



Date of Report: 07/15/2015

Randy Horne

Naftex Operating Company

P.O. Box 308

Edison, CA 93320

Client Project: [none]

BCL Project: Produced Water Pond Testing

BCL Work Order: 1510325

Invoice ID: B203616, B208206

Enclosed are the results of analyses for samples received by the laboratory on 4/30/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Kerrie Vaughan
Client Services

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Case Narratives

Case Narrative for Work Order 1510325

1510325-02:

No sample available for testing.

Note:

Due to a laboratory oversight nitrate sample was analyzed three days outside of respective holding time requirement. A sample for various analyses that included nitrate was collected on April 30, 2015 and received by the laboratory on the same day. However, the sample was not recorded for nitrate testing and subsequently did not get analyzed within the 48 hour nitrate hold time. The sample was analyzed for nitrate along with other anions on May 5, 2015 and was found to be none detected, less than 1 mg/L of nitrate.



Chain of Custody Form

Report To: **Client: Moffex**
Attn: Randy Horne
 Street Address: **PO BOX 308 93308**
 City, State, Zip: **Elisen CA. 93308**
 Phone: **330-2044** Fax:
 Email Address: **r.horne@moffex.com**
 Work Order #: **15-10325**

Project #: _____
 Project Name: _____
 Sampler(s): **R. Ogletree**

| Sample # | Description | Date Sampled | Time Sampled |
|----------|---------------------------|--------------|--------------|
| -1 | Race Track Emergency Sump | 4/30/15 | 10:40 |
| -2 | Clafin Sump | " " " | 11:00 |

Analysis Requested

| | |
|-------------|---|
| TDS, Metals | X |
| Anions | X |
| BTX, PVA | X |
| Radium 226 | X |
| Radium 228 | X |
| GA | X |

| Sample Matrix | Turnaround # of work days | Notes |
|----------------|---------------------------|-------|
| Soil | | |
| Sludge | | |
| Drinking Water | | |
| Ground Water | | |
| Waste Water | | |
| Other | | |

Are there any tests with holding times less than or equal to 48 hours?
 Yes No
 * Standard Turnaround = 10 work days

Comments:

NO Sample

Sample # 2: NO Sample Available - DRY NO Water containers:
 1-LPU, 3-LPW/HNO₃-VOA
 w/HCL + 2-ALAGU

| Global ID (Needed for EDF) | Global ID (Needed for EDT) |
|--|--------------------------------------|
| 1. Relinquished By Rick E Ogletree | 1. Received By [Signature] |
| 2. Relinquished By | 2. Received By |
| 3. Relinquished By | 3. Received By |

EDF Required? Geotracker Yes No
 Send Copy to State of CA? (EDT) Yes No

CHK BY: **DISTRIBUTION**
MM/1
 SUB-OUT

Billing: Same as above

Client: _____
 Address: _____
 City: _____ State _____ Zip _____
 Attn: _____
 PO#: _____

| Date | Time |
|---------|-------|
| 4/30/15 | 12:52 |
| 4/30/15 | 12:52 |
| 4/30/15 | 12:52 |

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 15-10325

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received
 YES NO

Emissivity: 0.95 Container: PE Thermometer ID: TH208 Date/Time: 4/30/15 12:52
 Temperature: (A) 2.0 °C / (C) 2.1 °C Analyst Init: VMB

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|------------------------------|----------------|----|---|---|---|---|---|---|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT GENERAL MINERAL/ GENERAL | | | | | | | | | | |
| PT PE UNPRESERVED | P | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | EEG | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT TOX | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | ABC | | | | | | | | | |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz Amber EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT AMBER | X32 | HI | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| Summa Canister | | | | | | | | | | |

Comments: _____
 Sample Numbering Completed By: VY Date/Time: 4-30-15 1305 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
 A = Actual / C = Corrected



Assigned to: RD

Field Service
Sampling Request Form

Today's Date: 4/30/15 Project Name _____

Company: Naftex Office #: _____

Address: _____ Cell #: _____

Contact: Randy Horne Completed by: R. Ogletree

() Sample P/U pickup () Bottle D/O drop off () Pick up & Drop off Sampling

Date Needed: _____ Sample will be ready by: _____ Office closes at : _____

Number of coolers client will have _____

Pick up at site ()
Pick up at office () (above address)

Short holding times or Rushes: _____

Information: Sumps

Quantity of Samples: 2 (1 - was dry no sample)

Matrix: AG

Supplies Needed: 3-1 LP w/HNO3, 2-LAGU, 1-LPU, 3 VOA's w/HCL

Analysis: _____

BILLING:

Billing Charges for Courier/Field Time:

Time: 2.25

Bottle order Delivery: _____

Miles: 33

Flat Rate: _____

Equipment: _____

Return with Chain of Custody for billing purposes.

Field Service Request form 1.doc



Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|------------|---------------------------|---------------------------|-----------------------|------------------|
| 1510325-01 | COC Number: | --- | Receive Date: | 04/30/2015 12:52 |
| | Project Number: | --- | Sampling Date: | 04/30/2015 10:40 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | Race Track Emergency Sump | Lab Matrix: | Water |
| | Sampled By: | Rick Ogletree | Sample Type: | Water |
| 1510325-02 | COC Number: | --- | Receive Date: | 04/30/2015 12:52 |
| | Project Number: | --- | Sampling Date: | 04/30/2015 11:00 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | Clafin Sump | Lab Matrix: | Water |
| | Sampled By: | Rick Ogletree | Sample Type: | Water |

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Case Narrative, work order 1510325

On May 30, 2015 BC Laboratories, Inc. attempted to collect water samples for miscellaneous testing as per **CALIFORNIA WATER CODE DIRECTIVE PURSUANT TO SECTION 13267** at the following locations:

Naftex Operating Company; Race Track Emergency Sump (1510325-01)

Naftex Operating Company; Claflin Sump (1510325-02)

Aqueous samples were obtained from Race Track Emergency Sump with no problems noted.

Claflin Sump was dry and subsequently did not have water available for collection and testing.

Sampling Technique:

Samples were collected from surface impoundments using a dipper equipped with a 15'-20' extension pole. The dipper consisted of a glass beaker attached to a 15'-20' pole. The beaker was carefully submerged below the surface while orienting beaker on its side. Once filled, the beaker was rotated up then slowly brought to surface. The sample was dispensed into individual containers appropriately preserved and placed on ice and delivered to laboratory for analyses.

Regards,

Robert D. Cortez

BC Laboratories, Inc.

Petroleum/Env. Department Manager

(661) 327-4911 Ext. 243 office

(661) 378-4465 cell

robert.cortez@bclabs.com



Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1510325-01 | Client Sample Name: Race Track Emergency Sump, 4/30/2015 10:40:00AM, Rick Ogletree |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------------|--------|-------|----------------------|-------|-----------|---------|-----------|-------|
| Benzene | ND | ug/L | 0.50 | 0.083 | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | 0.098 | EPA-8260B | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | 0.093 | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | 0.36 | EPA-8260B | ND | | 1 |
| p- & m-Xylenes | ND | ug/L | 0.50 | 0.28 | EPA-8260B | ND | | 1 |
| o-Xylene | ND | ug/L | 0.50 | 0.082 | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 94.9 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 86.3 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 05/01/15 | 05/01/15 13:07 | SE1 | MS-V10 | 1 | BYD2654 |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

| | |
|----------------------------------|---|
| BCL Sample ID: 1510325-01 | Client Sample Name: Race Track Emergency Sump, 4/30/2015 10:40:00AM, Rick Ogletree |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|------------------------------|--------|-------|----------------------|-------|---------------|---------|-----------|-------|
| Acenaphthene | ND | ug/L | 0.10 | 0.055 | EPA-8270C-SIM | ND | | 1 |
| Acenaphthylene | ND | ug/L | 0.10 | 0.047 | EPA-8270C-SIM | ND | | 1 |
| Anthracene | ND | ug/L | 0.10 | 0.017 | EPA-8270C-SIM | ND | | 1 |
| Benzo[a]anthracene | ND | ug/L | 0.10 | 0.026 | EPA-8270C-SIM | ND | | 1 |
| Benzo[b]fluoranthene | ND | ug/L | 0.10 | 0.040 | EPA-8270C-SIM | ND | | 1 |
| Benzo[k]fluoranthene | ND | ug/L | 0.10 | 0.051 | EPA-8270C-SIM | ND | | 1 |
| Benzo[a]pyrene | ND | ug/L | 0.10 | 0.026 | EPA-8270C-SIM | ND | | 1 |
| Benzo[g,h,i]perylene | ND | ug/L | 0.10 | 0.043 | EPA-8270C-SIM | ND | | 1 |
| Chrysene | ND | ug/L | 0.10 | 0.022 | EPA-8270C-SIM | ND | | 1 |
| Dibenzo[a,h]anthracene | ND | ug/L | 0.10 | 0.044 | EPA-8270C-SIM | ND | | 1 |
| Fluoranthene | ND | ug/L | 0.10 | 0.012 | EPA-8270C-SIM | ND | | 1 |
| Fluorene | ND | ug/L | 0.10 | 0.030 | EPA-8270C-SIM | ND | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | ug/L | 0.10 | 0.044 | EPA-8270C-SIM | ND | | 1 |
| Naphthalene | ND | ug/L | 0.10 | 0.077 | EPA-8270C-SIM | ND | | 1 |
| Phenanthrene | ND | ug/L | 0.10 | 0.022 | EPA-8270C-SIM | ND | | 1 |
| Pyrene | ND | ug/L | 0.10 | 0.022 | EPA-8270C-SIM | ND | | 1 |
| Nitrobenzene-d5 (Surrogate) | 114 | % | 40 - 130 (LCL - UCL) | | EPA-8270C-SIM | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 61.8 | % | 50 - 120 (LCL - UCL) | | EPA-8270C-SIM | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 51.8 | % | 40 - 130 (LCL - UCL) | | EPA-8270C-SIM | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C-SIM | 05/01/15 | 05/05/15 20:16 | MK1 | MS-B4 | 1 | BYE0254 |

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P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1510325-01 | Client Sample Name: Race Track Emergency Sump, 4/30/2015 10:40:00AM, Rick Ogletree |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-------------------------|--------|-------|----------------------|-----|---------------|---------|-----------|-------|
| TPH - Crude Oil | 11000 | ug/L | 1000 | 280 | EPA-8015B/FFP | ND | A01 | 1 |
| Tetracosane (Surrogate) | 59.2 | % | 37 - 134 (LCL - UCL) | | EPA-8015B/FFP | | A01 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 05/01/15 | 05/05/15 06:04 | MWB | GC-13 | 2 | BYE0253 |

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P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Water Analysis (General Chemistry)

| BCL Sample ID: 1510325-01 | | Client Sample Name: Race Track Emergency Sump, 4/30/2015 10:40:00AM, Rick Ogletree | | | | | | |
|---------------------------------|--------|--|-------|-------|-----------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| Total Calcium | 18 | mg/L | 0.10 | 0.015 | EPA-6010B | 0.032 | | 1 |
| Total Magnesium | 1.7 | mg/L | 0.050 | 0.019 | EPA-6010B | ND | | 1 |
| Total Sodium | 330 | mg/L | 0.50 | 0.051 | EPA-6010B | ND | | 1 |
| Total Potassium | 17 | mg/L | 1.0 | 0.13 | EPA-6010B | ND | | 1 |
| Bicarbonate Alkalinity as CaCO3 | 310 | mg/L | 8.2 | 8.2 | EPA-310.1 | ND | | 2 |
| Carbonate Alkalinity as CaCO3 | 15 | mg/L | 8.2 | 8.2 | EPA-310.1 | ND | | 2 |
| Bromide | 1.3 | mg/L | 0.20 | 0.070 | EPA-300.0 | ND | A07 | 3 |
| Chloride | 310 | mg/L | 1.0 | 0.12 | EPA-300.0 | ND | A07 | 3 |
| Nitrate as NO3 | ND | mg/L | 0.88 | 0.16 | EPA-300.0 | ND | S05 | 3 |
| Sulfate | 8.9 | mg/L | 2.0 | 0.20 | EPA-300.0 | ND | A07 | 3 |
| Total Dissolved Solids @ 180 C | 1100 | mg/L | 50 | 50 | EPA-160.1 | ND | | 4 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 05/05/15 | 05/06/15 | 09:05 | ARD | PE-OP3 | 1 | BYE0329 |
| 2 | EPA-310.1 | 05/05/15 | 05/05/15 | 08:16 | RML | MET-1 | 2 | BYE0293 |
| 3 | EPA-300.0 | 05/05/15 | 05/05/15 | 19:29 | BMW | IC2 | 2 | BYE0395 |
| 4 | EPA-160.1 | 05/04/15 | 05/04/15 | 13:00 | CAD | MANUAL | 5 | BYE0154 |

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Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1510325-01 | Client Sample Name: Race Track Emergency Sump, 4/30/2015 10:40:00AM, Rick Ogletree |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|----------------------------------|---------------|--------------|--------------|---------------|------------------|-------------|-----------|-------|
| Hexavalent Chromium | ND | ug/L | 2.0 | 0.70 | EPA-7196 | | | 1 |
| Total Antimony | ND | mg/L | 0.10 | 0.0085 | EPA-6010B | 500 | | 2 |
| Total Arsenic | 0.36 | mg/L | 0.050 | 0.0078 | EPA-6010B | 500 | | 2 |
| Total Barium | 0.10 | mg/L | 0.010 | 0.0035 | EPA-6010B | 10000 | | 2 |
| Total Beryllium | ND | mg/L | 0.010 | 0.00050 | EPA-6010B | 75 | | 2 |
| Total Boron | 1.9 | mg/L | 0.10 | 0.013 | EPA-6010B | | | 2 |
| Total Cadmium | ND | mg/L | 0.010 | 0.0011 | EPA-6010B | 100 | | 2 |
| Total Chromium | ND | mg/L | 0.010 | 0.0011 | EPA-6010B | 2500 | | 2 |
| Total Cobalt | ND | mg/L | 0.050 | 0.0013 | EPA-6010B | 8000 | | 2 |
| Total Copper | 0.0021 | mg/L | 0.010 | 0.0011 | EPA-6010B | 2500 | J | 2 |
| Total Iron | 0.89 | mg/L | 0.050 | 0.030 | EPA-6010B | | | 2 |
| Total Lead | ND | mg/L | 0.050 | 0.0040 | EPA-6010B | 1000 | | 2 |
| Total Lithium | 0.20 | mg/L | 0.020 | 0.0062 | EPA-6010B | | | 2 |
| Total Manganese | 0.13 | mg/L | 0.010 | 0.0040 | EPA-6010B | | | 2 |
| Total Mercury | ND | mg/L | 0.00020 | 0.000033 | EPA-7470A | 20 | | 3 |
| Total Molybdenum | 0.029 | mg/L | 0.050 | 0.0012 | EPA-6010B | 3500 | J | 2 |
| Total Nickel | 0.011 | mg/L | 0.010 | 0.0020 | EPA-6010B | 2000 | | 2 |
| Total Selenium | ND | mg/L | 0.10 | 0.015 | EPA-6010B | 100 | | 2 |
| Total Silver | ND | mg/L | 0.010 | 0.0019 | EPA-6010B | 500 | | 2 |
| Total Strontium | 0.46 | mg/L | 0.010 | 0.0010 | EPA-6010B | | | 2 |
| Total Thallium | ND | mg/L | 0.10 | 0.024 | EPA-6010B | 700 | | 2 |
| Total Vanadium | ND | mg/L | 0.010 | 0.0022 | EPA-6010B | 2400 | | 2 |
| Total Zinc | ND | mg/L | 0.050 | 0.0023 | EPA-6010B | 5000 | | 2 |
| Total Recoverable Uranium | 0.11 | pCi/L | 0.67 | 0.067 | EPA-200.8 | | J | 4 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-7196 | 05/01/15 | 05/01/15 09:30 | TDC | KONE-1 | 1 | BYE0240 |
| 2 | EPA-6010B | 05/05/15 | 05/06/15 09:05 | ARD | PE-OP3 | 1 | BYE0329 |
| 3 | EPA-7470A | 05/06/15 | 05/08/15 13:58 | MEV | CETAC1 | 1 | BYE0426 |
| 4 | EPA-200.8 | 05/07/15 | 05/09/15 01:33 | EAR | PE-EL2 | 1 | BYE0570 |

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Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Water Analysis (General Chemistry)

| | |
|----------------------------------|--|
| BCL Sample ID: 1510325-02 | Client Sample Name: Claflin Sump, 4/30/2015 11:00:00AM, Rick Ogletree |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-------------|-----------|-------|-----|-----|--------|---------|-----------|-------|
| No Sample | No Sample | Feet | | | BC | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|--------|-----------|----------------|---------|------------|----------|-------------|
| 1 | BC | 04/30/15 | 04/30/15 11:00 | REO | Inst | 1 | BYE0083 |

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Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--|---------------------|-------------|----------|-----------------------------|-------|-----------|
| QC Batch ID: BYD2654 | | | | | | |
| Benzene | BYD2654-BLK1 | ND | ug/L | 0.50 | 0.083 | |
| Ethylbenzene | BYD2654-BLK1 | ND | ug/L | 0.50 | 0.098 | |
| Toluene | BYD2654-BLK1 | ND | ug/L | 0.50 | 0.093 | |
| Total Xylenes | BYD2654-BLK1 | ND | ug/L | 1.0 | 0.36 | |
| p- & m-Xylenes | BYD2654-BLK1 | ND | ug/L | 0.50 | 0.28 | |
| o-Xylene | BYD2654-BLK1 | ND | ug/L | 0.50 | 0.082 | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYD2654-BLK1 | 96.4 | % | 75 - 125 (LCL - UCL) | | |
| Toluene-d8 (Surrogate) | BYD2654-BLK1 | 102 | % | 80 - 120 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BYD2654-BLK1 | 91.8 | % | 80 - 120 (LCL - UCL) | | |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab | Quals |
|-----------------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|-------|
| | | | | | | | | Percent Recovery | RPD | | |
| QC Batch ID: BYD2654 | | | | | | | | | | | |
| Benzene | BYD2654-BS1 | LCS | 28.700 | 25.000 | ug/L | 115 | | 70 - 130 | | | |
| Toluene | BYD2654-BS1 | LCS | 27.960 | 25.000 | ug/L | 112 | | 70 - 130 | | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYD2654-BS1 | LCS | 9.9500 | 10.000 | ug/L | 99.5 | | 75 - 125 | | | |
| Toluene-d8 (Surrogate) | BYD2654-BS1 | LCS | 9.9800 | 10.000 | ug/L | 99.8 | | 80 - 120 | | | |
| 4-Bromofluorobenzene (Surrogate) | BYD2654-BS1 | LCS | 9.7100 | 10.000 | ug/L | 97.1 | | 80 - 120 | | | |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

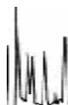
Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab Quals |
|-----------------------------------|------|-----------------------|------------------|--------|----------------|-------|-----|---------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYD2654 | | Used client sample: N | | | | | | | | |
| Benzene | MS | 1506890-84 | ND | 28.220 | 25.000 | ug/L | | 113 | | 70 - 130 |
| | MSD | 1506890-84 | ND | 27.170 | 25.000 | ug/L | 3.8 | 109 | 20 | 70 - 130 |
| Toluene | MS | 1506890-84 | ND | 27.660 | 25.000 | ug/L | | 111 | | 70 - 130 |
| | MSD | 1506890-84 | ND | 27.760 | 25.000 | ug/L | 0.4 | 111 | 20 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1506890-84 | ND | 9.6300 | 10.000 | ug/L | | 96.3 | | 75 - 125 |
| | MSD | 1506890-84 | ND | 9.5100 | 10.000 | ug/L | 1.3 | 95.1 | | 75 - 125 |
| Toluene-d8 (Surrogate) | MS | 1506890-84 | ND | 10.030 | 10.000 | ug/L | | 100 | | 80 - 120 |
| | MSD | 1506890-84 | ND | 9.8400 | 10.000 | ug/L | 1.9 | 98.4 | | 80 - 120 |
| 4-Bromofluorobenzene (Surrogate) | MS | 1506890-84 | ND | 9.2400 | 10.000 | ug/L | | 92.4 | | 80 - 120 |
| | MSD | 1506890-84 | ND | 9.5400 | 10.000 | ug/L | 3.2 | 95.4 | | 80 - 120 |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-------------------------------------|---------------------|-------------|----------|-----------------------------|-------|-----------|
| QC Batch ID: BYE0254 | | | | | | |
| Acenaphthene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.055 | |
| Acenaphthylene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.047 | |
| Anthracene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.017 | |
| Benzo[a]anthracene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.026 | |
| Benzo[b]fluoranthene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.040 | |
| Benzo[k]fluoranthene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.051 | |
| Benzo[a]pyrene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.026 | |
| Benzo[g,h,i]perylene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.043 | |
| Chrysene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.022 | |
| Dibenzo[a,h]anthracene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.044 | |
| Fluoranthene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.012 | |
| Fluorene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.030 | |
| Indeno[1,2,3-cd]pyrene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.044 | |
| Naphthalene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.077 | |
| Phenanthrene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.022 | |
| Pyrene | BYE0254-BLK1 | ND | ug/L | 0.10 | 0.022 | |
| Nitrobenzene-d5 (Surrogate) | BYE0254-BLK1 | 110 | % | 40 - 130 (LCL - UCL) | | |
| 2-Fluorobiphenyl (Surrogate) | BYE0254-BLK1 | 73.8 | % | 50 - 120 (LCL - UCL) | | |
| p-Terphenyl-d14 (Surrogate) | BYE0254-BLK1 | 65.3 | % | 40 - 130 (LCL - UCL) | | |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|------------------------------|--------------|------|---------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYE0254 | | | | | | | | | | |
| Acenaphthene | BYE0254-BS1 | LCS | 0.78839 | 1.0000 | ug/L | 78.8 | | 60 - 110 | | |
| Acenaphthylene | BYE0254-BS1 | LCS | 1.0171 | 1.0000 | ug/L | 102 | | 60 - 120 | | |
| Anthracene | BYE0254-BS1 | LCS | 1.0114 | 1.0000 | ug/L | 101 | | 60 - 130 | | |
| Benzo[a]anthracene | BYE0254-BS1 | LCS | 0.95621 | 1.0000 | ug/L | 95.6 | | 60 - 130 | | |
| Benzo[b]fluoranthene | BYE0254-BS1 | LCS | 0.69298 | 1.0000 | ug/L | 69.3 | | 50 - 130 | | |
| Benzo[k]fluoranthene | BYE0254-BS1 | LCS | 0.70878 | 1.0000 | ug/L | 70.9 | | 60 - 120 | | |
| Benzo[a]pyrene | BYE0254-BS1 | LCS | 0.84080 | 1.0000 | ug/L | 84.1 | | 60 - 120 | | |
| Benzo[g,h,i]perylene | BYE0254-BS1 | LCS | 0.60188 | 1.0000 | ug/L | 60.2 | | 40 - 120 | | |
| Chrysene | BYE0254-BS1 | LCS | 0.78837 | 1.0000 | ug/L | 78.8 | | 60 - 110 | | |
| Dibenzo[a,h]anthracene | BYE0254-BS1 | LCS | 0.44577 | 1.0000 | ug/L | 44.6 | | 40 - 120 | | |
| Fluoranthene | BYE0254-BS1 | LCS | 0.99143 | 1.0000 | ug/L | 99.1 | | 60 - 120 | | |
| Fluorene | BYE0254-BS1 | LCS | 0.90648 | 1.0000 | ug/L | 90.6 | | 60 - 120 | | |
| Indeno[1,2,3-cd]pyrene | BYE0254-BS1 | LCS | 0.69177 | 1.0000 | ug/L | 69.2 | | 40 - 130 | | |
| Naphthalene | BYE0254-BS1 | LCS | 0.76160 | 1.0000 | ug/L | 76.2 | | 60 - 110 | | |
| Phenanthrene | BYE0254-BS1 | LCS | 0.77210 | 1.0000 | ug/L | 77.2 | | 60 - 120 | | |
| Pyrene | BYE0254-BS1 | LCS | 0.92557 | 1.0000 | ug/L | 92.6 | | 50 - 125 | | |
| Nitrobenzene-d5 (Surrogate) | BYE0254-BS1 | LCS | 4.4235 | 4.0000 | ug/L | 111 | | 40 - 130 | | |
| 2-Fluorobiphenyl (Surrogate) | BYE0254-BS1 | LCS | 2.9588 | 4.0000 | ug/L | 74.0 | | 50 - 120 | | |
| p-Terphenyl-d14 (Surrogate) | BYE0254-BS1 | LCS | 2.4835 | 4.0000 | ug/L | 62.1 | | 40 - 130 | | |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | |
|------------------------------|------|-----------------------|---------------|---------|-------------|-------|------|------------------|-----|------------------|
| | | | | | | | | Percent Recovery | RPD | Percent Recovery |
| QC Batch ID: BYE0254 | | Used client sample: N | | | | | | | | |
| Acenaphthene | MS | 1506890-81 | ND | 0.73304 | 1.0000 | ug/L | | 73.3 | | 60 - 110 |
| | MSD | 1506890-81 | ND | 0.85642 | 1.0000 | ug/L | 15.5 | 85.6 | 30 | 60 - 110 |
| Acenaphthylene | MS | 1506890-81 | ND | 0.96242 | 1.0000 | ug/L | | 96.2 | | 60 - 120 |
| | MSD | 1506890-81 | ND | 1.0996 | 1.0000 | ug/L | 13.3 | 110 | 30 | 60 - 120 |
| Anthracene | MS | 1506890-81 | ND | 0.94181 | 1.0000 | ug/L | | 94.2 | | 60 - 130 |
| | MSD | 1506890-81 | ND | 1.0992 | 1.0000 | ug/L | 15.4 | 110 | 30 | 60 - 130 |
| Benzo[a]anthracene | MS | 1506890-81 | ND | 0.86025 | 1.0000 | ug/L | | 86.0 | | 60 - 120 |
| | MSD | 1506890-81 | ND | 1.0932 | 1.0000 | ug/L | 23.8 | 109 | 30 | 60 - 120 |
| Benzo[b]fluoranthene | MS | 1506890-81 | ND | 0.62561 | 1.0000 | ug/L | | 62.6 | | 50 - 130 |
| | MSD | 1506890-81 | ND | 0.73629 | 1.0000 | ug/L | 16.3 | 73.6 | 30 | 50 - 130 |
| Benzo[k]fluoranthene | MS | 1506890-81 | ND | 0.72139 | 1.0000 | ug/L | | 72.1 | | 60 - 120 |
| | MSD | 1506890-81 | ND | 0.74584 | 1.0000 | ug/L | 3.3 | 74.6 | 30 | 60 - 120 |
| Benzo[a]pyrene | MS | 1506890-81 | ND | 0.75587 | 1.0000 | ug/L | | 75.6 | | 60 - 120 |
| | MSD | 1506890-81 | ND | 0.92406 | 1.0000 | ug/L | 20.0 | 92.4 | 30 | 60 - 120 |
| Benzo[g,h,i]perylene | MS | 1506890-81 | ND | 0.67880 | 1.0000 | ug/L | | 67.9 | | 40 - 120 |
| | MSD | 1506890-81 | ND | 0.85832 | 1.0000 | ug/L | 23.4 | 85.8 | 30 | 40 - 120 |
| Chrysene | MS | 1506890-81 | ND | 0.74874 | 1.0000 | ug/L | | 74.9 | | 60 - 110 |
| | MSD | 1506890-81 | ND | 0.83332 | 1.0000 | ug/L | 10.7 | 83.3 | 30 | 60 - 110 |
| Dibenzo[a,h]anthracene | MS | 1506890-81 | ND | 0.59020 | 1.0000 | ug/L | | 59.0 | | 40 - 120 |
| | MSD | 1506890-81 | ND | 0.65560 | 1.0000 | ug/L | 10.5 | 65.6 | 30 | 40 - 120 |
| Fluoranthene | MS | 1506890-81 | ND | 0.89645 | 1.0000 | ug/L | | 89.6 | | 60 - 120 |
| | MSD | 1506890-81 | ND | 1.1415 | 1.0000 | ug/L | 24.0 | 114 | 30 | 60 - 120 |
| Fluorene | MS | 1506890-81 | ND | 0.85030 | 1.0000 | ug/L | | 85.0 | | 60 - 120 |
| | MSD | 1506890-81 | ND | 1.0300 | 1.0000 | ug/L | 19.1 | 103 | 30 | 60 - 120 |
| Indeno[1,2,3-cd]pyrene | MS | 1506890-81 | ND | 0.71005 | 1.0000 | ug/L | | 71.0 | | 40 - 130 |
| | MSD | 1506890-81 | ND | 0.92615 | 1.0000 | ug/L | 26.4 | 92.6 | 30 | 40 - 130 |
| Naphthalene | MS | 1506890-81 | ND | 0.70865 | 1.0000 | ug/L | | 70.9 | | 60 - 110 |
| | MSD | 1506890-81 | ND | 0.81072 | 1.0000 | ug/L | 13.4 | 81.1 | 30 | 60 - 110 |
| Phenanthrene | MS | 1506890-81 | ND | 0.72502 | 1.0000 | ug/L | | 72.5 | | 60 - 120 |
| | MSD | 1506890-81 | ND | 0.84045 | 1.0000 | ug/L | 14.7 | 84.0 | 30 | 60 - 120 |
| Pyrene | MS | 1506890-81 | ND | 0.92617 | 1.0000 | ug/L | | 92.6 | | 50 - 125 |
| | MSD | 1506890-81 | ND | 0.98552 | 1.0000 | ug/L | 6.2 | 98.6 | 30 | 50 - 125 |
| Nitrobenzene-d5 (Surrogate) | MS | 1506890-81 | ND | 4.2329 | 4.0000 | ug/L | | 106 | | 40 - 130 |
| | MSD | 1506890-81 | ND | 4.7659 | 4.0000 | ug/L | 11.8 | 119 | | 40 - 130 |
| 2-Fluorobiphenyl (Surrogate) | MS | 1506890-81 | ND | 2.7365 | 4.0000 | ug/L | | 68.4 | | 50 - 120 |
| | MSD | 1506890-81 | ND | 3.0758 | 4.0000 | ug/L | 11.7 | 76.9 | | 50 - 120 |

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Naftex Operating Company
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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits | | Lab Quals |
|-----------------------------|------|-----------------------|------------------|--------|----------------|-------|-----|---------------------|----------------|---------------------|--------------|
| | | | | | | | | | RPD | Percent Recovery | |
| QC Batch ID: BYE0254 | | Used client sample: N | | | | | | | | | |
| p-Terphenyl-d14 (Surrogate) | MS | 1506890-81 | ND | 2.5221 | 4.0000 | ug/L | | 63.1 | | 40 - 130 | |
| | MSD | 1506890-81 | ND | 2.6058 | 4.0000 | ug/L | 3.3 | 65.1 | | 40 - 130 | |

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Naftex Operating Company
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Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--------------------------------|---------------------|-------------|----------|-----------------------------|-----|-----------|
| QC Batch ID: BYE0253 | | | | | | |
| TPH - Diesel (FFP) | BYE0253-BLK1 | ND | ug/L | 200 | 34 | |
| TPH - Crude Oil | BYE0253-BLK1 | ND | ug/L | 500 | 140 | |
| Tetracosane (Surrogate) | BYE0253-BLK1 | 64.4 | % | 37 - 134 (LCL - UCL) | | |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYE0253 | | | | | | | | | | |
| TPH - Diesel (FFP) | BYE0253-BS1 | LCS | 2232.3 | 2500.0 | ug/L | 89.3 | | 52 | 128 | |
| Tetracosane (Surrogate) | BYE0253-BS1 | LCS | 87.040 | 100.00 | ug/L | 87.0 | | 37 | 134 | |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent | | Lab Quals |
|-----------------------------|------|-----------------------|------------------|--------|----------------|-------|-----|----------|-----|--------------|
| | | | | | | | | Recovery | RPD | |
| QC Batch ID: BYE0253 | | Used client sample: N | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1506890-82 | ND | 1932.4 | 2500.0 | ug/L | | 77.3 | | 50 - 127 |
| | MSD | 1506890-82 | ND | 1918.4 | 2500.0 | ug/L | 0.7 | 76.7 | 24 | 50 - 127 |
| Tetracosane (Surrogate) | MS | 1506890-82 | ND | 78.170 | 100.00 | ug/L | | 78.2 | | 37 - 134 |
| | MSD | 1506890-82 | ND | 74.755 | 100.00 | ug/L | 4.5 | 74.8 | | 37 - 134 |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---------------------------------|--------------|-----------|-------|-------|-------|-----------|
| QC Batch ID: BYE0154 | | | | | | |
| Total Dissolved Solids @ 180 C | BYE0154-BLK1 | ND | mg/L | 6.7 | 6.7 | |
| QC Batch ID: BYE0293 | | | | | | |
| Bicarbonate Alkalinity as CaCO3 | BYE0293-BLK1 | ND | mg/L | 4.1 | 4.1 | |
| Carbonate Alkalinity as CaCO3 | BYE0293-BLK1 | ND | mg/L | 4.1 | 4.1 | |
| QC Batch ID: BYE0329 | | | | | | |
| Total Calcium | BYE0329-BLK1 | 0.031791 | mg/L | 0.10 | 0.015 | J |
| Total Magnesium | BYE0329-BLK1 | ND | mg/L | 0.050 | 0.019 | |
| Total Sodium | BYE0329-BLK1 | ND | mg/L | 0.50 | 0.051 | |
| Total Potassium | BYE0329-BLK1 | ND | mg/L | 1.0 | 0.13 | |
| QC Batch ID: BYE0395 | | | | | | |
| Bromide | BYE0395-BLK1 | ND | mg/L | 0.10 | 0.035 | |
| Chloride | BYE0395-BLK1 | ND | mg/L | 0.50 | 0.061 | |
| Nitrate as NO3 | BYE0395-BLK1 | ND | mg/L | 0.44 | 0.078 | |
| Sulfate | BYE0395-BLK1 | ND | mg/L | 1.0 | 0.10 | |

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Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab Quals |
|--------------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYE0154 | | | | | | | | | | |
| Total Dissolved Solids @ 180 C | BYE0154-BS1 | LCS | 560.00 | 586.00 | mg/L | 95.6 | | 90 - 110 | | |
| QC Batch ID: BYE0329 | | | | | | | | | | |
| Total Calcium | BYE0329-BS1 | LCS | 11.156 | 10.000 | mg/L | 112 | | 85 - 115 | | |
| Total Magnesium | BYE0329-BS1 | LCS | 10.438 | 10.000 | mg/L | 104 | | 85 - 115 | | |
| Total Sodium | BYE0329-BS1 | LCS | 10.812 | 10.000 | mg/L | 108 | | 85 - 115 | | |
| Total Potassium | BYE0329-BS1 | LCS | 10.690 | 10.000 | mg/L | 107 | | 85 - 115 | | |
| QC Batch ID: BYE0395 | | | | | | | | | | |
| Bromide | BYE0395-BS1 | LCS | 2.0740 | 2.0000 | mg/L | 104 | | 90 - 110 | | |
| Chloride | BYE0395-BS1 | LCS | 50.520 | 50.000 | mg/L | 101 | | 90 - 110 | | |
| Nitrate as NO3 | BYE0395-BS1 | LCS | 22.408 | 22.134 | mg/L | 101 | | 90 - 110 | | |
| Sulfate | BYE0395-BS1 | LCS | 103.04 | 100.00 | mg/L | 103 | | 90 - 110 | | |

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Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC batches BYE0154, BYE0293, BYE0329, and BYE0395.

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Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Metals Analysis

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|---------------------|------------------|-------------|--------------|---------------|-----------|
| QC Batch ID: BYE0240 | | | | | | |
| Hexavalent Chromium | BYE0240-BLK1 | 0.70700 | ug/L | 2.0 | 0.70 | J |
| QC Batch ID: BYE0329 | | | | | | |
| Total Antimony | BYE0329-BLK1 | ND | mg/L | 0.10 | 0.0085 | |
| Total Arsenic | BYE0329-BLK1 | ND | mg/L | 0.050 | 0.0078 | |
| Total Barium | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.0035 | |
| Total Beryllium | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.00050 | |
| Total Boron | BYE0329-BLK1 | 0.037576 | mg/L | 0.10 | 0.013 | J |
| Total Cadmium | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.0011 | |
| Total Chromium | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.0011 | |
| Total Cobalt | BYE0329-BLK1 | ND | mg/L | 0.050 | 0.0013 | |
| Total Copper | BYE0329-BLK1 | 0.0013041 | mg/L | 0.010 | 0.0011 | J |
| Total Iron | BYE0329-BLK1 | ND | mg/L | 0.050 | 0.030 | |
| Total Lead | BYE0329-BLK1 | ND | mg/L | 0.050 | 0.0040 | |
| Total Lithium | BYE0329-BLK1 | ND | mg/L | 0.020 | 0.0062 | |
| Total Manganese | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.0040 | |
| Total Molybdenum | BYE0329-BLK1 | ND | mg/L | 0.050 | 0.0012 | |
| Total Nickel | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.0020 | |
| Total Selenium | BYE0329-BLK1 | ND | mg/L | 0.10 | 0.015 | |
| Total Silver | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.0019 | |
| Total Strontium | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.0010 | |
| Total Thallium | BYE0329-BLK1 | ND | mg/L | 0.10 | 0.024 | |
| Total Vanadium | BYE0329-BLK1 | ND | mg/L | 0.010 | 0.0022 | |
| Total Zinc | BYE0329-BLK1 | 0.0047111 | mg/L | 0.050 | 0.0023 | J |
| QC Batch ID: BYE0426 | | | | | | |
| Total Mercury | BYE0426-BLK1 | ND | mg/L | 0.00020 | 0.000033 | |
| QC Batch ID: BYE0570 | | | | | | |
| Total Recoverable Uranium | BYE0570-BLK1 | ND | pCi/L | 0.67 | 0.067 | |

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Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Metals Analysis

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab Quals |
|-----------------------------|--------------|------|-----------|-------------|-------|------------------|-----|------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYE0240 | | | | | | | | | | |
| Hexavalent Chromium | BYE0240-BS1 | LCS | 52.402 | 50.000 | ug/L | 105 | | 85 - 115 | | |
| QC Batch ID: BYE0329 | | | | | | | | | | |
| Total Antimony | BYE0329-BS1 | LCS | 0.41702 | 0.40000 | mg/L | 104 | | 85 - 115 | | |
| Total Arsenic | BYE0329-BS1 | LCS | 0.20354 | 0.20000 | mg/L | 102 | | 85 - 115 | | |
| Total Barium | BYE0329-BS1 | LCS | 0.44544 | 0.40000 | mg/L | 111 | | 85 - 115 | | |
| Total Beryllium | BYE0329-BS1 | LCS | 0.21096 | 0.20000 | mg/L | 105 | | 85 - 115 | | |
| Total Boron | BYE0329-BS1 | LCS | 1.0646 | 1.0000 | mg/L | 106 | | 85 - 115 | | |
| Total Cadmium | BYE0329-BS1 | LCS | 0.20717 | 0.20000 | mg/L | 104 | | 85 - 115 | | |
| Total Chromium | BYE0329-BS1 | LCS | 0.20623 | 0.20000 | mg/L | 103 | | 85 - 115 | | |
| Total Cobalt | BYE0329-BS1 | LCS | 0.21009 | 0.20000 | mg/L | 105 | | 85 - 115 | | |
| Total Copper | BYE0329-BS1 | LCS | 0.39223 | 0.40000 | mg/L | 98.1 | | 85 - 115 | | |
| Total Iron | BYE0329-BS1 | LCS | 1.1224 | 1.0000 | mg/L | 112 | | 85 - 115 | | |
| Total Lead | BYE0329-BS1 | LCS | 0.42736 | 0.40000 | mg/L | 107 | | 85 - 115 | | |
| Total Lithium | BYE0329-BS1 | LCS | 0.22210 | 0.20000 | mg/L | 111 | | 85 - 115 | | |
| Total Manganese | BYE0329-BS1 | LCS | 0.53660 | 0.50000 | mg/L | 107 | | 85 - 115 | | |
| Total Molybdenum | BYE0329-BS1 | LCS | 0.21370 | 0.20000 | mg/L | 107 | | 85 - 115 | | |
| Total Nickel | BYE0329-BS1 | LCS | 0.41999 | 0.40000 | mg/L | 105 | | 85 - 115 | | |
| Total Selenium | BYE0329-BS1 | LCS | 0.20720 | 0.20000 | mg/L | 104 | | 85 - 115 | | |
| Total Silver | BYE0329-BS1 | LCS | 0.099726 | 0.10000 | mg/L | 99.7 | | 85 - 115 | | |
| Total Strontium | BYE0329-BS1 | LCS | 0.54414 | 0.50000 | mg/L | 109 | | 85 - 115 | | |
| Total Thallium | BYE0329-BS1 | LCS | 0.45080 | 0.40000 | mg/L | 113 | | 85 - 115 | | |
| Total Vanadium | BYE0329-BS1 | LCS | 0.20794 | 0.20000 | mg/L | 104 | | 85 - 115 | | |
| Total Zinc | BYE0329-BS1 | LCS | 0.51290 | 0.50000 | mg/L | 103 | | 85 - 115 | | |
| QC Batch ID: BYE0426 | | | | | | | | | | |
| Total Mercury | BYE0426-BS1 | LCS | 0.0010000 | 0.0010000 | mg/L | 100 | | 85 - 115 | | |
| QC Batch ID: BYE0570 | | | | | | | | | | |
| Total Recoverable Uranium | BYE0570-BS1 | LCS | 24.915 | 26.800 | pCi/L | 93.0 | | 85 - 115 | | |

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Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch ID: BYE0240 and BYE0329.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Qualls. Includes sections for QC Batch ID: BYE0329, BYE0426, and BYE0570.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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BSK Associates Fresno
1414 Stanislaus St
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (FAX)

A5E0062
5/12/2015
Invoice: A509659

Kerrie Vaughan
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308

RE: Report for A5E0062 General: Project Manager-Kerrie Vaughan

Dear Kerrie Vaughan,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 5/1/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Kijuana Hartshorn, Project Coordinator

If additional clarification of any information is required, please contact your Project Manager, Stephane Maupas, at (800) 877-8310 or (559) 497-2888 x212.



Accredited in Accordance with NELAP
ORELAP #4021

A5E0062 FINAL 05122015 1428
Printed: 5/12/2015
QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 1 of 8



A5E0062

General: Project Manager-Kerrie Vaughan

Case Narrative

Project and Report Details Invoice Details

Client: BC Laboratories
Report To: Kerrie Vaughan
Project #: 1510325
Received: 5/01/2015 - 15:37
Report Due: 5/14/2015

Invoice To: BC Laboratories
Invoice Attn: Kerrie Vaughan
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 4.0

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

| Recipient(s) | Report Format | CC: |
|----------------|---------------|-----|
| Kerrie Vaughan | FINAL.RPT | |



A5E0062

General: Project Manager-Kerrie Vaughan

1510325

Certificate of Analysis

Sample ID: A5E0062-01
Sampled By: Client
Sample Description: 1510325-01

Sample Date - Time: 04/30/15 - 10:40
Matrix: Water
Sample Type: Grab

**BSK Associates Fresno
Radiological**

| Analyte | Method | Result | Units | Batch | Prepared | Analyzed | Qual |
|------------------------|-----------|--------|-------|---------|----------|----------|------|
| Gross Alpha | EPA 00-02 | ND | pCi/L | A505030 | 05/07/15 | 05/08/15 | |
| 1.65 Sigma Uncertainty | | 0.191 | ± | | | | |
| MDA95 | | 2.15 | pCi/L | | | | |

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QA-RP-0001-10 Final.rpt

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Page 3 of 8



A5E0062

General: Project Manager-Kerrie Vaughan

BSK Associates Fresno Radiological Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Date Analyzed | Qual |
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|
|---------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|---------------|------|

EPA 00-02 - Quality Control

Batch: A505030

Prepared: 5/7/2015

Prep Method: EPA 00-02

Analyst: SAB

Blank (A505030-BLK1)

| | | | | | | | | | | | |
|------------------------|----|------|-------|---|--|--|--|--|--|----------|--|
| 1.65 Sigma Uncertainty | ND | | | ± | | | | | | 05/08/15 | |
| Gross Alpha | ND | 3 | pCi/L | | | | | | | 05/08/15 | |
| MDA95 | ND | 0.00 | pCi/L | | | | | | | 05/08/15 | |

Blank Spike (A505030-BS1)

| | | | | | | | | | | | |
|-------------|------|---|-------|----|--|----|--------|--|--|----------|--|
| Gross Alpha | 27.1 | 3 | pCi/L | 30 | | 90 | 80-120 | | | 05/08/15 | |
|-------------|------|---|-------|----|--|----|--------|--|--|----------|--|

Blank Spike Dup (A505030-BSD1)

| | | | | | | | | | | | |
|-------------|------|---|-------|----|--|-----|--------|----|----|----------|--|
| Gross Alpha | 33.0 | 3 | pCi/L | 30 | | 110 | 80-120 | 20 | 50 | 05/08/15 | |
|-------------|------|---|-------|----|--|-----|--------|----|----|----------|--|

Matrix Spike (A505030-MS1), Source: A5D2633-01

| | | | | | | | | | | | |
|-------------|-----|---|-------|-----|------|----|--------|--|--|----------|--|
| Gross Alpha | 100 | 3 | pCi/L | 120 | 3.07 | 81 | 70-130 | | | 05/08/15 | |
|-------------|-----|---|-------|-----|------|----|--------|--|--|----------|--|

Matrix Spike (A505030-MS2), Source: A5E0199-01

| | | | | | | | | | | | |
|-------------|-----|---|-------|-----|------|----|--------|--|--|----------|--|
| Gross Alpha | 119 | 3 | pCi/L | 120 | 8.69 | 92 | 70-130 | | | 05/08/15 | |
|-------------|-----|---|-------|-----|------|----|--------|--|--|----------|--|

Matrix Spike Dup (A505030-MSD1), Source: A5D2633-01

| | | | | | | | | | | | |
|-------------|-----|---|-------|-----|------|----|--------|----|----|----------|--|
| Gross Alpha | 120 | 3 | pCi/L | 120 | 3.07 | 97 | 70-130 | 18 | 50 | 05/08/15 | |
|-------------|-----|---|-------|-----|------|----|--------|----|----|----------|--|

Matrix Spike Dup (A505030-MSD2), Source: A5E0199-01

| | | | | | | | | | | | |
|-------------|------|---|-------|-----|------|----|--------|----|----|----------|-----------|
| Gross Alpha | 89.9 | 3 | pCi/L | 120 | 8.69 | 68 | 70-130 | 27 | 50 | 05/08/15 | MS1.0 Low |
|-------------|------|---|-------|-----|------|----|--------|----|----|----------|-----------|

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Printed: 5/12/2015

QA-RP-0001-10 Final.rpt

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Page 4 of 8

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A5E0062



05012015

BCLab4911

Turnaround: Standard

Due Date: 5/14/2015



BC Laboratories



Printed: 5/1/

Page 6 of 8

Page 1 of 1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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SUBCONTRACT ORDER

BC Laboratories

1510325

4.0

A5E0062

BCLab4911

05/01/2015

9



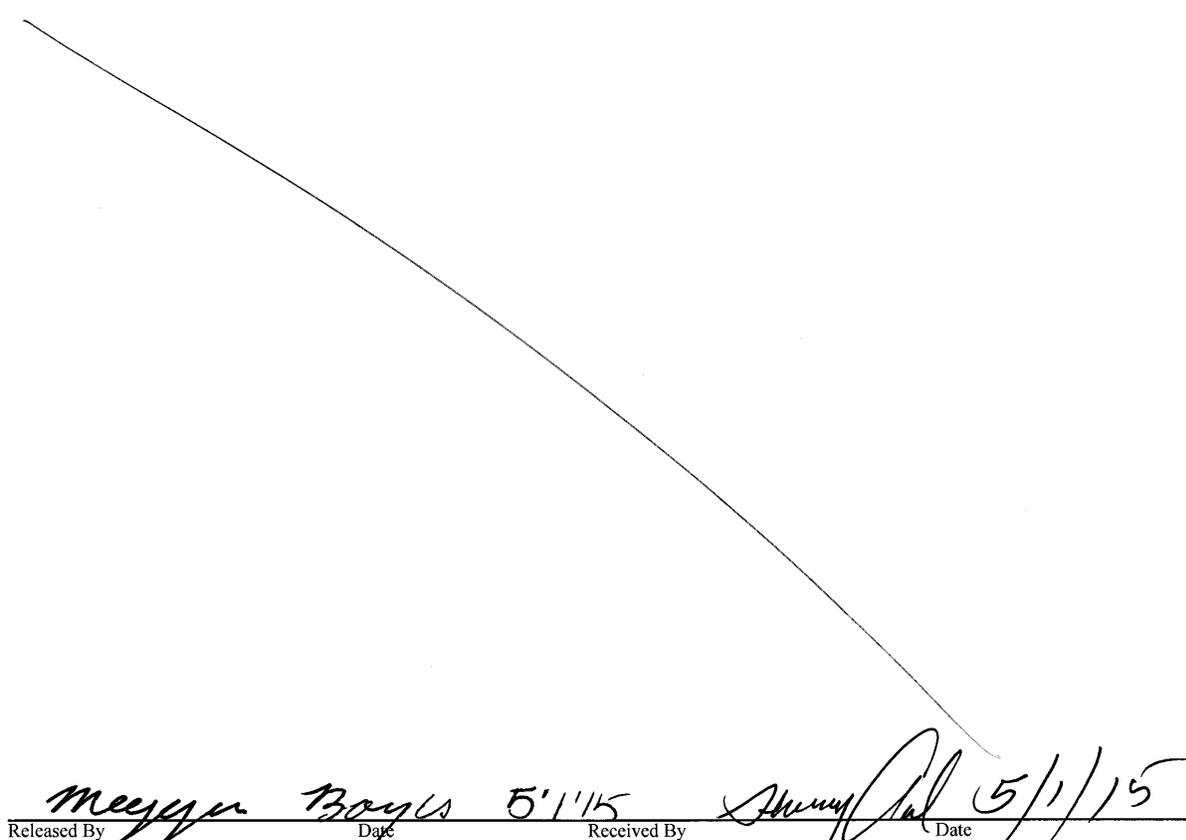
SENDING LABORATORY:

BC Laboratories
4100 Atlas Ct
Bakersfield, CA 93308
Phone: 661-327-4911
Fax: 661-327-1918
Project Manager: Kerrie Vaughan

RECEIVING LABORATORY:

BSK Analytical Labs \$BSKSA
1414 Stanislaus Street
Fresno, CA 93706
Phone :(800) 877-8310
Fax: (559) 485-6935

Table with columns: Analysis, Due, Expires, Laboratory ID, Comments. Row 1: Sample ID: 1510325-01, Water, Sampled: 04/30/15 10:40, om900.0w Gross Alpha BSKSA, 05/14/15 17:00, 10/28/15 10:40, Analyze water phase only. Results needed by 5/14/2015.



Released By: meyer Date: 5/1/15 Received By: [Signature] Date: 5/1/15

Released By: [Signature] Date: 5/1/15 Received By: [Signature] Date: 5/1/15 15:37

PMS, Wet, BW



BSK Associates SR-FL-0002-13

A5E0062
BCLab4911

05/01/2015

9

Sample Integrity



BSK Bottles: Yes No Page 1 of 1

| | | | | | | | | |
|--|--|--------------------------------------|--------------------|-------------------------------------|---|--------------------------------------|----|-------------------------------------|
| COC Info | Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ | <input checked="" type="radio"/> Yes | No | NA | Were correct containers and preservatives received for the tests requested? | <input checked="" type="radio"/> Yes | No | NA |
| | If samples were taken today, is there evidence that chilling has begun? | Yes | No | <input checked="" type="radio"/> NA | Were there bubbles in the VOA vials? (Volatiles Only) | Yes | No | <input checked="" type="radio"/> NA |
| | Did all bottles arrive unbroken and intact? | <input checked="" type="radio"/> Yes | No | | Was a sufficient amount of sample received? | <input checked="" type="radio"/> Yes | No | |
| | Did all bottle labels agree with COC? | <input checked="" type="radio"/> Yes | No | | Do samples have a hold time <72 hours? | <input checked="" type="radio"/> Yes | No | |
| | Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present? | Yes | No | <input checked="" type="radio"/> NA | Was PM notified of discrepancies? PM: _____ By/Time: _____ | Yes | No | <input checked="" type="radio"/> NA |
| Bottles Received "—" means preservation/chlorine checks are either N/A or are performed in the lab | 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V) | Checks | Passed? | | | | | |
| | Bacti $\text{Na}_2\text{S}_2\text{O}_3$ | — | — | | | | | |
| | None (P) ^{White Cap} | — | — | | | | | |
| | Cr6 (P) ^{Br. Green Label} $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW | Cl, pH > 8 | Y | N | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer DW | pH 9-9.5 | Y | N | | | | |
| | Cr6 (P) ^{Pink Label} Hex Chrome Buffer WW | pH 9.3-9.7 | Y | N | | | | |
| | HNO_3 (P) ^{Red Cap} | — | — | | IC* | | | |
| | H_2SO_4 (P) or (AG) ^{Yellow Cap/Label} | pH < 2 | Y | N | | | | |
| | NaOH (P) ^{Green Cap} | Cl, pH > 10 | Y | N | | | | |
| | NaOH + ZnAc (P) | pH > 9 | Y | N | | | | |
| | Dissolved Oxygen 300ml (g) | — | — | | | | | |
| | None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270 | — | — | | | | | |
| | HCl (AG) ^{Lt. Blue Label} O&G, Diesel | — | — | | | | | |
| | $\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) ^{Lt. Pink Label} 525 | — | — | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549 | — | — | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547, 515, 548, THM, 524 | — | — | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505 | — | — | | | | | |
| | $\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (CG) ^{Orange Label} 531 | pH < 3 | Y | N | | | | |
| | NH_4Cl (AG) ^{Purple Label} 552 | — | — | | | | | |
| | EDA (AG) ^{Brown Label} DBPs | — | — | | | | | |
| | HCL (CG) 524, 2, BTEX, Gas, MTBE, 8260/624 | — | — | | | | | |
| | Buffer pH 4 (CG) | — | — | | | | | |
| | None (CG) | — | — | | | | | |
| | H_3PO_4 (CG) ^{Salmon Label} | — | — | | | | | |
| | Other: | | | | | | | |
| Asbestos 1Liter Plastic w/ Foil | — | — | | | | | | |
| Low Level Hg / Metals Double Baggie | — | — | | | | | | |
| Bottled Water | — | — | | | | | | |
| Clear Glass Jar: 250 / 500 / 1 Liter | — | — | | | | | | |
| Soil Tube Brass / Steel / Plastic | — | — | | | | | | |
| Tedlar Bag / Plastic Bag | — | — | | | | | | |
| Split | Container | Preservative | Date/Time/Initials | Container | Preservative | Date/Time/Initials | | |
| | S P | | | S P | | | | |
| Comments | S/W/S M/W/S | | | | | | | |
| | | | | | | | | |

Labeled by: JAD @ 6:28

Labels checked by: NR @ 10:33

RUSH Paged by: Page 8 of 8

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 19, 2015

Ms. Kerrie Vaughan
BC Laboratories
4100 Atlas Ct.
Bakersfield, CA 93308

RE: Project: 1510325
Pace Project No.: 30147382

Dear Ms. Vaughan:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carin Ferris
carin.ferris@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 1510325
Pace Project No.: 30147382

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACCLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 1510325
Pace Project No.: 30147382

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------|--------|----------------|----------------|
| 30147382001 | 1510325-01 | Water | 04/30/15 10:40 | 05/06/15 10:15 |

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 1510325
Pace Project No.: 30147382

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|------------|-----------|----------|-------------------|
| 30147382001 | 1510325-01 | EPA 903.1 | JC2 | 1 |
| | | EPA 904.0 | JLW | 1 |

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 1510325
Pace Project No.: 30147382

Method: EPA 903.1
Description: 903.1 Radium 226
Client: BC Laboratories
Date: May 19, 2015

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 1510325
Pace Project No.: 30147382

Method: EPA 904.0
Description: 904.0 Radium 228
Client: BC Laboratories
Date: May 19, 2015

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 1510325
Pace Project No.: 30147382

Sample: 1510325-01 Lab ID: 30147382001 Collected: 04/30/15 10:40 Received: 05/06/15 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Sample Acceptance Policy Waiver on file from the client.

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|------------------------------------|-------|----------------|------------|------|
| Radium-226 | EPA 903.1 | 5.57 ± 7.75 (11.1) C:NA T:67% | pCi/L | 05/18/15 12:21 | 13982-63-3 | |
| Radium-228 | EPA 904.0 | -1.05 ± 3.59 (8.66) C:80% T:76% | pCi/L | 05/13/15 16:38 | 15262-20-1 | |

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Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 1510325
Pace Project No.: 30147382

| | |
|-------------------------------------|--|
| QC Batch: RADC/24412 | Analysis Method: EPA 903.1 |
| QC Batch Method: EPA 903.1 | Analysis Description: 903.1 Radium-226 |
| Associated Lab Samples: 30147382001 | |

| | |
|-------------------------------------|---------------|
| METHOD BLANK: 892048 | Matrix: Water |
| Associated Lab Samples: 30147382001 | |

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.138 ± 0.381 (0.740) C:NA T:96% | pCi/L | 05/18/15 12:11 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 1510325
Pace Project No.: 30147382

| | |
|-------------------------------------|--|
| QC Batch: RADC/24387 | Analysis Method: EPA 904.0 |
| QC Batch Method: EPA 904.0 | Analysis Description: 904.0 Radium 228 |
| Associated Lab Samples: 30147382001 | |

| | |
|-------------------------------------|---------------|
| METHOD BLANK: 890253 | Matrix: Water |
| Associated Lab Samples: 30147382001 | |

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.526 ± 0.471 (0.960) C:76% T:81% | pCi/L | 05/13/15 16:44 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 1510325
Pace Project No.: 30147382

DEFINITIONS

- DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
- ND - Not Detected at or above adjusted reporting limit.
- J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- MDL - Adjusted Method Detection Limit.
- PQL - Practical Quantitation Limit.
- RL - Reporting Limit.
- S - Surrogate
- 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
- Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
- LCS(D) - Laboratory Control Sample (Duplicate)
- MS(D) - Matrix Spike (Duplicate)
- DUP - Sample Duplicate
- RPD - Relative Percent Difference
- NC - Not Calculable.
- SG - Silica Gel - Clean-Up
- U - Indicates the compound was analyzed for, but not detected.
- N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
- Act - Activity
- Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
- Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
- (MDC) - Minimum Detectable Concentration
- Trac - Tracer Recovery (%)
- Carr - Carrier Recovery (%)
- Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
- TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

Date: 05/19/2015 04:31 PM

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SUBCONTRACT ORDER

BC Laboratories
1510325

30147302

SENDING LABORATORY:

BC Laboratories
4100 Atlas Ct
Bakersfield, CA 93308
Phone: 661-327-4911
Fax: 661-327-1918
Project Manager: Kerrie Vaughan

RECEIVING LABORATORY:

PACE Analytical \$PACEA
1638 Roseytown Road, Ste 2,3 &4
Greensburg, PA 15601
Phone : (724) 850-5600
Fax: (724) 850-5601

| Analysis | Due | Expires | Laboratory ID | Comments |
|------------------------------|----------------|-------------------------------|---------------|--|
| Sample ID: 1510325-01 | Water | Sampled:04/30/15 10:40 | | |
| om904.0w Radium228 PACEA | 05/14/15 17:00 | 10/28/15 10:40 | | Analyze water phase only. Results needed by 5/14/2015. |
| om903.0w Radium226 PACEA | 05/14/15 17:00 | 10/28/15 10:40 | | Analyze water phase only. Results needed by 5/14/2015. |
| <i>Containers Supplied:</i> | | | | |

Released By Meggen Boyles Date 5/11/15 Received By Antonia M... Date 5/16/15 10:15

Released By _____ Date _____ Received By _____ Date _____



Sample Condition Upon Receipt



Client Name: BC

Project # 30147382

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 129653760362610649

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no Biological Tissue Is Frozen: Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: NA °C Correction Factor: NA °C Final Temp.: NA °C

Date and Initials of person examining contents: Ann
5/6/15

Temp should be above freezing to 6°C

Comments:

| | | |
|--|--|---|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>WT</u> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <u>PHLZ</u> |
| exceptions: VOA, coliform, TOC, O&G, Phenols | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed <u>Ann</u> Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Carina Sando Date: 5/10/15

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



Naftex Operating Company
P.O. Box 308
Edison, CA 93320

Reported: 07/15/2015 15:00
Project: Produced Water Pond Testing
Project Number: [none]
Project Manager: Randy Horne

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration is more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S05 The sample holding time was exceeded.