | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Endosulfan I | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Endosulfan II | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Endosulfan Sulfate | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Endrin | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Endrin Aldehyde | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Heptachlor | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Heptachlor Epoxide | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Hexachlorocyclopentadiene | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Methoxychlor | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Toxaphene | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| PCB-1016 | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| PCB-1221 | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| PCB-1232 | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| PCB-1242 | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| PCB-1248 | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| PCB-1254 | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| PCB-1260 | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |
| Total PCB's (Summation) | EPA-3510 | 06/22/2001 | MM/JCM | EPA-8080 | 06/26/2001 | RKB |

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/03/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8080

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Aldrin | < 0.005 | µg/L |
| alpha-BHC | < 0.005 | µg/L |
| beta-BHC | < 0.005 | µg/L |
| delta-BHC | < 0.005 | µg/L |
| gamma-BHC | < 0.005 | µg/L |
| Chlordane (Technical) | < 0.1 | µg/L |
| 4,4'-DDD | < 0.005 | µg/L |
| 4,4'-DDE | < 0.005 | µg/L |
| 4,4'-DDT | < 0.005 | µg/L |
| Dieldrin | < 0.005 | µg/L |
| Endosulfan I | < 0.005 | µg/L |
| Endosulfan II | < 0.005 | µg/L |
| Endosulfan Sulfate | < 0.005 | µg/L |
| Endrin | < 0.005 | µg/L |
| Endrin Aldehyde | < 0.01 | µg/L |
| Heptachlor | < 0.005 | µg/L |
| Heptachlor Epoxide | < 0.005 | µg/L |
| Hexachlorocyclopentadiene | < 0.01 | µg/L |
| Methoxychlor | < 0.005 | µg/L |
| Toxaphene | < 2. | µg/L |
| PCB-1016 | < 0.2 | µg/L |
| PCB-1221 | < 0.2 | µg/L |
| PCB-1232 | < 0.2 | µg/L |
| PCB-1242 | < 0.2 | µg/L |
| PCB-1248 | < 0.2 | µg/L |
| PCB-1254 | < 0.2 | µg/L |
| PCB-1260 | < 0.2 | µg/L |
| Total PCB's (Summation) | < 0.2 | µg/L |

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/03/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8080

Samples Affected: 01-07110-1 - 01-07110-5

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/03/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8080

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | MS-06-22-01 | < 0.005 | 0.261 | 0.266 | 0.250 | 0.250 | µg/L | 2. | 24 | 104. | 107. | 49 - 126 |
| gamma-BHC | MS-06-22-01 | < 0.005 | 0.255 | 0.267 | 0.250 | 0.250 | µg/L | 4. | 23 | 102. | 107. | 52 - 128 |
| 4,4'-DDT | MS-06-22-01 | < 0.005 | 0.275 | 0.298 | 0.250 | 0.250 | µg/L | 8. | 28 | 110. | 119. | 34 - 146 |
| Dieldrin | MS-06-22-01 | < 0.005 | 0.274 | 0.278 | 0.250 | 0.250 | µg/L | 1. | 26 | 110. | 111. | 47 - 133 |
| Endrin | MS-06-22-01 | < 0.005 | 0.258 | 0.270 | 0.250 | 0.250 | µg/L | 4. | 29 | 103. | 108. | 36 - 139 |
| Heptachlor | MS-06-22-01 | < 0.005 | 0.269 | 0.277 | 0.250 | 0.250 | µg/L | 3. | 22 | 107. | 111. | 48 - 126 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/03/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8080

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Aldrin | LCS | 0.262 | 0.250 | µg/L | 105. | 49 - 126 |
| gamma-BHC | LCS | 0.254 | 0.250 | µg/L | 101. | 52 - 128 |
| 4,4'-DDT | LCS | 0.243 | 0.250 | µg/L | 97. | 34 - 146 |
| Dieldrin | LCS | 0.275 | 0.250 | µg/L | 110. | 47 - 133 |
| Endrin | LCS | 0.252 | 0.250 | µg/L | 101. | 36 - 139 |
| Heptachlor | LCS | 0.274 | 0.250 | µg/L | 110. | 48 - 126 |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8260

Samples Affected: 01-07110-1 - 01-07110-8TB

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Method 8260 Compounds | EPA-5030 | 06/27/2001 | SLL/SM | EPA-8260 | 06/27/2001 | SLL/SM |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8260

Samples Affected: 01-07110-1 - 01-07110-8TB

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 1,2-Dichloropropane | < 0.5 | µg/L |
| 1,3-Dichloropropane | < 0.5 | µg/L |
| 2,2-Dichloropropane | < 0.5 | µg/L |
| 1,1-Dichloropropene | < 0.5 | µg/L |
| cis-1,3-Dichloropropene | < 0.5 | µg/L |
| trans-1,3-Dichloropropene | < 0.5 | µg/L |
| Ethyl Benzene | < 0.5 | µg/L |
| Hexachlorobutadiene | < 0.5 | µg/L |
| Isopropylbenzene | < 0.5 | µg/L |
| p-Isopropyltoluene | < 0.5 | µg/L |
| Methylene Chloride | < 1. | µg/L |
| Naphthalene | < 0.5 | µg/L |
| n-Propylbenzene | < 0.5 | µg/L |
| Styrene | < 0.5 | µg/L |
| 1,1,1,2-Tetrachloroethane | < 0.5 | µg/L |
| 1,1,2,2-Tetrachloroethane | < 0.5 | µg/L |
| Tetrachloroethene | < 0.5 | µg/L |
| Toluene | < 0.5 | µg/L |
| 1,2,3-Trichlorobenzene | < 0.5 | µg/L |
| 1,2,4-Trichlorobenzene | < 0.5 | µg/L |
| 1,1,1-Trichloroethane | < 0.5 | µg/L |
| 1,1,2-Trichloroethane | < 0.5 | µg/L |
| Trichloroethene | < 0.5 | µg/L |
| Trichlorofluoromethane | < 0.5 | µg/L |
| 1,2,3-Trichloropropane | < 1. | µg/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | < 0.5 | µg/L |
| 1,2,4-Trimethylbenzene | < 0.5 | µg/L |
| 1,3,5-Trimethylbenzene | < 0.5 | µg/L |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8260

Samples Affected: 01-07110-1 - 01-07110-8TB

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Vinyl Chloride | < 0.5 | µg/L |
| Total Xylenes | < 1. | µg/L |
| Acetone | <20. | µg/L |
| Acetonitrile | <20. | µg/L |
| Acrolein | <50. | µg/L |
| Acrylonitrile | <20. | µg/L |
| Allyl Chloride | < 5. | µg/L |
| t-Amyl methyl ether | < 1. | µg/L |
| t-Butyl alcohol | <50. | µg/L |
| Carbon Disulfide | < 2. | µg/L |
| Chloroprene | < 5. | µg/L |
| trans-1,4-Dichloro-2-butene | < 5. | µg/L |
| Diisopropyl ether | < 1. | µg/L |
| 1,4-Dioxane | <300. | µg/L |
| 2-Hexanone | <20. | µg/L |
| Iodomethane | < 2. | µg/L |
| Isobutyl alcohol | <50. | µg/L |
| Methacrylonitrile | <10. | µg/L |
| Methyl Ethyl Ketone | <20. | µg/L |
| 4-Methyl-2-pentanone | <20. | µg/L |
| Methyl-t-butylether | < 0.5 | µg/L |
| Propionitrile | <20. | µg/L |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8260

Samples Affected: 01-07110-1 - 01-07110-8TB

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8260

Samples Affected: 01-07110-1 - 01-07110-8TB

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | OFW | < 0.5 | 24. | 25. | 25. | 25. | µg/L | 4. | 20 | 98. | 102. | 80 - 120 |
| Bromodichloromethane | OFW | < 0.5 | 24. | 26. | 25. | 25. | µg/L | 6. | 20 | 97. | 104. | 80 - 120 |
| Chlorobenzene | OFW | < 0.5 | 25. | 26. | 25. | 25. | µg/L | 5. | 20 | 99. | 104. | 80 - 120 |
| Chloroethane | OFW | < 0.5 | 25. | 26. | 25. | 25. | µg/L | 6. | 20 | 100. | 106. | 80 - 120 |
| 1,4-Dichlorobenzene | OFW | < 0.5 | 25. | 27. | 25. | 25. | µg/L | 5. | 20 | 101. | 106. | 80 - 120 |
| 1,1-Dichloroethane | OFW | < 0.5 | 25. | 26. | 25. | 25. | µg/L | 2. | 20 | 100. | 102. | 80 - 120 |
| 1,1-Dichloroethene | OFW | < 0.5 | 25. | 27. | 25. | 25. | µg/L | 7. | 20 | 100. | 107. | 80 - 120 |
| Toluene | OFW | < 0.5 | 23. | 25. | 25. | 25. | µg/L | 8. | 20 | 93. | 101. | 80 - 120 |
| Trichloroethene | OFW | < 0.5 | 24. | 26. | 25. | 25. | µg/L | 8. | 20 | 97. | 106. | 80 - 120 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8260

Samples Affected: 01-07110-1 - 01-07110-8TB

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Benzene | CCV 1 | 22. | 25. | µg/L | 88. | 80 - 120 |
| Bromodichloromethane | CCV 1 | 23. | 25. | µg/L | 92. | 80 - 120 |
| Chlorobenzene | CCV 1 | 23. | 25. | µg/L | 94. | 80 - 120 |
| Chloroethane | CCV 1 | 22. | 25. | µg/L | 88. | 80 - 120 |
| 1,4-Dichlorobenzene | CCV 1 | 24. | 25. | µg/L | 98. | 80 - 120 |
| 1,1-Dichloroethane | CCV 1 | 22. | 25. | µg/L | 88. | 80 - 120 |
| 1,1-Dichloroethene | CCV 1 | 22. | 25. | µg/L | 87. | 80 - 120 |
| Toluene | CCV 1 | 22. | 25. | µg/L | 87. | 80 - 120 |
| Trichloroethene | CCV 1 | 22. | 25. | µg/L | 90. | 80 - 120 |

Quality Control Officer

Danette Bohm

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**BC Laboratories, Inc.**



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-12
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 14:40
Date Extracted: 06/27/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

All results listed in this report are for the exclusive use of the submitting party, BC Laboratories, Inc. assumes no responsibility for report alteration, detachment or third party interpretation.

**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-12, 06/20/2001 @ 14:40

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-1

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-12, 06/20/2001 @ 14:40

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98. | 76-114 |
| Toluene-d8 | 99. | 88-110 |
| 4-Bromofluorobenzene | 100. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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**BC Laboratories, Inc.**



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-13
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 11:10
Date Extracted: 06/27/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-13, 06/20/2001 @ 11:10

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-2

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-13, 06/20/2001 @ 11:10

---

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104. | 76-114 |
| Toluene-d8 | 98. | 88-110 |
| 4-Bromofluorobenzene | 99. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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**BC Laboratories, Inc.**



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-11
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 12:40
Date Extracted: 06/27/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 | |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 | |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 | |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 | |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 | |
| Bromomethane | None Detected | µg/L | 1. | 0.063 | |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 | |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 | |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 | |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 | |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 | |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 | |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 | |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 | |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 | |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 | |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 | |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 | |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 | |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 | |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 | |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 | |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 | |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 | |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 | |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 | |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 | |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 | |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 | |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 | |
| Ethyl Benzene | 0.09 | µg/L | 0.5 | 0.057 | *02 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 | |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 | |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 | |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 | |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 | |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 | |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-11, 06/20/2001 @ 12:40

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | 0.25 | µg/L | 0.5 | 0.047 | *02 |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-3

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-11, 06/20/2001 @ 12:40

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102. | 76-114 |
| Toluene-d8 | 90. | 88-110 |
| 4-Bromofluorobenzene | 98. | 86-115 |

Flag Explanations:
*02 = Sample result is between the MDL and PQL.
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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4100 Atlas Court * Bakersfield, CA 93308 * (661)327-4911 * Fax(661)327-1918 * www.bclabs.com

**BC Laboratories, Inc.**



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-16
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 10:05
Date Extracted: 06/27/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-16, 06/20/2001 @ 10:05

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-16, 06/20/2001 @ 10:05

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100. | 76-114 |
| Toluene-d8 | 97. | 88-110 |
| 4-Bromofluorobenzene | 100. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: LUCIO#2
Sample Matrix: Groundwater

Date Collected: 06/20/2001 @ 12:45
Date Extracted: 06/27/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Sample Description: GREGORY CANYON, GREGORY CANYON, LUCIO#2, 06/20/2001 @ 12:45

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-5

Sample Description: GREGORY CANYON, GREGORY CANYON, LUCIO#2, 06/20/2001 @ 12:45

---

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102. | 76-114 |
| Toluene-d8 | 100. | 88-110 |
| 4-Bromofluorobenzene | 102. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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**BC Laboratories, Inc.**



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-6

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: EQUIP BLANK
Sample Matrix: Groundwater

Date Collected: 06/21/2001
Date Extracted: 06/27/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-6

Sample Description: GREGORY CANYON, GREGORY CANYON, EQUIP BLANK, 06/21/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | 0.07 | µg/L | 0.5 | 0.047 | *02 |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| Ethyl Methacrylate | None Detected | µg/L | 20. | 10. | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | 3.7 | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

results listed in this report are for the exclusive use of the submitting party, BC Laboratories, Inc. assumes no responsibility for report alteration, detachment or third party interpretation.

**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-6

Sample Description: GREGORY CANYON, GREGORY CANYON, EQUIP BLANK, 06/21/2001

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104. | 76-114 |
| Toluene-d8 | 95. | 88-110 |
| 4-Bromofluorobenzene | 104. | 86-115 |

Flag Explanations:
*02 = Sample result is between the MDL and PQL.
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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**BC Laboratories, Inc.**



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-7

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: FIELD BLANK
Sample Matrix: Groundwater

Date Collected: 06/21/2001
Date Extracted: 06/27/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

results listed in this report are for the exclusive use of the submitting party, BC Laboratories, Inc. assumes no responsibility for report alteration, detachment or third party interpretation.

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-7

Sample Description: GREGORY CANYON, GREGORY CANYON, FIELD BLANK, 06/21/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-7

Sample Description: GREGORY CANYON, GREGORY CANYON, FIELD BLANK, 06/21/2001

---

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103. | 76-114 |
| Toluene-d8 | 101. | 88-110 |
| 4-Bromofluorobenzene | 98. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-8TB

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: TRIP BLANK
Sample Matrix: Blank Water

Date Collected: 06/21/2001
Date Extracted: 06/27/2001
Date Analyzed: 06/27/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-8TB

Sample Description: GREGORY CANYON, GREGORY CANYON, TRIP BLANK, 06/21/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/21/2001
Laboratory No.: 01-07110-8TB

Sample Description: GREGORY CANYON, GREGORY CANYON, TRIP BLANK, 06/21/2001

---

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98. | 76-114 |
| Toluene-d8 | 99. | 88-110 |
| 4-Bromofluorobenzene | 105. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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4100 Atlas Court * Bakersfield, CA 93308 * (661)327-4911 * Fax(661)327-1918 * www.bclabs.com

BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8270

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Acenaphthene | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 1,4-Dichlorobenzene | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 2,4-Dinitrotoluene | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| Hexachlorobenzene | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| Hexachlorobutadiene | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| Hexachloroethane | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| Nitrobenzene | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| N-Nitrosodi-n-propylamine | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| Pyrene | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 1,2,4-Trichlorobenzene | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 4-Chloro-3-methylphenol | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 2-Chlorophenol | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 2-Methylphenol | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 3- & 4-Methylphenol | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 4-Nitrophenol | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| Pentachlorophenol | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| Phenol | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |
| 2,4,6-Trichlorophenol | EPA-3510 | 06/22/2001 | WAE | EPA-8270 | 07/02/2001 | SKC |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8270

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Acenaphthene | < 2. | µg/L |
| Acenaphthylene | < 2. | µg/L |
| Aldrin | < 2. | µg/L |
| Aniline | < 5. | µg/L |
| Anthracene | < 2. | µg/L |
| Benzidine | <20. | µg/L |
| Benzo (a) anthracene | < 2. | µg/L |
| Benzo (b) fluoranthene | < 2. | µg/L |
| Benzo (k) fluoranthene | < 2. | µg/L |
| Benzo (a) pyrene | < 2. | µg/L |
| Benzo (ghi) perylene | < 2. | µg/L |
| Benzoic Acid | <10. | µg/L |
| Benzyl alcohol | < 2. | µg/L |
| Butyl Benzyl phthalate | < 2. | µg/L |
| alpha-BHC | < 2. | µg/L |
| beta-BHC | < 2. | µg/L |
| delta-BHC | < 2. | µg/L |
| gamma-BHC | < 2. | µg/L |
| bis(2-chloroethyl)ether | < 2. | µg/L |
| bis(2-chloroethoxy)methane | < 2. | µg/L |
| bis(2-chloro-1-methylethyl) et | < 2. | µg/L |
| bis(2-ethylhexyl)phthalate | < 2. | µg/L |
| 4-Bromophenyl phenyl ether | < 2. | µg/L |
| 4-Chloroaniline | < 2. | µg/L |
| 2-Chloronaphthalene | < 2. | µg/L |
| 4-Chlorophenyl phenyl ether | < 2. | µg/L |
| Chrysene | < 2. | µg/L |
| 4,4-DDD' | < 2. | µg/L |
| 4,4-DDE' | < 3. | µg/L |

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8270

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 4,4-DDT' | < 2. | µg/L |
| Dibenzo (a,h) anthracene | < 3. | µg/L |
| Dibenzofuran | < 2. | µg/L |
| Di-n-butyl phthalate | < 2. | µg/L |
| 1,2-Dichlorobenzene | < 2. | µg/L |
| 1,3-Dichlorobenzene | < 2. | µg/L |
| 1,4-Dichlorobenzene | < 2. | µg/L |
| 3,3-Dichlorobenzidine | <10. | µg/L |
| Dieldrin | < 3. | µg/L |
| Diethyl phthalate | < 2. | µg/L |
| Dimethyl phthalate | < 2. | µg/L |
| 2,4-Dinitrotoluene | < 2. | µg/L |
| 2,6-Dinitrotoluene | < 2. | µg/L |
| Di-n-octylphthalate | < 2. | µg/L |
| 1,2-Diphenylhydrazine | < 2. | µg/L |
| Endosulfan I | <10. | µg/L |
| Endosulfan II | <10. | µg/L |
| Endosulfan sulfate | < 3. | µg/L |
| Endrin | < 2. | µg/L |
| Endrin aldehyde | <10. | µg/L |
| Fluoranthene | < 2. | µg/L |
| Fluorene | < 2. | µg/L |
| Heptachlor | < 2. | µg/L |
| Heptachlor epoxide | < 2. | µg/L |
| Hexachlorobenzene | < 2. | µg/L |
| Hexachlorobutadiene | < 2. | µg/L |
| Hexachlorocyclopentadiene | < 2. | µg/L |
| Hexachloroethane | < 2. | µg/L |
| Indeno (1,2,3-cd) pyrene | < 2. | µg/L |

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B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8270

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Isophorone | < 2. | µg/L |
| 2-Methylnaphthalene | < 2. | µg/L |
| Naphthalene | < 2. | µg/L |
| 2-Naphthylamine | <20. | µg/L |
| 2-Nitroaniline | < 2. | µg/L |
| 3-Nitroaniline | < 2. | µg/L |
| 4-Nitroaniline | < 5. | µg/L |
| Nitrobenzene | < 2. | µg/L |
| n-Nitrosodimethylamine | < 2. | µg/L |
| n-Nitrosodiphenylamine | < 2. | µg/L |
| N-Nitrosodi-n-propylamine | < 2. | µg/L |
| Phenanthrene | < 2. | µg/L |
| Pyrene | < 2. | µg/L |
| 1,2,4-Trichlorobenzene | < 2. | µg/L |
| 4-Chloro-3-methylphenol | < 5. | µg/L |
| 2-Chlorophenol | < 2. | µg/L |
| 2,4-Dichlorophenol | < 2. | µg/L |
| 2,4-Dimethylphenol | < 2. | µg/L |
| 2,4-Dinitrophenol | <10. | µg/L |
| 2-Methyl-4,6-dinitrophenol | <10. | µg/L |
| 2-Methylphenol | < 2. | µg/L |
| 3- & 4-Methylphenol | < 2. | µg/L |
| 2-Nitrophenol | < 2. | µg/L |
| 4-Nitrophenol | < 2. | µg/L |
| Pentachlorophenol | <10. | µg/L |
| Phenol | < 2. | µg/L |
| 2,4,5-Trichlorophenol | < 5. | µg/L |
| 2,4,6-Trichlorophenol | < 5. | µg/L |
| Acetophenone | <10. | µg/L |

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8270

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 2-Acetylaminofluorene | <10. | µg/L |
| 4-Aminobiphenyl | <20. | µg/L |
| 2,6-Dichlorophenol | <10. | µg/L |
| p-(Dimethylamine) azobenzene | <10. | µg/L |
| 7,12-Dimethylbenz (a) anthracene | <10. | µg/L |
| 3,3'-Dimethylbenzidine | <20. | µg/L |
| Diphenylamine | <10. | µg/L |
| Ethyl methacrylate | <10. | µg/L |
| Ethyl methanesulfonate | <10. | µg/L |
| Kepone | <20. | µg/L |
| Methapyrilene | <10. | µg/L |
| 3-Methylcholanthrene | <10. | µg/L |
| Methyl methanesulfonate | <10. | µg/L |
| 1,4-Napthoquinone | <20. | µg/L |
| 1-Napthylamine | <20. | µg/L |
| 5-Nitro-o-toluidine | <10. | µg/L |
| n-Nitrosodibutylamine | <10. | µg/L |
| n-Nitrosomethylethylamine | <10. | µg/L |
| n-Nitrosopiperidine | <10. | µg/L |
| n-Nitrosopyrrolidine | <10. | µg/L |
| Pentachlorobenzene | <10. | µg/L |
| Pentachloronitrobenzene | <10. | µg/L |
| Phenacetin | <10. | µg/L |
| 1,4-Phenylenediamine | <20. | µg/L |
| Pronamide | <10. | µg/L |
| 1,2,4,5-Tetrachlorobenzene | <10. | µg/L |
| 2,3,4,6-Tetrachlorophenol | <10. | µg/L |
| o-Toluidine | <10. | µg/L |

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8270

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 0,0,0-Triethyl phosphorothioate | <10. | µg/L |
| 1,3,5-Trinitrobenzene | <10. | µg/L |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8270

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | SDI2-MS1-06-22 | < 2. | 49.91 | 50.63 | 80.00 | 80.00 | µg/L | 1. | 14 | 62. | 63. | 62 - 116 |
| 1,4-Dichlorobenzene | SDI2-MS1-06-22 | < 2. | 47.44 | 48.44 | 80.00 | 80.00 | µg/L | 2. | 19 | 59. | 61. | 56 - 116 |
| 2,4-Dinitrotoluene | SDI2-MS1-06-22 | < 2. | 54.24 | 53.74 | 80.00 | 80.00 | µg/L | 1. | 14 | 68. | 67. | 67 - 126 |
| Hexachlorobenzene | SDI2-MS1-06-22 | < 2. | 50.58 | 49.29 | 80.00 | 80.00 | µg/L | 3. | 10 | 63. | 62. | 59 - 137 |
| Hexachlorobutadiene | SDI2-MS1-06-22 | < 2. | 39.94 | 39.45 | 80.00 | 80.00 | µg/L | 1. | 18 | 50. | 49. | 38 - 117 |
| Hexachloroethane | SDI2-MS1-06-22 | < 2. | 46.38 | 47.28 | 80.00 | 80.00 | µg/L | 2. | 25 | 58. | 59. | 44 - 127 |
| Nitrobenzene | SDI2-MS1-06-22 | < 2. | 61.40 | 60.52 | 80.00 | 80.00 | µg/L | 1. | 16 | 77. | 76. | 67 - 111 |
| N-Nitrosodi-n-propylamine | SDI2-MS1-06-22 | < 2. | 55.06 | 54.36 | 80.00 | 80.00 | µg/L | 1. | 15 | 69. | 68. | 51 - 123 |
| Pyrene | SDI2-MS1-06-22 | < 2. | 53.26 | 52.20 | 80.00 | 80.00 | µg/L | 2. | 12 | 67. | 65. | 31 - 151 |
| 1,2,4-Trichlorobenzene | SDI2-MS1-06-22 | < 2. | 49.00 | 48.62 | 80.00 | 80.00 | µg/L | 1. | 18 | 61. | 61. | 51 - 119 |
| 4-Chloro-3-methylphenol | SDI2-MS1-06-22 | < 5. | 62.31 | 62.03 | 80.00 | 80.00 | µg/L | 0. | 13 | 78. | 78. | 53 - 134 |
| 2-Chlorophenol | SDI2-MS1-06-22 | < 2. | 64.81 | 64.26 | 80.00 | 80.00 | µg/L | 1. | 15 | 81. | 80. | 54 - 123 |
| 2-Methylphenol | SDI2-MS1-06-22 | < 2. | 58.26 | 58.68 | 80.00 | 80.00 | µg/L | 1. | 12 | 73. | 73. | 55 - 113 |
| 3- & 4-Methylphenol | SDI2-MS1-06-22 | < 2. | 49.10 | 49.38 | 80.00 | 80.00 | µg/L | 1. | 14 | 61. | 62. | 43 - 110 |
| 4-Nitrophenol | SDI2-MS1-06-22 | < 2. | 25.71 | 23.21 | 80.00 | 80.00 | µg/L | 10. | 24 | 32. | 29. | 19 - 71 |
| Pentachlorophenol | SDI2-MS1-06-22 | < 10. | 64.87 | 60.98 | 80.00 | 80.00 | µg/L | 6. | 17 | 81. | 76. | 35 - 167 |
| Phenol | SDI2-MS1-06-22 | < 2. | 30.94 | 30.63 | 80.00 | 80.00 | µg/L | 1. | 15 | 39. | 38. | 33 - 59 |
| 2,4,6-Trichlorophenol | SDI2-MS1-06-22 | < 5. | 60.66 | 59.36 | 80.00 | 80.00 | µg/L | 2. | 14 | 76. | 74. | 42 - 134 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107110-1*8270

Samples Affected: 01-07110-1 - 01-07110-5

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Acenaphthene | LCS | 46.40 | 80.00 | µg/L | 58. | 62 - 116 |
| 1,4-Dichlorobenzene | LCS | 43.81 | 80.00 | µg/L | 55. | 56 - 116 |
| 2,4-Dinitrotoluene | LCS | 48.64 | 80.00 | µg/L | 61. | 67 - 126 |
| Hexachlorobenzene | LCS | 45.94 | 80.00 | µg/L | 57. | 59 - 137 |
| Hexachlorobutadiene | LCS | 36.53 | 80.00 | µg/L | 46. | 38 - 117 |
| Hexachloroethane | LCS | 42.81 | 80.00 | µg/L | 54. | 44 - 127 |
| Nitrobenzene | LCS | 57.56 | 80.00 | µg/L | 72. | 67 - 111 |
| N-Nitrosodi-n-propylamine | LCS | 50.32 | 80.00 | µg/L | 63. | 51 - 123 |
| Pyrene | LCS | 46.12 | 80.00 | µg/L | 58. | 31 - 151 |
| 1,2,4-Trichlorobenzene | LCS | 45.45 | 80.00 | µg/L | 57. | 51 - 119 |
| 4-Chloro-3-methylphenol | LCS | 58.79 | 80.00 | µg/L | 73. | 53 - 134 |
| 2-Chlorophenol | LCS | 60.16 | 80.00 | µg/L | 75. | 54 - 123 |
| 2-Methylphenol | LCS | 53.71 | 80.00 | µg/L | 67. | 55 - 113 |
| 3- & 4-Methylphenol | LCS | 46.00 | 80.00 | µg/L | 58. | 43 - 110 |
| 4-Nitrophenol | LCS | 23.20 | 80.00 | µg/L | 29. | 19 - 71 |
| Pentachlorophenol | LCS | 59.03 | 80.00 | µg/L | 74. | 35 - 167 |
| Phenol | LCS | 28.74 | 80.00 | µg/L | 36. | 33 - 59 |
| 2,4,6-Trichlorophenol | LCS | 56.15 | 80.00 | µg/L | 70. | 42 - 134 |

The LCS recoveries for 1,4-Dichlorobenzene, Acenaphthene, 2,4-Dinitrotoluene and Hexachlorobenzene are outside QC limits.

Quality Control Officer

Danette Bohm

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BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No.7 10/03/00 Page 1 Of 2 3

Submission #: 01-07110 | Project Code: | TB Batch # 323-sc

**SHIPPING INFORMATION**

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

**COC Received**

☑ YES ☐ NO

Ice Chest ID _____ Date/Time 6-21-01
Temperature: 2.4 °C 1555
Thermometer ID: 80 Analyst Init DJR
Emissivity 1.00
Container QT PG

Ice Chest ID _____ Date/Time _____
Temperature: _____ °C
Thermometer ID: _____ Analyst Init _____
Emissivity _____
Container

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QT GENERAL MINERAL/ GENERAL PHYSICAL | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | | | | | | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT TOTAL SULFIDE | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml TOTAL ORGANIC CARBON | | | | | | | | | | | | | | | | | | | | | | | | |
| QT TOX | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml PHENOLICS | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| PT ODOR | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT EPA 504 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 508/608/8080 | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | |
| QT EPA 515.1/8150 | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | |
| QT EPA ~~525~~ 625 | 2 | | 2 | | 2 | | | | | | | | | | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 547 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 531.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 548 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | | | | | | | | | | | | | | | |
| QT QA/QC | | | | | | | | | | | | | | | | | | | | | | | | |
| QT AMBER | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | | | | | | | | | | | | | | | |

Comments: missing Travel Blank, received no cyanide bottles

Sample Numbering Completed By: SS Date/Time: 6/21 2130

[F:\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

2nd

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No.7 10/03/00 Page 2 Of 2

Submission #: 01-07110 | Project Code: | TB Batch # 323-c

**SHIPPING INFORMATION**

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

**COC Received**

☒ YES ☐ NO

Ice Chest ID _____ Date/Time 6-21-01
Temperature: 5.2 °C 1550
Thermometer ID: 80 Analyst Init DJR
Emissivity 1.00
Container B+PE

Ice Chest ID _____ Date/Time _____
Temperature: _____ °C
Thermometer ID: _____ Analyst Init _____
Emissivity _____
Container _____

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QT GENERAL MINERAL/ GENERAL PHYSICAL | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | | | | | | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT TOTAL SULFIDE | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml TOTAL ORGANIC CARBON | | | | | | | | | | | | | | | | | | | | | | | | |
| QT TOX | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml PHENOLICS | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL | 2 | 2 | 2 | 2 | 2 | 1 | 1 | | | | | | | | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| PT ODOR | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT EPA 504 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 508/608/8080 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | |
| QT EPA 515.1/8150 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | |
| QT EPA ~~525~~ 1025 | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 547 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 531.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 548 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | | | | | | | | | | | | | | | |
| QT OA/QC | | | | | | | | | | | | | | | | | | | | | | | | |
| QT AMBER | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | | | | | | | | | | | | | | | |

Comments: Missing Travel Blank, received no cyanide bottles

Sample Numbering Completed By: SS Date/Time: 6/21 2200

[F:\WP80\LAB_DOCS\FORMS\SAMREC2.WP]

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No.7 10/03/00 Page 3 Of 3

Submission #: 01-07110 | Project Code: | TB Batch # 323

**SHIPPING INFORMATION**

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

**COC Received**

☒ YES ☐ NO

Ice Chest ID Blue/white Date/Time 6/22
Temperature: 4.6 °C 1730
Thermometer ID: 30 Analyst Init JRM
Emissivity 1.00
Container Temp blank

Ice Chest ID _____ Date/Time _____
Temperature: _____ °C
Thermometer ID: _____ Analyst Init _____
Emissivity _____
Container _____

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QT GENERAL MINERAL/ GENERAL PHYSICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | | | | | | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml TOTAL ORGANIC CARBON | | | | | | | | | | | | | | | | | | | | | | | | |
| QT TOX | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml PHENOLICS | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK 6/23 | X | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| PT ODOR | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT EPA 504 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 547 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 531.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 548 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | | | | | | | | | | | | | | | |
| QT OA/QC | | | | | | | | | | | | | | | | | | | | | | | | |
| QT AMBER | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | | | | | | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: SS Date/Time: 6/23 0100

[F:\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

01-07151

OK to run 8270 & 8080 past holding holding time per Bill Lopez

BAS
BRYAN A. STIRRAT & ASSOCIATES

# CHAIN OF CUSTODY



6/29 Due to lab error 6/29 TG

**PROJECT INFORMATION**

PROJECT NAME: Gregory Canyon
JOB NUMBER:
PROJECT MANAGER: Sarah Battelle
LABORATORY: BC Labs
SHIPMENT METHOD: Lab Courier
TURNAROUND TIME:
DISPOSAL: Lab Disposal [ ] Return [ ] Pick Up [ ]

| | BAS Sample I.D. | LAB I.D. | DATE | TIME | MATRIX | NUMBER OF CONTAINERS | Chloride Sulfate, Nitrate (N) pH, TDS | Metals (Ca, Mg, Na) | CAM Metals (Except Molybdenum) + Tin) | 8260 (Volatile Organics including isobutyl alcohol | 8270 (SVOCs including organophosphorus pesticides | Cyanide, Sulfide | 8150 (Chlorinated Herbicides) | 8080 (Organochlorine Pesticides & PCBs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SW-1 | | 6-21-01 | 1320 | SW | 9 | X | X | X | X | X | X | X | X |
| 2 | SW-2 | | | 1245 | SW | 9 | X | X | X | X | X | X | X | X |
| 3 | GLA-2 | | | 1200 | GW | 9 | X | X | X | X | X | X | X | X |
| 4 | GLA-4 | | | 0900 | | 9 | X | X | X | X | X | X | X | X |
| 5 | GLA-10 | | | 1050 | | 9 | X | X | X | X | X | X | X | X |
| 6 | GLA-14 | | | 0930 | | 9 | X | X | X | X | X | X | X | X |
| 7 | MWD#34 | | | 0955 | | 9 | X | X | X | X | X | X | X | X |
| 8 | FIELD BLANK | | | — | W | 1 | | | | X | | | | |
| 9 | EQUIP. BLANK | | | — | W | 1 | | | | X | | | | |
| 10 | Trip Blank TB | | | — | W | 1 | | | | X | | | | |

* Ambers w/no description set them aside. Client will inform us what to do later AC 6/25/01

CHK BY DISTRIBUTION
MA BGSD
SUB-OUT

SHORT HOLDING TIME
$Cr^{+6}$ $NO_2$ $NO_3$ OP SF
DO BOD MBAS C O

| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) |
|---|---|---|
| Ricardo Ramirez | 6-21-01 1435 | [signature] |
| [signature] | 6/22/01 | [signature] 6-22-01 1300 |
| [signature] | 6-22-01 1723 | Stacy Stricklind 6/22/01 1730 |

**SAMPLE CONDITION (Lab Initials)**

Shipping Container:
Sealed
Sample(s):
Integrity
Chilled
Sealed

**COMMENTS:**
Equip. & field blanks collected w/ BAS DI water
No container provided for Cyanide perameter
-2, -3
cannot run 6270/8080 no labels (cancel)

1360 Valley Vista Drive, Diamond Bar, CA 91765 (909) 860-7777 FAX (909) 860-8017

Original to accompany lab report Copy 1 – Lab Copy 2 – Originator

01 07151 OK to run 8270 + 8080 past holding holding time per Bill Lopez

BAS
BRYAN A. STIRRAT & ASSOCIATES

# CHAIN OF CUSTODY

Page 1 of 1

**PROJECT INFORMATION**

PROJECT NAME: Gregory Canyon
JOB NUMBER:
PROJECT MANAGER: Sarah Battelle
LABORATORY: BC Labs
SHIPMENT METHOD: Lab Courier
TURNAROUND TIME:

DISPOSAL: Lab Disposal [ ] Return [ ] Pick Up [ ]

S 6/29 Due to lab error 6/29 TG

| | BAS Sample I.D. | LAB I.D. | DATE | TIME | MATRIX | NUMBER OF CONTAINERS | Chloride, Sulfate, Nitrate (N), pH, TDS | Metals (Ca, Mg, Na) | CAM Metals (Except Molybdenum) + Tin) | 8260 (Volatile Organics including isobutyl alcohol) | 8270 (SVOCs including organophosphorus pesticides) | Cyanide, Sulfide | 8150 (Chlorinated Herbicides) | 8080 (Organochlorine Pesticides & PCBs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SW-1 | | 6-21-01 | 1320 | SW | 9 | X | X | X | X | X | X | X | X |
| 2 | SW-2 | | | 1245 | SW | 9 | X | X | X | X | X | X | X | X |
| 3 | GLA-2 | | | 1200 | GW | 9 | X | X | X | X | X | X | X | X |
| 4 | GLA-4 | | | 0900 | | 9 | X | X | X | X | X | X | X | X |
| 5 | GLA-10 | | | 1050 | | 9 | X | X | X | X | X | X | X | X |
| 6 | GLA-14 | | | 0930 | | 9 | X | X | X | X | X | X | X | X |
| 7 | MWD#34 | | | 0955 | | 9 | X | X | X | X | X | X | X | X |
| 8 | FIELD BLANK | | | — | W | 1 | | | | X | | | | |
| 9 | EQUIP. BLANK | | | — | W | 1 | | | | X | | | | |
| 10 | Trip Blank | | | — | W | 1 | | | | X | | | | |

MABGSB

| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) |
|---|---|---|
| Ricardo Ramirez | 6-21-01 1435 | [signature] |
| [signature] | 6/22/01 | [signature] 6-22-01 1300 |
| [signature] | 6-22-01 1723 | Stacey Stricklind 6/22/01 1730 |

**SAMPLE CONDITION (Lab Initials)**

Shipping Container:
Sealed _____
Sample(s):
Integrity _____
Chilled _____
Sealed _____

**COMMENTS:**

Equip. & field blanks collected w/ BAS DI water
No container provided for Cyanide perameter

1360 Valley Vista Drive, Diamond Bar, CA 91765 (909) 860-7777 FAX (909) 860-8017

Original to accompany lab report Copy 1 – Lab Copy 2 – Originator

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No.7 10/03/00 Page 1 Of 4

Submission #: 01-07151 | Project Code: | TB Batch #

**SHIPPING INFORMATION**

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? ~~Yes ☒~~ No ☒ 6/22

**COC Received**

☒ YES ☐ NO

Ice Chest ID Red/White Date/Time 6/22/20
Temperature: 3.8 °C
Thermometer ID: 80 Analyst Init JPM
Emissivity 100
Container Temp blank 202

Ice Chest ID _____ Date/Time _____
Temperature: _____ °C
Thermometer ID: _____ Analyst Init _____
Emissivity _____
Container _____

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QT GENERAL MINERAL/ GENERAL PHYSICAL | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | | | | | | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT TOTAL SULFIDE | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml TOTAL ORGANIC CARBON | | | | | | | | | | | | | | | | | | | | | | | | |
| QT TOX | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml PHENOLICS | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| PT ODOR | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT EPA 504 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 515.1/8150 | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 547 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 531.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 548 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | | | | | | | | | | | | | | | |
| QT QA/QC | | | | | | | | | | | | | | | | | | | | | | | | |
| QT AMBER | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | | | | | | | | | | | | | | | |
| * no cyanide Bottles | | | | | | | | | | | | | | | | | | | | | | | | |

Comments: received 6 Ambers with no descriptions on them

Sample Numbering Completed By: SS Date/Time: 6/22 2045 I could not match to COC

[F:\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No.7 10/03/00 Page 2 Of 4

Submission #: 01-07151 | Project Code: | TB Batch #

**SHIPPING INFORMATION**

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

**COC Received**

☒ YES ☐ NO

Ice Chest ID blue/white Date/Time 6/22/730
Temperature: 4.6 °C
Thermometer ID: 80 Analyst Init RM
Emissivity 100
Container Templblank.

Ice Chest ID _____ Date/Time _____
Temperature: _____ °C
Thermometer ID: _____ Analyst Init _____
Emissivity _____
Container _____

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QT GENERAL MINERAL/ GENERAL PHYSICAL | 1 | | | 1 | | | 1 | | | | | | | | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | | | | | | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml TOTAL ORGANIC CARBON | | | | | | | | | | | | | | | | | | | | | | | | |
| QT TOX | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml PHENOLICS | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| 40ml VOA VIAL | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | | | | | | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| PT ODOR | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT EPA 504 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 508/608/8080 | | | 1 | | | | 1 | | | | | | | | | | | | | | | | | |
| QT EPA 515.1/8150 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 547 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 531.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 548 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | | | | | | | | | | | | | | | |
| QT QA/QC | | | | | | | | | | | | | | | | | | | | | | | | |
| QT AMBER | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | | | | | | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: SS Date/Time: 6/22 2035

[F:\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No.7 10/03/00 Page 3 Of 4

**Submission #:** 01-07151 **Project Code:** **TB Batch #**

**SHIPPING INFORMATION**
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☒ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

**COC Received**
☒ YES ☐ NO

Ice Chest ID blueunit Date/Time 6/22 1730
Temperature: 5.3 °C
Thermometer ID: 80 Analyst Init JRM
Emissivity 100
Container 2oz Temp blank

Ice Chest ID _____ Date/Time _____
Temperature: _____ °C
Thermometer ID: _____ Analyst Init _____
Emissivity _____
Container _____

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QT GENERAL MINERAL/ GENERAL PHYSICAL | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | | | | | | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml TOTAL ORGANIC CARBON | | | | | | | | | | | | | | | | | | | | | | | | |
| QT TOX | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml PHENOLICS | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| PT ODOR | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT EPA 504 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | |
| QT EPA ~~525~~ 625 | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 547 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 531.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 548 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | | | | | | | | | | | | | | | |
| QT QA/QC | | | | | | | | | | | | | | | | | | | | | | | | |
| QT AMBER | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | | | | | | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: SS Date/Time: 6/22 2030

[F:\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No.7 10/03/00 Page 4 Of 4

**Submission #:** 01-07151 **Project Code:** **TB Batch #**

**SHIPPING INFORMATION**

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

**SHIPPING CONTAINER**

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

**COC Received**

☒ YES ☐ NO

Ice Chest ID Blue/White Date/Time 6/22/01
Temperature: 2.4 °C 1730
Thermometer ID: 80 Analyst Init SS
Emissivity 98
Container RTA

Ice Chest ID _____ Date/Time _____
Temperature: _____ °C
Thermometer ID: _____ Analyst Init _____
Emissivity _____
Container _____

| SAMPLE CONTAINERS | SAMPLE NUMBERS 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QT GENERAL MINERAL/ GENERAL PHYSICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | | | | | | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml TOTAL ORGANIC CARBON | | | | | | | | | | | | | | | | | | | | | | | | |
| QT TOX | | | | | | | | | | | | | | | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml PHENOLICS | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| PT ODOR | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PT EPA 504 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 508/608/8080 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | |
| QT EPA ~~525~~ 625 | 2 | | | 1 | | | 2 | | | | | | | | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 547 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100ml EPA 531.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 548 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | | | | | | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | | | | | | | | | | | | | | | |
| QT QA/QC | | | | | | | | | | | | | | | | | | | | | | | | |
| QT AMBER | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | | | | | | | | | | | | | | | |

Comments:_____

Sample Numbering Completed By: [signature] Date/Time: 06/22/00

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BC Laboratories, Inc.



WATER ANALYSIS
(GENERAL CHEMISTRY)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/11/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-1
Sampling Date/Time: 06/21/2001 @ 13:20

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Calcium | | 94. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | | 35. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | | 73. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | | 204. | mg/L | 1.0 | 0.25 | EPA-300.0 |
| Chloride | | 113. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | *02 | 0.059 | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | | 7.98 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | | 703. | mg/L | 40. | 20. | EPA-160.1 |
| Total Cyanide | | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*02 = Sample result is between the MDL and PQL.

California D.O.H.S. Cert. #1186

M. Atencio

Marna Atencio
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



WATER ANALYSIS
(GENERAL CHEMISTRY)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/11/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-2
Sampling Date/Time: 06/21/2001 @ 12:45

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Calcium | | 96. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | | 36. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | | 75. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | | 195. | mg/L | 1.0 | 0.25 | EPA-300.0 |
| Chloride | | 111. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | *02 | 0.030 | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | | 7.86 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | | 700. | mg/L | 40. | 20. | EPA-160.1 |
| Total Cyanide | | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*02 = Sample result is between the MDL and PQL.

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Marna Atencio
Department Supervisor

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WATER ANALYSIS
(GENERAL CHEMISTRY)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-2
Sampling Date/Time: 06/21/2001 @ 12:00

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 170. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | 100. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | 230. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | 160. | mg/L | 5.0 | 1.3 | EPA-300.0 |
| Chloride | 529. | mg/L | 2.5 | 0.45 | EPA-300.0 |
| Nitrate as N | 42.9 | mg/L | 0.5 | 0.10 | EPA-300.0 |
| pH | 7.34 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | 1620. | mg/L | 100. | 50. | EPA-160.1 |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

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M. Atencio

Marna Atencio
Department Supervisor

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WATER ANALYSIS
(GENERAL CHEMISTRY)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-4
Sampling Date/Time: 06/21/2001 @ 09:00

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 72. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | 22. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | 74. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | 35. | mg/L | 1.0 | 0.25 | EPA-300.0 |
| Chloride | 78. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | 1.48 | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | 7.03 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | 490. | mg/L | 40. | 20. | EPA-160.1 |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

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Marna Atencio
Department Supervisor

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WATER ANALYSIS
(GENERAL CHEMISTRY)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-10
Sampling Date/Time: 06/21/2001 @ 10:50

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 62. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | 36. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | 88. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | 60. | mg/L | 1.0 | 0.25 | EPA-300.0 |
| Chloride | 144. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | 6.17 | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | 7.18 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | 590. | mg/L | 40. | 20. | EPA-160.1 |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

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Marna Atencio
Department Supervisor

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WATER ANALYSIS
(GENERAL CHEMISTRY)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-14
Sampling Date/Time: 06/21/2001 @ 09:30

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Calcium | | 75. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | | 43. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | | 92. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | | 75. | mg/L | 1.0 | 0.25 | EPA-300.0 |
| Chloride | | 155. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | | 15.1 | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | | 7.29 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | | 667. | mg/L | 40. | 20. | EPA-160.1 |
| Total Cyanide | | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | *01 | None Detected | mg/L | 0.5 | 0.25 | EPA-376.2 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.

California D.O.H.S. Cert./#1186

M. Atencio

Marna Atencio
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



WATER ANALYSIS
(GENERAL CHEMISTRY)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: MWD#34
Sampling Date/Time: 06/21/2001 @ 09:55

| Constituents | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|
| Calcium | 79. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Magnesium | 28. | mg/L | 0.05 | 0.02 | EPA-6010 |
| Sodium | 61. | mg/L | 0.5 | 0.07 | EPA-6010 |
| Sulfate | 140. | mg/L | 1.0 | 0.25 | EPA-300.0 |
| Chloride | 78. | mg/L | 0.5 | 0.090 | EPA-300.0 |
| Nitrate as N | None Detected | mg/L | 0.1 | 0.020 | EPA-300.0 |
| pH | 7.66 | pH Units | -. | -. | EPA-9040 |
| Total Dissolved Solids @ 180 C | 560. | mg/L | 40. | 20. | EPA-160.1 |
| Total Cyanide | None Detected | mg/L | 0.02 | 0.0063 | EPA-9012 |
| Total Sulfide | None Detected | mg/L | 0.1 | 0.050 | EPA-376.2 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

California D.O.H.S. Cert. #1186

Marna Atencio
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



WATER ANALYSIS
(METALS)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-1
Sampling Date/Time: 06/21/2001 @ 13:20

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | *02 | 1. | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 82. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | * | 0.7 | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | *02 | 5. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | | 10. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | | 5.0 | µg/L | 10. | 0.89 | EPA-6010 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
* = Sample result is between the MDL and PQL.
Continuing calibration blank result is between the MDL and PQL.
*01 = Note: PQL's and MDL's are raised due to matrix interferences.
*02 = Sample result is between the MDL and PQL.

California D.O.H.S. Cert. #1186

Dan Schultz
Laboratory Director

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



WATER ANALYSIS
(METALS)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-2
Sampling Date/Time: 06/21/2001 @ 12:45

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 88. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | *02 | 6. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | *02 | 8. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | *02 | 1.4 | µg/L | 10. | 0.89 | EPA-6010 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.
*02 = Sample result is between the MDL and PQL.

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Dan Schultz
Laboratory Director

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WATER ANALYSIS
(METALS)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-2
Sampling Date/Time: 06/21/2001 @ 12:00

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 66. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | *02 | 0.13 | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | *02 | 3. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | | 40. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | *02 | 5.7 | µg/L | 10. | 0.89 | EPA-6010 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.
*02 = Sample result is between the MDL and PQL.

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Dan Schultz
Laboratory Director

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WATER ANALYSIS
(METALS)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-4
Sampling Date/Time: 06/21/2001 @ 09:00

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 30. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | *02 | 4. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | 20. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | *02 | 7. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | | 450. | µg/L | 10. | 0.89 | EPA-6010 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.
*02 = Sample result is between the MDL and PQL.

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Dan Schultz
Laboratory Director

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WATER ANALYSIS
(METALS)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-10
Sampling Date/Time: 06/21/2001 @ 10:50

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | *02 | 9. | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 64. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | | None Detected | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | | 30. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | | 72. | µg/L | 10. | 0.89 | EPA-6010 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.
*02 = Sample result is between the MDL and PQL.

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Dan Schultz
Laboratory Director

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WATER ANALYSIS
(METALS)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-14
Sampling Date/Time: 06/21/2001 @ 09:30

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 130. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | *02 | 4. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | *02 | 3. | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | | 30. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | *02 | 9.2 | µg/L | 10. | 0.89 | EPA-6010 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.
*02 = Sample result is between the MDL and PQL.

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Dan Schultz
Laboratory Director

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WATER ANALYSIS
(METALS)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: MWD#34
Sampling Date/Time: 06/21/2001 @ 09:55

| Constituents | | Results | Units | P.Q.L. | M.D.L. | Method |
|---|---|---|---|---|---|---|
| Dissolved Antimony | | None Detected | µg/L | 100. | 8. | EPA-6010 |
| Dissolved Arsenic | | None Detected | µg/L | 2. | 0.7 | EPA-7060 |
| Dissolved Barium | | 100. | µg/L | 10. | 0.9 | EPA-6010 |
| Dissolved Beryllium | | None Detected | µg/L | 10. | 0.32 | EPA-6010 |
| Dissolved Cadmium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Chromium | | None Detected | µg/L | 10. | 4. | EPA-6010 |
| Dissolved Cobalt | | None Detected | µg/L | 50. | 2. | EPA-6010 |
| Dissolved Copper | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Lead | | None Detected | µg/L | 1. | 0.40 | EPA-7421 |
| Dissolved Mercury | | None Detected | µg/L | 0.2 | 0.10 | EPA-7470 |
| Dissolved Nickel | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Selenium | *01 | None Detected | µg/L | 4. | 0.6 | EPA-7740 |
| Dissolved Silver | *02 | 4. | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Tin | *02 | 4. | µg/L | 5. | 2. | EPA-282.2 |
| Dissolved Thallium | | None Detected | µg/L | 1. | 0.7 | EPA-7841 |
| Dissolved Vanadium | | None Detected | µg/L | 10. | 3. | EPA-6010 |
| Dissolved Zinc | *02 | 2.8 | µg/L | 10. | 0.89 | EPA-6010 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Sample was filtered and acidified in the field.

Flag Explanations:
*01 = Note: PQL's and MDL's are raised due to matrix interferences.
*02 = Sample result is between the MDL and PQL.

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Dan Schultz
Laboratory Director

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**BC Laboratories, Inc.**



Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-1
Sample Matrix: Sewer Effluent

Date Collected: 06/21/2001 @ 13:20
Date Extracted: 06/24/2001
Date Analyzed: 07/18/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 | |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 | |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 | |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 | |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 | |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 | * |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 | |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 | |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 | |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 | |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 | |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 | * |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 | |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 | |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 | |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 | |
| Toxaphene | None Detected | µg/L | 2. | 1. | |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 | |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 | |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 | |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 | |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 | |
| Surrogates | | | | | |
| TCMX | 91. | % | 51-118 | | |
| Dibutyl chlorendate | 109. | % | 62-142 | | |

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Sample Description: GREGORY CANYON, GREGORY CANYON, SW-1, 06/21/2001 @ 13:20

Flag Explanations:
* = ICV Criteria not met.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-2
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 12:00
Date Extracted: 06/24/2001
Date Analyzed: 07/18/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 | |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 | |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 | |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 | |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 | |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 | * |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 | |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 | |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 | |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 | |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 | |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 | * |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 | |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 | |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 | |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 | |
| Toxaphene | None Detected | µg/L | 2. | 1. | |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 | |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 | |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 | |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 | |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 | |
| Surrogates | | | | | |
| TCMX | 87. | % | 51-118 | | |
| Dibutyl chlorendate | 95. | % | 62-142 | | |

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-3

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-2, 06/21/2001 @ 12:00

Flag Explanations:
* = ICV criteria not met.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-4
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:00
Date Extracted: 06/24/2001
Date Analyzed: 07/18/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 | |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 | |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 | |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 | |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 | |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 | * |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 | |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 | |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 | |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 | |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 | |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 | * |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 | |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 | |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 | |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 | |
| Toxaphene | None Detected | µg/L | 2. | 1. | |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 | |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 | |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 | |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 | |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 | |
| Surrogates | | | | | |
| TCMX | 81. | % | 51-118 | | |
| Dibutyl chlorendate | 94. | % | 62-142 | | |

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-4, 06/21/2001 @ 09:00

Flag Explanations:
* = ICV criteria not met.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

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Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-10
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 10:50
Date Extracted: 06/24/2001
Date Analyzed: 07/18/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 | |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 | |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 | |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 | |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 | |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 | * |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 | |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 | |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 | |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 | |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 | |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 | * |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 | |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 | |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 | |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 | |
| Toxaphene | None Detected | µg/L | 2. | 1. | |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 | |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 | |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 | |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 | |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 | |
| Surrogates | | | | | |
| TCMX | 79. | % | 51-118 | | |
| Dibutyl chlorendate | 86. | % | 62-142 | | |

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

BRYAN A. STIRRAT & ASSOCIATES
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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-10, 06/21/2001 @ 10:50

Flag Explanations:
* = ICV criteria not met.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

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DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-14
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:30
Date Extracted: 06/24/2001
Date Analyzed: 07/18/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 | |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 | |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 | |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 | |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 | |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 | * |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 | |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 | |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 | |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 | |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 | |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 | * |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 | |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 | |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 | |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 | |
| Toxaphene | None Detected | µg/L | 2. | 1. | |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 | |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 | |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 | |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 | |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 | |
| Surrogates | | | | | |
| TCMX | 87. | % | 51-118 | | |
| Dibutyl chlorendate | 92. | % | 62-142 | | |

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-14, 06/21/2001 @ 09:30

Flag Explanations:
* = ICV criteria not met.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

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CIVIL AND ENVIRONMENTAL ENGINEERS
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DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: MWD#34
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:55
Date Extracted: 06/24/2001
Date Analyzed: 07/18/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Aldrin | None Detected | µg/L | 0.005 | 0.0015 | |
| alpha-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| beta-BHC | None Detected | µg/L | 0.005 | 0.0011 | |
| delta-BHC | None Detected | µg/L | 0.005 | 0.0008 | |
| gamma-BHC | None Detected | µg/L | 0.005 | 0.0009 | |
| Chlordane (Technical) | None Detected | µg/L | 0.1 | 0.05 | |
| 4,4'-DDD | None Detected | µg/L | 0.005 | 0.0011 | |
| 4,4'-DDE | None Detected | µg/L | 0.005 | 0.0009 | * |
| 4,4'-DDT | None Detected | µg/L | 0.005 | 0.0017 | |
| Dieldrin | None Detected | µg/L | 0.005 | 0.0014 | |
| Endosulfan I | None Detected | µg/L | 0.005 | 0.0011 | |
| Endosulfan II | None Detected | µg/L | 0.005 | 0.0012 | |
| Endosulfan Sulfate | None Detected | µg/L | 0.005 | 0.0011 | |
| Endrin | None Detected | µg/L | 0.005 | 0.0015 | * |
| Endrin Aldehyde | None Detected | µg/L | 0.01 | 0.0034 | |
| Heptachlor | None Detected | µg/L | 0.005 | 0.0006 | |
| Heptachlor Epoxide | None Detected | µg/L | 0.005 | 0.0009 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 0.01 | 0.005 | |
| Methoxychlor | None Detected | µg/L | 0.005 | 0.0009 | |
| Toxaphene | None Detected | µg/L | 2. | 1. | |
| PCB-1016 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1221 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1232 | None Detected | µg/L | 0.2 | 0.1 | |
| PCB-1242 | None Detected | µg/L | 0.2 | 0.025 | |
| PCB-1248 | None Detected | µg/L | 0.2 | 0.022 | |
| PCB-1254 | None Detected | µg/L | 0.2 | 0.041 | |
| PCB-1260 | None Detected | µg/L | 0.2 | 0.046 | |
| Total PCB's (Summation) | None Detected | µg/L | 0.2 | 0.1 | |
| Surrogates | | | | | |
| TCMX | 88. | % | 51-118 | | |
| Dibutyl chlorendate | 109. | % | 62-142 | | |

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Organochlorine Pesticides and PCB's
(EPA Method 8080)

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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/19/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Sample Description: GREGORY CANYON, GREGORY CANYON, MWD#34, 06/21/2001 @ 09:55

Flag Explanations:
* = ICV criteria not met.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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# Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/05/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-1
Sample Matrix: Sewer Effluent

Date Collected: 06/21/2001 @ 13:20
Date Extracted: 06/25/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 | |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 | *08 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 | |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 | |

## Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 66. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*08 = Sample specific matrix spike precision not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/05/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-2
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 12:00
Date Extracted: 06/25/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 | |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 | *08 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 | |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 | |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 75. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*08 = Sample specific matrix spike precision not within established limits.

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Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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# Chlorinated Herbicides
(EPA Method 8150)

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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/05/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-4
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:00
Date Extracted: 06/25/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 | |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 | *08 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 | |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 | |

## Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 79. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*08 = Sample specific matrix spike precision not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/05/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-10
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 10:50
Date Extracted: 06/25/2001
Date Analyzed: 06/29/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 | |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 | *08 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 | |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 | |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 89. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*08 = Sample specific matrix spike precision not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



# Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/05/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-14
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:30
Date Extracted: 06/25/2001
Date Analyzed: 06/29/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 | |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 | *08 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 | |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 | |

## Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 82. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*08 = Sample specific matrix spike precision not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



# Chlorinated Herbicides
(EPA Method 8150)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/05/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: MWD#34
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:55
Date Extracted: 06/25/2001
Date Analyzed: 06/29/2001

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-D | None Detected | µg/L | 0.4 | 0.16 | |
| Dinoseb | None Detected | µg/L | 0.2 | 0.052 | *08 |
| 2,4,5-T | None Detected | µg/L | 0.09 | 0.032 | |
| 2,4,5-TP (Silvex) | None Detected | µg/L | 0.07 | 0.024 | |

## Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2,4-Dichlorophenylacetic acid | 81. | 40-115 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Flag Explanations:
*08 = Sample specific matrix spike precision not within established limits.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC Laboratories, Inc.



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-1
Sample Matrix: Sewer Effluent

Date Collected: 06/21/2001 @ 13:20
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Sample Description: GREGORY CANYON, GREGORY CANYON, SW-1, 06/21/2001 @ 13:20

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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Volatile Organic Analysis
(EPA Method 8260)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Sample Description: GREGORY CANYON, GREGORY CANYON, SW-1, 06/21/2001 @ 13:20

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98. | 76-114 |
| Toluene-d8 | 101. | 88-110 |
| 4-Bromofluorobenzene | 101. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-2

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-2
Sample Matrix: Sewer Effluent

Date Collected: 06/21/2001 @ 12:45
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-2

Sample Description: GREGORY CANYON, GREGORY CANYON, SW-2, 06/21/2001 @ 12:45

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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**BC Laboratories, Inc.**

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-2

Sample Description: GREGORY CANYON, GREGORY CANYON, SW-2, 06/21/2001 @ 12:45

---

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100. | 76-114 |
| Toluene-d8 | 98. | 88-110 |
| 4-Bromofluorobenzene | 104. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-3

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-2
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 12:00
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-3

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-2, 06/21/2001 @ 12:00

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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Volatile Organic Analysis
(EPA Method 8260)



BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-3

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-2, 06/21/2001 @ 12:00

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98. | 76-114 |
| Toluene-d8 | 99. | 88-110 |
| 4-Bromofluorobenzene | 105. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-4
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:00
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Benzene | 0.11 | µg/L | 0.5 | 0.044 | *02 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 | |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 | |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 | |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 | |
| Bromomethane | None Detected | µg/L | 1. | 0.063 | |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 | |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 | |
| tert-Butylbenzene | 0.08 | µg/L | 0.5 | 0.066 | *02 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 | |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 | |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 | |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 | |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 | |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 | |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 | |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 | |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 | |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 | |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 | |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 | |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 | |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 | |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 | |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 | |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 | |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 | |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 | |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 | |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 | |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 | |
| Ethyl Benzene | 0.41 | µg/L | 0.5 | 0.057 | *02 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 | |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 | |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 | |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 | |
| Naphthalene | 0.26 | µg/L | 0.5 | 0.094 | *02 |
| n-Propylbenzene | 0.12 | µg/L | 0.5 | 0.053 | *02 |

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-4, 06/21/2001 @ 09:00

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | 1.4 | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | 0.52 | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | 0.21 | µg/L | 0.5 | 0.066 | *02 |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | 2.7 | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| Ethyl Methacrylate | None Detected | µg/L | 20. | 10. | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-4, 06/21/2001 @ 09:00

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104. | 76-114 |
| Toluene-d8 | 98. | 88-110 |
| 4-Bromofluorobenzene | 101. | 86-115 |

Flag Explanations:
*02 = Sample result is between the MDL and PQL.
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-10
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 10:50
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 | |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 | |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 | |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 | |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 | |
| Bromomethane | None Detected | µg/L | 1. | 0.063 | |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 | |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 | |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 | |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 | |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 | |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 | |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 | |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 | |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 | |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 | |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 | |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 | |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 | |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 | |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 | |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 | |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 | |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 | |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 | |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 | |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 | |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 | |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 | |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 | |
| Ethyl Benzene | 0.07 | µg/L | 0.5 | 0.057 | *02 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 | |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 | |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 | |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 | |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 | |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 | |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-10, 06/21/2001 @ 10:50

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

All results listed in this report are for the exclusive use of the submitting party, BC Laboratories, Inc. assumes no responsibility for report alteration, detachment or third party interpretation.

BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-10, 06/21/2001 @ 10:50

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105. | 76-114 |
| Toluene-d8 | 101. | 88-110 |
| 4-Bromofluorobenzene | 106. | 86-115 |

Flag Explanations:
*02 = Sample result is between the MDL and PQL.
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-14
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:30
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-14, 06/21/2001 @ 09:30

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-14, 06/21/2001 @ 09:30

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Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103. | 76-114 |
| Toluene-d8 | 97. | 88-110 |
| 4-Bromofluorobenzene | 98. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: MWD#34
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:55
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Sample Description: GREGORY CANYON, GREGORY CANYON, MWD#34, 06/21/2001 @ 09:55

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Sample Description: GREGORY CANYON, GREGORY CANYON, MWD#34, 06/21/2001 @ 09:55

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106. | 76-114 |
| Toluene-d8 | 92. | 88-110 |
| 4-Bromofluorobenzene | 104. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



Volatile Organic Analysis
(EPA Method 8260)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-8

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: FIELD BLANK
Sample Matrix: DI WATER

Date Collected: 06/21/2001
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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4100 Atlas Court * Bakersfield, CA 93308 * (661)327-4911 * Fax(661)327-1918 * www.bclabs.com

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-8

Sample Description: GREGORY CANYON, GREGORY CANYON, FIELD BLANK, 06/21/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | 0.36 | µg/L | 0.5 | 0.094 | *02 |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-8

Sample Description: GREGORY CANYON, GREGORY CANYON, FIELD BLANK, 06/21/2001

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102. | 76-114 |
| Toluene-d8 | 100. | 88-110 |
| 4-Bromofluorobenzene | 100. | 86-115 |

Flag Explanations:
*02 = Sample result is between the MDL and PQL.
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-9

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: EQUIP. BLANK
Sample Matrix: DI WATER

Date Collected: 06/21/2001
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-9

Sample Description: GREGORY CANYON, GREGORY CANYON, EQUIP. BLANK, 06/21/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | 0.09 | µg/L | 0.5 | 0.047 | *02 |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| Ethyl Methacrylate | None Detected | µg/L | 20. | 10. | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-9

Sample Description: GREGORY CANYON, GREGORY CANYON, EQUIP. BLANK, 06/21/2001

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99. | 76-114 |
| Toluene-d8 | 100. | 88-110 |
| 4-Bromofluorobenzene | 103. | 86-115 |

Flag Explanations:
*02 = Sample result is between the MDL and PQL.
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-10TB

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: TRIP BLANK
Sample Matrix: Blank Water

Date Collected: 06/21/2001
Date Extracted: 06/28/2001
Date Analyzed: 06/28/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level |
|---|---|---|---|---|
| Benzene | None Detected | µg/L | 0.5 | 0.044 |
| Bromobenzene | None Detected | µg/L | 0.5 | 0.059 |
| Bromochloromethane | None Detected | µg/L | 0.5 | 0.086 |
| Bromodichloromethane | None Detected | µg/L | 0.5 | 0.286 |
| Bromoform | None Detected | µg/L | 0.5 | 0.139 |
| Bromomethane | None Detected | µg/L | 1. | 0.063 |
| n-Butylbenzene | None Detected | µg/L | 0.5 | 0.119 |
| sec-Butylbenzene | None Detected | µg/L | 0.5 | 0.070 |
| tert-Butylbenzene | None Detected | µg/L | 0.5 | 0.066 |
| Carbon tetrachloride | None Detected | µg/L | 0.5 | 0.053 |
| Chlorobenzene | None Detected | µg/L | 0.5 | 0.082 |
| Chloroethane | None Detected | µg/L | 0.5 | 0.053 |
| Chloroform | None Detected | µg/L | 0.5 | 0.164 |
| Chloromethane | None Detected | µg/L | 0.5 | 0.158 |
| 2-Chlorotoluene | None Detected | µg/L | 0.5 | 0.094 |
| 4-Chlorotoluene | None Detected | µg/L | 0.5 | 0.109 |
| Dibromochloromethane | None Detected | µg/L | 0.5 | 0.089 |
| 1,2-Dibromo-3-Chloropropane | None Detected | µg/L | 1. | 0.282 |
| 1,2-Dibromoethane | None Detected | µg/L | 0.5 | 0.041 |
| Dibromomethane | None Detected | µg/L | 0.5 | 0.187 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.092 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.076 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 0.5 | 0.056 |
| Dichlorodifluoromethane | None Detected | µg/L | 0.5 | 0.038 |
| 1,1-Dichloroethane | None Detected | µg/L | 0.5 | 0.087 |
| 1,2-Dichloroethane | None Detected | µg/L | 0.5 | 0.095 |
| 1,1-Dichloroethene | None Detected | µg/L | 0.5 | 0.095 |
| cis-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.057 |
| trans-1,2-Dichloroethene | None Detected | µg/L | 0.5 | 0.078 |
| 1,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.066 |
| 1,3-Dichloropropane | None Detected | µg/L | 0.5 | 0.061 |
| 2,2-Dichloropropane | None Detected | µg/L | 0.5 | 0.132 |
| 1,1-Dichloropropene | None Detected | µg/L | 0.5 | 0.070 |
| cis-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.054 |
| trans-1,3-Dichloropropene | None Detected | µg/L | 0.5 | 0.044 |
| Ethyl Benzene | None Detected | µg/L | 0.5 | 0.057 |
| Hexachlorobutadiene | None Detected | µg/L | 0.5 | 0.141 |
| Isopropylbenzene | None Detected | µg/L | 0.5 | 0.042 |
| p-Isopropyltoluene | None Detected | µg/L | 0.5 | 0.074 |
| Methylene Chloride | None Detected | µg/L | 1. | 0.392 |
| Naphthalene | None Detected | µg/L | 0.5 | 0.094 |
| n-Propylbenzene | None Detected | µg/L | 0.5 | 0.053 |

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Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-10TB

Sample Description: GREGORY CANYON, GREGORY CANYON, TRIP BLANK, 06/21/2001

| Constituents | Analysis Results | Reporting Units | Method P.Q.L. | Method Detection Level | |
|---|---|---|---|---|---|
| Styrene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,1,1,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.094 | |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 0.5 | 0.158 | |
| Tetrachloroethene | None Detected | µg/L | 0.5 | 0.062 | |
| Toluene | None Detected | µg/L | 0.5 | 0.047 | |
| 1,2,3-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 0.5 | 0.088 | |
| 1,1,1-Trichloroethane | None Detected | µg/L | 0.5 | 0.204 | |
| 1,1,2-Trichloroethane | None Detected | µg/L | 0.5 | 0.120 | |
| Trichloroethene | None Detected | µg/L | 0.5 | 0.032 | |
| Trichlorofluoromethane | None Detected | µg/L | 0.5 | 0.044 | |
| 1,2,3-Trichloropropane | None Detected | µg/L | 1. | 0.528 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 0.5 | 0.078 | |
| 1,2,4-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.078 | |
| 1,3,5-Trimethylbenzene | None Detected | µg/L | 0.5 | 0.066 | |
| Vinyl Chloride | None Detected | µg/L | 0.5 | 0.040 | |
| Total Xylenes | None Detected | µg/L | 1. | 0.236 | |
| Acetone | None Detected | µg/L | 20. | 5.935 | |
| Acetonitrile | None Detected | µg/L | 20. | 5.247 | |
| Acrolein | None Detected | µg/L | 50. | 5.353 | |
| Acrylonitrile | None Detected | µg/L | 20. | 1.965 | |
| Allyl Chloride | None Detected | µg/L | 5. | 0.202 | *03 |
| t-Amyl methyl ether | None Detected | µg/L | 1. | 0.123 | |
| t-Butyl alcohol | None Detected | µg/L | 50. | 4.259 | |
| Carbon Disulfide | None Detected | µg/L | 2. | 0.266 | *03 |
| Chloroprene | None Detected | µg/L | 5. | 0.204 | *03 |
| trans-1,4-Dichloro-2-butene | None Detected | µg/L | 5. | 0.419 | |
| Diisopropyl ether | None Detected | µg/L | 1. | 0.081 | |
| 1,4-Dioxane | None Detected | µg/L | 300. | 59.296 | |
| 2-Hexanone | None Detected | µg/L | 20. | 1.993 | |
| Iodomethane | None Detected | µg/L | 2. | 0.24 | *03 |
| Isobutyl alcohol | None Detected | µg/L | 50. | 31.72 | |
| Methacrylonitrile | None Detected | µg/L | 10. | 1.036 | |
| Methyl Ethyl Ketone | None Detected | µg/L | 20. | 1.752 | |
| 4-Methyl-2-pentanone | None Detected | µg/L | 20. | 0.4 | |
| Methyl-t-butylether | None Detected | µg/L | 0.5 | 0.094 | |
| Propionitrile | None Detected | µg/L | 20. | 7.783 | |

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BC Laboratories, Inc.

Volatile Organic Analysis
(EPA Method 8260)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/10/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-10TB

Sample Description: GREGORY CANYON, GREGORY CANYON, TRIP BLANK, 06/21/2001

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98. | 76-114 |
| Toluene-d8 | 99. | 88-110 |
| 4-Bromofluorobenzene | 105. | 86-115 |

Flag Explanations:
*03 = CCV recovery not within method limits.
California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: SW-1
Sample Matrix: Sewer Effluent

Date Collected: 06/21/2001 @ 13:20
Date Extracted: 06/29/2001
Date Analyzed: 07/05/2001
Dilution Used: 1

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.24 | |
| Acenaphthylene | None Detected | µg/L | 2. | 0.36 | |
| Aldrin | None Detected | µg/L | 2. | 0.27 | |
| Aniline | None Detected | µg/L | 5. | 1.9 | |
| Anthracene | None Detected | µg/L | 2. | 0.23 | |
| Benzidine | None Detected | µg/L | 20. | 0.17 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.27 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.67 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.64 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.35 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.25 | |
| Benzoic Acid | None Detected | µg/L | 10. | 0.84 | |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.67 | |
| Butyl Benzyl phthalate | None Detected | µg/L | 2. | 0.24 | |
| alpha-BHC | None Detected | µg/L | 2. | 0.24 | |
| beta-BHC | None Detected | µg/L | 2. | 0.23 | |
| delta-BHC | None Detected | µg/L | 2. | 0.26 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.22 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.24 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.56 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.22 | |
| bis(2-ethylhexyl)phthalate | 0.38 | µg/L | 5. | 0.33 | *02 |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.29 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.28 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.31 | |
| Chrysene | None Detected | µg/L | 2. | 0.20 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.76 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.23 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.30 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.30 | |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.25 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.28 | |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.36 | |
| Dieldrin | None Detected | µg/L | 3. | 0.43 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.29 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.25 | |

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Sample Description: GREGORY CANYON, GREGORY CANYON, SW-1, 06/21/2001 @ 13:20

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.25 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.28 |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.20 |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.38 |
| Endosulfan I | None Detected | µg/L | 10. | 1.1 |
| Endosulfan II | None Detected | µg/L | 10. | 0.79 |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.33 |
| Endrin | None Detected | µg/L | 2. | 1.9 |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.55 |
| Fluoranthene | None Detected | µg/L | 2. | 0.26 |
| Fluorene | None Detected | µg/L | 2. | 0.28 |
| Heptachlor | None Detected | µg/L | 2. | 0.28 |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.25 |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.28 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.36 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.27 |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.23 |
| Isophorone | None Detected | µg/L | 2. | 0.27 |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.31 |
| Naphthalene | None Detected | µg/L | 2. | 0.25 |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.067 |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.74 |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.5 |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.2 |
| Nitrobenzene | None Detected | µg/L | 2. | 0.24 |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.34 |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 1.9 |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.20 |
| Phenanthrene | None Detected | µg/L | 2. | 0.24 |
| Pyrene | None Detected | µg/L | 2. | 0.23 |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.36 |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.24 |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.17 |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.28 |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.68 |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.29 |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.4 |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.20 |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.42 |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.26 |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.46 |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.54 |
| Phenol | None Detected | µg/L | 2. | 0.19 |

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Sample Description: GREGORY CANYON, GREGORY CANYON, SW-1, 06/21/2001 @ 13:20

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.27 |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.24 |
| Acetophenone | None Detected | µg/L | 10. | 0.13 |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.47 |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.17 |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.17 |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.068 |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.26 |
| Diphenylamine | None Detected | µg/L | 10. | 0.082 |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.18 |
| Kepone | None Detected | µg/L | 20. | 2.5 |
| Methapyrilene | None Detected | µg/L | 10. | 0.88 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.15 |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.13 |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.48 |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.063 |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.19 |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.26 |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.18 |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.16 |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.17 |
| Phenacetin | None Detected | µg/L | 10. | 0.13 |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.49 |
| Pronamide | None Detected | µg/L | 10. | 0.14 |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.20 |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.25 |
| o-Toluidine | None Detected | µg/L | 10. | 0.073 |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.18 |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.060 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 78. | 21-100 |
| Phenol-d5 | 59. | 10-94 |
| Nitrobenzene-d5 | 105. | 35-114 |
| 2-Fluorobiphenyl | 97. | 43-116 |
| 2,4,6-Tribromophenol | 121. | 10-123 |

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-1

Sample Description: GREGORY CANYON, GREGORY CANYON, SW-1, 06/21/2001 @ 13:20

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 96. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Note: Sample holding time was exceeded.

Flag Explanations:
*02 = Sample result is between the MDL and PQL.

California D.O.H.S. Cert. #1186

Steven Bennett for
Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-4
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:00
Date Extracted: 06/29/2001
Date Analyzed: 07/05/2001
Dilution Used: 1

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.24 | |
| Acenaphthylene | None Detected | µg/L | 2. | 0.37 | |
| Aldrin | None Detected | µg/L | 2. | 0.27 | |
| Aniline | None Detected | µg/L | 5. | 1.9 | |
| Anthracene | None Detected | µg/L | 2. | 0.23 | |
| Benzidine | None Detected | µg/L | 20. | 0.17 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.28 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.68 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.66 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.36 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.25 | |
| Benzoic Acid | 2.6 | µg/L | 10. | 0.86 | *02 |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.68 | |
| Butyl Benzyl phthalate | 0.44 | µg/L | 2. | 0.25 | *02 |
| alpha-BHC | None Detected | µg/L | 2. | 0.24 | |
| beta-BHC | None Detected | µg/L | 2. | 0.24 | |
| delta-BHC | None Detected | µg/L | 2. | 0.27 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.22 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.25 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.58 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.23 | |
| bis(2-ethylhexyl)phthalate | 1.1 | µg/L | 5. | 0.34 | *02 |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.30 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.29 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.32 | |
| Chrysene | None Detected | µg/L | 2. | 0.20 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.78 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.23 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.31 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.30 | |
| Di-n-butyl phthalate | 0.36 | µg/L | 2. | 0.25 | *02 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.25 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.25 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.29 | |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.37 | |
| Dieldrin | None Detected | µg/L | 3. | 0.44 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.30 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.26 | |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-4, 06/21/2001 @ 09:00

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.25 | |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.29 | |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.21 | |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.39 | |
| Endosulfan I | None Detected | µg/L | 10. | 1.1 | |
| Endosulfan II | None Detected | µg/L | 10. | 0.81 | |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.34 | |
| Endrin | None Detected | µg/L | 2. | 1.9 | |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.56 | |
| Fluoranthene | None Detected | µg/L | 2. | 0.26 | |
| Fluorene | None Detected | µg/L | 2. | 0.29 | |
| Heptachlor | None Detected | µg/L | 2. | 0.29 | |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.26 | |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.28 | |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.36 | |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.28 | |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 | |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.24 | |
| Isophorone | None Detected | µg/L | 2. | 0.28 | |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.32 | |
| Naphthalene | 0.29 | µg/L | 2. | 0.25 | *02 |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.069 | |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.76 | |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.5 | |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.2 | |
| Nitrobenzene | None Detected | µg/L | 2. | 0.24 | |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.35 | |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 2.0 | |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.21 | |
| Phenanthrene | None Detected | µg/L | 2. | 0.24 | |
| Pyrene | None Detected | µg/L | 2. | 0.23 | |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.37 | |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.24 | |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.17 | |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.29 | |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.70 | |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.29 | |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.5 | |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.21 | |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.43 | |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.27 | |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.47 | |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.55 | |
| Phenol | None Detected | µg/L | 2. | 0.19 | |

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Organic Analysis
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Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-4, 06/21/2001 @ 09:00

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.27 |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.25 |
| Acetophenone | None Detected | µg/L | 10. | 0.13 |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.48 |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.17 |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.17 |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.070 |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.26 |
| Diphenylamine | None Detected | µg/L | 10. | 0.084 |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.18 |
| Kepone | None Detected | µg/L | 20. | 2.6 |
| Methapyrilene | None Detected | µg/L | 10. | 0.90 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.16 |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.14 |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.49 |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.064 |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.20 |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.27 |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.18 |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.17 |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.18 |
| Phenacetin | None Detected | µg/L | 10. | 0.14 |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.50 |
| Pronamide | None Detected | µg/L | 10. | 0.14 |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.20 |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.25 |
| o-Toluidine | None Detected | µg/L | 10. | 0.075 |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.19 |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.061 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 78. | 21-100 |
| Phenol-d5 | 68. | 10-94 |
| Nitrobenzene-d5 | 102. | 35-114 |
| 2-Fluorobiphenyl | 92. | 43-116 |
| 2,4,6-Tribromophenol | 121. | 10-123 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-4

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-4, 06/21/2001 @ 09:00

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 94. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Note: Sample holding time was exceeded.

Flag Explanations:
*02 = Sample result is between the MDL and PQL.

California D.O.H.S. Cert. #1186

Steven Bennett for
Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-10
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 10:50
Date Extracted: 06/29/2001
Date Analyzed: 07/05/2001
Dilution Used: 1

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.24 | |
| Acenaphthylene | None Detected | µg/L | 2. | 0.38 | |
| Aldrin | None Detected | µg/L | 2. | 0.28 | |
| Aniline | None Detected | µg/L | 5. | 1.9 | |
| Anthracene | None Detected | µg/L | 2. | 0.23 | |
| Benzidine | None Detected | µg/L | 20. | 0.17 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.28 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.69 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.66 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.36 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.26 | |
| Benzoic Acid | None Detected | µg/L | 10. | 0.87 | |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.69 | |
| Butyl Benzyl phthalate | None Detected | µg/L | 2. | 0.25 | |
| alpha-BHC | None Detected | µg/L | 2. | 0.25 | |
| beta-BHC | None Detected | µg/L | 2. | 0.24 | |
| delta-BHC | None Detected | µg/L | 2. | 0.27 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.22 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.25 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.58 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.23 | |
| bis(2-ethylhexyl)phthalate | 0.59 | µg/L | 5. | 0.34 | *02 |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.30 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.29 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.32 | |
| Chrysene | None Detected | µg/L | 2. | 0.21 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.79 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.23 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.31 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.31 | |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.26 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.25 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.25 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.29 | |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.37 | |
| Dieldrin | None Detected | µg/L | 3. | 0.45 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.30 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.26 | |

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BC Laboratories, Inc.



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-10, 06/21/2001 @ 10:50

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.26 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.29 |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.21 |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.40 |
| Endosulfan I | None Detected | µg/L | 10. | 1.1 |
| Endosulfan II | None Detected | µg/L | 10. | 0.82 |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.34 |
| Endrin | None Detected | µg/L | 2. | 2.0 |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.56 |
| Fluoranthene | None Detected | µg/L | 2. | 0.27 |
| Fluorene | None Detected | µg/L | 2. | 0.29 |
| Heptachlor | None Detected | µg/L | 2. | 0.29 |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.26 |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.29 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.37 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.28 |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.24 |
| Isophorone | None Detected | µg/L | 2. | 0.28 |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.32 |
| Naphthalene | None Detected | µg/L | 2. | 0.25 |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.069 |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.76 |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.5 |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.2 |
| Nitrobenzene | None Detected | µg/L | 2. | 0.24 |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.35 |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 2.0 |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.21 |
| Phenanthrene | None Detected | µg/L | 2. | 0.25 |
| Pyrene | None Detected | µg/L | 2. | 0.24 |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.37 |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.24 |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.17 |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.29 |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.70 |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.29 |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.5 |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.21 |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.43 |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.27 |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.48 |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.56 |
| Phenol | None Detected | µg/L | 2. | 0.20 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-10, 06/21/2001 @ 10:50

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.27 |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.25 |
| Acetophenone | None Detected | µg/L | 10. | 0.13 |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.48 |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.18 |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.18 |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.070 |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.26 |
| Diphenylamine | None Detected | µg/L | 10. | 0.085 |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.18 |
| Kepone | None Detected | µg/L | 20. | 2.6 |
| Methapyrilene | None Detected | µg/L | 10. | 0.91 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.16 |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.14 |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.50 |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.065 |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.20 |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.27 |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.19 |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.17 |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.18 |
| Phenacetin | None Detected | µg/L | 10. | 0.14 |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.51 |
| Pronamide | None Detected | µg/L | 10. | 0.14 |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.21 |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.25 |
| o-Toluidine | None Detected | µg/L | 10. | 0.075 |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.19 |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.062 |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 78. | 21-100 |
| Phenol-d5 | 65. | 10-94 |
| Nitrobenzene-d5 | 104. | 35-114 |
| 2-Fluorobiphenyl | 96. | 43-116 |
| 2,4,6-Tribromophenol | 121. | 10-123 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
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1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-5

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-10, 06/21/2001 @ 10:50

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 97. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Note: Sample holding time was exceeded.

Flag Explanations:
*02 = Sample result is between the MDL and PQL.

California D.O.H.S. Cert. #1186

Steven Bennett for
Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: GLA-14
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:30
Date Extracted: 06/29/2001
Date Analyzed: 07/06/2001
Dilution Used: 1

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.23 | |
| Acenaphthylene | None Detected | µg/L | 2. | 0.36 | |
| Aldrin | None Detected | µg/L | 2. | 0.27 | |
| Aniline | None Detected | µg/L | 5. | 1.8 | |
| Anthracene | None Detected | µg/L | 2. | 0.22 | |
| Benzidine | None Detected | µg/L | 20. | 0.16 | |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.27 | |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.66 | |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.64 | |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.35 | |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.25 | |
| Benzoic Acid | None Detected | µg/L | 10. | 0.84 | |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.66 | |
| Butyl Benzyl phthalate | None Detected | µg/L | 2. | 0.24 | |
| alpha-BHC | None Detected | µg/L | 2. | 0.24 | |
| beta-BHC | None Detected | µg/L | 2. | 0.23 | |
| delta-BHC | None Detected | µg/L | 2. | 0.26 | |
| gamma-BHC | None Detected | µg/L | 2. | 0.21 | |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.24 | |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.56 | |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.22 | |
| bis(2-ethylhexyl)phthalate | 1.2 | µg/L | 5. | 0.33 | *02 |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.29 | |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 | |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.28 | |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.31 | |
| Chrysene | None Detected | µg/L | 2. | 0.20 | |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 | |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.75 | |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.22 | |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.30 | |
| Dibenzofuran | None Detected | µg/L | 2. | 0.29 | |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.25 | |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.24 | |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.28 | |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.35 | |
| Dieldrin | None Detected | µg/L | 3. | 0.43 | |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.29 | |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.25 | |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-14, 06/21/2001 @ 09:30

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.25 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.28 |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.20 |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.38 |
| Endosulfan I | None Detected | µg/L | 10. | 1.0 |
| Endosulfan II | None Detected | µg/L | 10. | 0.78 |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.33 |
| Endrin | None Detected | µg/L | 2. | 1.9 |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.54 |
| Fluoranthene | None Detected | µg/L | 2. | 0.25 |
| Fluorene | None Detected | µg/L | 2. | 0.28 |
| Heptachlor | None Detected | µg/L | 2. | 0.28 |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.25 |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.27 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.35 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.27 |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.23 |
| Isophorone | None Detected | µg/L | 2. | 0.27 |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.31 |
| Naphthalene | None Detected | µg/L | 2. | 0.24 |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.066 |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.73 |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.4 |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.1 |
| Nitrobenzene | None Detected | µg/L | 2. | 0.23 |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.34 |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 1.9 |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.20 |
| Phenanthrene | None Detected | µg/L | 2. | 0.24 |
| Pyrene | None Detected | µg/L | 2. | 0.23 |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.36 |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.23 |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.16 |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.28 |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.67 |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.28 |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.4 |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.20 |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.41 |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.26 |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.46 |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.54 |
| Phenol | None Detected | µg/L | 2. | 0.19 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-14, 06/21/2001 @ 09:30

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.26 | |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.24 | |
| Acetophenone | None Detected | µg/L | 10. | 0.12 | |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.46 | |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.17 | |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.17 | |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.067 | |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 | |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.25 | |
| Diphenylamine | None Detected | µg/L | 10. | 0.081 | |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 | |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.17 | |
| Kepone | None Detected | µg/L | 20. | 2.5 | |
| Methapyrilene | None Detected | µg/L | 10. | 0.87 | *03 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.15 | |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.13 | |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.48 | |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 | |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.062 | |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.19 | |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.26 | |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.18 | |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.16 | |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 | |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.17 | |
| Phenacetin | None Detected | µg/L | 10. | 0.13 | |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.49 | |
| Pronamide | None Detected | µg/L | 10. | 0.14 | |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.20 | |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.24 | |
| o-Toluidine | None Detected | µg/L | 10. | 0.072 | |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.18 | |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.059 | |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 73. | 21-100 |
| Phenol-d5 | 60. | 10-94 |
| Nitrobenzene-d5 | 102. | 35-114 |
| 2-Fluorobiphenyl | 96. | 43-116 |
| 2,4,6-Tribromophenol | 116. | 10-123 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-6

Sample Description: GREGORY CANYON, GREGORY CANYON, GLA-14, 06/21/2001 @ 09:30

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 99. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Note: Sample holding time was exceeded.

Flag Explanations:
*02 = Sample result is between the MDL and PQL.
*03 = CCV recovery not within method limits.

California D.O.H.S. Cert. #1186

Steven Bennett for
Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc.



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Project Number: GREGORY CANYON
Sampling Location: GREGORY CANYON
Sample ID: MWD#34
Sample Matrix: Groundwater

Date Collected: 06/21/2001 @ 09:55
Date Extracted: 06/29/2001
Date Analyzed: 07/06/2001
Dilution Used: 1

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| Acenaphthene | None Detected | µg/L | 2. | 0.24 |
| Acenaphthylene | None Detected | µg/L | 2. | 0.38 |
| Aldrin | None Detected | µg/L | 2. | 0.28 |
| Aniline | None Detected | µg/L | 5. | 1.9 |
| Anthracene | None Detected | µg/L | 2. | 0.23 |
| Benzidine | None Detected | µg/L | 20. | 0.17 |
| Benzo (a) anthracene | None Detected | µg/L | 2. | 0.28 |
| Benzo (b) fluoranthene | None Detected | µg/L | 2. | 0.69 |
| Benzo (k) fluoranthene | None Detected | µg/L | 2. | 0.66 |
| Benzo (a) pyrene | None Detected | µg/L | 2. | 0.36 |
| Benzo (ghi) perylene | None Detected | µg/L | 2. | 0.26 |
| Benzoic Acid | None Detected | µg/L | 10. | 0.87 |
| Benzyl alcohol | None Detected | µg/L | 2. | 0.69 |
| Butyl Benzyl phthalate | None Detected | µg/L | 2. | 0.25 |
| alpha-BHC | None Detected | µg/L | 2. | 0.25 |
| beta-BHC | None Detected | µg/L | 2. | 0.24 |
| delta-BHC | None Detected | µg/L | 2. | 0.27 |
| gamma-BHC | None Detected | µg/L | 2. | 0.22 |
| bis(2-chloroethyl)ether | None Detected | µg/L | 2. | 0.25 |
| bis(2-chloroethoxy)methane | None Detected | µg/L | 2. | 0.58 |
| bis(2-chloro-1-methylethyl) | None Detected | µg/L | 2. | 0.23 |
| bis(2-ethylhexyl)phthalate | None Detected | µg/L | 5. | 0.34 |
| 4-Bromophenyl phenyl ether | None Detected | µg/L | 2. | 0.30 |
| 4-Chloroaniline | None Detected | µg/L | 2. | 1.8 |
| 2-Chloronaphthalene | None Detected | µg/L | 2. | 0.29 |
| 4-Chlorophenyl phenyl ether | None Detected | µg/L | 2. | 0.32 |
| Chrysene | None Detected | µg/L | 2. | 0.21 |
| 4,4-DDD' | None Detected | µg/L | 2. | 0.22 |
| 4,4-DDE' | None Detected | µg/L | 3. | 0.79 |
| 4,4-DDT' | None Detected | µg/L | 2. | 0.23 |
| Dibenzo (a,h) anthracene | None Detected | µg/L | 3. | 0.31 |
| Dibenzofuran | None Detected | µg/L | 2. | 0.31 |
| Di-n-butyl phthalate | None Detected | µg/L | 2. | 0.26 |
| 1,2-Dichlorobenzene | None Detected | µg/L | 2. | 0.25 |
| 1,3-Dichlorobenzene | None Detected | µg/L | 2. | 0.25 |
| 1,4-Dichlorobenzene | None Detected | µg/L | 2. | 0.29 |
| 3,3-Dichlorobenzidine | None Detected | µg/L | 10. | 0.37 |
| Dieldrin | None Detected | µg/L | 3. | 0.45 |
| Diethyl phthalate | None Detected | µg/L | 2. | 0.30 |
| Dimethyl phthalate | None Detected | µg/L | 2. | 0.26 |

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Sample Description: GREGORY CANYON, GREGORY CANYON, MWD#34, 06/21/2001 @ 09:55

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. |
|---|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | µg/L | 2. | 0.26 |
| 2,6-Dinitrotoluene | None Detected | µg/L | 2. | 0.29 |
| Di-n-octylphthalate | None Detected | µg/L | 2. | 0.21 |
| 1,2-Diphenylhydrazine | None Detected | µg/L | 2. | 0.40 |
| Endosulfan I | None Detected | µg/L | 10. | 1.1 |
| Endosulfan II | None Detected | µg/L | 10. | 0.82 |
| Endosulfan sulfate | None Detected | µg/L | 3. | 0.34 |
| Endrin | None Detected | µg/L | 2. | 2.0 |
| Endrin aldehyde | None Detected | µg/L | 10. | 0.56 |
| Fluoranthene | None Detected | µg/L | 2. | 0.27 |
| Fluorene | None Detected | µg/L | 2. | 0.29 |
| Heptachlor | None Detected | µg/L | 2. | 0.29 |
| Heptachlor epoxide | None Detected | µg/L | 2. | 0.26 |
| Hexachlorobenzene | None Detected | µg/L | 2. | 0.29 |
| Hexachlorobutadiene | None Detected | µg/L | 2. | 0.37 |
| Hexachlorocyclopentadiene | None Detected | µg/L | 2. | 0.28 |
| Hexachloroethane | None Detected | µg/L | 2. | 0.20 |
| Indeno (1,2,3-cd) pyrene | None Detected | µg/L | 2. | 0.24 |
| Isophorone | None Detected | µg/L | 2. | 0.28 |
| 2-Methylnaphthalene | None Detected | µg/L | 2. | 0.32 |
| Naphthalene | None Detected | µg/L | 2. | 0.25 |
| 2-Naphthylamine | None Detected | µg/L | 20. | 0.069 |
| 2-Nitroaniline | None Detected | µg/L | 2. | 0.76 |
| 3-Nitroaniline | None Detected | µg/L | 2. | 1.5 |
| 4-Nitroaniline | None Detected | µg/L | 5. | 1.2 |
| Nitrobenzene | None Detected | µg/L | 2. | 0.24 |
| n-Nitrosodimethylamine | None Detected | µg/L | 2. | 0.35 |
| n-Nitrosodiphenylamine | None Detected | µg/L | 2. | 2.0 |
| N-Nitrosodi-n-propylamine | None Detected | µg/L | 2. | 0.21 |
| Phenanthrene | None Detected | µg/L | 2. | 0.25 |
| Pyrene | None Detected | µg/L | 2. | 0.24 |
| 1,2,4-Trichlorobenzene | None Detected | µg/L | 2. | 0.37 |
| 4-Chloro-3-methylphenol | None Detected | µg/L | 5. | 0.24 |
| 2-Chlorophenol | None Detected | µg/L | 2. | 0.17 |
| 2,4-Dichlorophenol | None Detected | µg/L | 2. | 0.29 |
| 2,4-Dimethylphenol | None Detected | µg/L | 2. | 0.70 |
| 2,4-Dinitrophenol | None Detected | µg/L | 10. | 0.29 |
| 2-Methyl-4,6-dinitrophenol | None Detected | µg/L | 10. | 1.5 |
| 2-Methylphenol | None Detected | µg/L | 2. | 0.21 |
| 3- & 4-Methylphenol | None Detected | µg/L | 2. | 0.43 |
| 2-Nitrophenol | None Detected | µg/L | 2. | 0.27 |
| 4-Nitrophenol | None Detected | µg/L | 2. | 0.48 |
| Pentachlorophenol | None Detected | µg/L | 10. | 0.56 |
| Phenol | None Detected | µg/L | 2. | 0.20 |

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BC Laboratories, Inc.

Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Sample Description: GREGORY CANYON, GREGORY CANYON, MWD#34, 06/21/2001 @ 09:55

| Constituents | Analysis Results | Reporting Units | P.Q.L. | M.D.L. | |
|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | µg/L | 5. | 0.27 | |
| 2,4,6-Trichlorophenol | None Detected | µg/L | 5. | 0.25 | |
| Acetophenone | None Detected | µg/L | 10. | 0.13 | |
| 2-Acetylaminofluorene | None Detected | µg/L | 10. | 0.48 | |
| 4-Aminobiphenyl | None Detected | µg/L | 20. | 0.18 | |
| 2,6-Dichlorophenol | None Detected | µg/L | 10. | 0.18 | |
| p-(Dimethylamine) azobenzene | None Detected | µg/L | 10. | 0.070 | |
| 7,12-Dimethylbenz (a) anthracene | None Detected | µg/L | 10. | 0.11 | |
| 3,3'-Dimethylbenzidine | None Detected | µg/L | 20. | 0.26 | |
| Diphenylamine | None Detected | µg/L | 10. | 0.085 | |
| Ethyl methacrylate | None Detected | µg/L | 10. | 0.057 | |
| Ethyl methanesulfonate | None Detected | µg/L | 10. | 0.18 | |
| Kepone | None Detected | µg/L | 20. | 2.6 | |
| Methapyrilene | None Detected | µg/L | 10. | 0.91 | *03 |
| 3-Methylcholanthrene | None Detected | µg/L | 10. | 0.16 | |
| Methyl methanesulfonate | None Detected | µg/L | 10. | 0.14 | |
| 1,4-Napthoquinone | None Detected | µg/L | 20. | 0.50 | |
| 1-Napthylamine | None Detected | µg/L | 20. | 0.19 | |
| 5-Nitro-o-toluidine | None Detected | µg/L | 10. | 0.065 | |
| n-Nitrosodibutylamine | None Detected | µg/L | 10. | 0.20 | |
| n-Nitrosomethylethylamine | None Detected | µg/L | 10. | 0.27 | |
| n-Nitrosopiperidine | None Detected | µg/L | 10. | 0.19 | |
| n-Nitrosopyrrolidine | None Detected | µg/L | 10. | 0.17 | |
| Pentachlorobenzene | None Detected | µg/L | 10. | 0.13 | |
| Pentachloronitrobenzene | None Detected | µg/L | 10. | 0.18 | |
| Phenacetin | None Detected | µg/L | 10. | 0.14 | |
| 1,4-Phenylenediamine | None Detected | µg/L | 20. | 0.51 | |
| Pronamide | None Detected | µg/L | 10. | 0.14 | |
| 1,2,4,5-Tetrachlorobenzene | None Detected | µg/L | 10. | 0.21 | |
| 2,3,4,6-Tetrachlorophenol | None Detected | µg/L | 10. | 0.25 | |
| o-Toluidine | None Detected | µg/L | 10. | 0.075 | |
| 0,0,0-Triethyl phosphorothioate | None Detected | µg/L | 10. | 0.19 | |
| 1,3,5-Trinitrobenzene | None Detected | µg/L | 10. | 0.062 | |

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 54. | 21-100 |
| Phenol-d5 | 45. | 10-94 |
| Nitrobenzene-d5 | 106. | 35-114 |
| 2-Fluorobiphenyl | 98. | 43-116 |
| 2,4,6-Tribromophenol | 99. | 10-123 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
Attn: RANDY BAUER 909-860-7777

Date Reported: 07/12/2001
Date Received: 06/22/2001
Laboratory No.: 01-07151-7

Sample Description: GREGORY CANYON, GREGORY CANYON, MWD#34, 06/21/2001 @ 09:55

Quality Control Data

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| d14-Terphenyl | 102. | 33-141 |

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte quantifiable based on sample size used and analytical technique employed).
M.D.L. = Method Detection Limit

Note: Sample holding time was exceeded.

Flag Explanations:
*03 = CCV recovery not within method limits.

California D.O.H.S. Cert. #1186

Steven Bennett for
Stuart G. Buttram
Department Supervisor

cc: GEOLOGIC - BILL LOPEZ

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*WATER

Samples Affected: 01-07151-1, 01-07151-2

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Calcium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Magnesium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Sodium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Sulfate | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| Chloride | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| Nitrate as N | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| pH | n.a. | 06/25/2001 | PDL | EPA-9040 | 06/25/2001 | PDL |
| Total Dissolved Solids @ 180 C | n.a. | 06/26/2001 | ELN | EPA-160.1 | 06/26/2001 | ELN |
| Total Cyanide | EPA-335.3 | 06/26/2001 | MET | EPA-9012 | 06/27/2001 | TDC |
| Total Sulfide | n.a. | 06/26/2001 | JWH2 | EPA-376.2 | 06/26/2001 | JWH2 |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*WATER

Samples Affected: 01-07151-1, 01-07151-2

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Calcium | < 0.05 | mg/L |
| Magnesium | < 0.05 | mg/L |
| Sodium | < 0.5 | mg/L |
| Sulfate | < 1.0 | mg/L |
| Chloride | < 0.5 | mg/L |
| Nitrate as N | < 0.1 | mg/L |
| Total Dissolved Solids @ 180 C | <10. | mg/L |
| Total Cyanide | < 0.02 | mg/L |
| Total Sulfide | < 0.1 | mg/L |

Quality Control Officer

Danette Bohm

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**BC Laboratories, Inc**

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*WATER

Samples Affected: 01-07151-1, 01-07151-2

| Constituents | QC Sample ID | Sample Result | Sample Duplicate | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Sample R.P.D. | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | DISS-7151-1 | 93.9 | 93.92 | 103.8 | 101.3 | 10.2 | 10.2 | mg/L | 0. | 2. | 20 | H MEAN | H MEAN | 85 - 115 |
| Magnesium | DISS-7151-1 | 34.61 | 34.54 | 44.93 | 43.9 | 10.2 | 10.2 | mg/L | 0. | 2. | 20 | 101. | 91. | 85 - 115 |
| Sodium | DISS-7151-1 | 72.8 | 73.23 | 82.35 | 80.87 | 10.2 | 10.2 | mg/L | 1. | 2. | 20 | H MEAN | H MEAN | 85 - 115 |
| Sulfate | 7151-1- | 204.0 | 204.1 | 304.5 | 304.6 | 100.0 | 100.0 | mg/L | 0. | 0. | 10 | 101. | 101. | 80 - 120 |
| Chloride | 7151-1- | 112.9 | 112.8 | 209.2 | 208.0 | 100.0 | 100.0 | mg/L | 0. | 1. | 10 | 96. | 95. | 80 - 120 |
| Nitrate as N | 7151-1- | 0.05890 | 0.06160 | 5.020 | 5.022 | 5.000 | 5.000 | mg/L | <PQL | 0. | 10 | 99. | 99. | 80 - 120 |
| pH | 7145-1 | 7.64 | 7.67 | | | | | pH Units | 0. | | ± .1 PH UN | | | |
| Total Dissolved Solids @ 180 C | 7151-1 | 703.3 | 686.7 | | | | | mg/L | 2. | | 10 | | | |
| Total Cyanide | W-TOTAL-07179- | < 0.02 | < 0.02 | 0.2006 | 0.1977 | 0.2500 | 0.2500 | mg/L | <PQL | 1. | 10 | 80. | 79. | 90 - 110 |
| Total Sulfide | 7151-2 | < 0.1 | < 0.1 | 0.6064 | 0.5575 | 0.5556 | 0.5556 | mg/L | <PQL | 8. | 10 | 108. | 100. | 80 - 120 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H Mean - sample concentration is greater than four times the spike level.
The matrix spike recoveries for Total Cyanide are outside QC limits.

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*WATER

Samples Affected: 01-07151-1, 01-07151-2

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Calcium | LFB-2 | 9.8580 | 10. | mg/L | 99. | 85 - 115 |
| Magnesium | LFB-2 | 10.11 | 10. | mg/L | 101. | 85 - 115 |
| Sodium | LFB-2 | 10.27 | 10. | mg/L | 103. | 85 - 115 |
| Sulfate | LCSW-6-22A | 97.567 | 100. | mg/L | 98. | 90 - 110 |
| Chloride | LCSW-6-22A | 102.85 | 100. | mg/L | 103. | 90 - 110 |
| Nitrate as N | LCSW-6-22A | 4.9537 | 5.00 | mg/L | 99. | 90 - 110 |
| pH | LCSW1 | 6.98 | 7.0 | pH Units | 100. | 98 - 102 |
| Total Dissolved Solids @ 180 C | LCSW1 | 600.00 | 586. | mg/L | 102. | 90 - 110 |
| Total Cyanide | W-TOTAL-LC | 9.8773 | 10.0 | mg/L | 99. | 90 - 110 |
| Total Sulfide | LCSW1 | 0.51204 | 0.500 | mg/L | 102. | |

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-3*WATER

Samples Affected: 01-07151-3 - 01-07151-6

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Calcium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Magnesium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Sodium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Sulfate | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| Chloride | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| Nitrate as N | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| pH | n.a. | 06/25/2001 | PDL | EPA-9040 | 06/25/2001 | PDL |
| Total Dissolved Solids @ 180 C | n.a. | 06/26/2001 | ELN | EPA-160.1 | 06/26/2001 | ELN |
| Total Cyanide | EPA-335.3 | 06/27/2001 | MET | EPA-9012 | 06/28/2001 | TDC |
| Total Sulfide | n.a. | 06/26/2001 | JWH2 | EPA-376.2 | 06/26/2001 | JWH2 |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-3*WATER

Samples Affected: 01-07151-3 - 01-07151-6

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Calcium | < 0.05 | mg/L |
| Magnesium | < 0.05 | mg/L |
| Sodium | < 0.5 | mg/L |
| Sulfate | < 1.0 | mg/L |
| Chloride | < 0.5 | mg/L |
| Nitrate as N | < 0.1 | mg/L |
| Total Dissolved Solids @ 180 C | <10. | mg/L |
| Total Cyanide | < 0.02 | mg/L |
| Total Sulfide | < 0.1 | mg/L |

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-3*WATER

Samples Affected: 01-07151-3 - 01-07151-6

| Constituents | QC Sample ID | Sample Result | Sample Duplicate | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Sample R.P.D. | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | DISS-7151-1 | 93.9 | 93.92 | 103.8 | 101.3 | 10.2 | 10.2 | mg/L | 0. | 2. | 20 | H MEAN | H MEAN | 85 - 115 |
| Magnesium | DISS-7151-1 | 34.61 | 34.54 | 44.93 | 43.9 | 10.2 | 10.2 | mg/L | 0. | 2. | 20 | 101. | 91. | 85 - 115 |
| Sodium | DISS-7151-1 | 72.8 | 73.23 | 82.35 | 80.87 | 10.2 | 10.2 | mg/L | 1. | 2. | 20 | H MEAN | H MEAN | 85 - 115 |
| Sulfate | 7151-1- | 204.0 | 204.1 | 304.5 | 304.6 | 100.0 | 100.0 | mg/L | 0. | 0. | 10 | 101. | 101. | 80 - 120 |
| Chloride | 7151-1- | 112.9 | 112.8 | 209.2 | 208.0 | 100.0 | 100.0 | mg/L | 0. | 1. | 10 | 96. | 95. | 80 - 120 |
| Nitrate as N | 7151-1- | 0.05890 | 0.06160 | 5.020 | 5.022 | 5.000 | 5.000 | mg/L | <PQL | 0. | 10 | 99. | 99. | 80 - 120 |
| pH | 7145-1 | 7.64 | 7.67 | | | | | pH Units | 0. | | ± .1 PH UN | | | |
| Total Dissolved Solids @ 180 C | 7151-1 | 703.3 | 686.7 | | | | | mg/L | 2. | | 10 | | | |
| Total Cyanide | W-TOTAL-07189- | < 0.02 | < 0.02 | 0.2414 | 0.2414 | 0.2500 | 0.2500 | mg/L | <PQL | 0. | 10 | 97. | 97. | 90 - 110 |
| Total Sulfide | 7151-2 | < 0.1 | < 0.1 | 0.6064 | 0.5575 | 0.5556 | 0.5556 | mg/L | <PQL | 8. | 10 | 108. | 100. | 80 - 120 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H Mean - sample concentration is greater than four times the spike level.

Quality Control Officer

Danette Bohm

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QUALITY CONTROL REPORT
(Laboratory Control Sample)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-3*WATER

Samples Affected: 01-07151-3 - 01-07151-6

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Calcium | LFB-2 | 9.8580 | 10. | mg/L | 99. | 85 - 115 |
| Magnesium | LFB-2 | 10.11 | 10. | mg/L | 101. | 85 - 115 |
| Sodium | LFB-2 | 10.27 | 10. | mg/L | 103. | 85 - 115 |
| Sulfate | LCSW-6-22A | 97.567 | 100. | mg/L | 98. | 90 - 110 |
| Chloride | LCSW-6-22A | 102.85 | 100. | mg/L | 103. | 90 - 110 |
| Nitrate as N | LCSW-6-22A | 4.9537 | 5.00 | mg/L | 99. | 90 - 110 |
| pH | LCSW1 | 6.98 | 7.0 | pH Units | 100. | 98 - 102 |
| Total Dissolved Solids @ 180 C | LCSW1 | 600.00 | 586. | mg/L | 102. | 90 - 110 |
| Total Cyanide | W-TOTAL-LC | 9.9554 | 10.0 | mg/L | 100. | 90 - 110 |
| Total Sulfide | LCSW1 | 0.51204 | 0.500 | mg/L | 102. | 90 - 110 |

Quality Control Officer

Danette Bohm

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QUALITY CONTROL REPORT
(Preparation & Analysis Information)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-7*WATER

Samples Affected: 01-07151-7

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Calcium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Magnesium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Sodium | EPA-600-4-79-02 | 06/21/2001 | ARD | EPA-6010 | 06/26/2001 | ARD |
| Sulfate | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| Chloride | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| Nitrate as N | n.a. | 06/23/2001 | DPC | EPA-300.0 | 06/23/2001 | DPC |
| pH | n.a. | 06/25/2001 | PDL | EPA-9040 | 06/25/2001 | PDL |
| Total Dissolved Solids @ 180 C | n.a. | 06/26/2001 | ELN | EPA-160.1 | 06/26/2001 | ELN |
| Total Cyanide | EPA-335.3 | 06/27/2001 | MET | EPA-9012 | 06/28/2001 | TDC |
| Total Sulfide | n.a. | 06/26/2001 | JWH2 | EPA-376.2 | 06/26/2001 | JWH2 |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-7*WATER

Samples Affected: 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Calcium | < 0.05 | mg/L |
| Magnesium | < 0.05 | mg/L |
| Sodium | < 0.5 | mg/L |
| Sulfate | < 1.0 | mg/L |
| Chloride | < 0.5 | mg/L |
| Nitrate as N | < 0.1 | mg/L |
| Total Dissolved Solids @ 180 C | <10. | mg/L |
| Total Cyanide | < 0.02 | mg/L |
| Total Sulfide | < 0.1 | mg/L |

Quality Control Officer

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(Precision & Accuracy)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-7*WATER

Samples Affected: 01-07151-7

| Constituents | QC Sample ID | Sample Result | Sample Duplicate | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Sample R.P.D. | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | DISS-7151-1 | 93.9 | 93.92 | 103.8 | 101.3 | 10.2 | 10.2 | mg/L | 0. | 2. | 20 | H MEAN | H MEAN | 85 - 115 |
| Magnesium | DISS-7151-1 | 34.61 | 34.54 | 44.93 | 43.9 | 10.2 | 10.2 | mg/L | 0. | 2. | 20 | 101. | 91. | 85 - 115 |
| Sodium | DISS-7151-1 | 72.8 | 73.23 | 82.35 | 80.87 | 10.2 | 10.2 | mg/L | 1. | 2. | 20 | H MEAN | H MEAN | 85 - 115 |
| Sulfate | 7151-1- | 204.0 | 204.1 | 304.5 | 304.6 | 100.0 | 100.0 | mg/L | 0. | 0. | 10 | 101. | 101. | 80 - 120 |
| Chloride | 7151-1- | 112.9 | 112.8 | 209.2 | 208.0 | 100.0 | 100.0 | mg/L | 0. | 1. | 10 | 96. | 95. | 80 - 120 |
| Nitrate as N | 7151-1- | 0.05890 | 0.06160 | 5.020 | 5.022 | 5.000 | 5.000 | mg/L | <PQL | 0. | 10 | 99. | 99. | 80 - 120 |
| pH | 7151-7 | 7.66 | 7.69 | | | | | pH Units | 0. | | ± .1 PH UN | | | |
| Total Dissolved Solids @ 180 C | 7151-1 | 703.3 | 686.7 | | | | | mg/L | 2. | | 10 | | | |
| Total Cyanide | W-TOTAL-07189- | < 0.02 | < 0.02 | 0.2414 | 0.2414 | 0.2500 | 0.2500 | mg/L | <PQL | 0. | 10 | 97. | 97. | 90 - 110 |
| Total Sulfide | 7151-2 | < 0.1 | < 0.1 | 0.6064 | 0.5575 | 0.5556 | 0.5556 | mg/L | <PQL | 8. | 10 | 108. | 100. | 80 - 120 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

H Mean - sample concentration is greater than four times the spike level.

Quality Control Officer

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QUALITY CONTROL REPORT
(Laboratory Control Sample)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-7*WATER

Samples Affected: 01-07151-7

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Calcium | LFB-2 | 9.8580 | 10. | mg/L | 99. | 85 - 115 |
| Magnesium | LFB-2 | 10.11 | 10. | mg/L | 101. | 85 - 115 |
| Sodium | LFB-2 | 10.27 | 10. | mg/L | 103. | 85 - 115 |
| Sulfate | LCSW-6-22A | 97.567 | 100. | mg/L | 98. | 90 - 110 |
| Chloride | LCSW-6-22A | 102.85 | 100. | mg/L | 103. | 90 - 110 |
| Nitrate as N | LCSW-6-22A | 4.9537 | 5.00 | mg/L | 99. | 90 - 110 |
| pH | LCSW2 | 7.02 | 7.0 | pH Units | 100. | 98 - 102 |
| Total Dissolved Solids @ 180 C | LCSW1 | 600.00 | 586. | mg/L | 102. | 90 - 110 |
| Total Cyanide | W-TOTAL-LC | 9.9554 | 10.0 | mg/L | 100. | 90 - 110 |
| Total Sulfide | LCSW1 | 0.51204 | 0.500 | mg/L | 102. | 90 - 110 |

Quality Control Officer

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(Preparation & Analysis Information)

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*METAL

Samples Affected: 01-07151-1 - 01-07151-4

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Dissolved Antimony | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/27/2001 | ARD |
| Dissolved Arsenic | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-7060 | 07/06/2001 | DIW |
| Dissolved Barium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Beryllium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Cadmium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Chromium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Cobalt | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Copper | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/28/2001 | JCC |
| Dissolved Lead | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-7421 | 07/06/2001 | DIW |
| Dissolved Mercury | EPA-7470 | 06/27/2001 | DMM2 | EPA-7470 | 06/27/2001 | PAP |
| Dissolved Nickel | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Selenium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-7740 | 07/06/2001 | DIW |
| Dissolved Silver | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Tin | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-282.2 | 06/27/2001 | LMK |
| Dissolved Thallium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-7841 | 07/02/2001 | LMK |
| Dissolved Vanadium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Zinc | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |

Quality Control Officer

Danette Bohm

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(Instrumental & Blank Parameters)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*METAL

Samples Affected: 01-07151-1 - 01-07151-4

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Dissolved Antimony | <100. | µg/L |
| Dissolved Arsenic | < 2. | µg/L |
| Dissolved Barium | <10. | µg/L |
| Dissolved Beryllium | <10. | µg/L |
| Dissolved Cadmium | <10. | µg/L |
| Dissolved Chromium | <10. | µg/L |
| Dissolved Cobalt | <50. | µg/L |
| Dissolved Copper | <10. | µg/L |
| Dissolved Lead | < 1. | µg/L |
| Dissolved Mercury | < 0.2 | µg/L |
| Dissolved Nickel | <10. | µg/L |
| Dissolved Selenium | < 1. | µg/L |
| Dissolved Silver | 4.9 | µg/L |
| Dissolved Tin | < 5. | µg/L |
| Dissolved Thallium | < 1. | µg/L |
| Dissolved Vanadium | <10. | µg/L |
| Dissolved Zinc | <10. | µg/L |

The trace detection for Dissolved Silver is an estimated value between the MDL and PQL.

Quality Control Officer

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QUALITY CONTROL REPORT
(Precision & Accuracy)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/16/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*METAL

Samples Affected: 01-07151-1 - 01-07151-4

| Constituents | QC Sample ID | Sample Result | Sample Duplicate | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Sample R.P.D. | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Antimony | DISS-7151-1- | <100. | <100. | 418.0 | 413.5 | 408.2 | 408.2 | µg/L | <PQL | 1. | 20 | 104. | 103. | 85 - 115 |
| Dissolved Arsenic | DISS-7151-1 | 1.486 | 1.285 | 28.45 | 28.80 | 26.32 | 26.32 | µg/L | <PQL | 1. | 20 | 102. | 104. | 85 - 115 |
| Dissolved Barium | DISS-7151-1 | 82.50 | 82.10 | 279.6 | 273.2 | 204.1 | 204.1 | µg/L | 0. | 2. | 20 | 97. | 93. | 85 - 115 |
| Dissolved Beryllium | DISS-7151-1 | < 10. | < 10. | 189.3 | 184.2 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 93. | 90. | 85 - 115 |
| Dissolved Cadmium | DISS-7151-1 | < 10. | < 10. | 209.0 | 203.0 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 103. | 100. | 85 - 115 |
| Dissolved Chromium | DISS-7151-1 | < 10. | < 10. | 197.6 | 194.9 | 204.1 | 204.1 | µg/L | <PQL | 1. | 20 | 96. | 95. | 85 - 115 |
| Dissolved Cobalt | DISS-7151-1 | < 50. | < 50. | 200.5 | 196.8 | 204.1 | 204.1 | µg/L | <PQL | 2. | 20 | 98. | 96. | 85 - 115 |
| Dissolved Copper | DISS-7151-1-CU | < 10. | < 10. | 213.7 | 221.7 | 204.1 | 204.1 | µg/L | <PQL | 4. | 20 | 105. | 109. | 85 - 115 |
| Dissolved Lead | DISS-7151-1 | 0.6945 | 0.4235 | 27.21 | 27.28 | 26.32 | 26.32 | µg/L | <PQL | 0. | 20 | 101. | 101. | 85 - 115 |
| Dissolved Mercury | DISS-07151-1 | < 0.2 | < 0.2 | 1.081 | 1.081 | 1.000 | 1.000 | µg/L | <PQL | 0. | 20 | 105. | 105. | 70 - 130 |
| Dissolved Nickel | DISS-7151-1 | < 10. | < 10. | 391.1 | 383.4 | 408.2 | 408.2 | µg/L | <PQL | 2. | 20 | 95. | 93. | 85 - 115 |
| Dissolved Selenium | DISS-7151-1-X4 | < 10. | < 10. | 96.73 | 98.01 | 105.3 | 105.3 | µg/L | <PQL | 1. | 20 | 91. | 93. | 85 - 115 |
| Dissolved Silver | DISS-7151-1 | 5.300 | 2.600 | 203.9 | 198.2 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 97. | 95. | 85 - 115 |
| Dissolved Tin | DISS-7151-1 | < 5. | < 5. | 47.05 | 46.00 | 52.63 | 52.63 | µg/L | <PQL | 2. | 20 | 89. | 87. | 85 - 115 |
| Dissolved Thallium | DISS-7151-1 | < 1. | < 1. | 22.81 | 23.34 | 26.32 | 26.32 | µg/L | <PQL | 2. | 20 | 89. | 91. | 85 - 115 |
| Dissolved Vanadium | DISS-7151-1 | 11.00 | 7.900 | 212.9 | 209.1 | 204.1 | 204.1 | µg/L | <PQL | 2. | 20 | 99. | 97. | 85 - 115 |
| Dissolved Zinc | DISS-7151-1 | 5.000 | 5.000 | 217.0 | 212.6 | 204.1 | 204.1 | µg/L | <PQL | 2. | 20 | 104. | 102. | 85 - 115 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/16/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*METAL

Samples Affected: 01-07151-1 - 01-07151-4

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Dissolved Antimony | LFB-1 | 389.90 | 400. | µg/L | 97. | 85 - 115 |
| Dissolved Arsenic | LFB-LCSW | 26.384 | 25.0 | µg/L | 106. | 85 - 115 |
| Dissolved Barium | LFB-2 | 196.70 | 200. | µg/L | 98. | 85 - 115 |
| Dissolved Beryllium | LFB-2 | 182.70 | 200. | µg/L | 91. | 85 - 115 |
| Dissolved Cadmium | LFB-2 | 202.20 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Chromium | LFB-2 | 195.70 | 200. | µg/L | 98. | 85 - 115 |
| Dissolved Cobalt | LFB-2 | 201.80 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Copper | LFB-1 | 202.30 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Lead | LFB-LCSW | 25.408 | 25.0 | µg/L | 102. | 85 - 115 |
| Dissolved Mercury | DISS-LCSW1 | 0.94989 | 1.00 | µg/L | 95. | 85 - 115 |
| Dissolved Nickel | LFB-2 | 394.60 | 400. | µg/L | 99. | 85 - 115 |
| Dissolved Selenium | LFB-LCSW | 24.045 | 25.0 | µg/L | 96. | 85 - 115 |
| Dissolved Silver | LFB-2 | 182.40 | 200. | µg/L | 91. | 85 - 115 |
| Dissolved Tin | LFB-50-LCS | 47.400 | 50.0 | µg/L | 95. | 85 - 115 |
| Dissolved Thallium | LFB-25-LCS | 25.080 | 25.0 | µg/L | 100. | 85 - 115 |
| Dissolved Vanadium | LFB-2 | 202.20 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Zinc | LFB-2 | 203.60 | 200. | µg/L | 102. | 85 - 115 |

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-5*METAL

Samples Affected: 01-07151-5 - 01-07151-7

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Dissolved Antimony | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/27/2001 | ARD |
| Dissolved Arsenic | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-7060 | 07/06/2001 | DIW |
| Dissolved Barium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Beryllium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Cadmium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Chromium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Cobalt | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Copper | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/28/2001 | JCC |
| Dissolved Lead | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-7421 | 07/06/2001 | DIW |
| Dissolved Mercury | EPA-7470 | 06/27/2001 | DMM2 | EPA-7470 | 06/27/2001 | PAP |
| Dissolved Nickel | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Selenium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-7740 | 07/06/2001 | DIW |
| Dissolved Silver | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Tin | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-282.2 | 06/27/2001 | LMK |
| Dissolved Thallium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-7841 | 07/02/2001 | LMK |
| Dissolved Vanadium | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |
| Dissolved Zinc | EPA-600-4-79-02 | 06/21/2001 | FIELD | EPA-6010 | 06/26/2001 | ARD |

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/16/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-5*METAL

Samples Affected: 01-07151-5 - 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Dissolved Antimony | <100. | µg/L |
| Dissolved Arsenic | < 2. | µg/L |
| Dissolved Barium | <10. | µg/L |
| Dissolved Beryllium | <10. | µg/L |
| Dissolved Cadmium | <10. | µg/L |
| Dissolved Chromium | <10. | µg/L |
| Dissolved Cobalt | <50. | µg/L |
| Dissolved Copper | <10. | µg/L |
| Dissolved Lead | < 1. | µg/L |
| Dissolved Mercury | < 0.2 | µg/L |
| Dissolved Nickel | <10. | µg/L |
| Dissolved Selenium | < 1. | µg/L |
| Dissolved Silver | 4.9 | µg/L |
| Dissolved Tin | < 5. | µg/L |
| Dissolved Thallium | < 1. | µg/L |
| Dissolved Vanadium | <10. | µg/L |
| Dissolved Zinc | <10. | µg/L |

The trace detection for Dissolved Silver is an estimated value between the MDL and PQL.

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/16/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-5*METAL

Samples Affected: 01-07151-5 - 01-07151-7

| Constituents | QC Sample ID | Sample Result | Sample Duplicate | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Sample R.P.D. | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Antimony | DISS-7151-1- | <100. | <100. | 418.0 | 413.5 | 408.2 | 408.2 | µg/L | <PQL | 1. | 20 | 104. | 103. | 85 - 115 |
| Dissolved Arsenic | DISS-7151-1 | 1.486 | 1.285 | 28.45 | 28.80 | 26.32 | 26.32 | µg/L | <PQL | 1. | 20 | 102. | 104. | 85 - 115 |
| Dissolved Barium | DISS-7151-1 | 82.50 | 82.10 | 279.6 | 273.2 | 204.1 | 204.1 | µg/L | 0. | 2. | 20 | 97. | 93. | 85 - 115 |
| Dissolved Beryllium | DISS-7151-1 | < 10. | < 10. | 189.3 | 184.2 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 93. | 90. | 85 - 115 |
| Dissolved Cadmium | DISS-7151-1 | < 10. | < 10. | 209.0 | 203.0 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 103. | 100. | 85 - 115 |
| Dissolved Chromium | DISS-7151-1 | < 10. | < 10. | 197.6 | 194.9 | 204.1 | 204.1 | µg/L | <PQL | 1. | 20 | 96. | 95. | 85 - 115 |
| Dissolved Cobalt | DISS-7151-1 | < 50. | < 50. | 200.5 | 196.8 | 204.1 | 204.1 | µg/L | <PQL | 2. | 20 | 98. | 96. | 85 - 115 |
| Dissolved Copper | DISS-7151-7-CU | < 10. | < 10. | 173.6 | 181.6 | 204.1 | 204.1 | µg/L | <PQL | 5. | 20 | 85. | 89. | 85 - 115 |
| Dissolved Lead | DISS-7151-1 | 0.6945 | 0.4235 | 27.21 | 27.28 | 26.32 | 26.32 | µg/L | <PQL | 0. | 20 | 101. | 101. | 85 - 115 |
| Dissolved Mercury | DISS-07151-1 | < 0.2 | < 0.2 | 1.081 | 1.081 | 1.000 | 1.000 | µg/L | <PQL | 0. | 20 | 105. | 105. | 70 - 130 |
| Dissolved Nickel | DISS-7151-1 | < 10. | < 10. | 391.1 | 383.4 | 408.2 | 408.2 | µg/L | <PQL | 2. | 20 | 95. | 93. | 85 - 115 |
| Dissolved Selenium | DISS-7151-1-X4 | < 10. | < 10. | 96.73 | 98.01 | 105.3 | 105.3 | µg/L | <PQL | 1. | 20 | 91. | 93. | 85 - 115 |
| Dissolved Silver | DISS-7151-1 | 5.300 | 2.600 | 203.9 | 198.2 | 204.1 | 204.1 | µg/L | <PQL | 3. | 20 | 97. | 95. | 85 - 115 |
| Dissolved Tin | DISS-7151-1 | < 5. | < 5. | 47.05 | 46.00 | 52.63 | 52.63 | µg/L | <PQL | 2. | 20 | 89. | 87. | 85 - 115 |
| Dissolved Thallium | DISS-7151-1 | < 1. | < 1. | 22.81 | 23.34 | 26.32 | 26.32 | µg/L | <PQL | 2. | 20 | 89. | 91. | 85 - 115 |
| Dissolved Vanadium | DISS-7151-1 | 11.00 | 7.900 | 212.9 | 209.1 | 204.1 | 204.1 | µg/L | <PQL | 2. | 20 | 99. | 97. | 85 - 115 |
| Dissolved Zinc | DISS-7151-1 | 5.000 | 5.000 | 217.0 | 212.6 | 204.1 | 204.1 | µg/L | <PQL | 2. | 20 | 104. | 102. | 85 - 115 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/16/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-5*METAL

Samples Affected: 01-07151-5 - 01-07151-7

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Dissolved Antimony | LFB-1 | 389.90 | 400. | µg/L | 97. | 85 - 115 |
| Dissolved Arsenic | LFB-LCSW | 26.384 | 25.0 | µg/L | 106. | 85 - 115 |
| Dissolved Barium | LFB-2 | 196.70 | 200. | µg/L | 98. | 85 - 115 |
| Dissolved Beryllium | LFB-2 | 182.70 | 200. | µg/L | 91. | 85 - 115 |
| Dissolved Cadmium | LFB-2 | 202.20 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Chromium | LFB-2 | 195.70 | 200. | µg/L | 98. | 85 - 115 |
| Dissolved Cobalt | LFB-2 | 201.80 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Copper | LFB-1 | 183.00 | 200. | µg/L | 92. | 85 - 115 |
| Dissolved Lead | LFB-LCSW | 25.408 | 25.0 | µg/L | 102. | 85 - 115 |
| Dissolved Mercury | DISS-LCSW1 | 0.94989 | 1.00 | µg/L | 95. | 85 - 115 |
| Dissolved Nickel | LFB-2 | 394.60 | 400. | µg/L | 99. | 85 - 115 |
| Dissolved Selenium | LFB-LCSW | 24.045 | 25.0 | µg/L | 96. | 85 - 115 |
| Dissolved Silver | LFB-2 | 182.40 | 200. | µg/L | 91. | 85 - 115 |
| Dissolved Tin | LFB-50-LCS | 47.400 | 50.0 | µg/L | 95. | 85 - 115 |
| Dissolved Thallium | LFB-25-LCS | 25.080 | 25.0 | µg/L | 100. | 85 - 115 |
| Dissolved Vanadium | LFB-2 | 202.20 | 200. | µg/L | 101. | 85 - 115 |
| Dissolved Zinc | LFB-2 | 203.60 | 200. | µg/L | 102. | 85 - 115 |

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8080

Samples Affected: 01-07151-1, 01-07151-3 - 01-07151-7

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Method 8080 Compounds | EPA-3510 | 06/24/2001 | WAE/MM | EPA-8080 | 07/18/2001 | RKB |

Quality Control Officer

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8080

Samples Affected: 01-07151-1, 01-07151-3 - 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Aldrin | < 0.005 | µg/L |
| alpha-BHC | < 0.005 | µg/L |
| beta-BHC | < 0.005 | µg/L |
| delta-BHC | < 0.005 | µg/L |
| gamma-BHC | < 0.005 | µg/L |
| Chlordane (Technical) | < 0.1 | µg/L |
| 4,4'-DDD | < 0.005 | µg/L |
| 4,4'-DDE | < 0.005 | µg/L |
| 4,4'-DDT | < 0.005 | µg/L |
| Dieldrin | < 0.005 | µg/L |
| Endosulfan I | < 0.005 | µg/L |
| Endosulfan II | < 0.005 | µg/L |
| Endosulfan Sulfate | < 0.005 | µg/L |
| Endrin | < 0.005 | µg/L |
| Endrin Aldehyde | < 0.01 | µg/L |
| Heptachlor | < 0.005 | µg/L |
| Heptachlor Epoxide | < 0.005 | µg/L |
| Hexachlorocyclopentadiene | < 0.01 | µg/L |
| Methoxychlor | < 0.005 | µg/L |
| Toxaphene | < 2. | µg/L |
| PCB-1016 | < 0.2 | µg/L |
| PCB-1221 | < 0.2 | µg/L |
| PCB-1232 | < 0.2 | µg/L |
| PCB-1242 | < 0.2 | µg/L |
| PCB-1248 | < 0.2 | µg/L |
| PCB-1254 | < 0.2 | µg/L |
| PCB-1260 | < 0.2 | µg/L |
| Total PCB's (Summation) | < 0.2 | µg/L |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8080

Samples Affected: 01-07151-1, 01-07151-3 - 01-07151-7

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8080

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8080

Samples Affected: 01-07151-1, 01-07151-3 - 01-07151-7

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | MS-06-29-01 | < 0.005 | 0.263 | 0.269 | 0.250 | 0.250 | µg/L | 2. | 24 | 105. | 108. | 49 - 126 |
| gamma-BHC | MS-06-29-01 | < 0.005 | 0.268 | 0.275 | 0.250 | 0.250 | µg/L | 2. | 23 | 107. | 110. | 52 - 128 |
| 4,4'-DDT | MS-06-29-01 | < 0.005 | 0.291 | 0.271 | 0.250 | 0.250 | µg/L | 7. | 28 | 116. | 108. | 34 - 146 |
| Dieldrin | MS-06-29-01 | < 0.005 | 0.279 | 0.274 | 0.250 | 0.250 | µg/L | 2. | 26 | 112. | 110. | 47 - 133 |
| Endrin | MS-06-29-01 | < 0.005 | 0.297 | 0.289 | 0.250 | 0.250 | µg/L | 3. | 29 | 119. | 116. | 36 - 139 |
| Heptachlor | MS-06-29-01 | < 0.005 | 0.243 | 0.245 | 0.250 | 0.250 | µg/L | 1. | 22 | 97. | 98. | 48 - 126 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

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QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8150

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/12/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8150

Samples Affected: 01-07151-1 - 01-07151-7

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| 8150 compounds 1 - 4 | 3510 | 06/25/2001 | JCM | 8150 | 06/28/2001 | KMS |
| 8150 compounds 5 - 7 | 3510 | 06/25/2001 | JCM | 8150 | 06/29/2001 | KMS |

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8150

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/09/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8150

Samples Affected: 01-07151-1 - 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 2,4-D | < 0.4 | µg/L |
| Dinoseb | < 0.2 | µg/L |
| 2,4,5-T | < 0.09 | µg/L |
| 2,4,5-TP (Silvex) | < 0.07 | µg/L |

Quality Control Officer

Danette Bohm

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QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8150

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/09/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8150

Samples Affected: 01-07151-1 - 01-07151-7

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | MS1-06-25-01 | < 0.4 | 1.63 | 1.81 | 2.00 | 2.00 | µg/L | 11. | 30 | 82. | 91. | 20 - 142 |
| Dinoseb | MS1-06-25-01 | < 0.2 | 0.68 | 0.99 | 1.00 | 1.00 | µg/L | 38. | 30 | 68. | 99. | 13 - 119 |
| 2,4,5-T | MS1-06-25-01 | < 0.09 | 0.48 | 0.61 | 0.60 | 0.60 | µg/L | 24. | 30 | 80. | 102. | 42 - 121 |
| 2,4,5-TP (Silvex) | MS1-06-25-01 | < 0.07 | 0.58 | 0.68 | 0.60 | 0.60 | µg/L | 16. | 30 | 97. | 113. | 54 - 132 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

The spike RPD for Dinoseb is outside QC limits.

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
Method 8150

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/09/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8150

Samples Affected: 01-07151-1 - 01-07151-7

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| 2,4-D | LCS | 1.81 | 2.00 | µg/L | 90. | 20 - 142 |
| Dinoseb | LCS | 0.90 | 1.00 | µg/L | 90. | 13 - 119 |
| 2,4,5-T | LCS | 0.58 | 0.60 | µg/L | 96. | 42 - 121 |
| 2,4,5-TP (Silvex) | LCS | 0.64 | 0.60 | µg/L | 107. | 54 - 132 |

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
METHOD 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8260

Samples Affected: 01-07151-1 - 01-07151-3, 01-07151-10TB

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Method 8260 Compound #1,3,10TB | EPA-5030 | 06/28/2001 | SLL/SM | EPA-8260 | 06/28/2001 | SLL/SM |

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
METHOD 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8260

Samples Affected: 01-07151-1 - 01-07151-3, 01-07151-10TB

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Benzene | < 0.5 | µg/L |
| Bromobenzene | < 0.5 | µg/L |
| Bromochloromethane | < 0.5 | µg/L |
| Bromodichloromethane | < 0.5 | µg/L |
| Bromoform | < 0.5 | µg/L |
| Bromomethane | < 0.5 | µg/L |
| n-Butylbenzene | < 0.5 | µg/L |
| sec-Butylbenzene | < 0.5 | µg/L |
| tert-Butylbenzene | < 0.5 | µg/L |
| Carbon tetrachloride | < 0.5 | µg/L |
| Chlorobenzene | < 0.5 | µg/L |
| Chloroethane | < 0.5 | µg/L |
| Chloroform | < 0.5 | µg/L |
| Chloromethane | < 0.5 | µg/L |
| 2-Chlorotoluene | < 0.5 | µg/L |
| 4-Chlorotoluene | < 0.5 | µg/L |
| Dibromochloromethane | < 0.5 | µg/L |
| 1,2-Dibromo-3-Chloropropane | < 1. | µg/L |
| 1,2-Dibromoethane | < 0.5 | µg/L |
| Dibromomethane | < 0.5 | µg/L |
| 1,2-Dichlorobenzene | < 0.5 | µg/L |
| 1,3-Dichlorobenzene | < 0.5 | µg/L |
| 1,4-Dichlorobenzene | < 0.5 | µg/L |
| Dichlorodifluoromethane | < 0.5 | µg/L |
| 1,1-Dichloroethane | < 0.5 | µg/L |
| 1,2-Dichloroethane | < 0.5 | µg/L |
| 1,1-Dichloroethene | < 0.5 | µg/L |
| cis-1,2-Dichloroethene | < 0.5 | µg/L |
| trans-1,2-Dichloroethene | < 0.5 | µg/L |

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(Instrumental & Blank Parameters)
METHOD 8260

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8260

Samples Affected: 01-07151-1 - 01-07151-3, 01-07151-10TB

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 1,2-Dichloropropane | < 0.5 | µg/L |
| 1,3-Dichloropropane | < 0.5 | µg/L |
| 2,2-Dichloropropane | < 0.5 | µg/L |
| 1,1-Dichloropropene | < 0.5 | µg/L |
| cis-1,3-Dichloropropene | < 0.5 | µg/L |
| trans-1,3-Dichloropropene | < 0.5 | µg/L |
| Ethyl Benzene | < 0.5 | µg/L |
| Hexachlorobutadiene | < 0.5 | µg/L |
| Isopropylbenzene | < 0.5 | µg/L |
| p-Isopropyltoluene | < 0.5 | µg/L |
| Methylene Chloride | 0.55 | µg/L |
| Naphthalene | < 0.5 | µg/L |
| n-Propylbenzene | < 0.5 | µg/L |
| Styrene | < 0.5 | µg/L |
| 1,1,1,2-Tetrachloroethane | < 0.5 | µg/L |
| 1,1,2,2-Tetrachloroethane | < 0.5 | µg/L |
| Tetrachloroethene | < 0.5 | µg/L |
| Toluene | < 0.5 | µg/L |
| 1,2,3-Trichlorobenzene | < 0.5 | µg/L |
| 1,2,4-Trichlorobenzene | < 0.5 | µg/L |
| 1,1,1-Trichloroethane | < 0.5 | µg/L |
| 1,1,2-Trichloroethane | < 0.5 | µg/L |
| Trichloroethene | < 0.5 | µg/L |
| Trichlorofluoromethane | < 0.5 | µg/L |
| 1,2,3-Trichloropropane | < 1. | µg/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | < 0.5 | µg/L |
| 1,2,4-Trimethylbenzene | < 0.5 | µg/L |
| 1,3,5-Trimethylbenzene | < 0.5 | µg/L |

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METHOD 8260

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8260

Samples Affected: 01-07151-1 - 01-07151-3, 01-07151-10TB

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Vinyl Chloride | < 0.5 | µg/L |
| Total Xylenes | < 1. | µg/L |
| Acetone | <20. | µg/L |
| Acetonitrile | <20. | µg/L |
| Acrolein | <50. | µg/L |
| Acrylonitrile | <20. | µg/L |
| Allyl Chloride | < 5. | µg/L |
| t-Amyl methyl ether | < 1. | µg/L |
| t-Butyl alcohol | <50. | µg/L |
| Carbon Disulfide | < 2. | µg/L |
| Chloroprene | < 5. | µg/L |
| trans-1,4-Dichloro-2-butene | < 5. | µg/L |
| Diisopropyl ether | < 1. | µg/L |
| 1,4-Dioxane | <300. | µg/L |
| 2-Hexanone | <20. | µg/L |
| Iodomethane | < 2. | µg/L |
| Isobutyl alcohol | <50. | µg/L |
| Methacrylonitrile | <10. | µg/L |
| Methyl Ethyl Ketone | <20. | µg/L |
| 4-Methyl-2-pentanone | <20. | µg/L |
| Methyl-t-butylether | < 0.5 | µg/L |
| Propionitrile | <20. | µg/L |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
METHOD 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8260

Samples Affected: 01-07151-1 - 01-07151-3, 01-07151-10TB

The trace detection for Methylene chloride is an estimated value between the MDL and PQL.

Quality Control Officer

Danette Bohm

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QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8260

Samples Affected: 01-07151-1 - 01-07151-3, 01-07151-10TB

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 01-07299-1 | < 0.5 | 26. | 26. | 25. | 25. | µg/L | 3. | 20 | 102. | 106. | 80 - 120 |
| Bromodichloromethane | 01-07299-1 | < 0.5 | 25. | 25. | 25. | 25. | µg/L | 2. | 20 | 102. | 99. | 80 - 120 |
| Chlorobenzene | 01-07299-1 | < 0.5 | 26. | 26. | 25. | 25. | µg/L | 0. | 20 | 103. | 103. | 80 - 120 |
| Chloroethane | 01-07299-1 | < 0.5 | 26. | 28. | 25. | 25. | µg/L | 7. | 20 | 104. | 111. | 80 - 120 |
| 1,4-Dichlorobenzene | 01-07299-1 | < 0.5 | 25. | 25. | 25. | 25. | µg/L | 1. | 20 | 100. | 101. | 80 - 120 |
| 1,1-Dichloroethane | 01-07299-1 | < 0.5 | 26. | 26. | 25. | 25. | µg/L | 2. | 20 | 104. | 105. | 80 - 120 |
| 1,1-Dichloroethene | 01-07299-1 | < 0.5 | 26. | 27. | 25. | 25. | µg/L | 1. | 20 | 106. | 107. | 80 - 120 |
| Toluene | 01-07299-1 | < 0.5 | 25. | 24. | 25. | 25. | µg/L | 5. | 20 | 100. | 95. | 80 - 120 |
| Trichloroethene | 01-07299-1 | < 0.5 | 26. | 26. | 25. | 25. | µg/L | 0. | 20 | 105. | 105. | 80 - 120 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8260

Samples Affected: 01-07151-1 - 01-07151-3, 01-07151-10TB

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Benzene | CCV 4 | 23. | 25. | µg/L | 92. | 80 - 120 |
| Bromodichloromethane | CCV 4 | 23. | 25. | µg/L | 92. | 80 - 120 |
| Chlorobenzene | CCV 4 | 23. | 25. | µg/L | 92. | 80 - 120 |
| Chloroethane | CCV 4 | 23. | 25. | µg/L | 91. | 80 - 120 |
| 1,4-Dichlorobenzene | CCV 4 | 24. | 25. | µg/L | 95. | 80 - 120 |
| 1,1-Dichloroethane | CCV 4 | 23. | 25. | µg/L | 93. | 80 - 120 |
| 1,1-Dichloroethene | CCV 4 | 23. | 25. | µg/L | 93. | 80 - 120 |
| Toluene | CCV 4 | 23. | 25. | µg/L | 92. | 80 - 120 |
| Trichloroethene | CCV 4 | 24. | 25. | µg/L | 95. | 80 - 120 |

Quality Control Officer

Danette Bohm

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QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-4*8260

Samples Affected: 01-07151-4 - 01-07151-9

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Method 8260 Compound #4 - #9 | EPA-5030 | 06/28/2001 | SLL/SM | EPA-8260 | 06/28/2001 | SLL/SM |

Quality Control Officer

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-4*8260

Samples Affected: 01-07151-4 - 01-07151-9

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Benzene | < 0.5 | µg/L |
| Bromobenzene | < 0.5 | µg/L |
| Bromochloromethane | < 0.5 | µg/L |
| Bromodichloromethane | < 0.5 | µg/L |
| Bromoform | < 0.5 | µg/L |
| Bromomethane | < 1. | µg/L |
| n-Butylbenzene | < 0.5 | µg/L |
| sec-Butylbenzene | < 0.5 | µg/L |
| tert-Butylbenzene | < 0.5 | µg/L |
| Carbon tetrachloride | < 0.5 | µg/L |
| Chlorobenzene | < 0.5 | µg/L |
| Chloroethane | < 0.5 | µg/L |
| Chloroform | < 0.5 | µg/L |
| Chloromethane | < 0.5 | µg/L |
| 2-Chlorotoluene | < 0.5 | µg/L |
| 4-Chlorotoluene | < 0.5 | µg/L |
| Dibromochloromethane | < 0.5 | µg/L |
| 1,2-Dibromo-3-Chloropropane | < 1. | µg/L |
| 1,2-Dibromoethane | < 0.5 | µg/L |
| Dibromomethane | < 0.5 | µg/L |
| 1,2-Dichlorobenzene | < 0.5 | µg/L |
| 1,3-Dichlorobenzene | < 0.5 | µg/L |
| 1,4-Dichlorobenzene | < 0.5 | µg/L |
| Dichlorodifluoromethane | < 0.5 | µg/L |
| 1,1-Dichloroethane | < 0.5 | µg/L |
| 1,2-Dichloroethane | < 0.5 | µg/L |
| 1,1-Dichloroethene | < 0.5 | µg/L |
| cis-1,2-Dichloroethene | < 0.5 | µg/L |
| trans-1,2-Dichloroethene | < 0.5 | µg/L |

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(Instrumental & Blank Parameters)
Method 8260

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-4*8260

Samples Affected: 01-07151-4 - 01-07151-9

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 1,2-Dichloropropane | < 0.5 | µg/L |
| 1,3-Dichloropropane | < 0.5 | µg/L |
| 2,2-Dichloropropane | < 0.5 | µg/L |
| 1,1-Dichloropropene | < 0.5 | µg/L |
| cis-1,3-Dichloropropene | < 0.5 | µg/L |
| trans-1,3-Dichloropropene | < 0.5 | µg/L |
| Ethyl Benzene | < 0.5 | µg/L |
| Hexachlorobutadiene | < 0.5 | µg/L |
| Isopropylbenzene | < 0.5 | µg/L |
| p-Isopropyltoluene | < 0.5 | µg/L |
| Methylene Chloride | < 1. | µg/L |
| Naphthalene | < 0.5 | µg/L |
| n-Propylbenzene | < 0.5 | µg/L |
| Styrene | < 0.5 | µg/L |
| 1,1,1,2-Tetrachloroethane | < 0.5 | µg/L |
| 1,1,2,2-Tetrachloroethane | < 0.5 | µg/L |
| Tetrachloroethene | < 0.5 | µg/L |
| Toluene | < 0.5 | µg/L |
| 1,2,3-Trichlorobenzene | < 0.5 | µg/L |
| 1,2,4-Trichlorobenzene | < 0.5 | µg/L |
| 1,1,1-Trichloroethane | < 0.5 | µg/L |
| 1,1,2-Trichloroethane | < 0.5 | µg/L |
| Trichloroethene | < 0.5 | µg/L |
| Trichlorofluoromethane | < 0.5 | µg/L |
| 1,2,3-Trichloropropane | < 1. | µg/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | < 0.5 | µg/L |
| 1,2,4-Trimethylbenzene | < 0.5 | µg/L |
| 1,3,5-Trimethylbenzene | < 0.5 | µg/L |

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-4*8260

Samples Affected: 01-07151-4 - 01-07151-9

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Vinyl Chloride | < 0.5 | µg/L |
| Total Xylenes | < 1. | µg/L |
| Acetone | <20. | µg/L |
| Acetonitrile | <20. | µg/L |
| Acrolein | <50. | µg/L |
| Acrylonitrile | <20. | µg/L |
| Allyl Chloride | < 5. | µg/L |
| t-Amyl methyl ether | < 1. | µg/L |
| t-Butyl alcohol | <50. | µg/L |
| Carbon Disulfide | < 2. | µg/L |
| Chloroprene | < 5. | µg/L |
| trans-1,4-Dichloro-2-butene | < 5. | µg/L |
| Diisopropyl ether | < 1. | µg/L |
| 1,4-Dioxane | <300. | µg/L |
| 2-Hexanone | <20. | µg/L |
| Iodomethane | < 2. | µg/L |
| Isobutyl alcohol | <50. | µg/L |
| Methacrylonitrile | <10. | µg/L |
| Methyl Ethyl Ketone | <20. | µg/L |
| 4-Methyl-2-pentanone | <20. | µg/L |
| Methyl-t-butylether | < 0.5 | µg/L |
| Propionitrile | <20. | µg/L |

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Method 8260

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/17/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-4*8260

Samples Affected: 01-07151-4 - 01-07151-9

Quality Control Officer

Danette Bohm

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Method 8260

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-4*8260

Samples Affected: 01-07151-4 - 01-07151-9

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 01-07299-1 | < 0.5 | 26. | 26. | 25. | 25. | µg/L | 3. | 20 | 102. | 106. | 80 - 120 |
| Bromodichloromethane | 01-07299-1 | < 0.5 | 25. | 25. | 25. | 25. | µg/L | 2. | 20 | 102. | 99. | 80 - 120 |
| Chlorobenzene | 01-07299-1 | < 0.5 | 26. | 26. | 25. | 25. | µg/L | 0. | 20 | 103. | 103. | 80 - 120 |
| Chloroethane | 01-07299-1 | < 0.5 | 26. | 28. | 25. | 25. | µg/L | 7. | 20 | 104. | 111. | 80 - 120 |
| 1,4-Dichlorobenzene | 01-07299-1 | < 0.5 | 25. | 25. | 25. | 25. | µg/L | 1. | 20 | 100. | 101. | 80 - 120 |
| 1,1-Dichloroethane | 01-07299-1 | < 0.5 | 26. | 26. | 25. | 25. | µg/L | 2. | 20 | 104. | 105. | 80 - 120 |
| 1,1-Dichloroethene | 01-07299-1 | < 0.5 | 26. | 27. | 25. | 25. | µg/L | 1. | 20 | 106. | 107. | 80 - 120 |
| Toluene | 01-07299-1 | < 0.5 | 25. | 24. | 25. | 25. | µg/L | 5. | 20 | 100. | 95. | 80 - 120 |
| Trichloroethene | 01-07299-1 | < 0.5 | 26. | 26. | 25. | 25. | µg/L | 0. | 20 | 105. | 105. | 80 - 120 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Quality Control Officer

Danette Bohm

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-4*8260

Samples Affected: 01-07151-4 - 01-07151-9

| Constituents | QC Sample ID | Sample Result | Spike Level | Units | % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|
| Benzene | CCV 6 | 24. | 25. | µg/L | 96. | 80 - 120 |
| Bromodichloromethane | CCV 6 | 25. | 25. | µg/L | 100. | 80 - 120 |
| Chlorobenzene | CCV 6 | 24. | 25. | µg/L | 96. | 80 - 120 |
| Chloroethane | CCV 6 | 24. | 25. | µg/L | 98. | 80 - 120 |
| 1,4-Dichlorobenzene | CCV 6 | 25. | 25. | µg/L | 100. | 80 - 120 |
| 1,1-Dichloroethane | CCV 6 | 25. | 25. | µg/L | 100. | 80 - 120 |
| 1,1-Dichloroethene | CCV 6 | 24. | 25. | µg/L | 98. | 80 - 120 |
| Toluene | CCV 6 | 24. | 25. | µg/L | 95. | 80 - 120 |
| Trichloroethene | CCV 6 | 25. | 25. | µg/L | 98. | 80 - 120 |

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8260

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/13/2001
Sample Matrix: Groundwater
QC Batch ID: 200107151-4*8260

Samples Affected: 01-07151-4 - 01-07151-9

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Method 8260 Compounds | EPA-5030 | 06/28/2001 | SLL/SM | EPA-8260 | 06/28/2001 | SLL/SM |

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BC Laboratories, Inc

B C LABORATORIES
QUALITY CONTROL REPORT
(Preparation & Analysis Information)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8270

Samples Affected: 01-07151-1, 01-07151-4 - 01-07151-7

| Constituents | Preparation Method | Preparation Date | Preparation Technician | Analytical Method | Run Date | Analyst |
|---|---|---|---|---|---|---|
| Method 8270 Compounds# -1,4,5 | EPA-3510 | 06/29/2001 | JCM | EPA-8270 | 07/05/2001 | SKC |
| Method 8270 Compounds# -6,7 | EPA-3510 | 06/29/2001 | JCM | EPA-8270 | 07/06/2001 | SKC |

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B C LABORATORIES
QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8270

Samples Affected: 01-07151-1, 01-07151-4 - 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Acenaphthene | < 2. | µg/L |
| Acenaphthylene | < 2. | µg/L |
| Aldrin | < 2. | µg/L |
| Aniline | < 5. | µg/L |
| Anthracene | < 2. | µg/L |
| Benzidine | <20. | µg/L |
| Benzo (a) anthracene | < 2. | µg/L |
| Benzo (b) fluoranthene | < 2. | µg/L |
| Benzo (k) fluoranthene | < 2. | µg/L |
| Benzo (a) pyrene | < 2. | µg/L |
| Benzo (ghi) perylene | < 2. | µg/L |
| Benzoic Acid | <10. | µg/L |
| Benzyl alcohol | < 2. | µg/L |
| Butyl Benzyl phthalate | < 2. | µg/L |
| alpha-BHC | < 2. | µg/L |
| beta-BHC | < 2. | µg/L |
| delta-BHC | < 2. | µg/L |
| gamma-BHC | < 2. | µg/L |
| bis(2-chloroethyl)ether | < 2. | µg/L |
| bis(2-chloroethoxy)methane | < 2. | µg/L |
| bis(2-chloro-1-methylethyl) et | < 2. | µg/L |
| bis(2-ethylhexyl)phthalate | < 5. | µg/L |
| 4-Bromophenyl phenyl ether | < 2. | µg/L |
| 4-Chloroaniline | < 2. | µg/L |
| 2-Chloronaphthalene | < 2. | µg/L |
| 4-Chlorophenyl phenyl ether | < 2. | µg/L |
| Chrysene | < 2. | µg/L |
| 4,4-DDD' | < 2. | µg/L |
| 4,4-DDE' | < 3. | µg/L |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8270

Samples Affected: 01-07151-1, 01-07151-4 - 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 4,4-DDT' | < 2. | µg/L |
| Dibenzo (a,h) anthracene | < 3. | µg/L |
| Dibenzofuran | < 2. | µg/L |
| Di-n-butyl phthalate | < 2. | µg/L |
| 1,2-Dichlorobenzene | < 2. | µg/L |
| 1,3-Dichlorobenzene | < 2. | µg/L |
| 1,4-Dichlorobenzene | < 2. | µg/L |
| 3,3-Dichlorobenzidine | <10. | µg/L |
| Dieldrin | < 3. | µg/L |
| Diethyl phthalate | < 2. | µg/L |
| Dimethyl phthalate | < 2. | µg/L |
| 2,4-Dinitrotoluene | < 2. | µg/L |
| 2,6-Dinitrotoluene | < 2. | µg/L |
| Di-n-octylphthalate | < 2. | µg/L |
| 1,2-Diphenylhydrazine | < 2. | µg/L |
| Endosulfan I | <10. | µg/L |
| Endosulfan II | <10. | µg/L |
| Endosulfan sulfate | < 3. | µg/L |
| Endrin | < 2. | µg/L |
| Endrin aldehyde | <10. | µg/L |
| Fluoranthene | < 2. | µg/L |
| Fluorene | < 2. | µg/L |
| Heptachlor | < 2. | µg/L |
| Heptachlor epoxide | < 2. | µg/L |
| Hexachlorobenzene | < 2. | µg/L |
| Hexachlorobutadiene | < 2. | µg/L |
| Hexachlorocyclopentadiene | < 2. | µg/L |
| Hexachloroethane | < 2. | µg/L |
| Indeno (1,2,3-cd) pyrene | < 2. | µg/L |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8270

Samples Affected: 01-07151-1, 01-07151-4 - 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| Isophorone | < 2. | µg/L |
| 2-Methylnaphthalene | < 2. | µg/L |
| Naphthalene | < 2. | µg/L |
| 2-Naphthylamine | <20. | µg/L |
| 2-Nitroaniline | < 2. | µg/L |
| 3-Nitroaniline | < 2. | µg/L |
| 4-Nitroaniline | < 5. | µg/L |
| Nitrobenzene | < 2. | µg/L |
| n-Nitrosodimethylamine | < 2. | µg/L |
| n-Nitrosodiphenylamine | < 2. | µg/L |
| N-Nitrosodi-n-propylamine | < 2. | µg/L |
| Phenanthrene | < 2. | µg/L |
| Pyrene | < 2. | µg/L |
| 1,2,4-Trichlorobenzene | < 2. | µg/L |
| 4-Chloro-3-methylphenol | < 5. | µg/L |
| 2-Chlorophenol | < 2. | µg/L |
| 2,4-Dichlorophenol | < 2. | µg/L |
| 2,4-Dimethylphenol | < 2. | µg/L |
| 2,4-Dinitrophenol | <10. | µg/L |
| 2-Methyl-4,6-dinitrophenol | <10. | µg/L |
| 2-Methylphenol | < 2. | µg/L |
| 3- & 4-Methylphenol | < 2. | µg/L |
| 2-Nitrophenol | < 2. | µg/L |
| 4-Nitrophenol | < 2. | µg/L |
| Pentachlorophenol | <10. | µg/L |
| Phenol | < 2. | µg/L |
| 2,4,5-Trichlorophenol | < 5. | µg/L |
| 2,4,6-Trichlorophenol | < 5. | µg/L |
| Acetophenone | <10. | µg/L |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8270

Samples Affected: 01-07151-1, 01-07151-4 - 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 2-Acetylaminofluorene | <10. | µg/L |
| 4-Aminobiphenyl | <20. | µg/L |
| 2,6-Dichlorophenol | <10. | µg/L |
| p-(Dimethylamine) azobenzene | <10. | µg/L |
| 7,12-Dimethylbenz (a) anthracene | <10. | µg/L |
| 3,3'-Dimethylbenzidine | <20. | µg/L |
| Diphenylamine | <10. | µg/L |
| Ethyl methacrylate | <10. | µg/L |
| Ethyl methanesulfonate | <10. | µg/L |
| Kepone | <20. | µg/L |
| Methapyrilene | <10. | µg/L |
| 3-Methylcholanthrene | <10. | µg/L |
| Methyl methanesulfonate | <10. | µg/L |
| 1,4-Napthoquinone | <20. | µg/L |
| 1-Napthylamine | <20. | µg/L |
| 5-Nitro-o-toluidine | <10. | µg/L |
| n-Nitrosodibutylamine | <10. | µg/L |
| n-Nitrosomethylethylamine | <10. | µg/L |
| n-Nitrosopiperidine | <10. | µg/L |
| n-Nitrosopyrrolidine | <10. | µg/L |
| Pentachlorobenzene | <10. | µg/L |
| Pentachloronitrobenzene | <10. | µg/L |
| Phenacetin | <10. | µg/L |
| 1,4-Phenylenediamine | <20. | µg/L |
| Pronamide | <10. | µg/L |
| 1,2,4,5-Tetrachlorobenzene | <10. | µg/L |
| 2,3,4,6-Tetrachlorophenol | <10. | µg/L |
| o-Toluidine | <10. | µg/L |

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QUALITY CONTROL REPORT
(Instrumental & Blank Parameters)
Method 8270

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CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8270

Samples Affected: 01-07151-1, 01-07151-4 - 01-07151-7

| Constituents | Method Blank Readings | Units |
|---|---|---|
| 0,0,0-Triethyl phosphorothioate | <10. | µg/L |
| 1,3,5-Trinitrobenzene | <10. | µg/L |

Quality Control Officer

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B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)
Method 8270

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
RANDY BAUER

Date of Report: 07/20/2001
Sample Matrix: Sewer Effluent
QC Batch ID: 200107151-1*8270

Samples Affected: 01-07151-1, 01-07151-4 - 01-07151-7

| Constituents | QC Sample ID | Sample Result | MS Result | MSD Result | MS Spike Level | MSD Spike Level | Units | Spike R.P.D. | Precision Control Limits | MS % Rec | MSD % Rec | Accuracy Control Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | SDI1-PB1-06-29 | < 2. | 69.01 | 67.20 | 80.00 | 80.00 | µg/L | 3. | 14 | 86. | 84. | 62 - 116 |
| 1,4-Dichlorobenzene | SDI1-PB1-06-29 | < 2. | 67.75 | 66.32 | 80.00 | 80.00 | µg/L | 2. | 19 | 85. | 83. | 56 - 116 |
| 2,4-Dinitrotoluene | SDI1-PB1-06-29 | < 2. | 72.76 | 71.41 | 80.00 | 80.00 | µg/L | 2. | 14 | 91. | 89. | 67 - 126 |
| Hexachlorobenzene | SDI1-PB1-06-29 | < 2. | 67.25 | 65.81 | 80.00 | 80.00 | µg/L | 2. | 10 | 84. | 82. | 59 - 137 |
| Hexachlorobutadiene | SDI1-PB1-06-29 | < 2. | 57.64 | 57.15 | 80.00 | 80.00 | µg/L | 1. | 18 | 72. | 71. | 38 - 117 |
| Hexachloroethane | SDI1-PB1-06-29 | < 2. | 66.45 | 65.67 | 80.00 | 80.00 | µg/L | 1. | 25 | 83. | 82. | 44 - 127 |
| Nitrobenzene | SDI1-PB1-06-29 | < 2. | 81.56 | 80.25 | 80.00 | 80.00 | µg/L | 2. | 16 | 102. | 100. | 67 - 111 |
| N-Nitrosodi-n-propylamine | SDI1-PB1-06-29 | < 2. | 73.21 | 73.95 | 80.00 | 80.00 | µg/L | 1. | 15 | 92. | 92. | 51 - 123 |
| Pyrene | SDI1-PB1-06-29 | < 2. | 73.69 | 69.01 | 80.00 | 80.00 | µg/L | 7. | 12 | 92. | 86. | 31 - 151 |
| 1,2,4-Trichlorobenzene | SDI1-PB1-06-29 | < 2. | 66.66 | 66.64 | 80.00 | 80.00 | µg/L | 0. | 18 | 83. | 83. | 51 - 119 |
| 4-Chloro-3-methylphenol | SDI1-PB1-06-29 | < 5. | 81.56 | 80.86 | 80.00 | 80.00 | µg/L | 1. | 13 | 102. | 101. | 53 - 134 |
| 2-Chlorophenol | SDI1-PB1-06-29 | < 2. | 84.87 | 83.63 | 80.00 | 80.00 | µg/L | 1. | 15 | 106. | 105. | 54 - 123 |
| 2-Methylphenol | SDI1-PB1-06-29 | < 2. | 79.29 | 78.09 | 80.00 | 80.00 | µg/L | 2. | 12 | 99. | 98. | 55 - 113 |
| 3- & 4-Methylphenol | SDI1-PB1-06-29 | < 2. | 65.57 | 64.06 | 80.00 | 80.00 | µg/L | 2. | 14 | 82. | 80. | 43 - 110 |
| 4-Nitrophenol | SDI1-PB1-06-29 | < 2. | 32.29 | 31.88 | 80.00 | 80.00 | µg/L | 1. | 24 | 40. | 40. | 19 - 71 |
| Pentachlorophenol | SDI1-PB1-06-29 | < 10. | 86.24 | 83.67 | 80.00 | 80.00 | µg/L | 3. | 17 | 108. | 105. | 35 - 167 |
| Phenol | SDI1-PB1-06-29 | < 2. | 42.60 | 41.61 | 80.00 | 80.00 | µg/L | 2. | 15 | 53. | 52. | 33 - 59 |
| 2,4,6-Trichlorophenol | SDI1-PB1-06-29 | < 5. | 79.05 | 77.09 | 80.00 | 80.00 | µg/L | 3. | 14 | 99. | 96. | 42 - 134 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

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