

220 NW 2ND AVENUE PORTLAND, OR 97209

503.226.4211

February 5, 2020

Angelica Greene Industrial Stormwater Permit Manager City of Portland Bureau of Environmental Services 6543 N. Burlington Avenue Portland, OR 97203

Re: 1200-Z Permit Second Quarter 2019–2020 Discharge Monitoring Report NW Natural Gasco Property DEQ File Number 62231

Dear Ms. Greene,

Attached please find the Discharge Monitoring Report, as well as the laboratory report, chain of custody, and field sheet, for the NW Natural Gasco Property for the 1200-Z second quarter reporting period.

All benchmarks and impairment pollutant concentrations were met for the quarter. As you may recall, a Tier I Report for past exceedances was submitted to BES on July 25, 2019. This Tier I Report included a recommended corrective measure that involved vactoring of the manhole sumps and connective stormwater lines within the Liquefied Natural Gas (LNG) Plant. The vactoring work was conducted on July 26, July 31, August 18, and August 26, 2019. There was approximately 4 to 6 cubic yards of sand, silt, and gravel removed from the stormwater mains and sumps. Based on this quarter's improved stormwater quality, it appears that vactoring was effective in reducing the total suspended solids (TSS) concentrations and other pollutant concentrations as well. Therefore, initiation of upline source tracing is not necessary at this time.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is—to the best of my knowledge and belief—true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations (40 CFR 122.22(d)).

If you have any questions about this package, please contact Kendra Skellenger with Anchor QEA, LLC, at 503-924-6179.

Very truly yours,

pM.Wlh

Kathryn Williaths Vice President of Public Affairs NW Natural



Oregon Department of Environmental Quality Stormwater Program

Discharge Monitoring Report 1200-Z Permit

National Pollutant Discharge Elimination System Permit Industrial Stormwater Discharge General Permit

Instructions: This report must be completed for each quarter and submitted by the 15th of February, May, August and Novembe to the appropriate DEQ regional or agent office. The report must contain the results of all stormwater monitoring conducted during each quarter, and variance requests are due semi-annually, in February and August. Sample for the pollutants at monitoring location(s) specified in your SWPCP and use the monitoring location(s) number from your SWPCP. You must include the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and chain of custody.

| Facility Infor | mation | | 1 States and | |
|--|---|--|--|--|
| Legal name: | Northwest Natural Gas Company | | DEQ File No: | 62231 |
| Common name: | NW Natural | | EPA #: | ORR706061 |
| Facility address: | 7900 NW St Helens Rd | | Reporting Quarter: | ☐ 1st 🗹 2nd 🗌 3rd 🗌 4th |
| Facility City, Zip: | Portland, OR 97210 | | Reporting Year: | 2019 to 2020 |
| Geo-Region: | Columbia Slough Columbia River | ✓ Portland Harbo | or 🗌 Regional | Administrated by: |
| 2nd Geo-Region | Columbia Slough Columbia River | Portland Harbo | or 🗌 Regional | DEQ Clean Water Services |
| Primary | SIC Code: 4925 Seconda | ry SIC Code: | 1994 - AN | ☐ City of Portland ☐ City of Eugene |
| Monitoring In | nformation | | | |
| Number of discha | ge point(s): 1 | N | lumber of monitoring | location(s): 1 |
| If different, you ce effluent is substar | rtify that the facility has established ei ntially similar to effluent(s) monitored a | ther: 1) the area ha and the same BMP | as no exposure of storn Ps are implemented and | nwater to industrial activities, or 2) the d maintained. (See permit pg 23) |
| Monitoring W | Vaiver(s) If yes list date on DEC | or Agent approv | val letter. | |
| n/a | | | | |
| | | | | |
| | | | 市村-省 省。 | |
| DMR Submit | tal Checklist Please ch | eck all applicable | e documents are inclu | uded with you DMR submittal: |
| Original Signal | ture 🗹 Laboratory Reports [| ✓ Chain of Custody | ✓ QA/QC for | m Lab 🗸 pH field sheets |
| Certification | | | Area March 199 | |
| I certify under pen system designed t person or persons to the best of my k information, include | alty of law that this document and all a to assure that qualified personnel prop who manage the system, or those pe knowledge and belief, true, accurate, a ling the possibility of fine and imprison | ttachments were p erly gather and eva rsons directly resp nd complete. I am ment for knowing v | prepared under my dire aluate the information s onsible for gathering th aware that there are si violations (40 CFR 122. | ction or supervision in accordance with a submitted. Based on my inquiry of the e information, the information submitted is, gnificant penalties for submitting false .22(d)). |
| Signature: | Latty M. Will | > | Date: | 2/5/2020 |
| Printed Name: | Kathryn Williams | | Title: | Vice President of Public Affairs |
| | Legally Authorized Represer | tative | Email: | kathryn.williams@nwnatural.com |
| | | | Telephone : | 503 220 2370 |
| | | | relephone. | 000.220.2010 |



Oregon Department of Environmental Quality Stormwater Program

Discharge Monitoring Report 1200-Z Permit

For official use only: Legal Name: Northwest Natural Gas Company DEQ File No: 62231

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| | Portland Harbor Benchmarks | | | | | | | | | | | |
|----------------------|----------------------------|---------|------------------------------|-----------------------|--------------|------------|------------|-------------------|--|--|--|--|
| nitoring ation(s) | Sample Date | pН | Total Suspended Solids | Total Oil & Grease | Total Copper | Total Lead | Total Zinc | E. coli * | * E. coli only required for landfills and sewage treatment plants. | | | |
| Moi | | s.u. | mg/L | mg/L | mg/L | mg/L | mg/L | counts/ 100 ml | | | | |
| 001 | 11/19/19 | 6.51 | ND (5.00) | ND (4.76) | 0.00118 | 0.000609 | 0.00752 | | | | | |
| 001 | 12/10/19 | 6.42 | 10 | ND (4.76) | 0.00341 | 0.00269 | 0.0332 | | | | | |
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| Portlan Benc | nd Harbor hmarks | 5.5-9.0 | 30 | 10 | 0.020 | 0.040 | 0.12 | 406 | | | | |



Oregon Department of Environmental Quality Stormwater Program

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| | | ا see pern(| mpairment nit assignm | : Pollutants an nent letter for i | d Referenc dentificatio | ce Concentrati on of required | ons parameter | rs) | |
|----------------------|-------------|----------------|--------------------------|--------------------------------------|----------------------------|----------------------------------|---------------------------------------|--------------|----------------------------|
| nitoring ation(s) | Sample Date | Aldrin | Ammonia | Arsenic. Total Recoverable | BOD₅ | Cadmium, Dissolved | Chlordane | Chlorpyrifos | Chromium III, Dissolved |
| Mor Loc | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 001 | 11/19/19 | ND (0.0000283 |) | | | 1 | ND (0.00034 | 9) | |
| 001 | 12/10/19 | ND (0.0000280) |) | | | 1 | VD (0.00034 | 5) | |
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| Impain | ment Ref. | 0.003 | 1.0 | 0.34 | 30 | See Letter | 0.0024 | 0.000083 | See Letter |



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| | Impairment Pollutants and Reference Concentrations (see permit assignment letter for identification of required parameters) | | | | | | | | | | | |
|----------------------|--|---------|------------|------------------------|-------------|--------------------|-----------|-------------------|----------------------|--|--|--|
| nitoring ation(s) | Sample Date | Guthion | Heptachlor | Hexachlo- robenzene | Iron, Total | Lead, Dissolved | Malathion | Mercury, Total | Nickel, Dissolved | | | |
| Mo | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | |
| 001 | 11/19/19 | | | | 0.438 | ND (0.0001) | | 0.00018 | | | | |
| 001 | 12/10/19 | | | | 0.462 | ND (0.0001) | | ND(0.00005) | | | | |
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| Impairment Ref. | 0.001 | 0.00052 | 0.001 | 1.0 | See Letter | 0.0002 | 0.0024 | See Lottor |
|-----------------|-------|---------|-------|-----|------------|--------|--------|---------------|
| Concentration | | | | | | | | Letter |



Concentration

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| | Impairment Pollutants and Reference Concentrations | | | | | | | | | | |
|----------------------|--|----------------------------------|-------------|--------------|------------|--------------|----------------------|--------------------------|----------|------------------------|--|
| | | (see p | ermit assig | nment lette | r for iden | tification o | f required p | arameters) | | | |
| nitoring ation(s) | Sample Date | Nitrate + Nitrite Nitrogen | Parathion | PCBs | рН | Phosphorous | Silver, Dissolved | Tetrachlo- roethylene | Thallium | Trichloroe- thylene | |
| Mo | | mg/L | mg/L | mg/L | s.u. | mg/L | mg/L | mg/L | mg/L | mg/L | |
| 001 | 11/19/19 | | 1 | ND(0.0000472 | 6.51 | | | | | | |
| 001 | 12/10/19 | | | ND(0.00005) | 6.42 | | | | | | |
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| Impairm | nent Ref. | 10.0 | 0.010 | 0.002 | See | 2.0 | Secletter | 0.0005 | 0.0001 | 0.0014 | |

Letter



Concentration

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| | Impairment Pollutants and Reference Concentrations | | | | | | | | | | |
|----------------------|--|-----------|--------------------|--------------|--------------|------------------------|-----------------|------------------------------|--------------------------|--|--|
| nitoring ation(s) | Sample Date | Turbidity | Zinc, Dissolved | Acenaphthene | Anthracene | Benzo(a) anthracene | Benzo(a) pyrene | Benzo(b) fluoranthene 3,4 | Benzo(k) fluoranthene | | |
| Moi | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | |
| 001 | 11/19/19 | 13.33 | | ND(0.000485) | ND(0.000485) | ND(0.000485) | ND(0.000485) | ND(0.000485) | ND(0.000485) | | |
| 001 | 12/10/19 | 12.01 | | ND(0.000481) | ND(0.000481) | ND(0.000481) | ND(0.000481) | ND(0.000481) | ND(0.000481) | | |
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| Geometri | ic Mean | 13 | | 0.000 | 0.0 | 0.000 | 0.000 | 0.000 | 0.000 | | |
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| Geometri | ic Mean | | | | | | | | | | |
| Impairr | nent Ref. | 100 | See Letter | 0.095 | 2.9 | 0.001 | 0.001 | 0.001 | 0.001 | | |



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| | Impairment Pollutants and Reference Concentrations | | | | | | | | | | |
|--|--|--------------|---------------------------|--------------|--------------|-----------------------------|--------------|--|--|--|--|
| (see permit assignment letter for identification of required parameters) | | | | | | | | | | | |
| nitoring ation(s) | Sample Date | Chrysene | Dibenz(a,h) anthracene | Fluoranthene | Fluorene | Indeno (1,2,3-cd) pyrene | Pyrene | | | | |
| Loc Mo | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | | |
| 001 | 11/19/19 | ND(0.000485) | ND(0.000485) | ND(0.000485) | ND(0.000485) | ND(0.000485) | ND(0.000485) | | | | |
| 001 | 12/10/19 | ND(0.000481) | ND(0.000481) | ND(0.000481) | ND(0.000481) | ND(0.000481) | ND(0.000481) | | | | |
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| A X A | NCHO | R | | 6720 SW N | lacadan | n Ave, Suite 125, P | ortland, OR | 97219 | | |
|---|----------------|---------------|---------|---------------|----------------------|----------------------|--------------------------|-----------|-----------|--|
| Ka | DEA St | 1 | | Office: (503 | 3) 670-1 | 108 | | | | |
| PROJECT NAME: | 1200Z Storm | nwater Monite | oring 0 | 00029-02.58 | | Location ID: | Location ID: Outfall 107 | | | |
| SITE ADDRESS: | 7900 NW S | t Helens Rd, | Portla | nd, OR | 5 Q | BLIND ID: | 0107-01 | -1119 | 19 | |
| | | | 2 | Easting: | 76240 | 051.869 | No | rthing: | 705434.9 | 910 |
| WIND FROM: | N NE E | SE | S | SW W | NW | LIGHT | MEDI | UM | | HEAVY |
| WEATHER: SI | UNNY PRT | LY CLDY | ELC | DUDY Light | AID | No Wind | TEN | IPERA | TURE: | 50 |
| | YSI Cali | bration | | | |] | T | Nater | Quality | Data |
| Date: | 11/19/1 | 9 | | | | s | ampling Me | thod: | Grab | |
| Probe S/N: | 13E100 | 0 75 | | | | | Time (24 | hour): | 0805 | > |
| Calibration Solution | Initial | Fina | 1 | Temper | ature | | pH | H (SU): | 6.51 | |
| pH 4.01 | 4.11 | 4.00 | | 18.5 | | | | | | |
| pH 7.0 | 7.05 | 7.03 | 3 | 18.1 | | | | | | |
| METHODS: (A) Gra) (B) |) Composite (C |) Disposable | Bailer | (D) Peristalt | ic Pump | (E) Waterra inertial | pump (F) Oth | her | | |
| | Time Of | 214 | | STORM | WATER | SAMPLING | | | | 610.000 |
| Date: 11/19/19 | Time: 08 | <u> </u> | | Method A | | | | | | [Vit used] |
| Bottle Type | | | # | Volume | Pres | ervative [circle] | Ice | Filter | pH | · V |
| VOA Glass | | | 3 | 40 ml | | HCI | YES | NO | | 1 |
| Amber Glass | - | _ | 5 | 1L | | None | YES | NO | | V |
| Green Poly | | | 1. | 125ml | | NaOH | YES | NO | | V |
| Red Poly-total | | _ | 1 | 250ml | | HNO ₃ | YES | NO | | J |
| Red Poly-dissolved** | - | | 1 | 250ml | | HNO ₃ | YES | YES | | s/ |
| White Poly** | | | 1 | 250ml | | None / | YES | NO/ | | V |
| Amber Glass* | | | 2 | 1L | | HCI | YES | N9 | | |
| Total Bottles (in | nclude duplic | ate count): | 14 | | | VOA Tri | p Blank (cire | cle if co | llected) | and the second |
| BOTTLE TYPE | ANAI | YSIS PER | BOTT | FLE TYPE (| Circle ap | oplicable or write | non-standar | d analy | sis below | 7) |
| VOA vial - Glass | VOCs | by EPA 62 | 4 (3 V | OAs) | | | | | | |
| AMBER - Glass (Unpres | served PAHs | HCB by EI | PA 62 | 5 (1L) | Pesticid | les by EPA 608 (11 | L) | PCBs l | by EPA 6 | 08 (1L) |
| AMBER - Glass (Preserv | ved) Oil an | d Grease b | y EPA | A 1664A (2L |) | | | | | |
| GREEN - Poly | Free C | yanide (AS | STM I | D4282) and | WAD C | yanide (SM 4500- | -CN I) (1 x 1 | 125 mL | for both) | |
| RED DISSOLVED - Poly | ** Disso | lved Metals | s (Cu, | Pb) by EPA | 200.8 | | | | | 1 |
| RED TOTAL - Poly | Total | Metals (Cu | , Fe, F | b, Zn) by H | EPA 200 | 0.8 (250 mL) | | Total N | Mercury | by EPA 245.1 (250 mL |
| WHITE - Poly | TSS b | v SM2540 I |) | | | | | | | / |
| $\frac{\text{Comments:}}{\text{Turbiclet}_{f}} = 1$ | /3.33 | | | | 64 | | | | | |
| AMPLER: DRINTED NA (PRINTED NA (as ey M | amp La | f-foon J | | | Z SIGNATU Casy | RE) Maitgan | | | | |

| e 125, Portland, OR ID: Outfall 10 D: O107- @) No HT MEDI Vind TEM Sampling M Time (24 | 97219)7 (- i21019 orthing: 705434. UM MPERATURE: Water Quality ethod: Grab hour): /505 | 910 HEAVY 46 ° • Data |
|--|---|--|
| ID: Outfall 10 D: O107- Ø) No HI MEDI Vind TEM Sampling M Time (24 pl |)7 (- i21019 orthing: 705434, UM MPERATURE: Water Quality ethod: Grab hour): /505 | 910 HEAVY 46 ° • Data |
| D: O107- 0) No Wind TEM Sampling M Time (24 | UM MPERATURE: Water Quality ethod: Grab | 910 HEAVY 46 ° 7 Data |
| No MEDI Vind TEM Sampling M Time (24 | Water Quality ethod: Grab | 910 HEAVY 46 * • Data |
| Vind TEM Sampling M Time (24 | UM MPERATURE: Water Quality ethod: Grab hour): /501 | HEAVY 46 ° 7 Data |
| Vind TEM Sampling M Time (24 pl | WPERATURE: | 96 • • Data |
| Sampling M Time (24 | Water Quality ethod: Grab hour): /505 | 7 Data |
| Sampling M Time (24 pl | ethod: Grab | |
| Time (24 pl | hour): 1505 | |
| pl | 110000 | 5 |
| | n (ou): (Os | 42 |
| | | |
| | | |
| inertial pump (F) Ot | her | |
| VG | | |
| | | [√if used] |
| ircle] Ice | Filter pH | Ý |
| YES | [Ko] [| |
| YES | NO | |
| YES | NO - | |
| YES | NO | <u></u> |
| YES | YES | |
| / YES / | NO | V. |
| <u>YES/</u> | <u>N9/1 1</u> | <u></u> |
| OA Trip Blank (cu | rcle if collected) | |
| r write non-standa | rd analysis belov | P |
| 609 (11) | PCRs by FPA 6 | (11) 80. |
| | | an mil |
| M 4500-CN I) (1 x | 125 mL for both |) · |
| | | - - |
| () <u>.</u> | Total Mercury | by EPA 245.1 (250 mL) |
| | ::- | |
| | | Non-section and the section of the s |
| <i>x</i> . | | |
| | | |
| | | |
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| | | |
| train, | | |
| tzawy | | |
| | 3r write non-standa A 608 (1L) 5M 4500-CN I) (1 x L) | ar write non-standard analysis below A 608 (1L) PCBs by EPA 6 5M 4500-CN I) (1 x 125 mL for both L) Total Mercury |

NWN-PCI0777742

26



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 <u>EPA ID: OR01039</u>

Tuesday, December 17, 2019 Kendra Skellenger Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Cooler #1

RE: A9K0566 - Gasco - 1200Z - 2019 - 000029-02.58 task 14

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9K0566, which was received by the laboratory on 11/19/2019 at 11:22:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>dthomas@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information (See Cooler Receipt Form for details) 0.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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.

Darwin Thomas, Business Development Director

Page 1 of 36



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: Gasco | <u>- 1200Z - 2019</u> | |
|--------------------------------|------------------------|-----------------------|------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029 | 9-02.58 task 14 | Report ID: |
| Portland, OR 97219 | Project Manager: Kendr | a Skellenger A | 9K0566 - 12 17 19 0451 |

ANALYTICAL REPORT FOR SAMPLES

| SAMPLE INFORMATION | | | | | | | | | |
|--------------------|---------------|--------|----------------|----------------|--|--|--|--|--|
| Client Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received | | | | | |
| O107-01-111919 | A9K0566-01 | Water | 11/19/19 08:10 | 11/19/19 11:22 | | | | | |
| TB-111919 | A9K0566-02 | Water | 11/19/19 09:20 | 11/19/19 11:22 | | | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Purgeable Organic Compounds by EPA 624.1 | | | | | | | | | |
|--|------------------|--------------------|--------------------|------------------|----------|------------------|-------------|-------|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | |
| O107-01-111919 (A9K0566-01) | | | | Matrix: Wate | r | Batch: | 9110994 | | |
| Benzene | ND | 0.000125 | 0.000250 | mg/L | 1 | 11/20/19 15:22 | EPA 624 | | |
| Toluene | ND | 0.000500 | 0.00100 | mg/L | 1 | 11/20/19 15:22 | EPA 624 | | |
| Xylenes, total | ND | 0.000750 | 0.00150 | mg/L | 1 | 11/20/19 15:22 | EPA 624 | | |
| Surrogate: 1,4-Difluorobenzene (Surr) | | Recovery | v: 107 % | Limits: 80-120 % | 1 | 11/20/19 15:22 | EPA 624 | | |
| Toluene-d8 (Surr) | | | 99 % | 80-120 % | 1 | 11/20/19 15:22 | EPA 624 | | |
| 4-Bromofluorobenzene (Surr) | | | 100 % | 80-120 % | 1 | 11/20/19 15:22 | EPA 624 | | |
| TB-111919 (A9K0566-02) | | | | Matrix: Wate | er | Batch: | 9110994 | | |
| Benzene | ND | 0.000125 | 0.000250 | mg/L | 1 | 11/20/19 11:45 | EPA 624 | | |
| Toluene | ND | 0.000500 | 0.00100 | mg/L | 1 | 11/20/19 11:45 | EPA 624 | | |
| Xylenes, total | ND | 0.000750 | 0.00150 | mg/L | 1 | 11/20/19 11:45 | EPA 624 | | |
| Surrogate: 1,4-Difluorobenzene (Surr) | | Recovery | v: 107 % | Limits: 80-120 % | 1 | 11/20/19 11:45 | EPA 624 | | |
| Toluene-d8 (Surr) | | | 99 % | 80-120 % | 1 | 11/20/19 11:45 | EPA 624 | | |
| 4-Bromofluorobenzene (Surr) | | | 101 % | 80-120 % | 1 | 11/20/19 11:45 | EPA 624 | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Polychlorinated Biphenyls by EPA 608 | | | | | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|------------------|----------|------------------|-------------|-------|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | |
| O107-01-111919 (A9K0566-01) | | | | Matrix: Wat | er | Batch: | 9110990 | C-07 | |
| Aroclor 1016 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Aroclor 1221 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Aroclor 1232 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Aroclor 1242 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Aroclor 1248 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Aroclor 1254 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Aroclor 1260 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Aroclor 1262 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Aroclor 1268 | ND | 0.0000472 | 0.0000943 | mg/L | 1 | 11/21/19 08:57 | 608 PCB | | |
| Surrogate: Decachlorobiphenyl (Surr) | | Recov | ery: 73 % | Limits: 40-135 % | 6 1 | 11/21/19 08:57 | 608 PCB | | |

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Organochlorine Pesticides by EPA 608 | | | | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|------------------|----------|------------------|-------------|-------|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
| O107-01-111919 (A9K0566-01RE2) | | | | Matrix: Wate | er | Batch: | 9120397 | C-05 |
| Aldrin | ND | 0.0000283 | 0.0000566 | mg/L | 1 | 12/05/19 14:40 | 608 Pest | Q-30 |
| 4,4'-DDD | ND | 0.0000283 | 0.0000566 | mg/L | 1 | 12/05/19 14:40 | 608 Pest | |
| 4,4'-DDE | ND | 0.00000472 | 0.00000943 | mg/L | 1. | 12/05/19 14:40 | 608 Pest | |
| 4,4'-DDT | ND | 0.0000283 | 0.0000566 | mg/L | 1 | 12/05/19 14:40 | 608 Pest | |
| Dieldrin | ND | 0.0000283 | 0.0000566 | mg/L | 1 | 12/05/19 14:40 | 608 Pest | |
| Chlordane (Technical) | ND | 0.000349 | 0.000708 | mg/L | 1 | 12/05/19 14:40 | 608 Pest | |
| Surrogate: 2,4,5,6-TCMX (Surr) | | Recove | ery: 49 % 1 | Limits: 25-140 % | 1 | 12/05/19 14:40 | 608 Pest | |
| Decachlorobiphenyl (Surr) | | | 78 % | 30-135 % | 1 | 12/05/19 14:40 | 608 Pest | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Semivolatile Organic Compounds by EPA 625 | | | | | | | | | |
|---|------------------|--------------------|--------------------|------------------|----------|------------------|-------------|-------|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | |
| O107-01-111919 (A9K0566-01) | | | | Matrix: Wate | er | Batch: | 9111057 | | |
| Acenaphthene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Anthracene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Benz(a)anthracene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Benzo(a)pyrene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Benzo(b)fluoranthene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Benzo(k)fluoranthene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Chrysene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Dibenz(a,h)anthracene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Fluoranthene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Fluorene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Hexachlorobenzene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Pyrene | ND | 0.000485 | 0.000971 | mg/L | 4 | 11/22/19 17:17 | EPA 625 | | |
| Surrogate: 2-Fluorobiphenyl (Surr) | | Recove | ery: 71 % | Limits: 45-120 % | 4 | 11/22/19 17:17 | EPA 625 | | |
| p-Terphenyl-d14 (Surr) | | | 68 % | 30-125 % | 4 | 11/22/19 17:17 | EPA 625 | | |
| 2,4,6-Tribromophenol (Surr) | | | 70 % | 35-125 % | 4 | 11/22/19 17:17 | EPA 625 | | |

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Total Metals by EPA 200.8 (ICPMS) | | | | | | | | | |
|-----------------------------------|------------------|--------------------|--------------------|------------|----------|------------------|-------------|-------|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | |
| O107-01-111919 (A9K0566-01) | | | | Matrix: Wa | iter | | | | |
| Batch: 9111225 | | | | | | | | | |
| Copper | 0.00118 | 0.000500 | 0.00100 | mg/L | 1 | 11/27/19 03:38 | EPA 200.8 | | |
| Iron | 0.438 | 0.0250 | 0.0500 | mg/L | 1 | 11/27/19 03:38 | EPA 200.8 | | |
| Lead | 0.000609 | 0.000100 | 0.000200 | mg/L | 1 | 11/27/19 03:38 | EPA 200.8 | | |
| Zinc | 0.00752 | 0.00200 | 0.00400 | mg/L | 1 | 11/27/19 03:38 | EPA 200.8 | | |

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Dissolved Metals by EPA 200.8 (ICPMS) | | | | | | | | | |
|---------------------------------------|------------------|--------------------|--------------------|------------|----------|------------------|------------------|-------|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | |
| O107-01-111919 (A9K0566-01) | | | | Matrix: Wa | iter | | | | |
| Batch: 9111067 | | | | | | | | | |
| Copper | 0.000793 | 0.000500 | 0.00100 | mg/L | 1 | 11/22/19 16:41 | EPA 200.8 (Diss) | J | |
| Lead | ND | 0.000100 | 0.000200 | mg/L | 1 | 11/22/19 16:41 | EPA 200.8 (Diss) | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry | | | | | | | | |
|---|------------------|--------------------|--------------------|------------|----------|------------------|-------------|-------|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
| O107-01-111919 (A9K0566-01) | | | | Matrix: Wa | ater | Batch: | 9111009 | |
| Free Cyanide | ND | 0.00250 | 0.00500 | mg/L | 1 | 11/20/19 19:45 | D4282-02 | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Weak Acid Dissociable (WAD) Cyanide by Flow Analysis (Aqueous) | | | | | | | | |
|--|------------------|--------------------|--------------------|---------------|----------|----------------------|--------------|-------|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
| O107-01-111919 (A9K0566-01) | | | | Matrix: Water | | Water Batch: 9111003 | | |
| WAD Cyanide | ND | 0.00500 | 0.00500 | mg/L | 1 | 11/20/19 19:03 | SM 4500-CN I | |

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

ANALYTICAL SAMPLE RESULTS

| Solid and Moisture Determinations | | | | | | | | |
|-----------------------------------|---------------|-----------|-----------|-------|----------|----------------|-------------|-------|
| | Sample | Detection | Reporting | | | Date | | |
| Analyte | Result | Limit | Limit | Units | Dilution | Analyzed | Method Ref. | Notes |
| O107-01-111919 (A9K0566-01) | Matrix: Water | | | | | | | |
| Batch: 9111162 | | | | | | | | |
| Total Suspended Solids | ND | 5.00 | 5.00 | mg/L | 1 | 11/25/19 15:53 | SM 2540 D | |

Apex Laboratories

Darwin Thomas, Business Development Director

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |
| | | |

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

| Metals by EPA 200 Series Methods | | | | | | | | |
|----------------------------------|------------------|--------------------|--------------------|-----------|----------|------------------|-------------|-------|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
| O107-01-111919 (A9K0566-01) | | | | Matrix: W | ater | Batch: | W9K1406 | |
| Batch: W9K1406 Mercury, Total | 0.00018 | | 0.000050 | mg/l | 1 | 11/27/19 16:29 | EPA 245.1 | |

Apex Laboratories

Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

QUALITY CONTROL (QC) SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1 RPD Detection Reporting Spike Source % REC Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Notes Limit Batch 9110994 - EPA 5030B Water Duplicate (9110994-DUP1) Prepared: 11/20/19 11:15 Analyzed: 11/20/19 17:10 QC Source Sample: Non-SDG (A9K0615-02) Trichloroethene (TCE) 0.00125 0.00250 ND 30% ND mg/L 5 -------------0.00125 0.00250 5 Vinyl chloride ND mg/L ---ND ----------30% Xylenes, total 0.264 0.00375 0.00750 mg/L 5 0.268 ---1 30% --------0.0500 0.100 Acetone ND 5 ND 30% mg/L -------------Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 98 % 80-120 % 4-Bromofluorobenzene (Surr) 102 % 80-120 % " Matrix Spike (9110994-MS1) Prepared: 11/20/19 11:15 Analyzed: 11/20/19 13:06 OC Source Sample: Non-SDG (A9K0597-02) EPA 624 0.000125 0.000250 mg/L Benzene 0.0217 1 0.0200 ND 108 37-151% ------0.0228 0.000250 0.000500 0.0200 0.000960 109 70-130% cis-1,2-Dichloroethene mg/L 1 0.0260 0.000250 0.000500 0.0200 0.00378 Tetrachloroethene (PCE) mg/L 1 111 64-148% ------0.000500 0.00100 Toluene 0.0201 0.0200 ND 101 47-150% mg/L 1 -------Trichloroethene (TCE) 0.0228 0.000250 0.000500 mg/L 1 0.0200 0.00131 108 71-157% ----Vinyl chloride 0.0205 0.000250 0.000500 mg/L 1 0.0200 ND 103 5-251% -------0.000750 Xylenes, total 0.0686 0.00150 mg/L 1 0.0600 ND 114 70-130% -------Acetone 0.327 0.0100 0.0200 mg/L 1 0.0400 0.327 0.8 70-130% ----Q-01 Surr: 1,4-Difluorobenzene (Surr) Recovery: 99% Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 97 % 80-120 % " 102 % 80-120 % 4-Bromofluorobenzene (Surr)

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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.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Polychlorinated Biphenyls by EPA 608 | | | | | | | | | | | | |
|--------------------------------------|-------------|--------------------|--------------------|------------|------------|-----------------|------------------|-------|-----------------|-----|--------------|-------------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9110990 - EPA 3510C (| Neutral pH) |) | | | | | Wate | er | | | | |
| Blank (9110990-BLK1) | | | Prepared: | 11/20/19 (|)8:16 Anal | yzed: 11/21/ | 19 08:39 | | | | | <u>C-07</u> |
| <u>608 PCB</u> | | | | | | | | | | | | |
| Aroclor 1016 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1221 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1232 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1242 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1248 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1254 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1260 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Surr: Decachlorobiphenyl (Surr) | | Recov | ery: 78 % | Limits: 40 | -135 % | Dilu | ition: 1x | | | | | |
| LCS (9110990-BS1) | | | Prepared: | 11/20/19 (|)8:16 Anal | yzed: 11/21/ | 19 08:57 | | | | | C-07 |
| <u>608 PCB</u> | | | | | | | | | | | | |
| Aroclor 1016 | 0.00179 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00250 | | 71 | 50-140% | | | |
| Aroclor 1260 | 0.00204 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00250 | | 82 | 8-140% | | | |
| Surr: Decachlorobiphenyl (Surr) | | Recov | ery: 71 % | Limits: 40 | -135 % | Dilu | ition: 1x | | | | | |
| LCS Dup (9110990-BSD1) | | | Prepared: | 11/20/19 (|)8:16 Anal | yzed: 11/21/ | 19 09:15 | | | | | C-07, Q-19 |
| <u>608 PCB</u> | | | | | | | | | | | | |
| Aroclor 1016 | 0.00174 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00250 | | 70 | 50-140% | 3 | 36% | |
| Aroclor 1260 | 0.00188 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00250 | | 75 | 8-140% | 8 | 38% | |
| Surr: Decachlorobiphenyl (Surr) | | Recov | ery: 75 % | Limits: 40 | -135 % | Dilu | tion: 1x | | | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Organoch | lorine F | Pesticide | s by EPA 6 | 808 | | | | | |
|------------------------------|--------------|--------------------|--------------------|------------|-----------|-----------------|------------------|-------|-----------------|-----|--------------|------------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9120397 - EPA 3510C (I | Neutral pH)/ | 3640A (GPC |) | | | | Wat | er | | | | |
| Blank (9120397-BLK2) | | | Prepared: | 11/21/19 | 09:39 Ana | lyzed: 12/05/ | 19 13:14 | | | | | C-05 |
| <u>608 Pest</u> | | | | | | | | | | | | |
| Aldrin | ND | 0.0000273 | 0.0000545 | mg/L | 1 | | | | | | | Q-3 |
| 4,4'-DDD | ND | 0.0000273 | 0.0000545 | mg/L | 1 | | | | | | | |
| 4,4'-DDE | ND | 0.00000455 | 5 0.00000909 | mg/L | 1 | | | | | | | |
| 4,4'-DDT | ND | 0.0000273 | 0.0000545 | mg/L | 1 | | | | | | | |
| Dieldrin | ND | 0.0000273 | 0.0000545 | mg/L | 1 | | | | | | | |
| Chlordane (Technical) | ND | 0.000336 | 0.000682 | mg/L | 1 | | | | | | | |
| Surr: 2,4,5,6-TCMX (Surr) | | Recov | ery: 27 % | Limits: 25 | -140 % | Dilu | tion: 1x | | | | | |
| Decachlorobiphenyl (Surr) | | | 49 % | 30 | -135 % | | " | | | | | |
| LCS (9120397-BS2) | | | Prepared: | 11/21/19 | 09:39 Ana | lyzed: 12/05/ | 19 13:31 | | | | | C-05 |
| <u>608 Pest</u> | | | | | | | | | | | | |
| Aldrin | 0.000198 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 40 | 42-140% | | | Q-3 |
| 4,4'-DDD | 0.000334 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 67 | 31-141% | | | |
| 4,4'-DDE | 0.000289 | 0.00000500 | 0.0000100 | mg/L | 1 | 0.000500 | | 58 | 30-145% | | | |
| 4,4'-DDT | 0.000392 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 78 | 25-160% | | | |
| Dieldrin | 0.000369 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 74 | 36-146% | | | |
| Surr: 2,4,5,6-TCMX (Surr) | | Recov | ery: 27 % | Limits: 25 | -140 % | Dilu | tion: 1x | | | | | |
| Decachlorobiphenyl (Surr) | | | 63 % | 30 | -135 % | | " | | | | | |
| LCS Dup (9120397-BSD2) | | | Prepared: | 11/21/19 | 09:39 Ana | lyzed: 12/05/ | 19 13:49 | | | | | C-05, Q-19 |
| <u>608 Pest</u> | | | | | | | | | | | | |
| Aldrin | 0.000259 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 52 | 42-140% | 27 | 35% | |
| 4,4'-DDD | 0.000390 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 78 | 31-141% | 15 | 39% | |
| 4,4'-DDE | 0.000355 | 0.00000500 | 0.0000100 | mg/L | 1 | 0.000500 | | 71 | 30-145% | 20 | 35% | |
| 4,4'-DDT | 0.000454 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 91 | 25-160% | 15 | 42% | |
| Dieldrin | 0.000433 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 87 | 36-146% | 16 | 49% | |
| Surr: 2,4,5,6-TCMX (Surr) | | Recov | ery: 42 % | Limits: 25 | -140 % | Dilu | tion: 1x | | | | | |
| Decachlorobiphenyl (Surr) | | | 63 % | 30 | -135 % | | " | | | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-------------------------------|------------|--------------------|--------------------|------------|------------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Batch 9111057 - EPA 3510C (A | cid Extrac | tion) | | | | | Wat | er | | | | |
| Blank (9111057-BLK2) | | | Prepared: | 11/21/19 1 | 0:09 Anal | yzed: 11/21/ | 19 15:15 | | | | | |
| <u>EPA 625</u> | | | | | | | | | | | | |
| Acenaphthene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Anthracene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Benz(a)anthracene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Benzo(a)pyrene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Benzo(k)fluoranthene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Chrysene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Fluoranthene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Fluorene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Hexachlorobenzene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Pyrene | ND | 0.0000227 | 0.0000455 | mg/L | 1 | | | | | | | |
| Pentachlorophenol (PCP) | ND | 0.0000909 | 0.000182 | mg/L | 1 | | | | | | | |
| Surr: 2-Fluorobiphenyl (Surr) | | Recove | ery: 67 % | Limits: 45 | -120 % | Dilu | tion: 1x | | | | | |
| p-Terphenyl-d14 (Surr) | | | 80 % | 30 | -125 % | | " | | | | | |
| 2,4,6-Tribromophenol (Surr) | | | 76 % | 35 | -125 % | | " | | | | | |
| LCS (9111057-BS2) | | | Prepared: | 11/21/19 1 | .0:09 Anal | yzed: 11/21/ | 19 15:51 | | | | | |
| EPA 625 | | | 792 | | | | | | | | | |
| Acenaphthene | 0.00276 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 69 | 47-145% | | | |
| Anthracene | 0.00302 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 75 | 27-133% | | | |
| Benz(a)anthracene | 0.00331 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 83 | 33-143% | | | |
| Benzo(a)pyrene | 0.00314 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 79 | 17-163% | | | |
| Benzo(b)fluoranthene | 0.00309 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 77 | 24-159% | | | |
| Benzo(k)fluoranthene | 0.00320 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 80 | 11-162% | | | |
| Chrysene | 0.00319 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 80 | 17-168% | | | |
| Dibenz(a,h)anthracene | 0.00326 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 82 | 1-227% | | | |
| Fluoranthene | 0.00319 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 80 | 26-137% | | | |
| Fluorene | 0.00285 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 71 | 59-121% | | | |
| Hexachlorobenzene | 0.00301 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 75 | 5-152% | | | |
| Indeno(1,2,3-cd)pyrene | 0.00312 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 78 | 1-171% | | | |
| Pyrene | 0.00316 | 0.0000250 | 0.0000500 | mg/L | 1 | 0.00400 | | 79 | 52-115% | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Total Metals by EPA 200.8 (ICPMS) | | | | | | | | | | | | |
|-----------------------------------|-------------------|--------------------|--------------------|--------------------|------------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9111225 - EPA 3015A | | | | | | | Wate | ər | | | | |
| Blank (9111225-BLK1) | | | Prepared: | 11/26/19 1 | 12:15 Anal | yzed: 11/27 | /19 03:05 | | | | | |
| EPA 200.8 | | | | | | | | | | | | |
| Copper | ND | 0.000500 | 0.00100 | mg/L | 1 | | | | | | | |
| Iron | ND | 0.0250 | 0.0500 | mg/L | 1 | | | | | | | |
| Lead | ND | 0.000100 | 0.000200 | mg/L | 1 | | | | | | | |
| Zinc | ND | 0.00200 | 0.00400 | mg/L | 1 | | | | | | | |
| LCS (9111225-BS1) | | | Prepared: | <u>11/26</u> /19 1 | 12:15 Anal | yzed: 11/27 | /19 03:10 | | | | | |
| EPA 200.8 | | | | | | | | | | | | |
| Copper | 0.0537 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | | 97 | 85-115% | | | |
| Iron | 2.78 | 0.0250 | 0.0500 | mg/L | 1 | 2.78 | | 100 | 85-115% | | | |
| Lead | 0.0555 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | | 100 | 85-115% | | | |
| Zinc | 0.0530 | 0.00200 | 0.00400 | mg/L | 1 | 0.0556 | | 95 | 85-115% | | | |
| Duplicate (9111225-DUP1) | | | Prepared: | 11/26/19 1 | 12:15 Anal | yzed: 11/27/ | /19 03:28 | | | | | |
| QC Source Sample: Non-SDG (A9K | <u> (0563-01)</u> | | | | | | | | | | | |
| Copper | 0.0118 | 0.000500 | 0.00100 | mg/L | 1 | | 0.0123 | | | 5 | 20% | |
| Iron | 3.62 | 0.0250 | 0.0500 | mg/L | 1 | | 4.45 | | | 20 | 20% | |
| Lead | 0.00272 | 0.000100 | 0.000200 | mg/L | 1 | | 0.00283 | | | 4 | 20% | |
| Zinc | 0.0928 | 0.00200 | 0.00400 | mg/L | 1 | | 0.0946 | | | 2 | 20% | |
| Matrix Spike (9111225-MS1) | | | Prepared: | 11/26/19 1 | 12:15 Anal | yzed: 11/27/ | /19 03:33 | | | | | |
| QC Source Sample: Non-SDG (A9k | <u>(0563-01)</u> | | | | | | | | | | | |
| EPA 200.8 | | | | | | | | | | | | |
| Copper | 0.0662 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | 0.0123 | 97 | 70-130% | | | |
| Iron | 7.64 | 0.0250 | 0.0500 | mg/L | 1 | 2.78 | 4.45 | 115 | 70-130% | | | |
| Lead | 0.0590 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | 0.00283 | 101 | 70-130% | | | |
| Zinc | 0.150 | 0.00200 | 0.00400 | mg/L | 1 | 0.0556 | 0.0946 | 100 | 70-130% | | | |
| Matrix Spike (9111225-MS2) | | | Prepared: | 11/26/19 1 | 2:15 Anal | yzed: 11/27/ | /19 05:10 | | | | | |
| OC Source Sample: Non-SDG (A98 | <u> (0766-03)</u> | | | | | | | | | | | |
| EPA 200.8 | | | | | | | | | | | | |
| Copper | 0.0588 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | 0.00506 | 97 | 70-130% | | | |
| ron | 8.08 | 0.0250 | 0.0500 | mø/L | 1 | 2.78 | 5.06 | 109 | 70-130% | | | |

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|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |
| | | |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | Total Metals by EPA 200.8 (ICPMS) | | | | | | | | | | | |
|--------------------------------|-----------------------------------|--------------------|--------------------|------------|------------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9111225 - EPA 3015A | | | | | | | Wate | er | | | | |
| Matrix Spike (9111225-M82) | | | Prepared | : 11/26/19 | 12:15 Anal | yzed: 11/27 | /19 05:10 | | | | | |
| QC Source Sample: Non-SDG (A9k | (0766-03) | | | | | | | | | | | |
| Lead | 0.0563 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | 0.000768 | 100 | 70-130% | | | |
| Zinc | 0.0783 | 0.00200 | 0.00400 | mg/L | 1 | 0.0556 | 0.0256 | 95 | 70-130% | | | |

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Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: Gasco - 1200Z - 2019 | |
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| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Dissolved Metals by EPA 200.8 (ICPMS) | | | | | | | | | | | | |
|---------------------------------------|------------------|--------------------|--------------------|----------|------------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9111067 - Matrix Matche | d Direct In | ject | | | | | Wate | er | | | | |
| Blank (9111067-BLK1) | | | Prepared: | 11/21/19 | 12:25 Anal | yzed: 11/22 | 2/19 15:41 | | | | | |
| EPA 200.8 (Diss) | | | | | | | | | | | | |
| Copper | ND | 0.000500 | 0.00100 | mg/L | 1 | | | | | | | |
| Lead | ND | 0.000100 | 0.000200 | mg/L | 1 | | | | | | | |
| LCS (9111067-BS1) | | | Prepared: | 11/21/19 | 12:25 Anal | yzed: 11/22 | 2/19 15:59 | | | | | |
| EPA 200.8 (Diss) | | | | | | | | | | | | |
| Copper | 0.0550 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | | 99 | 85-115% | | | |
| Lead | 0.0527 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | | 95 | 85-115% | | | |
| Duplicate (9111067-DUP1) | | | Prepared: | 11/21/19 | 12:25 Anal | yzed: 11/22 | 2/19 16:22 | | | | | |
| OC Source Sample: Non-SDG (A9) | <u>K0537-02)</u> | | | | | | | | | | | |
| Copper | 0.0108 | 0.000500 | 0.00100 | mg/L | 1 | | 0.0110 | | | 2 | 20% | |
| Lead | 0.000212 | 0.000100 | 0.000200 | mg/L | 1 | | 0.000234 | | | 10 | 20% | |
| Matrix Spike (9111067-MS1) | | | Prepared: | 11/21/19 | 12:25 Anal | yzed: 11/22 | 2/19 16:27 | | | | | |
| QC Source Sample: Non-SDG (A9 | <u>K0537-02)</u> | | | | | | | | | | | |
| EPA 200.8 (Diss) | | | | | | | | | | | | |
| Copper | 0.0659 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | 0.0110 | 99 | 70-130% | | | |
| Lead | 0.0556 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | 0.000234 | 100 | 70-130% | | | |
| Matrix Spike (9111067-MS2) | | | Prepared: | 11/21/19 | 12:25 Anal | yzed: 11/22 | 2/19 20:19 | | | | | |
| OC Source Sample: Non-SDG (A9) | <u>K0645-03)</u> | | | | | | | | | | | |
| EPA 200.8 (Diss) | | | | | | | | | | | | |
| Copper | 0.0574 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | 0.00412 | 96 | 70-130% | | | |
| Lead | 0.0547 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | 0.000146 | 98 | 70-130% | | | |

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| | | |

QUALITY CONTROL (QC) SAMPLE RESULTS

HEM (Oil and Grease) and SGT-HEM by EPA 1664A

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|------------------------------|------------|--------------------|--------------------|--------------|-----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Batch 9110988 - EPA 1664 | | | | | | | Wat | er | | | | |
| Blank (9110988-BLK1) | | | Prepared | : 11/20/19 (| 07:30 Ana | lyzed: 11/21/ | /19 09:14 | | | | | |
| EPA 1664A | | | | | | | | | | | | |
| HEM (Oil and Grease) | ND | 4.55 | 4.55 | mg/L | 1 | | | | | | | |
| LCS (9110988-BS1) | | | Prepared | : 11/20/19 (| 07:30 Ana | lyzed: 11/21/ | (19 09:14 | | | | | |
| <u>EPA 1664A</u> | | | | | | | | | | | | |
| HEM (Oil and Grease) | 37.2 | | | mg/L | 1 | 40.0 | | 93 | 78-114% | | | |
| Matrix Spike (9110988-MS1) | | | Prepared | : 11/20/19 (| 07:30 Ana | lyzed: 11/21/ | 19 09:14 | | | | | |
| OC Source Sample: Non-SDG (A | 9K0562-01) | | | | | | | | | | | |
| <u>EPA 1664A</u> | | | | | | | | | | | | |
| HEM (Oil and Grease) | 33.4 | | | mg/L | 1 | 40.8 | ND | 82 | 78-114% | | | |

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Darwin Thomas, Business Development Director



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| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry | | | | | | | | | | | | | | |
|---|---|---|--------------------|-------|---|-----------------|------------------|-------|-----------------|-----|--------------|-------|--|--|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes | | |
| Batch 9111009 - Method Prep: | | Water | | | | | | | | | | | | |
| Blank (9111009-BLK1) | Prepared: | Prepared: 11/20/19 12:45 Analyzed: 11/20/19 19:38 | | | | | | | | | | | | |
| <u>D4282-02</u> Free Cyanide | ND | 0.00250 | 0.00500 | mg/L | 1 | | | | | | | | | |
| LCS (9111009-BS1) | Prepared: 11/20/19 12:45 Analyzed: 11/20/19 19:39 | | | | | | | | | | | | | |
| D4282-02 Free Cyanide | 0.0717 | 0.00250 | 0.00500 | mg/L | 1 | 0.0667 | | 108 | 85-115% | | | | | |
| LCS Dup (9111009-BSD1) | Prepared: 11/20/19 12:45 Analyzed: 11/20/19 19:45 | | | | | | | | | | | | | |
| D4282-02 Free Cyanide | 0.0722 | 0.00250 | 0.00500 | mg/L | 1 | 0.0667 | | 108 | 85-115% | 0.7 | 10% | | | |
| Duplicate (9111009-DUP1) | Prepared: 11/20/19 12:45 Analyzed: 11/20/19 19:46 | | | | | | | | | | | | | |
| OC Source Sample: 0107-01-11191 | 9 (A9K056 | <u>6-01)</u> | | | | | | | | | | | | |
| D4282-02 Free Cyanide | ND | 0.00250 | 0.00500 | mg/L | 1 | | ND | | | | 20% | | | |
| Matrix Spike (9111009-MS1) | Spike (9111009-MS1) | | | | Prepared: 11/20/19 12:45 Analyzed: 11/20/19 19:46 | | | | | | | | | |
| OC Source Sample: 0107-01-11191 | 9 (A9K056 | <u>6-01)</u> | | | | | | | | | | | | |
| D4282-02 Free Cyanide | 0.0669 | 0.00250 | 0.00500 | mg/L | 1 | 0.0667 | ND | 100 | 80-120% | | | | | |

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Darwin Thomas, Business Development Director

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

Anchor QEA, LLC Project: Gasco - 1200Z - 2019 6720 SW Macadam Ave. Suite 125 Project Number: 000029-02.58 task 14 **Report ID:** Portland, OR 97219 Project Manager: Kendra Skellenger A9K0566 - 12 17 19 0451

QUALITY CONTROL (QC) SAMPLE RESULTS

Weak Acid Dissociable (WAD) Cyanide by Flow Analysis (Aqueous) % REC RPD Detection Reporting Spike Source Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Notes Limit Batch 9111003 - Lachat Micro Dist - aqueous Water Blank (9111003-BLK1) Prepared: 11/20/19 11:01 Analyzed: 11/20/19 18:47 SM 4500-CN I WAD Cyanide ND 0.00500 0.00500 mg/L 1 ----LCS (9111003-BS1) Prepared: 11/20/19 11:01 Analyzed: 11/20/19 18:49 SM 4500-CN I 0.229 0.00500 0.00500 WAD Cyanide 0.250 92 85-115% mg/L 1 ----------Duplicate (9111003-DUP1) Prepared: 11/20/19 11:01 Analyzed: 11/20/19 18:59 OC Source Sample: Non-SDG (A9K0230-02RE1) WAD Cyanide ND 0.00500 0.00500 mg/L 1 ND 20% -------------Matrix Spike (9111003-MS1) Prepared: 11/20/19 11:01 Analyzed: 11/20/19 19:01 QC Source Sample: Non-SDG (A9K0230-02RE1) SM 4500-CN I WAD Cyanide 0.212 0.00500 0.00500 mg/L 1 0.250 ND 85 80-120% -------

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Solid a | and Moist | ture Dete | rmination | S | | | | | |
|--|-------------------|--------------------|--------------------|-------------|-----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9111162 - Total Suspen | ded Solids | 5 | | | | | Wat | er | | | | |
| Blank (9111162-BLK1) | | | Prepared | l: 11/25/19 | 10:36 Ana | lyzed: 11/25 | /19 15:53 | | | | | |
| <u>SM 2540 D</u> Total Suspended Solids | ND | 5.00 | 5.00 | mg/L | 1 | | | | | | | |
| Duplicate (9111162-DUP1) | | | Prepared | l: 11/25/19 | 10:36 Ana | lyzed: 11/25 | /19 15:53 | | | | | |
| QC Source Sample: Non-SDG (A | 9K0561-01) | | | | | | | | | | | |
| Total Suspended Solids | ND | 5.00 | 5.00 | mg/L | 1 | | ND | | | | 10% | |
| Duplicate (9111162-DUP2) | | | Prepared | l: 11/25/19 | 10:36 Ana | lyzed: 11/25 | /19 15:53 | | | | | |
| QC Source Sample: Non-SDG (A | <u>9K0576-01)</u> | | | | | | | | | | | |
| Total Suspended Solids | 56.0 | 5.00 | 5.00 | mg/L | 1 | | 54.0 | | | 4 | 10% | |
| Reference (9111162-SRM1) | | | Prepared | l: 11/25/19 | 10:36 Ana | lyzed: 11/25 | /19 15:53 | | | | | |
| <u>SM 2540 D</u> Total Sugnandad Salida | 04.0 | | | ma/I | 1 | 100 | | 04 7 | 7 1 11004 | | | |
| Total Suspended Solids | 94.0 | | | mg/L | 1 | 100 | | 94 / | /.1-110% | | | |

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Darwin Thomas, Business Development Director

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project:Gasco - 1200Z - 2019Project Number:000029-02.58 task 14Project Manager:Kendra Skellenger

<u>Report ID:</u> A9K0566 - 12 17 19 0451

Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Metals | by EPA | 200 Serie | s Method | S | | | | | |
|----------------------------------|----------|--------------------|--------------------|----------|-----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch W9K1406 - EPA 245.1 | | | | | | | Wat | er | | | | 12 |
| Blank (W9K1406-BLK1) | | | Prepared: | 11/25/19 | 15:20 Ana | yzed: 11/27/ | 19 15:46 | | | | | |
| <u>EPA 245.1</u> | | | | | | | | | | | | |
| Mercury, Total | ND | | 0.000050 | mg/l | 1 | | | | | | | |
| LCS (W9K1406-BS1) | | | Prepared: | 11/25/19 | 15:20 Ana | yzed: 11/27/ | 19 15:48 | | | | | |
| EPA 245.1 | | | | | | | | | | | | |
| Mercury, Total | 0.00106 | | 0.000050 | mg/l | 1 | 0.00100 | | 106 | 85-115% | | | |
| Matrix Spike (W9K1406-MS1) | | | Prepared: | 11/25/19 | 15:20 Ana | yzed: 11/27/ | 19 16:08 | | | | | |
| QC Source Sample: Non-SDG (9K2 | 0015-01) | | | | | | | | | | | |
| <u>EPA 245.1</u> | | | | | | | | | | | | |
| Mercury, Total | 0.000948 | | 0.000050 | mg/l | 1 | 0.00100 | ND | 95 | 70-130% | | | |
| Matrix Spike (W9K1406-MS2) | | | Prepared: | 11/25/19 | 15:20 Ana | yzed: 11/27/ | 19 16:37 | | | | | |
| QC Source Sample: Non-SDG (9K2 | 0118-04) | | | | | | | | | | | |
| Mercury, Total | 0.00103 | | 0.000050 | mg/l | 1 | 0.00100 | ND | 103 | 70-130% | | | |
| Matrix Spike Dup (W9K1406-M | 1SD1) | | Prepared: | 11/25/19 | 15:20 Ana | yzed: 11/27/ | 19 16:10 | | | | | |
| OC Source Sample: Non-SDG (9K2 | 0015-01) | | - | | | | | | | | | |
| Mercury, Total | 0.000954 | | 0.000050 | mg/l | 1 | 0.00100 | ND | 95 | 70-130% | 0.6 | 20% | |
| Matrix Spike Dup (W9K1406-N | 1SD2) | | Prepared: | 11/25/19 | 15:20 Ana | vzed: 11/27/ | 19 16:39 | | | | | |
| OC Source Sample: Non SDC (01/2) | | | TT-Parton. | | | | | | | | | |
| Mercury, Total | 0.00102 | | 0.000050 | mg/l | 1 | 0.00100 | ND | 102 | 70-130% | 1 | 20% | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: | <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|------------------|-----------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: | 000029-02.58 task 14 | Report ID: |
| Portland, OR 97219 | Project Manager: | Kendra Skellenger | A9K0566 - 12 17 19 0451 |

SAMPLE PREPARATION INFORMATION

| | | Purgeabl | e Organic Compound | ds by EPA 624.1 | | | |
|----------------------|-------------------|--------------------|-----------------------|-----------------|------------------|------------------|---------|
| Prep: EPA 5030B | | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9110994 | | | | | | | |
| A9K0566-01 | Water | EPA 624 | 11/19/19 08:10 | 11/20/19 11:15 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9K0566-02 | Water | EPA 624 | 11/19/19 09:20 | 11/20/19 11:15 | 5mL/5mL | 5mL/5mL | 1.00 |
| | | Polyc | hlorinated Biphenyls | by EPA 608 | | | |
| Prep: EPA 3510C (Ne | eutral pH) | а тако , та | | | Sample | Default | RL Pren |
| Lah Number | Moteria | Mathad | Ramulad | Proporad | Initial/Final | Initial/Final | Factor |
| Batch: 9110990 | Matrix | Method | Sampled | rrepared | Internet I filmi | Internet I filmi | 1 40001 |
| A9K0566-01 | Water | 608 PCB | 11/19/19 08:10 | 11/20/19 08:16 | 1060mL/5mL | 1000mL/5mL | 0.94 |
| | | | | | | | |
| | | Orgai | nochlorine Pesticides | by EPA 608 | | | |
| Prep: EPA 3510C (Ne | utral pH)/3640A (| GPC) | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9120397 | | | 1 | 1 | | | |
| A9K0566-01RE2 | Water | 608 Pest | 11/19/19 08:10 | 11/21/19 09:39 | 1060mL/10mL | 1000mL/5mL | 1.89 |
| | | | | | | | |
| | | Semivola | tile Organic Compou | nds by EPA 625 | | | |
| Prep: EPA 3510C (Aci | d Extraction) | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9111057 | | | | | | | |
| A9K0566-01 | Water | EPA 625 | 11/19/19 08:10 | 11/21/19 11:13 | 1030mL/5mL | 1000mL/5mL | 0.97 |
| | | | | | | | |
| | | Tota | l Metals by EPA 200 | .8 (ICPMS) | | | |
| Prep: EPA 3015A | | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9111225 | | | | | | | |
| A9K0566-01 | Water | EPA 200.8 | 11/19/19 08:10 | 11/26/19 12:15 | 45mL/50mL | 45mL/50mL | 1.00 |
| | | . | | | | | |
| | | Dissol | ved Metals by EPA 2 | 00.8 (ICPMS) | | | |
| Prep: Matrix Matched | Direct Inject | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9111067 | | | | | | | |

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| <u>Anchor QEA, LLC</u> 6720 SW Macadam Av Portland, OR 97219 | re. Suite 125 | P Pr | Project:Gasco - 1200Z - 2019Project Number:000029-02.58 task 14Project Manager:Kendra Skellenger | | | | |
|--|---------------|---------------------|--|----------------------|----------------|---------------|---------|
| | | SAMPLE | PREPARATION I | NFORMATION | | | |
| | | Dissolv | red Metals by EPA 2 | 00.8 (ICPMS) | | | |
| Prep: Matrix Matched | Direct Inject | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| A9K0566-01 | Water | EPA 200.8 (Diss) | 11/19/19 08:10 | 11/21/19 12:25 | 45mL/50mL | 45mL/50mL | 1.00 |
| | | HEM (Oil and | Grease) and SGT- | HEM by EPA 1664A | | | |
| Prep: EPA 1664 | | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| <u>Batch: 9110988</u> A9K0566-01 | Water | EPA 1664A | 11/19/19 08:10 | 11/20/19 07:30 | | | NA |
| | | Free Cyanide by N | licrodiffusion/Colorir | metric Spectrophotor | netry | | |
| Prep: Method Prep: A | q | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9111009 A9K0566-01 | Water | D4282-02 | 11/19/19 08:10 | 11/20/19 12:45 | 3mL/3mL | 3mL/3mL | 1.00 |
| | | Weak Acid Dissociat | ble (WAD) Cyanide t | by Flow Analysis (Aq | ueous) | | |
| Prep: Lachat Micro Di | st - aqueous | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| <u>Batch: 9111003</u> A9K0566-01 | Water | SM 4500-CN I | 11/19/19 08:10 | 11/20/19 11:01 | 6mL/6mL | 6mL/6mL | 1.00 |
| | | Sali | d and Maistura Data | rminations | | | |
| | 4.0-114- | 5010 | | anninduons | | | |
| Prep: lotal Suspende | a Solias | | | | Sample | Default | RL Prep |
| Lab Number Batch: 9111162 | Matrix | Method | Sampled | Prepared | innual/1 inlat | inual/1 Illai | racior |
| A9K0566-01 | Water | SM 2540 D | 11/19/19 08:10 | 11/25/19 10:36 | | | NA |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |
| | | |

Weck Laboratories, Inc.

SAMPLE PREPARATION INFORMATION

| Metals by EPA 200 Series Methods | | | | | | | |
|----------------------------------|--------|-----------|----------------|----------------|---------------|---------------|---------|
| Prep: EPA 245.1 | | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: W9K1406 | | | | | | | |
| A9K0566-01 | Water | EPA 245.1 | 11/19/19 08:10 | 11/25/19 15:20 | 50m1/50m1 | 50ml/50ml | 1.00 |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: <u>Gasco - 1200Z - 2019</u>

Project Number: 000029-02.58 task 14 Project Manager: Kendra Skellenger <u>Report ID:</u> A9K0566 - 12 17 19 0451

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- O-01 Result for total Hexane Extractable Material (HEM) is below reporting level for this sample. Silica Gel Treatment (HEM-SGT) analysis was therefore not performed.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-30 Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.

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Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 <u>EPA ID: OR01039</u>

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125 Portland, OR 97219 Project: <u>Gasco - 1200Z - 2019</u>

Project Number: 000029-02.58 task 14 Project Manager: Kendra Skellenger

<u>Report ID:</u> A9K0566 - 12 17 19 0451

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

| DET | Analyte DETECTED at or above the detection or reporting limit. |
|-----|---|
| ND | Analyte NOT DETECTED at or above the detection or reporting limit. |
| NR | Result Not Reported |
| RPD | Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery. |
| | |

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- "<u>dry</u>" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "___ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- "--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- "*** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

<u>Blanks:</u>

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL). -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier. -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: <u>Gasco - 1200Z - 2019</u>

Project Number: 000029-02.58 task 14 Project Manager: Kendra Skellenger

<u>Report ID:</u> A9K0566 - 12 17 19 0451

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9K0566 - 12 17 19 0451 |
| | | |
| | LABORATORY ACCREDITATION INFORMATION | |

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

| Apex Lab | | | | | |
|----------|----------|--------|---------|--------|---------------|
| Matrix | Analysis | TNI_ID | Analyte | TNI_ID | Accreditation |
| | | | | | |

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Anox I aboratorias

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LI | <u>.C</u> yyy Ayo Suito 125 | Project: <u>Gasco - 1200Z - 2019</u> Project Number: 000020 02 58 tool: 14 | Derect ID |
|-----------------|--|---|--|
| Portland, OR 9 | 219 | Project Manager: Kendra Skellenger | <u>Report ID:</u> A9K0566 - 12 17 19 0451 |
| Portland, OR 97 | 219 APEX Client: Ancho Project/Project #: $Ga_{5\iota_0}$ $2o$ Delivery Info: Date/time received: $1/19/19$ @ 11 Delivered by: Apex \checkmark ClientESS Cooler Inspection Date/time inspect Chain of Custody included? Yes \checkmark N Signed/dated by client? Yes \checkmark N Signed/dated by client? Yes \checkmark N Signed/dated by Apex? Yes \checkmark N Signed/dated by Apex? Yes \checkmark N Cooler #1 G Temperature (°C) $0, 3$ Received on ice? (Y/N) Υ Temp. blanks? (Y/N) Υ Ice type: (Gel/Real/Other) Real Cooler out of temp? (YM) Possible reaso If some coolers are in temp and some out, Out of temperature samples form initiated Samples Inspection: Date/time inspect All samples intact? Yes \checkmark No Co | Project Manager: Kendra Skellenger LABS COOLER RECEIPT FORM | A9K0566 - 12 17 19 0451 |
| | Bottle labels/COCs agree? Yes X No COC/container discrepancies form initiate Containers/volumes received appropriate in Do VOA vials have visible headspace? Comments TB full US Water samples: pH checked: YesX No Comments: | Comments: ed? Yes No NA X for analysis? Yes X No Comments: Yes X No NA _NA pH appropriate? Yes NoNA | |
| | Additional information: 18# 2146 | Subsampled by Nitnessed by: See Project Conta NRP | act Form: Y |

Apex Laboratories



Friday, January 3, 2020 Kendra Skellenger Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

RE: A9L0371 - Gasco - 1200Z - 2019 - 000029-02.58 task 14

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9L0371, which was received by the laboratory on 12/11/2019 at 11:47:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>dthomas@apex-labs.com</u>, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information (See Cooler Receipt Form for details) Cooler #1 3.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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.

Darwin Thomas, Business Development Director

Page 1 of 36



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: | <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|-----------------|-----------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number | 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager | Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL REPORT FOR SAMPLES

| SAMPLE INFORMATION | | | | | | | | |
|--------------------|---------------|--------|----------------|----------------|--|--|--|--|
| Client Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received | | | | |
| 0107-02-121019 | A9L0371-01 | Water | 12/10/19 15:10 | 12/11/19 11:47 | | | | |
| TB-121019 | A9L0371-02 | Water | 12/10/19 00:00 | 12/11/19 11:47 | | | | |

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Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| Purgeable Organic Compounds by EPA 624.1 | | | | | | | | |
|--|------------------|--------------------|--------------------|------------------|----------|------------------|-------------|-------|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: Wate | er | Batch: | 9120776 | |
| Benzene | 0.000217 | 0.000125 | 0.000250 | mg/L | 1 | 12/11/19 19:48 | EPA 624 | J |
| Toluene | ND | 0.000500 | 0.00100 | mg/L | 1 | 12/11/19 19:48 | EPA 624 | |
| Xylenes, total | ND | 0.000750 | 0.00150 | mg/L | 1 | 12/11/19 19:48 | EPA 624 | |
| Surrogate: 1,4-Difluorobenzene (Surr) | | Recover | ry: 96 % | Limits: 80-120 % | 1 | 12/11/19 19:48 | EPA 624 | |
| Toluene-d8 (Surr) | | | 99 % | 80-120 % | 1 | 12/11/19 19:48 | EPA 624 | |
| 4-Bromofluorobenzene (Surr) | | | 97 % | 80-120 % | 1 | 12/11/19 19:48 | EPA 624 | |
| TB-121019 (A9L0371-02) | | | | Matrix: Wate | er | Batch: | 9120776 | |
| Benzene | ND | 0.000125 | 0.000250 | mg/L | 1 | 12/11/19 19:21 | EPA 624 | |
| Toluene | ND | 0.000500 | 0.00100 | mg/L | 1 | 12/11/19 19:21 | EPA 624 | |
| Xylenes, total | ND | 0.000750 | 0.00150 | mg/L | 1 | 12/11/19 19:21 | EPA 624 | |
| Surrogate: 1,4-Difluorobenzene (Surr) | | Recover | ry: 96 % | Limits: 80-120 % | 1 | 12/11/19 19:21 | EPA 624 | |
| Toluene-d8 (Surr) | | | 100 % | 80-120 % | 1 | 12/11/19 19:21 | EPA 624 | |
| 4-Bromofluorobenzene (Surr) | | | 101 % | 80-120 % | 1 | 12/11/19 19:21 | EPA 624 | |

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Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| Polychlorinated Biphenyls by EPA 608 | | | | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|------------------|----------|------------------|-------------|-------|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: Wate | er | Batch: | 9120946 | C-07 |
| Aroclor 1016 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Aroclor 1221 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Aroclor 1232 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Aroclor 1242 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Aroclor 1248 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Aroclor 1254 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Aroclor 1260 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Aroclor 1262 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Aroclor 1268 | ND | 0.0000500 | 0.000100 | mg/L | 1 | 12/17/19 20:03 | 608 PCB | |
| Surrogate: Decachlorobiphenyl (Surr) | | Recov | ery: 86 % | Limits: 40-135 % | 6 1 | 12/17/19 20:03 | 608 PCB | |

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| Organochlorine Pesticides by EPA 608 | | | | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|------------------|----------|------------------|-------------|-------|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
| 0107-02-121019 (A9L0371-01RE1) | | | | Matrix: Wate | er | Batch: | 9121209 | C-05 |
| Aldrin | ND | 0.0000280 | 0.0000561 | mg/L | 1 | 12/23/19 18:03 | 608 Pest | |
| 4,4'-DDD | ND | 0.0000280 | 0.0000561 | mg/L | 1 | 12/23/19 18:03 | 608 Pest | |
| 4,4'-DDE | ND | 0.00000467 | 0.00000935 | mg/L | 1 | 12/23/19 18:03 | 608 Pest | |
| 4,4'-DDT | ND | 0.0000280 | 0.0000561 | mg/L | 1 | 12/23/19 18:03 | 608 Pest | |
| Dieldrin | ND | 0.0000280 | 0.0000561 | mg/L | 1 | 12/23/19 18:03 | 608 Pest | |
| Chlordane (Technical) | ND | 0.000346 | 0.000701 | mg/L | 1 | 12/23/19 18:03 | 608 Pest | |
| Surrogate: 2,4,5,6-TCMX (Surr) | | Recove | ery: 58% L | Limits: 25-140 % | 1 | 12/23/19 18:03 | 608 Pest | |
| Decachlorobiphenyl (Surr) | | | 84 % | 30-135 % | 1 | 12/23/19 18:03 | 608 Pest | |

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Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| Semivolatile Organic Compounds by EPA 625 | | | | | | | | |
|---|------------------|--------------------|--------------------|------------------|----------|------------------|-------------|-------|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: Wate | r | Batch: | 9120768 | |
| Acenaphthene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Anthracene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Benz(a)anthracene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Benzo(a)pyrene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Benzo(b)fluoranthene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Benzo(k)fluoranthene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Chrysene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Dibenz(a,h)anthracene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Fluoranthene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Fluorene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Hexachlorobenzene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Indeno(1,2,3-cd)pyrene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Pyrene | ND | 0.000481 | 0.000962 | mg/L | 4 | 12/12/19 23:37 | EPA 625 | |
| Surrogate: 2-Fluorobiphenyl (Surr) | | Recover | y: 89 % | Limits: 45-120 % | 4 | 12/12/19 23:37 | EPA 625 | |
| p-Terphenyl-dl 4 (Surr) | | | 7 3 % | 30-125 % | 4 | 12/12/19 23:37 | EPA 625 | |
| 2,4,6-Tribromophenol (Surr) | | | 93 % | 35-125 % | 4 | 12/12/19 23:37 | EPA 625 | |

Apex Laboratories

Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| | | Total Meta | als by EPA 20 | 0.8 (ICPMS) | | | | |
|--------------------------------|---------|------------|---------------|-------------|----------|----------------|-------------|-------|
| | Sample | Detection | Reporting | | | Date | | |
| Analyte | Result | Limit | Limit | Units | Dilution | Analyzed | Method Ref. | Notes |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: Wa | ater | | | |
| Batch: 9121147 | | | | | | | | |
| Copper | 0.00341 | 0.000500 | 0.00100 | mg/L | 1 | 12/23/19 18:24 | EPA 200.8 | |
| Lead | 0.00269 | 0.000100 | 0.000200 | mg/L | 1 | 12/23/19 18:24 | EPA 200.8 | |
| Zinc | 0.0332 | 0.00200 | 0.00400 | mg/L | 1 | 12/23/19 18:24 | EPA 200.8 | |
| 0107-02-121019 (A9L0371-01RE1) | | | | Matrix: Wa | ater | | | |
| Batch: 9121147 | | | | | | | | |
| Iron | 0.462 | 0.0250 | 0.0500 | mg/L | 1 | 12/26/19 13:21 | EPA 200.8 | |

Apex Laboratories

Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| Dissolved Metals by EPA 200.8 (ICPMS) | | | | | | | | | | |
|---------------------------------------|------------------|--------------------|--------------------|------------|----------|------------------|------------------|-------|--|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | | |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: Wa | iter | | | | | |
| Batch: 9120968 | | | | | | | | | | |
| Copper | 0.00210 | 0.000500 | 0.00100 | mg/L | 1 | 12/17/19 06:19 | EPA 200.8 (Diss) | | | |
| Lead | ND | 0.000100 | 0.000200 | mg/L | 1 | 12/17/19 06:19 | EPA 200.8 (Diss) | | | |

Apex Laboratories

Darwin Thomas, Business Development Director

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: | <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|------------------|-----------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: | 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: | Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| HEM (Oil and Grease) and SGT-HEM by EPA 1664A | | | | | | | | | | |
|---|------------------|--------------------|--------------------|------------|----------|------------------|-------------|-------|--|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | | |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: Wa | ater | Batch: | 9121142 | | | |
| HEM (Oil and Grease) | ND | 4.76 | 4.76 | mg/L | 1, | 12/23/19 07:38 | EPA 1664A | O-01 | | |

Apex Laboratories

Darwin Thomas, Business Development Director

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry | | | | | | | | | | | |
|---|------------------|--------------------|--------------------|------------|----------|------------------|-------------|-------|--|--|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | | | |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: Wa | ater | Batch: | 9121060 | | | | |
| Free Cyanide | ND | 0.00250 | 0.00500 | mg/L | 1, | 12/18/19 17:04 | D4282-02 | | | | |

Apex Laboratories

Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| Weak Acid Dissociable (WAD) Cyanide by Flow Analysis (Aqueous) | | | | | | | | | | |
|--|----|---------|---------|-----------|------|----------------|--------------|--|--|--|
| Sample Detection Reporting Date Analyte Result Limit Units Dilution Analyzed Method Ref. Notes | | | | | | | | | | |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: W | ater | Batch | 9121129 | | | |
| WAD Cyanide | ND | 0.00500 | 0.00500 | mg/L | 1, | 12/19/19 16:38 | SM 4500-CN I | | | |

Apex Laboratories

Darwin Thomas, Business Development Director

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

ANALYTICAL SAMPLE RESULTS

| Solid and Moisture Determinations | | | | | | | | | | |
|-----------------------------------|------------------|--------------------|--------------------|-------|----------|------------------|-------------|-------|--|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | | |
| 0107-02-121019 (A9L0371-01) | Matrix: Water | | | | | | | | | |
| Batch: 9120907 | | | | | | | | | | |
| Total Suspended Solids | 10.0 | 5.00 | 5.00 | mg/L | 1 | 12/16/19 13:23 | SM 2540 D | | | |

Apex Laboratories

Darwin Thomas, Business Development Director

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: | <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|------------------|-----------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: | 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: | Kendra Skellenger | A9L0371 - 01 03 20 1121 |
| | | | |

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

| Metals by EPA 200 Series Methods | | | | | | | | | | |
|----------------------------------|------------------|--------------------|--------------------|------------|----------|------------------|-------------|-------|--|--|
| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes | | |
| 0107-02-121019 (A9L0371-01) | | | | Matrix: Wa | ater | Batch: | W9L1244 | | | |
| Batch: W9L1244 Mercury, Total | ND | | 0.000050 | mg/l | 1 | 12/30/19 15:09 | EPA 245.1 | | | |

Apex Laboratories

Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |
| | | |

QUALITY CONTROL (QC) SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1 RPD Detection Reporting Spike Source % REC Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Notes Limit Batch 9120776 - EPA 5030B Water Blank (9120776-BLK1) Prepared: 12/11/19 12:00 Analyzed: 12/11/19 15:16 EPA 624 0.000125 0.000250 Benzene ND mg/L 1 Ethylbenzene ND 0.000250 0.000500 mg/L 1 ____ -------------Toluene ND 0.000500 0.00100 mg/L 1 -------ND 0.000750 0.00150 Xylenes, total 1 mg/L -------------------Surr: 1,4-Difluorobenzene (Surr) Recovery: 97 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 100 % 80-120% 4-Bromofluorobenzene (Surr) 102 % 80-120 % " LCS (9120776-BS1) Prepared: 12/11/19 12:00 Analyzed: 12/11/19 14:21 EPA 624 0.0161 0.000125 0.000250 0.0200 Benzene mg/L 1 80 37-151% ------Ethylbenzene 0.0160 0.000250 0.000500 0.0200 80 37-162% mg/L 1 ----------0.0162 0.000500 0.00100 81 Toluene mg/L 0.0200 47-150% 1 ----------Xylenes, total 0.0478 0.0007500.00150mg/L 1 0.0600 ----80 70-130% -------Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 98 % 80-120 % 80-120 % 4-Bromofluorobenzene (Surr) 100 % Duplicate (9120776-DUP1) Prepared: 12/11/19 15:26 Analyzed: 12/11/19 21:10 QC Source Sample: Non-SDG (A9L0382-03) ND 0.0250 0.0500 mg/L 200 ND 30% Benzene --------------Ethylbenzene ND 0.0500 0.100 30% mg/L 200 ND ---------------ND 0.100 0.200 30% Toluene mg/L 200 ND ------------0.150 0.300 ND 200 ND 30% Xylenes, total mg/L -------------Surr: 1,4-Difluorobenzene (Surr) Recovery: 95 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 100 % 80-120 % 4-Bromofluorobenzene (Surr) 98 % 80-120 % " Matrix Spike (9120776-MS1) Prepared: 12/11/19 15:26 Analyzed: 12/11/19 18:26 QC Source Sample: Non-SDG (A9L0358-01) EPA 624 Benzene 0.0202 0.000125 0.000250 1 0.0200 0.000452 99 37-151% mg/L Apex Laboratories 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.

Darwin Thomas, Business Development Director

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |
| | | |

QUALITY CONTROL (QC) SAMPLE RESULTS

Purgeable Organic Compounds by EPA 624.1 RPD Detection Spike % REC Reporting Source Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Notes Limit Batch 9120776 - EPA 5030B Water Matrix Spike (9120776-MS1) Prepared: 12/11/19 15:26 Analyzed: 12/11/19 18:26 QC Source Sample: Non-SDG (A9L0358-01) Ethylbenzene 0.0202 0.000250 0.000500 0.0200 0.000500 98 37-162% mg/L 1 -------0.0236 0.000500 0.001000.0200 101 Toluene mg/L 1 0.00336 47-150% -------Xylenes, total 0.0628 0.000750 0.00150 mg/L 1 0.0600 0.00332 99 70-130% -------Surr: 1,4-Difluorobenzene (Surr) Recovery: 96 % Limits: 80-120 % Dilution: 1x 98 % Toluene-d8 (Surr) 80-120 % ... " 4-Bromofluorobenzene (Surr) 101 % 80-120 %

Apex Laboratories

Darwin Thomas, Business Development Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: | <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|------------------|-----------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: | 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: | Kendra Skellenger | A9L0371 - 01 03 20 1121 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Polychlor | rinated I | Biphenyls | by EPA 6 | 08 | | | | | |
|---------------------------------|-------------|--------------------|--------------------|------------|------------|-----------------|------------------|-------|-----------------|-----|--------------|------------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9120946 - EPA 3510C (| Neutral pH) | | | | | | Wate | er | | | | |
| Blank (9120946-BLK1) | | | Prepared: | 12/16/19 | 10:43 Anal | yzed: 12/17/ | 19 16:41 | | | | | C-07 |
| <u>608 PCB</u> | | | | | | | | | | | | |
| Aroclor 1016 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1221 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1232 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1242 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | , | | | |
| Aroclor 1248 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1254 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1260 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1262 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Aroclor 1268 | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Surr: Decachlorobiphenyl (Surr) | | Recove | ery: 83 % | Limits: 40 |)-135 % | Dilu | ition: 1x | | | | | |
| LCS (9120946-BS1) | | | Prepared: | 12/16/19 | 10:43 Anal | yzed: 12/17/ | 19 17:00 | | | | | C-07 |
| <u>608 PCB</u> | | | | | | | | | | | | |
| Aroclor 1016 | 0.00177 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00250 | | 71 | 50-140% | | | |
| Aroclor 1260 | 0.00204 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00250 | | 82 | 8-140% | | | |
| Surr: Decachlorobiphenyl (Surr) | | Recove | ery: 75 % | Limits: 40 |)-135 % | Dilu | ition: 1x | | | | | |
| LCS Dup (9120946-BSD1) | | | Prepared: | 12/16/19 | 10:43 Anal | yzed: 12/17/ | 19 17:18 | | | | | C-07, Q-19 |
| <u>608 PCB</u> | | | | | | | | | | | | |
| Aroclor 1016 | 0.00176 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00250 | | 70 | 50-140% | 0.8 | 36% | |
| Aroclor 1260 | 0.00213 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00250 | | 85 | 8-140% | 4 | 38% | |
| Surr: Decachlorobiphenyl (Surr) | | Recove | ry: 76 % | Limits: 40 | -135 % | Dilu | tion: 1x | | | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |
| | | |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Organoch | lorine F | Pesticide | s by EPA 6 | 508 | | | | | |
|------------------------------|--------------|--------------------|--------------------|------------|-----------|-----------------|------------------|-------|-----------------|-----|--------------|------------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9121209 - EPA 3510C (I | Neutral pH)/ | 3640A (GPC |) | | | | Wat | er | | | | |
| Blank (9121209-BLK1) | | | Prepared: | 12/13/19 | 11:17 Ana | lyzed: 12/23/ | 19 16:49 | | | | | C-05 |
| <u>608 Pest</u> | | | | | | | | | | | | |
| Aldrin | ND | 0.0000273 | 0.0000545 | mg/L | 1 | | | | | | | |
| 4,4'-DDD | ND | 0.0000273 | 0.0000545 | mg/L | 1 | | | | | | | |
| 4,4'-DDE | ND | 0.0000045: | 5 0.00000909 | mg/L | 1 | | | | | | | |
| 4,4'-DDT | ND | 0.0000273 | 0.0000545 | mg/L | 1 | | | | | | | |
| Dieldrin | ND | 0.0000273 | 0.0000545 | mg/L | 1 | | | | | | | |
| Chlordane (Technical) | ND | 0.000336 | 0.000682 | mg/L | 1 | | | | | | | |
| Surr: 2,4,5,6-TCMX (Surr) | | Recov | ery: 28 % | Limits: 25 | -140 % | Dilı | ution: 1x | | | | | |
| Decachlorobiphenyl (Surr) | | | 83 % | 30 | -135 % | | " | | | | | |
| LCS (9121209-BS1) | | | Prepared: | 12/13/19 | 11:17 Ana | lyzed: 12/23/ | /19 17:06 | | | | | C-05 |
| <u>608 Pest</u> | | | | | | | | | | | | |
| Aldrin | 0.000264 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 53 | 42-140% | | | |
| 4,4'-DDD | 0.000494 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 99 | 31-141% | | | |
| 4,4'-DDE | 0.000394 | 0.00000500 | 0.0000100 | mg/L | 1 | 0.000500 | | 79 | 30-145% | | | |
| 4,4'-DDT | 0.000588 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 118 | 25-160% | | | Q-4 |
| Dieldrin | 0.000459 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 92 | 36-146% | | | |
| Surr: 2,4,5,6-TCMX (Surr) | | Recov | ery: 39% | Limits: 25 | -140 % | Dilı | ition: 1x | | | | | |
| Decachlorobiphenyl (Surr) | | | 90 % | 30 |)-135 % | | " | | | | | |
| LCS Dup (9121209-BSD1) | | | Prepared: | 12/13/19 | 11:17 Ana | lyzed: 12/23/ | 19 17:28 | | | | | C-05, Q-19 |
| <u>608 Pest</u> | | | | | | | | | | | | |
| Aldrin | 0.000325 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 65 | 42-140% | 21 | 35% | |
| 4,4'-DDD | 0.000547 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 109 | 31-141% | 10 | 39% | |
| 4,4'-DDE | 0.000453 | 0.00000500 | 0.0000100 | mg/L | 1 | 0.000500 | | 91 | 30-145% | 14 | 35% | |
| 4,4'-DDT | 0.000634 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 127 | 25-160% | 8 | 42% | Q-4 |
| Dieldrin | 0.000519 | 0.0000300 | 0.0000600 | mg/L | 1 | 0.000500 | | 104 | 36-146% | 12 | 49% | |
| Surr: 2,4,5,6-TCMX (Surr) | | Recov | ery: 45 % | Limits: 25 | -140 % | Dilı | ution: 1x | | | | | |
| Decachlorobiphenyl (Surr) | | | 88 % | 30 | -135 % | | " | | | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 625

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-------------------------------|------------|--------------------|--------------------|------------|------------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Batch 9120768 - EPA 3510C (A | cid Extrac | tion) | | | | | Wat | er | | | | |
| Blank (9120768-BLK2) | | | Prepared: | 12/11/19 | 11:36 Anal | yzed: 12/11/ | 19 20:17 | | | | | |
| <u>EPA 625</u> | | | | | | | | | | | | |
| Acenaphthene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Anthracene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Benz(a)anthracene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Benzo(a)pyrene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Benzo(k)fluoranthene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Chrysene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Fluoranthene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Fluorene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Hexachlorobenzene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Pyrene | ND | 0.0000455 | 0.0000909 | mg/L | 1 | | | | | | | |
| Pentachlorophenol (PCP) | ND | 0.000182 | 0.000364 | mg/L | 1 | | | | | | | |
| Surr: 2-Fluorobiphenyl (Surr) | | Recove | ery: 78% | Limits: 45 | -120 % | Dilu | ution: 1x | | | | | |
| p-Terphenyl-d14 (Surr) | | | 91 % | 30 | -125 % | | " | | | | | |
| 2,4,6-Tribromophenol (Surr) | | | 100 % | 35 | -125 % | | " | | | | | |
| LCS (9120768-BS2) | | | Prepared: | 12/11/19 | 11:36 Anal | yzed: 12/11/ | 19 20:52 | | | | | |
| EPA 625 | | | - | | | | | | | | | |
| Acenaphthene | 0.00621 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 78 | 47-145% | | | |
| Anthracene | 0.00682 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 85 | 27-133% | | | |
| Benz(a)anthracene | 0.00783 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 98 | 33-143% | | | |
| Benzo(a)pyrene | 0.00751 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 94 | 17-163% | | | |
| Benzo(b)fluoranthene | 0.00743 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 93 | 24-159% | | | |
| Benzo(k)fluoranthene | 0.00727 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 91 | 11-162% | | | |
| Chrysene | 0.00725 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 91 | 17-168% | | | |
| Dibenz(a,h)anthracene | 0.00735 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 92 | 1-227% | | | |
| Fluoranthene | 0.00754 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 94 | 26-137% | | | |
| Fluorene | 0.00661 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 83 | 59-121% | | | |
| Hexachlorobenzene | 0.00687 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 86 | 5-152% | | | |
| Indeno(1,2,3-cd)pyrene | 0.00727 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 91 | 1-171% | | | |
| Pyrene | 0.00740 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 93 | 52-115% | | | |
| | | | | | | | | | | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | Se | mivolatile | Organic | Compou | inds by El | PA 625 | | | | | |
|-------------------------------|-------------|--------------------|--------------------|------------|------------|-----------------|------------------|-------|-----------------|------|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9120768 - EPA 3510C (A | Acid Extrac | tion) | | | | | Wat | er | | | | |
| LCS (9120768-BS2) | | | Prepared | 12/11/19 1 | 11:36 Anal | yzed: 12/11/ | 19 20:52 | | | | | |
| Pentachlorophenol (PCP) | 0.00841 | 0.000200 | 0.000400 | mg/L | 1 | 0.00800 | | 105 | 14-176% | | | |
| Surr: 2-Fluorobiphenyl (Surr) | | Recovery: 79 % | | | -120 % | Dilu | ition: 1x | | | | | |
| p-Terphenyl-d14 (Surr) | | | 95 % | 30- | -125 % | | " | | | | | |
| 2,4,6-Tribromophenol (Surr) | | | 99 % | 35- | -125 % | | " | | | | | |
| LCS Dup (9120768-BSD2) | | | Prepared | 12/11/19 1 | l1:36 Anal | yzed: 12/11/ | 19 21:26 | | | | | Q-19 |
| EPA 625 | | | | | | | | | | | | |
| Acenaphthene | 0.00640 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 80 | 47-145% | 3 | 30% | |
| Anthracene | 0.00704 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 88 | 27-133% | 3 | 30% | |
| Benz(a)anthracene | 0.00803 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 100 | 33-143% | 3 | 30% | |
| Benzo(a)pyrene | 0.00786 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 98 | 17-163% | 4 | 30% | |
| Benzo(b)fluoranthene | 0.00772 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 97 | 24-159% | 4 | 30% | |
| Benzo(k)fluoranthene | 0.00757 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 95 | 11-162% | 4 | 30% | |
| Chrysene | 0.00752 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 94 | 17-168% | 4 | 30% | |
| Dibenz(a,h)anthracene | 0.00746 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 93 | 1-227% | 1 | 30% | |
| Fluoranthene | 0.00796 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 100 | 26-137% | 5 | 30% | |
| Fluorene | 0.00662 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 83 | 59-121% | 0.08 | 30% | |
| Hexachlorobenzene | 0.00694 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 87 | 5-152% | 1 | 30% | |
| Indeno(1,2,3-cd)pyrene | 0.00741 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 93 | 1-171% | 2 | 30% | |
| Pyrene | 0.00789 | 0.0000500 | 0.000100 | mg/L | 1 | 0.00800 | | 99 | 52-115% | 6 | 30% | |
| Pentachlorophenol (PCP) | 0.00868 | 0.000200 | 0.000400 | mg/L | 1 | 0.00800 | | 109 | 14-176% | 3 | 30% | |
| Surr: 2-Fluorobiphenyl (Surr) | | Recov | ery: 77 % | Limits: 45 | -120 % | Dilu | ıtion: 1x | | | | | A. |
| p-Terphenyl-d14 (Surr) | | | 97 % | 30- | -125 % | | " | | | | | |
| 2,4,6-Tribromophenol (Surr) | | | 101 % | 35- | -125 % | | " | | | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Total M | etals by | EPA 200. | 8 (ICPMS | S) | | | | | |
|-------------------------------|-----------|--------------------|--------------------|----------|------------|-----------------|------------------|-------|------------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9121147 - EPA 3015A | | | | | | | Wate | er | | | | |
| Blank (9121147-BLK1) | | | Prepared: | 12/19/19 | 15:56 Anal | yzed: 12/23 | 3/19 17:37 | | | | | |
| EPA 200.8 | | | | | | | | | | | | |
| Copper | ND | 0.000500 | 0.00100 | mg/L | 1 | | | | | | | |
| Iron | ND | 0.0250 | 0.0500 | mg/L | 1 | | | | | | | |
| Lead | ND | 0.000100 | 0.000200 | mg/L | 1 | | | | | | | |
| Zine | ND | 0.00200 | 0.00400 | mg/L | 1 | | | | | | | |
| LCS (9121147-BS1) | | | Prepared: | 12/19/19 | 15:56 Anal | yzed: 12/23 | 3/19 17:41 | | | | | |
| EPA 200.8 | | | | | | | | | | | | |
| Copper | 0.0571 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | | 103 | 85-115% | | | |
| Iron | 2.94 | 0.0250 | 0.0500 | mg/L | 1 | 2.78 | | 106 | 85-115% | | | |
| Lead | 0.0538 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | | 97 | 85-115% | | | |
| Zine | 0.0535 | 0.00200 | 0.00400 | mg/L | 1 | 0.0556 | | 96 | 85-115% | | | |
| Duplicate (9121147-DUP1) | | | Prepared: | 12/19/19 | 15:56 Anal | yzed: 12/23 | 3/19 17:51 | | | | | |
| QC Source Sample: Non-SDG (A9 | L0355-01) | | | | | | | | | | | |
| Copper | 0.00292 | 0.000500 | 0.00100 | mg/L | 1 | | 0.00327 | | | 11 | 20% | |
| Iron | 2.63 | 0.0250 | 0.0500 | mg/L | 1 | | 2.61 | | | 0.8 | 20% | |
| Lead | 0.000176 | 0.000100 | 0.000200 | mg/L | 1 | | 0.000194 | | | 10 | 20% | |
| Zinc | 0.0129 | 0.00200 | 0.00400 | mg/L | 1 | | 0.0134 | | | 3 | 20% | |
| Matrix Spike (9121147-MS1) | | | Prepared: | 12/19/19 | 15:56 Anal | yzed: 12/23 | 3/19 17:55 | | | | | |
| QC Source Sample: Non-SDG (A9 | L0355-01) | | | | | | | | | | | |
| EPA 200.8 | | | | | | | | | | | | |
| Copper | 0.0570 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | 0.00327 | 97 | 70-130% | | | |
| Iron | 5.44 | 0.0250 | 0.0500 | mg/L | 1 | 2.78 | 2.61 | 102 | 70-130% | | | |
| Lead | 0.0528 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | 0.000194 | 95 | 70-130% | | | |
| Zinc | 0.0668 | 0.00200 | 0.00400 | mg/L | 1 | 0.0556 | 0.0134 | 96 | 70-130% | | | |
| Matrix Spike (9121147-MS2) | | | Prepared: | 12/19/19 | 15:56 Anal | yzed: 12/23 | 3/19 19:43 | | | | | |
| QC Source Sample: Non-SDG (A9 | L0749-09) | | | | | | | | | | | |
| EPA 200.8 | | | | | | | | | | | | |
| Conner | 0.0525 | 0.000500 | 0.00100 | /T | | 0.0556 | 0.000001 | 0.5 | 5 0 1200/ | | | |
| copper | 0.0535 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | 0.000604 | 95 | 70-130% | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| Dissolved Metals by EPA 200.8 (ICPMS) | | | | | | | | | | | | |
|---|---|--------------------|--------------------|------------|-----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9120968 - Matrix Matched Direct Inject Water | | | | | | | | | | | | |
| Blank (9120968-BLK1) | Prepared: 12/16/19 16:06 Analyzed: 12/17/19 04:27 | | | | | | | | | | | |
| EPA 200.8 (Diss) | | | | | | | | | | | | |
| Copper | ND | 0.000500 | 0.00100 | mg/L | 1 | | | | | | | |
| Lead | ND | 0.000100 | 0.000200 | mg/L | 1 | | | | | | | |
| LCS (9120968-BS1) Prepared: 12/16/19 16:06 Analyzed: 12/17/19 04:31 | | | | | | | | | | | | |
| EPA 200.8 (Diss) | | | | | | | | | | | | |
| Copper | 0.0551 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | | 99 | 85-115% | | | |
| Lead | 0.0525 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | | 95 | 85-115% | | | |
| Duplicate (9120968-DUP1) | | | Prepared: | 12/16/19 1 | 6:06 Anal | yzed: 12/17 | /19 04:55 | | | | | |
| OC Source Sample: Non-SDG (A9L | .0256-01) | | | | | | | | | | | |
| Copper | 0.00328 | 0.000500 | 0.00100 | mg/L | 1 | | 0.00334 | | | 2 | 20% | |
| Lead | 0.000232 | 0.000100 | 0.000200 | mg/L | 1 | | 0.000239 | | | 3 | 20% | |
| Matrix Spike (9120968-MS1) | | | Prepared: | 12/16/19 1 | 6:06 Anal | yzed: 12/17 | /19 04:59 | | | | | |
| QC Source Sample: Non-SDG (A9L | .0256-01) | | | | | | | | | | | |
| EPA 200.8 (Diss) | | | | | | | | | | | | |
| Copper | 0.0570 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | 0.00334 | 97 | 70-130% | | | |
| Lead | 0.0543 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | 0.000239 | 97 | 70-130% | | | |
| Matrix Spike (9120968-MS2) | | | Prepared: | 12/16/19 1 | 6:06 Anal | yzed: 12/17 | /19 06:37 | | | | | |
| QC Source Sample: Non-SDG (A9L | .0592-01) | | | | | | | | | | | |
| EPA 200.8 (Diss) | _ | | | | | | | | | | | |
| Copper | 0.0854 | 0.000500 | 0.00100 | mg/L | 1 | 0.0556 | 0.0335 | 94 | 70-130% | | | |
| Lead | 0.0542 | 0.000100 | 0.000200 | mg/L | 1 | 0.0556 | 0.00108 | 96 | 70-130% | | | |

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Darwin Thomas, Business Development Director

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

QUALITY CONTROL (QC) SAMPLE RESULTS

HEM (Oil and Grease) and SGT-HEM by EPA 1664A

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|--|---|---|--------------------|-------|----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Batch 9121142 - EPA 1664 | | | | | | | Wate | er | | | | |
| Blank (9121142-BLK1) | Prepared: 12/20/19 07:30 Analyzed: 12/23/19 07:38 | | | | | | | | | | | |
| <u>EPA 1664A</u> | | | | | | | | | | | | |
| HEM (Oil and Grease) | ND | 4.55 | 4.55 | mg/L | 1 | | | | | | | |
| Blank (9121142-BLK2) | nk (9121142-BLK2) Prepared: 12/23/19 08:08 Analyzed: 12/23/19 12:12 | | | | | | | | | | | |
| <u>EPA 1664A</u> | | | | | | | | | | | | |
| SGT-HEM (Non-polar Material) | ND | 4.55 | 4.55 | mg/L | 1 | | | | | | | |
| LCS (9121142-BS1) | 1) Prepared: 12/20/19 07:30 Analyzed: 12/23/19 07:38 | | | | | | | | | | | |
| <u>EPA 1664A</u> | | | | | | | | | | | | |
| HEM (Oil and Grease) | 37.4 | | | mg/L | 1 | 40.0 | | 94 | 78-114% | | | |
| LCS (9121142-BS2) | | Prepared: 12/23/19 08:08 Analyzed: 12/23/19 12:12 | | | | | | | | | | |
| <u>EPA 1664A</u> | | | | | | | | | | | | |
| SGT-HEM (Non-polar Material) | 18.3 | | | mg/L | 1 | 20.0 | | 92 | 64-132% | | | |
| Matrix Spike (9121142-MS1) Prepared: 12/20/19 07:30 Analyzed: 12/23/19 07:38 | | | | | | | | | | | | |
| OC Source Sample: Non-SDG (A9 | L0334-01) | | | | | | | | | | | |
| <u>EPA 1664A</u> | | | | | | | | | | | | |
| HEM (Oil and Grease) | 30.6 | | | mg/L | 1 | 37.7 | ND | 81 | 78-114% | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

Anchor QEA, LLCProject:Gasco - 1200Z - 20196720 SW Macadam Ave. Suite 125Project Number:000029-02.58 task 14Report ID:Portland, OR 97219Project Manager:Kendra SkellengerA9L0371 - 01 03 20 1121

QUALITY CONTROL (QC) SAMPLE RESULTS

Weak Acid Dissociable (WAD) Cyanide by Flow Analysis (Aqueous) % REC RPD Detection Reporting Spike Source Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Notes Limit Batch 9121129 - Lachat Micro Dist - aqueous Water Blank (9121129-BLK1) Prepared: 12/19/19 12:28 Analyzed: 12/19/19 16:34 SM 4500-CN I WAD Cyanide ND 0.00500 0.00500 mg/L 1 ----LCS (9121129-BS1) Prepared: 12/19/19 12:28 Analyzed: 12/19/19 16:36 SM 4500-CN I 0.227 0.00500 0.00500 WAD Cyanide 0.250 91 85-115% mg/L 1 ----------Duplicate (9121129-DUP1) Prepared: 12/19/19 12:28 Analyzed: 12/19/19 16:40 OC Source Sample: 0107-02-121019 (A9L0371-01) SM 4500-CN I 0.00500 WAD Cyanide ND 0.00500 ND 20% mg/L 1 -------------Matrix Spike (9121129-MS1) Prepared: 12/19/19 12:28 Analyzed: 12/19/19 16:42 QC Source Sample: 0107-02-121019 (A9L0371-01) SM 4500-CN I WAD Cyanide 0.234 0.00500 0.00500 0.250 ND 80-120% mg/L 1 94 -------

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |

QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Solid a | and Moist | ture Dete | rmination | s | | | | | |
|--|------------|--------------------|--------------------|------------|-----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch 9120907 - Total Suspen | ded Solid | S | | | | | Wat | er | | | | |
| Blank (9120907-BLK1) | | | Prepared | : 12/13/19 | 14:49 Ana | lyzed: 12/16 | /19 13:23 | | | | | |
| <u>SM 2540 D</u> Total Suspended Solids | ND | 5.00 | 5.00 | mg/L | 1 | | | | | | | |
| Duplicate (9120907-DUP1) Prepared: 12/13/19 14:49 Analyzed: 12/16/19 13:23 | | | | | | | | | | | | |
| QC Source Sample: Non-SDG (AS | 9L0375-01) | | | | | | | | | | | |
| Total Suspended Solids | 30.0 | 5.00 | 5.00 | mg/L | 1 | | 30.0 | | | 0 | 10% | |
| Duplicate (9120907-DUP2) | | | Prepared | : 12/13/19 | 14:49 Ana | lyzed: 12/16 | /19 13:23 | | | | | |
| QC Source Sample: Non-SDG (AS | 9L0439-01) | | | | | | | | | | | |
| Total Suspended Solids | 42.0 | 5.00 | 5.00 | mg/L | 1 | | 46.0 | | | 9 | 10% | |
| Reference (9120907-SRM1) Prepared: 12/13/19 14:49 Analyzed: 12/16/19 13:23 | | | | | | | | | | | | |
| <u>SM 2540 D</u> | | | | | | | | | | | | |
| Total Suspended Solids | 93.0 | | | mg/L | 1 | 100 | | 93 7 | 7.1-110% | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project:Gasco - 1200Z - 2019Project Number:000029-02.58 task 14Project Manager:Kendra Skellenger

<u>Report ID:</u> A9L0371 - 01 03 20 1121

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QUALITY CONTROL (QC) SAMPLE RESULTS

| | | | Metals | by EPA | 200 Serie | s Method | IS | | | | | |
|--------------------------------|----------|--------------------|--------------------|----------|------------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
| Batch W9L1244 - EPA 245.1 | | | | | | | Wate | r | | | | |
| Blank (W9L1244-BLK1) | | | Prepared: | 12/23/19 | 10:40 Anal | lyzed: 12/30 | 0/19 14:33 | | | | | |
| EPA 245.1 | | | | | | | | | | | | |
| Mercury, Total | ND | | 0.000050 | mg/l | 1 | | | | | | | |
| LCS (W9L1244-BS1) | | | Prepared: | 12/23/19 | 10:40 Anal | lyzed: 12/3(|)/19 14:35 | | | | | |
| <u>EPA 245.1</u> | | | | | | | | | | | | |
| Mercury, Total | 0.00109 | | 0.000050 | mg/l | 1 | 0.00100 | | 109 | 85-115% | | | |
| Matrix Spike (W9L1244-MS1) | | | Prepared: | 12/23/19 | 10:40 Anal | lyzed: 12/30 | 0/19 14:39 | | | | | |
| QC Source Sample: Non-SDG (9L1 | 3045-01) | | | | | | | | | | | |
| <u>EPA 245.1</u> | | | | | | | | | | | | |
| Mercury, Total | 0.00113 | | 0.000050 | mg/l | 1 | 0.00100 | 0.0000339 | 110 | 70-130% | | | |
| Matrix Spike (W9L1244-MS2) | | | Prepared: | 12/23/19 | 10:40 Anal | lyzed: 12/30 | 0/19 15:05 | | | | | |
| QC Source Sample: Non-SDG (9L1 | 8027-05) | | | | | | | | | | | |
| Mercury, Total | 0.00116 | | 0.000050 | mg/l | 1 | 0.00100 | ND | 116 | 70-130% | | | |
| Matrix Spike Dup (W9L1244-M | 4SD1) | | Prepared: | 12/23/19 | 10:40 Anal | lyzed: 12/30 | 0/19 14:41 | | | | | |
| QC Source Sample: Non-SDG (9L1 | 3045-01) | | | | | | | | | | | |
| Mercury, Total | 0.00113 | | 0.000050 | mg/l | 1 | 0.00100 | 0.0000339 | 109 | 70-130% | 0.3 | 20% | |
| Matrix Spike Dup (W9L1244-M | 4SD2) | | Prepared: | 12/23/19 | 10:40 Anal | lyzed: 12/3(| 0/19 15:07 | | | | | |
| QC Source Sample: Non-SDG (9L1 | 8027-05) | | 1921 | | | | | | | | | |
| Mercury, Total | 0.00110 | | 0.000050 | mg/l | 1 | 0.00100 | ND | 110 | 70-130% | 5 | 20% | |

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Darwin Thomas, Business Development Director

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| Anchor QEA, LLC | Project: | <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|------------------|-----------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: | 000029-02.58 task 14 | Report ID: |
| Portland, OR 97219 | Project Manager: | Kendra Skellenger | A9L0371 - 01 03 20 1121 |

SAMPLE PREPARATION INFORMATION

| | | Purgeabl | e Organic Compoun | ds by EPA 624.1 | | | |
|------------------------|-------------------|--------------|-----------------------|--|---------------|---------------|---------|
| Prep: EPA 5030B | | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9120776 | | | | | | | |
| A9L0371-01 | Water | EPA 624 | 12/10/19 15:10 | 12/11/19 15:26 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9L0371-02 | Water | EPA 624 | 12/10/19 00:00 | 12/11/19 15:26 | 5mL/5mL | 5mL/5mL | 1.00 |
| | | Polyc | chlorinated Biphenyls | by EPA 608 | | | |
| Prep: EPA 3510C (Ne | utral pH) | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9120946 | | | S unip 10 u | Tieparte | | | |
| A9L0371-01 | Water | 608 PCB | 12/10/19 15:10 | 12/16/19 10:43 | 1000mL/5mL | 1000mL/5mL | 1.00 |
| | | Orga | nochlorine Pesticides | by EPA 608 | | | |
| Prep: EPA 3510C (Neu | utral pH)/3640A (| GPC) | | e, | Sample | Default | RL Pren |
| I ah Number | Matrix | Method | Sampled | Prenared | Initial/Final | Initial/Final | Factor |
| Batch: 9121209 | WIGHTA | Wethod | Sampied | Trepared | | | |
| A9L0371-01RE1 | Water | 608 Pest | 12/10/19 15:10 | 12/13/19 11:17 | 1070mL/10mL | 1000mL/5mL | 1.87 |
| | | Semivola | tile Organic Compou | Inds by EPA 625 | | | |
| Prep: EPA 3510C (Acid | d Extraction) | | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9120768 | | | 1 | 1 | | | |
| A9L0371-01 | Water | EPA 625 | 12/10/19 15:10 | 12/11/19 15:35 | 1040mL/5mL | 1000mL/5mL | 0.96 |
| | | Tota | al Metals by EPA 200 | .8 (ICPMS) | | | |
| Prep: EPA 3015A | | N. MILLER S | | | Sample | Default | RL Prep |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| Batch: 9121147 | wiau IA | Method | Sampieu | Tieparea | | | |
| A9L0371-01 | Water | EPA 200.8 | 12/10/19 15:10 | 12/19/19 15:56 | 45mL/50mL | 45mL/50mL | 1.00 |
| A9L0371-01RE1 | Water | EPA 200.8 | 12/10/19 15:10 | 12/19/19 15:56 | 45mL/50mL | 45mL/50mL | 1.00 |
| | | Dissol | ved Metals by EPA 2 | 00.8 (ICPMS) | | | |
| Prep: Matrix Matched I | Direct Iniect | arrest The r | | an a | Sample | Default | RL Pren |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor |
| | | | rr | r | | | |

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLCProject:Gasco - 1200Z - 20196720 SW Macadam Ave. Suite 125Project Number:000029-02.58 task 14Portland, OR 97219Project Manager:Kendra Skellenger | | | | | | <u>Report ID:</u> A9L0371 - 01 03 20 1121 | | | |
|---|--------------------------------|---------------------|--|----------------------|---------------|--|---------|--|--|
| | SAMPLE PREPARATION INFORMATION | | | | | | | | |
| | | Dissolv | ed Metals by EPA 2 | 00.8 (ICPMS) | | | | | |
| Prep: Matrix Matched | Direct Inject | | | | Sample | Default | RL Prep | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | |
| Batch: 9120968 A9L0371-01 | Water | EPA 200.8 (Diss) | 12/10/19 15:10 | 12/16/19 16:06 | 45mL/50mL | 45mL/50mL | 1.00 | | |
| | | HEM (Oil and | Grease) and SGT- | HEM by EPA 1664A | | | | | |
| Prep [.] EPA 1664 | | | | | Sample | Default | RL Pren | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | |
| Batch: 9121142 | | | | | | | | | |
| A9L0371-01 | Water | EPA 1664A | 12/10/19 15:10 | 12/20/19 07:30 | | | NA | | |
| | | Free Cyanide by M | licrodiffusion/Colorir | netric Spectrophoto | netry | | | | |
| Prep: Method Prep: A | q | | | · · · | Sample | Default | RL Prep | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | |
| Batch: 9121060 | | | | | | | | | |
| A9L0371-01 | Water | D4282-02 | 12/10/19 15:10 | 12/18/19 12:35 | 3mL/3mL | 3mL/3mL | 1.00 | | |
| | | Weak Acid Dissociab | ble (WAD) Cyanide b | by Flow Analysis (Ac | ueous) | | | | |
| Prep: Lachat Micro Di | st - aqueous | | × , , , | | Sample | Default | RL Prep | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | |
| Batch: 9121129 | | | · · · · · | | | | | | |
| A9L0371-01 | Water | SM 4500-CN I | 12/10/19 15:10 | 12/19/19 12:28 | 6mL/6mL | 6mL/6mL | 1.00 | | |
| | | Solid | d and Moisture Dete | rminations | | | | | |
| Prep: Total Suspendee | d Solids | | nere and party manufacture and and a set | | Sample | Default | RL Prep | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | |
| Batch: 9120907 A9L0371-01 | Water | SM 2540 D | 12/10/19 15:10 | 12/13/19 14:49 | | | NA | | |
| | | | | | | | | | |

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Darwin Thomas, Business Development Director

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |
| | | |

Weck Laboratories, Inc.

SAMPLE PREPARATION INFORMATION

| Metals by EPA 200 Series Methods | | | | | | | | | | |
|--|----------------|-----------|----------------|----------------|---------------|---------------|--------|--|--|--|
| Prep: EPA 245.1 Sample Default RL Prep | | | | | | | | | | |
| Lab Number | Matrix | Method | Sampled | Prepared | Initial/Final | Initial/Final | Factor | | | |
| Batch: W9L1244 | Batch: W9L1244 | | | | | | | | | |
| A9L0371-01 | Water | EPA 245.1 | 12/10/19 15:10 | 12/23/19 10:40 | 50m1/50m1 | 50ml/50ml | 1.00 | | | |

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Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: <u>Gasco - 1200Z - 2019</u>

Project Number: 000029-02.58 task 14 Project Manager: Kendra Skellenger <u>Report ID:</u> A9L0371 - 01 03 20 1121

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- O-01 Result for total Hexane Extractable Material (HEM) is below reporting level for this sample. Silica Gel Treatment (HEM-SGT) analysis was therefore not performed.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.

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6720 SW Macadam Ave. Suite 125 Portland, OR 97219 Project: <u>Gasco - 1200Z - 2019</u>

Project Number: 000029-02.58 task 14 Project Manager: Kendra Skellenger

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

| DET | Analyte DETECTED at or above the detection or reporting limit. |
|-----|---|
| ND | Analyte NOT DETECTED at or above the detection or reporting limit. |
| NR | Result Not Reported |
| RPD | Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery. |
| | |

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

- "<u>dry</u>" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "___ Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- "--- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- "*** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

<u>Blanks:</u>

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL). -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier. -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219

Project: <u>Gasco - 1200Z - 2019</u>

Project Number: 000029-02.58 task 14 Project Manager: Kendra Skellenger

<u>Report ID:</u> A9L0371 - 01 03 20 1121

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

| Anchor QEA, LLC | Project: <u>Gasco - 1200Z - 2019</u> | |
|--------------------------------|--------------------------------------|-------------------------|
| 6720 SW Macadam Ave. Suite 125 | Project Number: 000029-02.58 task 14 | <u>Report ID:</u> |
| Portland, OR 97219 | Project Manager: Kendra Skellenger | A9L0371 - 01 03 20 1121 |
| | | |
| | LABORATORY ACCREDITATION INFORMATION | |

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

| Apex Labor | <u>atories</u> | | | | |
|------------|----------------|--------|---------|--------|---------------|
| Matrix | Analysis | TNI_ID | Analyte | TNI_ID | Accreditation |
| | | | | | |

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039



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| <u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219 | Project:Gasco - 1200Z - 2019Project Number:000029-02.58 task 14Project Manager:Kendra Skellenger | <u>Report ID:</u> A9L0371 - 01 03 20 1121 |
|---|--|--|
| APEXClient: $Anchor$ Project/Project #: $Gasco$ $Anchor$ Project/Project #: $Gasco$ $Anchor$ Project/Project #: $Gasco$ $Anchor$ Delivery Info:Date/time received: $(1/1/1)^{a}$ Delivered by: Apex \checkmark ClientESSCooler InspectionChain of Custody included?Yes \checkmark NSigned/dated by client?Yes \checkmark NSigned/dated by Apex?Yes \checkmark NCooler #1Temperature (°C)3. 8Received on ice? (Y/N)YTemp. blanks? (Y/N)YIce type: (Gel/Real/Other)ReenCondition:Cooler out of temp? (Y(N) Possible reasoIf some coolers are in temp and some outOut of temperature samples form initiatedSamples Inspection:Date/time inspectAll samples intact? Yes \checkmark No | LABS COOLER RECEIPT FORM Element WO#: A9 $\angle 037/2$ 00 72. II 47 By: $\angle 77$ H. FedEx UPS Swift Senvoy SDS Oth FedEx UPS Swift Senvoy SDS Oth Colspan="2">Colspan="2">No $\angle 77$ No Custody seals? Yes No $\angle 77$ No $\angle 77$ No $\angle 77$ No $\angle 77$ Other #3 Cooler #4 Cooler #5 Cooler #6 On why: Mo $\angle 77$ No $\angle 77$ On why: t, were green dots applied to out of temperature samples? Td? Yes/No $\langle N \rangle$ Td? Yes/No $\langle N \rangle$ Td? Yes/No $\langle N \rangle$ Other #3 $\langle 14^{\circ} O \rangle$ By: $\angle M \angle$ Other #4 $\langle 12^{\circ} O \rangle$ Mo $\angle 77$ On why: Other #3 $\langle 14^{\circ} O \rangle$ Mo $\angle 77$ Other #4 $\langle 12^{\circ} O \rangle$ <td< td=""><td>Cooler #7</td></td<> | Cooler #7 |
| Bottle labels/COCs agree? Yes No COC/container discrepancies form initiat Containers/volumes received appropriate Do VOA vials have visible headspace? Comments <u>3/3</u> 10005 hawe Water samples: pH checked: Yes No Comments: <u>hecked</u> press | Comments: ed? Yes No NA for analysis? Yes No Comments: Yes No NA Sed NA pH appropriate? Yes No NA erration OA OA Pest Sub Sau | mypled Vis |
| Additional information: 7577 1982 Labeled by: Witness: | Cooler Inspected by: See Project Contact F | 20rm: Y |

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