

Cox Environmental Services 712 W 12th Street Juneau, AK 99801

July 5, 2018

Ms. Danielle Duncan Alaska Department of Environmental Conservation 410 Willoughby Avenue, Suite 303 Juneau, Alaska 99811

Re: Gas N Go Fuel Station Juneau, Alaska – 2018 Groundwater Sampling

Dear Ms. Duncan:

The Gas N Go Fuel Station is located at 5165 Glacier Highway in Juneau, Alaska. The location of the site is depicted on Figure 1, Site Location Map. The layout of the site is depicted on Figure 2, 2013 Aerial Photograph and Figure 3, Site Plan. The historical excavation limits, sample locations, and groundwater monitoring wells are depicted on Figure 4, Historical Excavation Limits & Sample Locations & Groundwater Monitoring Wells.

Monitoring Well Locations

As shown on Figure 4, there are currently four existing groundwater monitoring wells (MW-1, MW-2, MW-3, and MW-11).

Sampling Procedure

The wells were non-productive in 2017 when sampling was attempted as the top of the well casings has been damaged and/or caps were missing and the wells had accumulated some material in the bottom of the wells. Repairs were made to the well in the Spring of 2018. The well casings have been repaired and the well caps have been replaced.

As part of the long term sampling plan for the Gas N Go Fuel Station, groundwater samples were collected at the four on-site monitoring wells (MW-1, MW-2, MW-3, and MW-11) on June 1, 2018. Each well was purged of at least three well volumes using a low-flow peristaltic pump and then allowed to recharge to the static water level prior to sampling. Using the same pump, samples for the most volatile organic compounds were collected first. One duplicate sample was also collected for a total of five samples.

Sampling Results

Groundwater sampling was conducted for diesel range organics (DRO) by Alaska Methods 102; gasoline range organics (GRO) by Alaska Method 101, and BTEX (benzene, toluene, ethylene, and xylene) by USEPA Method 8260C.

Table 1 summarizes the groundwater sampling results relative to ADEC groundwater cleanup levels (presented in Table C, 18 AAC 75.341) as well as past sampling events. The laboratory analytical report and laboratory data review checklist is presented in Appendix B.

DRO, GRO, and BTEX were non-detect in MW-1.

DRO was detected at a concentration of 0.16 mg/L and toluene was detected at a concentration of 0.0024 mg/L in MW-2. GRO, benzene, ethylbenzene, and xylenes were non-detect in MW-2.



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DRO was detected at a concentration of 7.0 mg/L, GRO was detected at a concentration of 3.5 mg/L, benzene was detected at a concentration of 0.0069 mg/L, ethylbenzene was detected at a concentration of 0.16 mg/L, toluene was detected at a concentration of 0.023 mg/L, and xylenes was detected at a concentration of 0.525 mg/L in MW-3.

Toluene was detected at a concentration of 0.018 mg/L in MW-4. DRO, GRO, benzene, ethylbenzene, and xylenes were non-detect in MW-4.

Samples were collected for GRO, DRO, and BTEX at MW-1, MW-2, MW-3, and MW-11. Parameters were either non-detect or met cleanup standards in all samples except MW-3, located directly west of the fuel fill island. DRO in MW-3 was detected at 7.0 mg/L, above the groundwater cleanup level of 1.5 mg/L; GRO was detected at 3.5 mg/L, above the groundwater cleanup level of 2.2 mg/L; and benzene was measured at a concentration of 0.0069 mg/l, above the groundwater cleanup level of 0.005 mg/L.

Sampling results from 2006, 2007, 2008, 2011, and 2014 had indicated that groundwater levels for GRO, DRO and BTEX were generally decreasing or stable at MW-3 (GRO decreased from 3.5 mg/L in 2011 to 0.12 mg/L in 2014 while DRO increased slightly from 1.15 mg/L in 2011 to 1.8 mg/L in 2014), however this round of analysis in 2018 shows an increase in DRO and GRO. Sampling results are stable and satisfactory at MW-1, MW-2, and MW-11.

Continued Monitoring

In accordance with the long-term monitoring plan for this site, groundwater samples are to be collected at the four wells on a three-year interval until cleanup standards have been consistently met at all wells. The next round of samples is scheduled to be collected in 2021. However, given the increased concentrations in MW-3, CES recommends another round of groundwater samples be collected in the Spring of 2019 and that the long-term monitoring plan be reevaluated based on the results of the Spring 2019 sampling event.

Additionally, ADEC requested in their December 15, 2017 letter that a work plan be submitted to address the following:

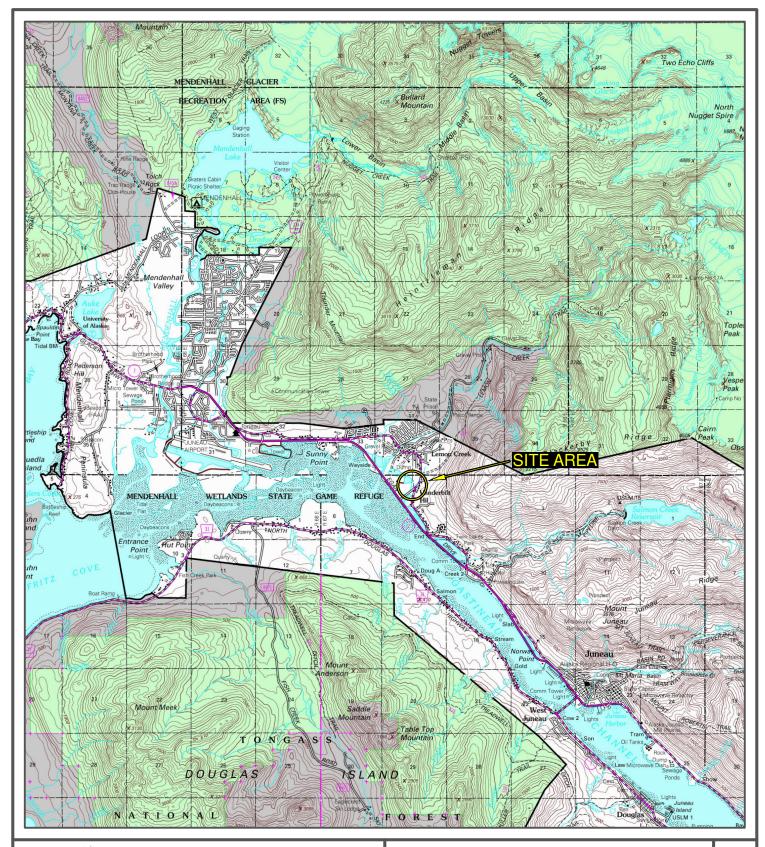
- Soil contamination is present above the maximum allowable concentration.
- The extent of groundwater contamination has not been delineated.
- The presence of lead and PAHs in groundwater and soil is unknown.

CES will be developing a plan for review by ADEC for continued investigation in the near future.

Please don't hesitate to contact me at 586-4447 if you have any questions.

Sincerely,

Jolene Cox Environmental Professional





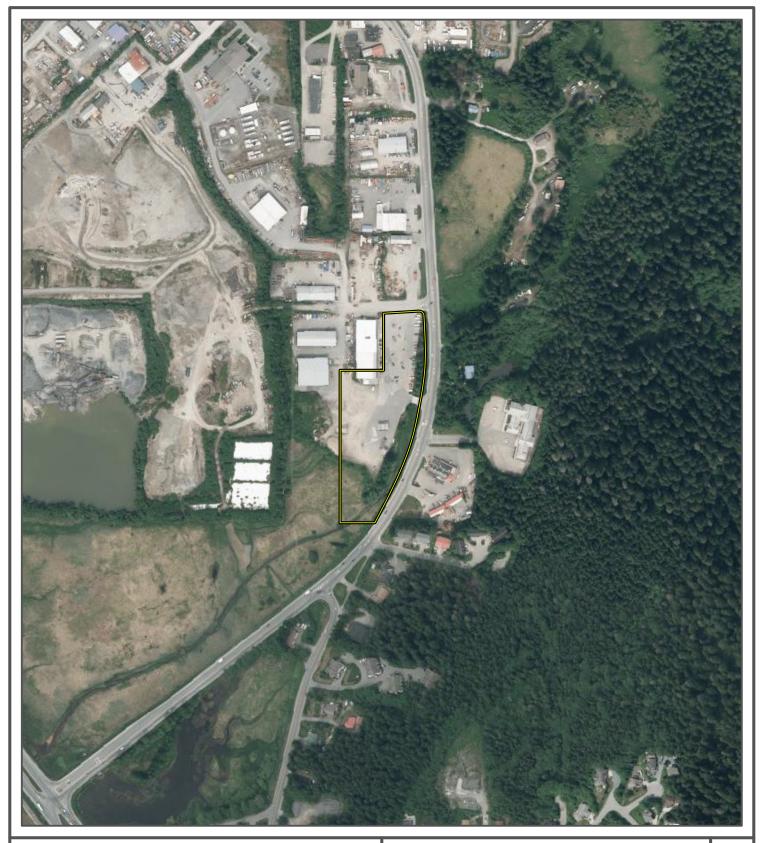
Prepared for: GRANTS PLAZA LLC

FIGURE 1. SITE LOCATION MAP

GAS N GO 5165 GLACIER HIGHWAY JUNEAU, AK



Date:4.23.2018





712 W 12th Street Juneau, Alaska 99801 907.586.4447 www.coxenv.com

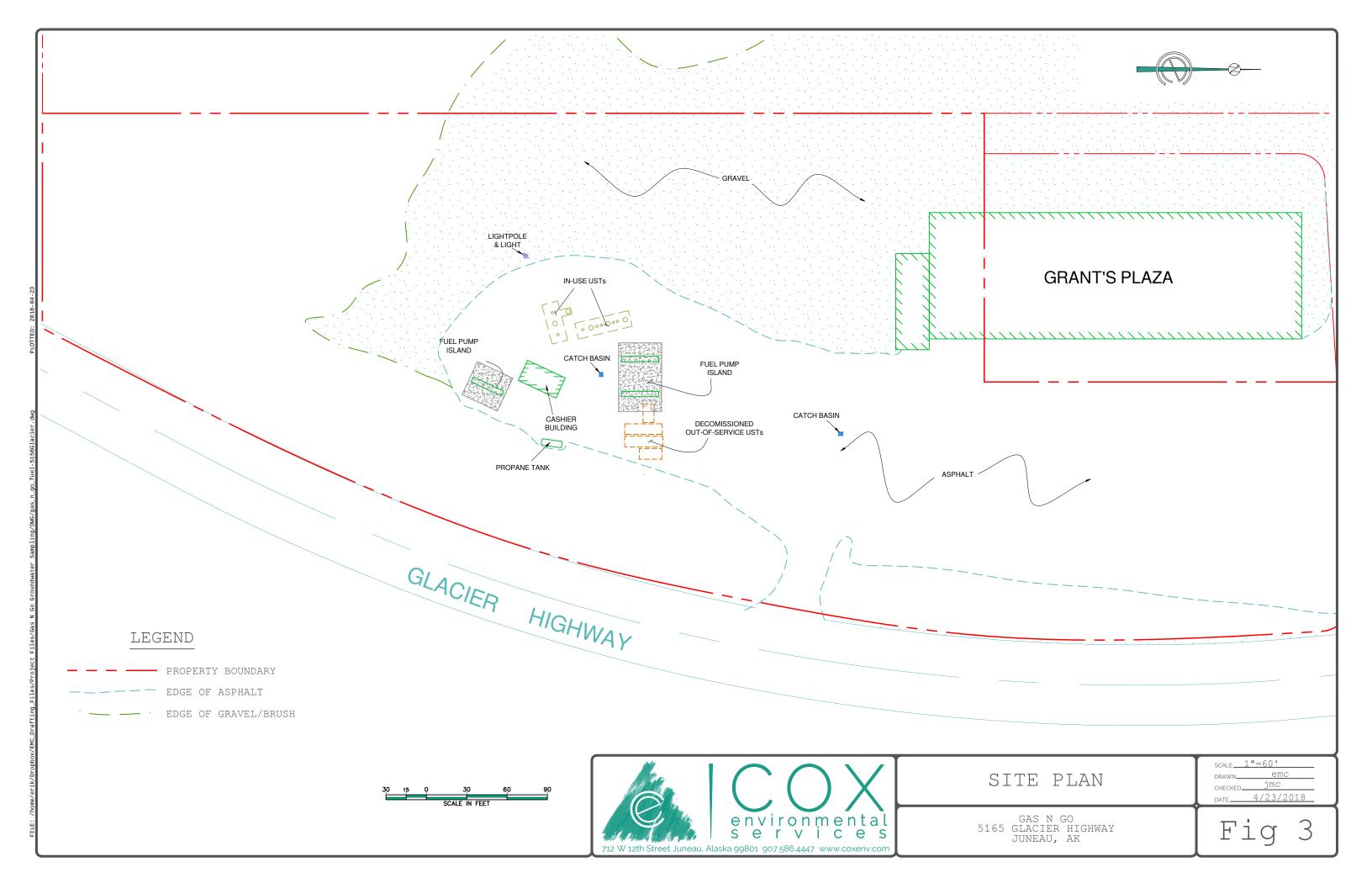
Prepared for: GRANTS PLAZA LLC

FIGURE 2. 2013 AERIAL PHOTOGRAPH

GAS N GO 5165 GLACIER HIGHWAY JUNEAU, AK



Date:4.23.2018



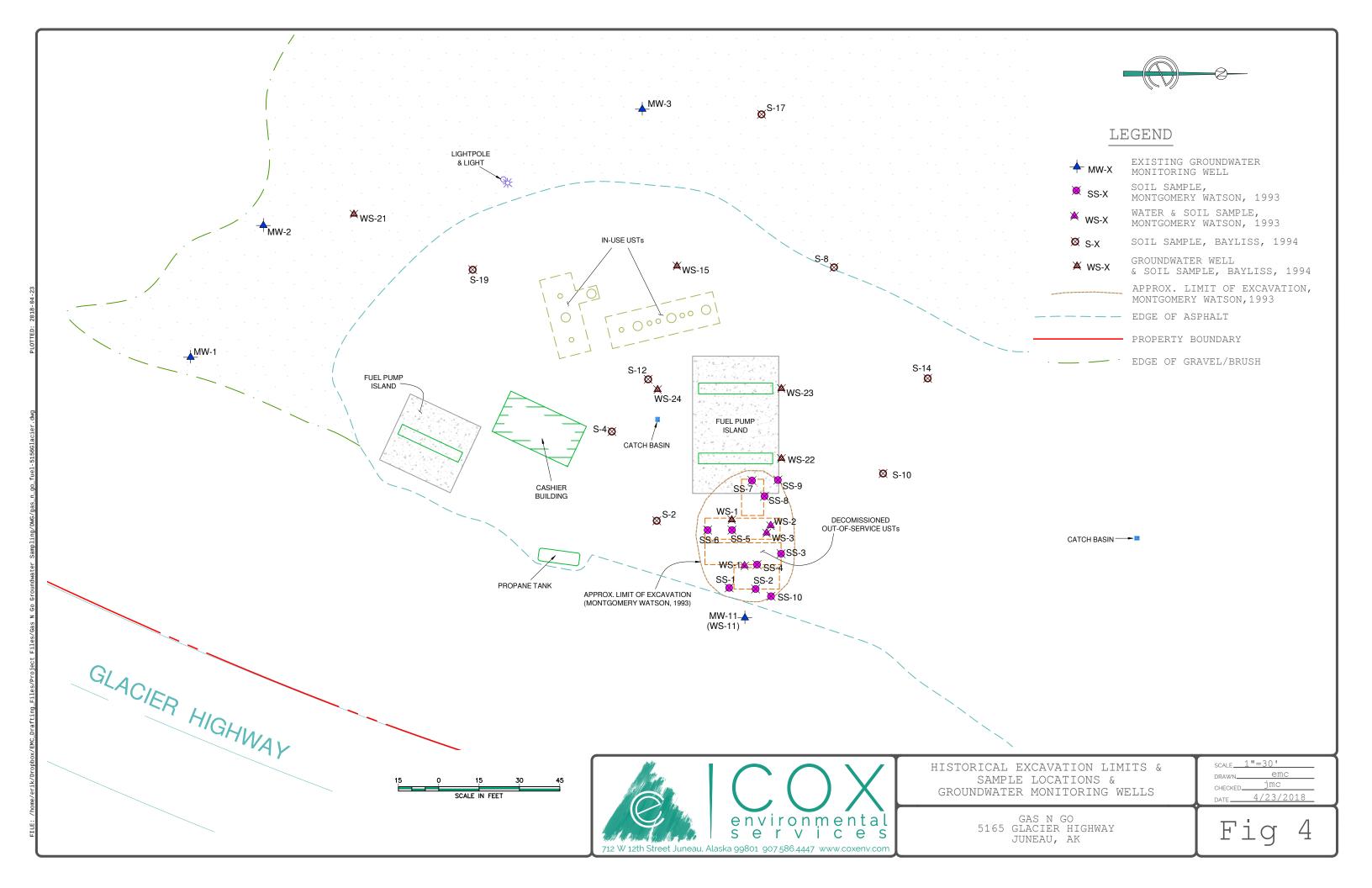


Table 1. Gas N Go Groundwater Well Sampling August 2006- June 2018

| | | | | GD C | DDO | | m 1 | T. I. II | 77 I |
|----------|---------------|-------------------|----------------------|-------------|-------------|---------------------|---------------|-----------------|--------------|
| | | | | GRO | DRO | Benzene | Toluene | Ethylbenzene | Xylenes |
| | | | | | A | DEC Groundwa | ter Cleanup L | evel | |
| Well No. | Well Depth | Depth to Water | Sample Date | 2.2 mg/L | 1.5 mg/L | 0.005 mg/L | 1.0 mg/L | 0.7 mg/L | 10 mg/L |
| MW-1 | 10.5' | 7.8' | 08/16/06 08/17/07 | 0.435 ns | 0.402 ND | 0.0145 ND | 0.0009 ND | 0.007 0.0012 | 0.0236 ND |
| | | | 11/19/07 | u | u | u | u | u | u |
| | | 8.6' | 07/10/08 | ND | ND | ND | ND | ND | ND |
| | | 8.14' | 05/25/11 | ND | ND | ND | ND | ND | ND |
| | | 8.25' | 06/17/14 | ND | ND | ND | ND | ND | ND |
| | 8.9' | 7.34' | 06/01/18 | ND | ND | ND | ND | ND | ND |
| MW-2 | 10.5' | 9.0' | 08/16/06 | ND | 0.105 | ND | ND | ND | ND |
| | | | 08/17/07 | ns | 0.471 | 0.0111 | ND | 0.0075 | 0.0178 |
| | | | 11/19/07 | 0.798 | 0.354 | 0.002 | 0.0032 | 0.0291 | 0.091 |
| | | 7.4' | 07/08/08 | ND | 0.249 | 0.0014 | ND | ND | ND |
| | | 6.8' | 05/25/11 | ND | 0.11 | 0.0011 | ND | ND | ND |
| | | 8.0' | 06/17/14 | ND | ND | 0.0015 | ND | ND | ND |
| | 8.5' | 6.42' | 06/01/18 | ND | 0.16 | ND | 0.0024 | ND | ND |
| MW-3 | 10.4' | 8.3' | 08/16/06 | 9.78 | 1.69 | 0.0067 | 0.0051 | 0.029 | 1.33 |
| | | | 08/17/07 | ns | 0.906 | ND | ND | 0.043 | 0.0542 |
| | | | 11/19/07 | 3.09 | 0.801 | 0.0059 | 0.0015 | 0.0375 | 0.0877 |
| | | 6.95' | 07/10/08 | 4.5 | 1.66 | 0.0092 | 0.0026 | 0.0837 | 0.153 |
| | | 6.96' | 05/25/11 | 3.5 | 1.15 | 0.00915 | 0.00375 | 0.105 | 0.4217 |
| | | 6.85' | 06/17/14 | 0.12 | 1.8 | 0.01 | ND | 0.0087 | 0.016 |
| | 8.1' | 6.26' | 06/01/18 | 3.5 | 7 | 0.0069 | 0.023 | 0.16 | 0.527 |
| MW-11 | 11.7' | | 08/16/06 | ns | ns | ns | ns | ns | ns |
| | | 9.6' | 08/17/07 | ns | ND | ND | ND | 0.0035 | 0.0036 |
| | | | 11/19/07 | ND | ND | ND | ND | 0.0011 | 0.0033 |
| | | 8.7' | 07/08/08 | ND | ND | ND | ND | 0.0011 | 0.0033 |
| | | 8.78' | 05/25/11 | ND | ND | ND | ND | ND | ND |
| | | 8.25' | 06/17/14 | ND | ND | ND | ND | ND | ND |
| | 10.1' | 8.59' | 06/01/18 | ND | ND | ND | 0.018 | ND | ND |

Notes: ND= not detected, ns=no sample collected, u=unproductive well

Results in **bold** above ADEC Groundwater Cleanup Level, Table C 18 AAC 75.341



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle 5755 8th Street East Tacoma, WA 98424 Tel: (253)922-2310

TestAmerica Job ID: 580-77854-1 Client Project/Site: Gas N Go

For:

Cox Environmental Services 712 W 12th Street Juneau, Alaska 99801

Attn: Jolene Cox

Shui Lorry

Authorized for release by: 6/18/2018 2:32:00 PM

Sheri Cruz, Project Manager I (253)922-2310

sheri.cruz@testamericainc.com

·····LINKS ······

Review your project results through
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Have a Question?



Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Cox Environmental Services Project/Site: Gas N Go TestAmerica Job ID: 580-77854-1

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Case Narrative

Client: Cox Environmental Services

Project/Site: Gas N Go

TestAmerica Job ID: 580-77854-1

Job ID: 580-77854-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-77854-1

Comments

No additional comments.

Receipt

The samples were received on 6/6/2018 12:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-3 (580-77854-3) and MW-3-1 (580-77854-4). Elevated reporting limits (RLs) are provided.

Method(s) AK101: Surrogate recovery for the following samples were outside control limits: MW-3 (580-77854-3) and MW-3-1 (580-77854-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: As only three 125 mL aliquots of this sample were available, two of them were mixed in the separatory funnel to give a total volume of 250 mL needed for the preparation. The separatory funnel was directly treated with surrogate, and neither bottle received a DCM rinse. The gross and tare weights recorded are the sum of the bottles to be mixed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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3

6

q

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1-

Definitions/Glossary

Client: Cox Environmental Services

Project/Site: Gas N Go

TestAmerica Job ID: 580-77854-1

Qualifiers

GC VOA

Surrogate is outside control limits

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|--|
| ~ | Listed under the "D" column to designate that the result is reported on a dry weight has |

column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TestAmerica Seattle

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Client: Cox Environmental Services Project/Site: Gas N Go

Client Sample ID: MW-1 Lab Sample ID: 580-77854-1

Date Collected: 06/01/18 10:20 **Matrix: Water**

Date Received: 06/06/18 12:50

Method: AK101 - Alaska - Gasoline Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Benzene | ND | | 3.0 | | ug/L | | | 06/11/18 16:13 | 1 |
| Ethylbenzene | ND | | 3.0 | | ug/L | | | 06/11/18 16:13 | 1 |
| m-Xylene & p-Xylene | ND | | 3.0 | | ug/L | | | 06/11/18 16:13 | 1 |
| o-Xylene | ND | | 2.0 | | ug/L | | | 06/11/18 16:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 102 | | 80 - 122 | | | - | | 06/11/18 16:13 | 1 |
| Trifluorotoluene (Surr) | 101 | | 80 - 120 | | | | | 06/11/18 16:13 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 80 - 125 | | | | | 06/11/18 16:13 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 77 - 120 | | | | | 06/11/18 16:13 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 80 - 126 | | | | | 06/11/18 16:13 | 1 |
| Method: 8260C - Volatile O | rganic Compou | nds by G | C/MS - RA | | | | | | |
| Analyte | • | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Toluene | ND ND | - | 2.0 | | ug/L | | | 06/12/18 13:07 | 1 |

| Michiga. 02000 - Volutile O | igaine compo | unas by c | Onitio Tita | | | | | | |
|------------------------------|--------------|-----------|-------------|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Toluene | ND | | 2.0 | | ug/L | | | 06/12/18 13:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 106 | | 80 - 122 | | | | | 06/12/18 13:07 | 1 |
| Trifluorotoluene (Surr) | 98 | | 80 - 120 | | | | | 06/12/18 13:07 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 125 | | | | | 06/12/18 13:07 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 77 - 120 | | | | | 06/12/18 13:07 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 80 - 126 | | | | | 06/12/18 13:07 | 1 |
| | | | | | | | | | |

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-------------------------|------------------------|----------|---|----------|-------------------------|---------|
| Gasoline Range Organics (GRO) | ND — | 0.25 | mg/L | | | 06/08/18 22:03 | 1 |
| -C6-C10 | | | | | | | |
| | | | | | | | |
| Surrogate | %Recovery Qualifier | l imite | | | Propared | Analyzed | Dil Fac |
| Surrogate | %Recovery Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Surrogate Trifluorotoluene (Surr) | %Recovery Qualifier 112 | Limits 75 - 120 | | | Prepared | Analyzed 06/08/18 22:03 | Dil Fac |
| | | | | | Prepared | | Dil Fac |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| DRO (nC10- <nc25)< th=""><th>ND</th><th></th><th>0.11</th><th></th><th>mg/L</th><th></th><th>06/13/18 08:56</th><th>06/15/18 00:23</th><th>1</th></nc25)<> | ND | | 0.11 | | mg/L | | 06/13/18 08:56 | 06/15/18 00:23 | 1 |
| RRO (nC25-nC36) | ND | | 0.25 | | mg/L | | 06/13/18 08:56 | 06/15/18 00:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 64 | | 50 - 150 | | | | 06/13/18 08:56 | 06/15/18 00:23 | 1 |
| n-Triacontane-d62 | 88 | | 50 - 150 | | | | 06/13/18 08:56 | 06/15/18 00:23 | 1 |

Client Sample Results

Client: Cox Environmental Services

Project/Site: Gas N Go

TestAmerica Job ID: 580-77854-1

Lab Sample ID: 580-77854-2

Matrix: Water

Client Sample ID: MW-2 Date Collected: 06/01/18 10:40 Date Received: 06/06/18 12:50

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Benzene | ND | | 3.0 | | ug/L | | | 06/11/18 16:39 | 1 |
| Toluene | 2.4 | | 2.0 | | ug/L | | | 06/11/18 16:39 | 1 |
| Ethylbenzene | ND | | 3.0 | | ug/L | | | 06/11/18 16:39 | 1 |
| m-Xylene & p-Xylene | ND | | 3.0 | | ug/L | | | 06/11/18 16:39 | 1 |
| o-Xylene | ND | | 2.0 | | ug/L | | | 06/11/18 16:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 101 | | 80 - 122 | | | • | | 06/11/18 16:39 | 1 |
| Trifluorotoluene (Surr) | 103 | | 80 - 120 | | | | | 06/11/18 16:39 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 80 - 125 | | | | | 06/11/18 16:39 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 77 - 120 | | | | | 06/11/18 16:39 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 80 - 126 | | | | | 06/11/18 16:39 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | | mg/L | | | 06/08/18 22:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Trifluorotoluene (Surr) | 113 | | 75 - 120 | | | | | 06/08/18 22:35 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 68 - 119 | | | | | 06/08/18 22:35 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| DRO (nC10- <nc25)< th=""><th>0.16</th><th></th><th>0.11</th><th></th><th>mg/L</th><th></th><th>06/13/18 08:56</th><th>06/15/18 00:50</th><th>1</th></nc25)<> | 0.16 | | 0.11 | | mg/L | | 06/13/18 08:56 | 06/15/18 00:50 | 1 |
| RRO (nC25-nC36) | ND | | 0.24 | | mg/L | | 06/13/18 08:56 | 06/15/18 00:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 71 | | 50 - 150 | | | | 06/13/18 08:56 | 06/15/18 00:50 | 1 |
| n-Triacontane-d62 | 89 | | 50 - 150 | | | | 06/13/18 08:56 | 06/15/18 00:50 | 1 |

6/18/2018

Client: Cox Environmental Services

Project/Site: Gas N Go

Surrogate

o-Terphenyl

n-Triacontane-d62

Client Sample ID: MW-3 Lab Sample ID: 580-77854-3 Date Collected: 06/01/18 09:15

Matrix: Water

Date Received: 06/06/18 12:50

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|--------------|-----|------|---------|----------------|----------------|---------|
| Benzene | 6.9 | | 3.0 | | ug/L | | | 06/11/18 17:05 | 1 |
| o-Xylene | 5.0 | | 2.0 | | ug/L | | | 06/11/18 17:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 100 | | 80 - 122 | | | | | 06/11/18 17:05 | 1 |
| Trifluorotoluene (Surr) | 103 | | 80 - 120 | | | | | 06/11/18 17:05 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 125 | | | | | 06/11/18 17:05 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 77 - 120 | | | | | 06/11/18 17:05 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 80 - 126 | | | | | 06/11/18 17:05 | 1 |
| Method: 8260C - Volatile Orga | anic Compo | unds by G | C/MS - DL | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Toluene | 23 | | 20 | | ug/L | | | 06/12/18 17:11 | 10 |
| Ethylbenzene | 150 | | 30 | | ug/L | | | 06/12/18 17:11 | 10 |
| m-Xylene & p-Xylene | 490 | | 30 | | ug/L | | | 06/12/18 17:11 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 104 | | 80 - 122 | | | | | 06/12/18 17:11 | 10 |
| Trifluorotoluene (Surr) | 99 | | 80 - 120 | | | | | 06/12/18 17:11 | 10 |
| 4-Bromofluorobenzene (Surr) | 103 | | 80 - 125 | | | | | 06/12/18 17:11 | 10 |
| Dibromofluoromethane (Surr) | 98 | | 77 - 120 | | | | | 06/12/18 17:11 | 10 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 80 - 126 | | | | | 06/12/18 17:11 | 10 |
| Method: AK101 - Alaska - Gas | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO) -C6-C10 | 3.5 | | 0.25 | | mg/L | | | 06/08/18 23:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Trifluorotoluene (Surr) | 116 | | 75 - 120 | | | | | 06/08/18 23:07 | 1 |
| 4-Bromofluorobenzene (Surr) | 156 | X | 68 - 119 | | | | | 06/08/18 23:07 | 1 |
| Method: AK102 & 103 - Alaska | | | nics & Resid | | | nics (C | GC) | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| DRO (nC10- <nc25)< td=""><td>0.85</td><td></td><td>0.11</td><td></td><td>mg/L</td><td></td><td>06/13/18 08:56</td><td>06/15/18 01:46</td><td>1</td></nc25)<> | 0.85 | | 0.11 | | mg/L | | 06/13/18 08:56 | 06/15/18 01:46 | 1 |
| RRO (nC25-nC36) | ND | | 0.25 | | mg/L | | 06/13/18 08:56 | 06/15/18 01:46 | 1 |

Analyzed

06/13/18 08:56 06/15/18 01:46

06/13/18 08:56 06/15/18 01:46

Prepared

Limits

50 - 150

50 - 150

%Recovery Qualifier

73

91

Dil Fac

Client: Cox Environmental Services

Project/Site: Gas N Go

RRO (nC25-nC36)

n-Triacontane-d62

Surrogate

o-Terphenyl

Client Sample ID: MW-3-1 Lab Sample ID: 580-77854-4

Date Collected: 06/01/18 09:20 **Matrix: Water** Date Received: 06/06/18 12:50

| Method: 8260C - Volatile Orga Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---------------|------------|--------------|---------|---------|----------|----------------|----------------|---------|
| Benzene | 6.9 | | 3.0 | | ug/L | | | 06/11/18 17:31 | 1 |
| o-Xylene | 5.0 | | 2.0 | | ug/L | | | 06/11/18 17:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 100 | | 80 - 122 | | | | | 06/11/18 17:31 | |
| Trifluorotoluene (Surr) | 103 | | 80 - 120 | | | | | 06/11/18 17:31 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 125 | | | | | 06/11/18 17:31 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 77 - 120 | | | | | 06/11/18 17:31 | |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 80 - 126 | | | | | 06/11/18 17:31 | 1 |
| Method: 8260C - Volatile Orga | | | | | | _ | | | |
| Analyte | | Qualifier | RL | MDL | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Toluene | ND | | 20 | | ug/L | | | 06/12/18 17:36 | 10 |
| Ethylbenzene | 160 | | 30 | | ug/L | | | 06/12/18 17:36 | 10 |
| m-Xylene & p-Xylene | 520 | | 30 | | ug/L | | | 06/12/18 17:36 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| Toluene-d8 (Surr) | 107 | | 80 - 122 | | | | | 06/12/18 17:36 | 10 |
| Trifluorotoluene (Surr) | 99 | | 80 - 120 | | | | | 06/12/18 17:36 | 10 |
| 4-Bromofluorobenzene (Surr) | 101 | | 80 - 125 | | | | | 06/12/18 17:36 | 10 |
| Dibromofluoromethane (Surr) | 98 | | 77 - 120 | | | | | 06/12/18 17:36 | 10 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 80 - 126 | | | | | 06/12/18 17:36 | 10 |
| ₋ Method: AK101 - Alaska - Gas | soline Rang | e Organics | s (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO) -C6-C10 | 3.4 | | 0.25 | | mg/L | | | 06/08/18 23:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| Trifluorotoluene (Surr) | 113 | | 75 - 120 | | | | | 06/08/18 23:39 | |
| 4-Bromofluorobenzene (Surr) | 153 | X | 68 - 119 | | | | | 06/08/18 23:39 | 1 |
| Method: AK102 & 103 - Alaska | a - Diesel Ra | ange Orga | nics & Resid | ual Ran | ge Orga | nics (C | GC) | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| DRO (nC10- <nc25)< td=""><td>7.0</td><td></td><td>0.11</td><td></td><td>mg/L</td><td></td><td>06/13/18 08:56</td><td>06/15/18 02:13</td><td></td></nc25)<> | 7.0 | | 0.11 | | mg/L | | 06/13/18 08:56 | 06/15/18 02:13 | |
| | | | | | | | | | |

0.25

Limits

50 - 150

50 - 150

0.34

%Recovery Qualifier

80

88

mg/L

06/13/18 08:56 06/15/18 02:13

06/13/18 08:56 06/15/18 02:13

06/13/18 08:56 06/15/18 02:13

Analyzed

Dil Fac

Prepared

Client Sample Results

Client: Cox Environmental Services

Project/Site: Gas N Go

TestAmerica Job ID: 580-77854-1

Lab Sample ID: 580-77854-5

Matrix: Water

Client Sample ID: MW-11
Date Collected: 06/01/18 11:30
Date Received: 06/06/18 12:50

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|----------------|------------|--------------|---------|----------|---------|----------------|----------------|---------|
| Benzene | ND | | 3.0 | | ug/L | | | 06/11/18 17:58 | 1 |
| Toluene | 18 | | 2.0 | | ug/L | | | 06/11/18 17:58 | 1 |
| Ethylbenzene | ND | | 3.0 | | ug/L | | | 06/11/18 17:58 | 1 |
| m-Xylene & p-Xylene | ND | | 3.0 | | ug/L | | | 06/11/18 17:58 | 1 |
| o-Xylene | ND | | 2.0 | | ug/L | | | 06/11/18 17:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 100 | | 80 - 122 | | | | | 06/11/18 17:58 | 1 |
| Trifluorotoluene (Surr) | 103 | | 80 - 120 | | | | | 06/11/18 17:58 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 125 | | | | | 06/11/18 17:58 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 77 - 120 | | | | | 06/11/18 17:58 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 80 - 126 | | | | | 06/11/18 17:58 | 1 |
| - Method: AK101 - Alaska - G | asoline Rang | e Organics | s (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | | mg/L | | | 06/12/18 23:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Trifluorotoluene (Surr) | 101 | | 75 - 120 | | | | | 06/12/18 23:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 68 - 119 | | | | | 06/12/18 23:24 | 1 |
| - Method: AK102 & 103 - Alas | ka - Diesel Ra | ange Orga | nics & Resid | ual Ran | ge Orgai | nics (0 | GC) | | |
| Analyte | | Qualifier | RL | MDL | | Ď | Prepared | Analyzed | Dil Fac |
| DRO (nC10- <nc25)< td=""><td>ND</td><td></td><td>0.11</td><td></td><td>mg/L</td><td></td><td>06/13/18 08:56</td><td>06/15/18 02:41</td><td>1</td></nc25)<> | ND | | 0.11 | | mg/L | | 06/13/18 08:56 | 06/15/18 02:41 | 1 |

| Method: AK102 & 103 - | Alaska - Diesel Range Orga | nics & Resid | ual Range Orga | nics (GC) | | |
|--|----------------------------|--------------|----------------|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D Prepared | Analyzed | Dil Fac |
| DRO (nC10- <nc25)< th=""><th> ND</th><th>0.11</th><th>mg/L</th><th>06/13/18 08:56</th><th>06/15/18 02:41</th><th>1</th></nc25)<> | ND | 0.11 | mg/L | 06/13/18 08:56 | 06/15/18 02:41 | 1 |
| RRO (nC25-nC36) | ND | 0.24 | mg/L | 06/13/18 08:56 | 06/15/18 02:41 | 1 |
| Surrogate | %Recovery Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 73 | 50 - 150 | | 06/13/18 08:56 | 06/15/18 02:41 | 1 |
| n-Triacontane-d62 | 93 | 50 - 150 | | 06/13/18 08:56 | 06/15/18 02:41 | 1 |

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6/18/2018

Client: Cox Environmental Services

Project/Site: Gas N Go

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-275914/5

Matrix: Water

Analysis Batch: 275914

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Benzene ND 3.0 ug/L 06/11/18 12:44 Toluene ND 2.0 06/11/18 12:44 ug/L Ethylbenzene ND 3.0 ug/L 06/11/18 12:44 m-Xylene & p-Xylene ND 3.0 ug/L 06/11/18 12:44 o-Xylene ND 2.0 ug/L 06/11/18 12:44

MB MB Surrogate Qualifier Prepared Dil Fac %Recovery Limits Analyzed Toluene-d8 (Surr) 101 80 - 122 06/11/18 12:44 Trifluorotoluene (Surr) 104 80 - 120 06/11/18 12:44 4-Bromofluorobenzene (Surr) 97 80 - 125 06/11/18 12:44 98 77 - 120 Dibromofluoromethane (Surr) 06/11/18 12:44 1,2-Dichloroethane-d4 (Surr) 109 80 - 126 06/11/18 12:44

Lab Sample ID: LCS 580-275914/6

Matrix: Water

Analysis Batch: 275914

Client Sample ID: Lab Control Sample Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec. | |
|---------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 10.0 | 9.66 | | ug/L | | 97 | 75 - 128 | |
| Toluene | 10.0 | 9.77 | | ug/L | | 98 | 75 - 120 | |
| Ethylbenzene | 10.0 | 9.39 | | ug/L | | 94 | 75 - 120 | |
| m-Xylene & p-Xylene | 10.0 | 9.66 | | ug/L | | 97 | 75 - 120 | |
| o-Xylene | 10.0 | 9.82 | | ug/L | | 98 | 74 - 120 | |

| | LCS | LUS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| Toluene-d8 (Surr) | 98 | | 80 - 122 |
| Trifluorotoluene (Surr) | 98 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 125 |
| Dibromofluoromethane (Surr) | 100 | | 77 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 80 - 126 |

Lab Sample ID: LCSD 580-275914/7

Matrix: Water

Analysis Batch: 275914

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|---------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 10.0 | 8.44 | | ug/L | | 84 | 75 - 128 | 13 | 14 |
| Toluene | 10.0 | 8.80 | | ug/L | | 88 | 75 - 120 | 10 | 13 |
| Ethylbenzene | 10.0 | 8.71 | | ug/L | | 87 | 75 - 120 | 8 | 14 |
| m-Xylene & p-Xylene | 10.0 | 8.85 | | ug/L | | 88 | 75 - 120 | 9 | 14 |
| o-Xylene | 10.0 | 8.82 | | ug/L | | 88 | 74 - 120 | 11 | 16 |

| | LCSD | LCSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| Toluene-d8 (Surr) | 99 | | 80 - 122 |
| Trifluorotoluene (Surr) | 101 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 101 | | 80 - 125 |
| Dibromofluoromethane (Surr) | 99 | | 77 - 120 |

TestAmerica Seattle

6/18/2018

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client: Cox Environmental Services

Project/Site: Gas N Go

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-275914/7

Matrix: Water

Analysis Batch: 275914

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 106 80 - 126

Lab Sample ID: MB 580-276016/5

Matrix: Water

Analysis Batch: 276016

MB MB

Client Sample ID: Method Blank

Prep Type: Total/NA

| | 1410 | | | | | | | | |
|---------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 3.0 | | ug/L | | | 06/12/18 11:04 | 1 |
| Toluene | ND | | 2.0 | | ug/L | | | 06/12/18 11:04 | 1 |
| Ethylbenzene | ND | | 3.0 | | ug/L | | | 06/12/18 11:04 | 1 |
| m-Xylene & p-Xylene | ND | | 3.0 | | ug/L | | | 06/12/18 11:04 | 1 |
| o-Xylene | ND | | 2.0 | | ug/L | | | 06/12/18 11:04 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 104 | | 80 - 122 | | 06/12/18 11:04 | 1 |
| Trifluorotoluene (Surr) | 99 | | 80 - 120 | | 06/12/18 11:04 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 80 - 125 | | 06/12/18 11:04 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 77 - 120 | C | 06/12/18 11:04 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 80 - 126 | | 06/12/18 11:04 | 1 |

Lab Sample ID: LCS 580-276016/6

Matrix: Water

Analysis Batch: 276016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec. | |
|---------------------|-------|--------|-----------|------|---|------|---------------------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 10.0 | 9.69 | | ug/L | | 97 | 75 - 128 | |
| Toluene | 10.0 | 10.1 | | ug/L | | 101 | 75 - 120 | |
| Ethylbenzene | 10.0 | 9.90 | | ug/L | | 99 | 75 ₋ 120 | |
| m-Xylene & p-Xylene | 10.0 | 10.1 | | ug/L | | 101 | 75 - 120 | |
| o-Xylene | 10.0 | 10.2 | | ug/L | | 102 | 74 - 120 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| Toluene-d8 (Surr) | 100 | | 80 - 122 |
| Trifluorotoluene (Surr) | 100 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 99 | | 80 - 125 |
| Dibromofluoromethane (Surr) | 101 | | 77 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 80 - 126 |

Lab Sample ID: LCSD 580-276016/7

Matrix: Water

Analysis Batch: 276016

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

| | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|-----------------|------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | | 10.0 | 9.73 | | ug/L | | 97 | 75 - 128 | 0 | 14 |
| Toluene | | 10.0 | 10.1 | | ug/L | | 101 | 75 - 120 | 1 | 13 |
| Ethylbenzene | | 10.0 | 10.0 | | ug/L | | 100 | 75 - 120 | 1 | 14 |
| m-Xylene & p-Xy | lene | 10.0 | 10.2 | | ug/L | | 102 | 75 - 120 | 1 | 14 |

TestAmerica Seattle

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Client: Cox Environmental Services

Project/Site: Gas N Go

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-276016/7 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 276016

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| o-Xylene | 10.0 | 10.3 | | ug/L | | 103 | 74 - 120 | 1 | 16 |

| | LCSD | LCSD LCSD | | | | | |
|------------------------------|-----------|-----------|----------|--|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | | | | |
| Toluene-d8 (Surr) | 99 | | 80 - 122 | | | | |
| Trifluorotoluene (Surr) | 99 | | 80 - 120 | | | | |
| 4-Bromofluorobenzene (Surr) | 101 | | 80 - 125 | | | | |
| Dibromofluoromethane (Surr) | 99 | | 77 - 120 | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 80 - 126 | | | | |

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Lab Sample ID: MB 580-275793/5 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 275793

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.25 06/08/18 13:28 ND mg/L Gasoline Range Organics (GRO)

-C6-C10

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 108 75 - 120 06/08/18 13:28 Trifluorotoluene (Surr) 88 68 - 119 06/08/18 13:28 4-Bromofluorobenzene (Surr)

Lab Sample ID: LCS 580-275793/6 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 275793

| | Spike | LCS | LCS | | | | %Rec. | |
|-------------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO) | 1.00 | 0.952 | | mg/L | | 95 | 77 - 123 | |

-C6-C10

| | LCS LCS | |
|-----------------------------|---------------------|----------|
| Surrogate | %Recovery Qualifier | Limits |
| Trifluorotoluene (Surr) | 102 | 75 - 120 |
| 1 Promofluorobenzone (Surr) | 02 | 69 110 |

Lab Sample ID: LCSD 580-275793/7 **Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 275793

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|-------------------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO) | 1.00 | 0.903 | | mg/L | | 90 | 77 - 123 | 5 | 20 |

-C6-C10

| | LCSD LCSD | |
|-----------------------------|---------------------|----------|
| Surrogate | %Recovery Qualifier | Limits |
| Trifluorotoluene (Surr) | 97 | 75 - 120 |
| 4-Bromofluorobenzene (Surr) | 76 | 68 - 119 |

TestAmerica Seattle

TestAmerica Job ID: 580-77854-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Cox Environmental Services

Project/Site: Gas N Go

Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: MB 580-276068/6

Matrix: Water

Analysis Batch: 276068

MB MB Result Qualifier RL **MDL** Unit D Analyzed Dil Fac **Analyte** Prepared 0.25 06/12/18 16:10 Gasoline Range Organics (GRO) ND mg/L

-C6-C10

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Trifluorotoluene (Surr) 98 75 - 120 06/12/18 16:10 68 - 119 06/12/18 16:10 4-Bromofluorobenzene (Surr) 88

Lab Sample ID: LCS 580-276068/7

Matrix: Water

Analysis Batch: 276068

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1.00 0.929 mg/L 93 77 - 123 Gasoline Range Organics (GRO)

-C6-C10

LCS LCS

Surrogate %Recovery Qualifier Limits Trifluorotoluene (Surr) 99 75 - 120 107 68 - 119 4-Bromofluorobenzene (Surr)

Lab Sample ID: LCSD 580-276068/8

Matrix: Water

Analysis Batch: 276068

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline Range Organics (GRO) 1.00 0.958 mg/L 96 77 - 123

-C6-C10

LCSD LCSD %Recovery Qualifier Limits Surrogate Trifluorotoluene (Surr) 101 75 - 120 4-Bromofluorobenzene (Surr) 103 68 - 119

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

MB MB

Lab Sample ID: MB 580-276104/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 276270** Prep Batch: 276104

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac DRO (nC10-<nC25) 0.11 $\overline{\mathsf{ND}}$ 06/13/18 08:56 06/14/18 20:42 mg/L RRO (nC25-nC36) ND 0.25 06/13/18 08:56 06/14/18 20:42 mg/L MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 68 50 - 150 06/13/18 08:56 06/14/18 20:42 n-Triacontane-d62 97 50 - 150 06/13/18 08:56 06/14/18 20:42

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6/18/2018

QC Sample Results

Client: Cox Environmental Services

Project/Site: Gas N Go

TestAmerica Job ID: 580-77854-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) (Continued)

Lab Sample ID: LCS 580-276104/2-A

Matrix: Water

Analysis Batch: 276270

Client Sample ID: Lab Control Sample Prep Type: Total/NA

| | Prep Batch: 276104 %Rec. |
|---|--------------------------|
| С | Limits |

Spike LCS LCS Analyte Added Result Qualifier Unit DRO (nC10-<nC25) 2.00 1.51 mg/L 75 75 - 125 RRO (nC25-nC36) 2.00 1.68 mg/L 84 60 - 120

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-------------------|---------------------|----------|
| o-Terphenyl | 78 | 50 - 150 |
| n-Triacontane-d62 | 80 | 50 - 150 |

Project/Site: Gas N Go

Client Sample ID: MW-1

Date Collected: 06/01/18 10:20 Date Received: 06/06/18 12:50

Client: Cox Environmental Services

Lab Sample ID: 580-77854-1

Matrix: Water

Batch Batch Dilution Batch Prepared Method **Prep Type Factor** Number or Analyzed Analyst Type Run Lab Total/NA Analysis 8260C 275914 06/11/18 16:13 TL1 TAL SEA Total/NA 8260C 276016 06/12/18 13:07 TL1 TAL SEA Analysis RA 1 Total/NA Analysis AK101 275793 06/08/18 22:03 JCV TAL SEA Total/NA Prep 3510C 276104 06/13/18 08:56 JCM TAL SEA Total/NA Analysis AK102 & 103 276270 06/15/18 00:23 CJ TAL SEA 1

Client Sample ID: MW-2 Lab Sample ID: 580-77854-2

Date Collected: 06/01/18 10:40 **Matrix: Water**

Date Received: 06/06/18 12:50

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260C | | 1 | 275914 | 06/11/18 16:39 | TL1 | TAL SEA |
| Total/NA | Analysis | AK101 | | 1 | 275793 | 06/08/18 22:35 | JCV | TAL SEA |
| Total/NA | Prep | 3510C | | | 276104 | 06/13/18 08:56 | JCM | TAL SEA |
| Total/NA | Analysis | AK102 & 103 | | 1 | 276270 | 06/15/18 00:50 | CJ | TAL SEA |

Lab Sample ID: 580-77854-3 Client Sample ID: MW-3

Date Collected: 06/01/18 09:15 **Matrix: Water**

Date Received: 06/06/18 12:50

| _ | Batch | Batch | | Dilution | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|----------|------------------|----------------------------------|---------|--------------------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260C | | | 275914 | 06/11/18 17:05 | TL1 | TAL SEA |
| Total/NA | Analysis | 8260C | DL | 10 | 276016 | 06/12/18 17:11 | TL1 | TAL SEA |
| Total/NA | Analysis | AK101 | | 1 | 275793 | 06/08/18 23:07 | JCV | TAL SEA |
| Total/NA Total/NA | Prep Analysis | 3510C AK102 & 103 | | 1 | 276104 276270 | 06/13/18 08:56 06/15/18 01:46 | | TAL SEA TAL SEA |

Lab Sample ID: 580-77854-4 Client Sample ID: MW-3-1

Date Collected: 06/01/18 09:20 **Matrix: Water** Date Received: 06/06/18 12:50

| Γ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260C | | 1 | 275914 | 06/11/18 17:31 | TL1 | TAL SEA |
| Total/NA | Analysis | 8260C | DL | 10 | 276016 | 06/12/18 17:36 | TL1 | TAL SEA |
| Total/NA | Analysis | AK101 | | 1 | 275793 | 06/08/18 23:39 | JCV | TAL SEA |
| Total/NA | Prep | 3510C | | | 276104 | 06/13/18 08:56 | JCM | TAL SEA |
| Total/NA | Analysis | AK102 & 103 | | 1 | 276270 | 06/15/18 02:13 | CJ | TAL SEA |

Lab Chronicle

Client: Cox Environmental Services

Project/Site: Gas N Go

TestAmerica Job ID: 580-77854-1

Lab Sample ID: 580-77854-5

Matrix: Water

Client Sample ID: MW-11 Date Collected: 06/01/18 11:30 Date Received: 06/06/18 12:50

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260C | _ | 1 | 275914 | 06/11/18 17:58 | TL1 | TAL SEA |
| Total/NA | Analysis | AK101 | | 1 | 276068 | 06/12/18 23:24 | JCV | TAL SEA |
| Total/NA | Prep | 3510C | | | 276104 | 06/13/18 08:56 | JCM | TAL SEA |
| Total/NA | Analysis | AK102 & 103 | | 1 | 276270 | 06/15/18 02:41 | CJ | TAL SEA |

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Cox Environmental Services

Project/Site: Gas N Go

TestAmerica Job ID: 580-77854-1

Laboratory: TestAmerica Seattle

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|--------------|---------------|-------------------|------------------------------|------------------------|
| Alaska (UST) | State Program | 10 | 17-024 | 01-19-19 |

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Sample Summary

Client: Cox Environmental Services

Project/Site: Gas N Go

TestAmerica Job ID: 580-77854-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 580-77854-1 | MW-1 | Water | 06/01/18 10:20 | 06/06/18 12:50 |
| 580-77854-2 | MW-2 | Water | 06/01/18 10:40 | 06/06/18 12:50 |
| 580-77854-3 | MW-3 | Water | 06/01/18 09:15 | 06/06/18 12:50 |
| 580-77854-4 | MW-3-1 | Water | 06/01/18 09:20 | 06/06/18 12:50 |
| 580-77854-5 | MW-11 | Water | 06/01/18 11:30 | 06/06/18 12:50 |

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TestAmerica

Loc: 580 77854

> 11922 E. First Ave., Spokane WA 99206-5302 9405 SW Nimbus Ave., Beaverton, OR 97008-7145 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119.

509-924-9200 FAX 924-9290 FAX 906-9210

907-563-9200 FAX 563-9210

THE LEADER IN ENVIRONMENTAL TESTING CHAIN OF CUSTODY REPORT Work Order #: CLIENT COX ENVIRONMENTAL SETANCES INVOICE TO: TURNAROUND REQUEST REPORT TO: ADDRESS: ()COX O COX ENV. COM JCOX WCOXENV. COM in Business Days * Organic & Inorganic Analyses P.O. NUMBER: PRESERVATIVE HCL HCL SHCH REQUESTED ANALYSES OTHER SAMPLED BY: Specify: Turnaround Requests less than standard may incur Rush Charges CLIENT SAMPLE SAMPLING MATRIX #OF LOCATION/ **IDENTIFICATION** DATE/TIME (W, S, O) CONT. COMMENTS WOID MW-W MW-2 -WM 1:3/ Therm. ID: IR4 Cor: 1,1 . Unc: O,4 . Cooler Dsc: La Place FedEx: Packing: By bloce Cust. Seal: Yes X No Lab Cour: Wet/Packs/Dry Ice/None Other: DATE 6/6/18 FIRM: TASEH TIME: TIME: 1250 RELEASED BY DATE: RECEIVED BY: DATE PRINT NAME: TIME: PRINT NAME: FIRM: TIME: ADDITIONAL REMARKS: TEMP: PAGE



TAL-1000 (0714)

Login Sample Receipt Checklist

Client: Cox Environmental Services Job Number: 580-77854-1

Login Number: 77854 List Source: TestAmerica Seattle

List Number: 1

Creator: Gall, Brandon A

| Creator: Gall, Brandon A | | | | | |
|---|--------|--|--|--|--|
| Question | Answer | Comment | | | |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td> | N/A | Lab does not accept radioactive samples. | | | |
| The cooler's custody seal, if present, is intact. | True | | | | |
| Sample custody seals, if present, are intact. | True | | | | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | | | |
| Samples were received on ice. | True | | | | |
| Cooler Temperature is acceptable. | True | | | | |
| Cooler Temperature is recorded. | True | | | | |
| COC is present. | True | | | | |
| COC is filled out in ink and legible. | True | | | | |
| COC is filled out with all pertinent information. | True | | | | |
| Is the Field Sampler's name present on COC? | True | | | | |
| There are no discrepancies between the containers received and the COC. | True | | | | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | | | |
| Sample containers have legible labels. | True | | | | |
| Containers are not broken or leaking. | True | | | | |
| Sample collection date/times are provided. | True | | | | |
| Appropriate sample containers are used. | True | | | | |
| Sample bottles are completely filled. | True | | | | |
| Sample Preservation Verified. | True | | | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | | | | |
| Multiphasic samples are not present. | True | | | | |
| Samples do not require splitting or compositing. | True | | | | |
| Residual Chlorine Checked. | N/A | | | | |

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Laboratory Data Review Checklist

Completed by: Jolene M Cox

Title: Principal Environmental Scientist

Date: July 3, 2018

CS Report Name: Gas N Go

Report Date: June 18, 2018

Consultant Firm: Cox Environmental Services

Laboratory Name: TestAmerica, Inc.

Laboratory Report Number: 580-77854-1

ADEC File Number: 1513.26.013

ADEC RecKey Number:

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses? YES

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved? **N/A**

2. Chain of Custody (COC)

- a. COC information completed, signed, and dated (including released/received by)? YES
- b. Correct analyses requested? YES

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ}$ C)? **YES**
- b. Sample preservation acceptable acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)? **YES**
- c. Sample condition documented broken, leaking (Methanol), zero headspace (VOC vials)? N/A
- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.? As only three 125 mL aliquots of this sample were available, two of them were mixed in the separatory funnel to give a total volume of 250 mL needed for the preparation. The separatory funnel was directly treated with surrogate, and neither bottle received a DCM rinse. The gross and tare weights recorded are the sum of the bottles to be mixed.
- e. Data quality or usability affected? NO

4. Case Narrative

- a. Present and understandable? YES
- b. Discrepancies, errors or QC failures identified by the lab? **NO**
- c. Were all corrective actions documented? N/A
- d. What is the effect on data quality/usability according to the case narrative? **NONE**

5. Samples Results

- a. Correct analyses performed/reported as requested on COC? YES
- b. All applicable holding times met? **YES**
- c. All soils reported on a dry weight basis? **YES**
- d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project? **YES**
- e. Data quality or usability affected? NO

6. QC Samples

- a. Method Blank
 - i. One method blank reported per matrix, analysis and 20 samples? YES
 - ii. All method blank results less than PQL? YES
 - iii. If above PQL, what samples are affected? N/A
 - iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? **N/A**
 - v. Data quality or usability affected? NO
- b. Laboratory Control Sample/Duplicate (LCS/LCSD)
 - i. Organics One LCS/LCSD reported per matrix, analysis and 20 samples (LCS/LCSD required per AK methods, LCS required per SW846)? **YES**
 - ii. Metals/Inorganics one LCS and one sample duplicate reported per matrix, analysis and 20 samples?N/A
 - iii. Accuracy All percent recoveries (%R) reported and within method or laboratory limits (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)? **YES**
 - iv. Precision All relative percent differences (RPD) reported and less than method or laboratory limits RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)? **YES**
 - v. If %R or RPD is outside of acceptable limits, what samples are affected? N/A
 - vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined? **N/A**
 - vii. Data quality or usability affected? NO
- c. Surrogates Organics Only
 - i. Are surrogate recoveries reported for organic analyses field, QC and laboratory samples? YES
 - ii. Accuracy All percent recoveries (%R) reported and within method or laboratory limits (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)? **NO, Surrogate** recovery for the following samples were outside control limits: MW-3 (580-77854-3) and MW-3-1 (580-77854-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.
 - iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined? **YES**
 - iv. Data quality or usability affected? NO
- d. Trip blank Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.):
 - One trip blank reported per matrix, analysis and for each cooler containing volatile samples (if not, enter explanation below.)? YES
 - ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC (If not, a comment explaining why must be entered below)? **YES**
 - iii. All results less than PQL? YES
 - iv. If above PQL, what samples are affected? N/A
 - v. Data quality or usability affected? NO
- e. Field Duplicate
 - i. One field duplicate submitted per matrix, analysis and 10 project samples? **YES**
 - ii. Submitted blind to lab? **YES**
 - iii. Precision All relative percent differences (RPD) less than specified DQOs (Recommended: 30% water, 50% soil)? **NO**

RPD (%) = Absolute value of: $(R1-R2)/((R1+R2)/2) \times 100$

Where R1 = Sample Concentration R2 = Field Duplicate Concentration

- iv. Data quality or usability affected? NO, the high concentration is used.
- f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below.)
 - i. All results less than PQL? N/A
 - ii. If above POL, what samples are affected? **N/A**
 - iii. Data quality or usability affected? NO

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate? **N/A**