



Ventura County
Air Pollution
Control District

**ANNUAL COMPLIANCE CERTIFICATION
SIGNATURE COVER FORM**

A copy of each Annual Compliance Certification shall be submitted to EPA, Region 9, at the following address:

Mr. Gerardo Rios, Chief
Permits Office (AIR-3)
Office of Air Division
EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

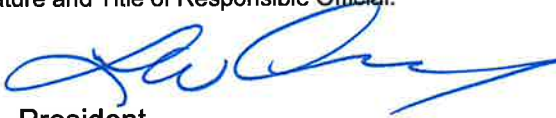
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Confidentiality

All information in a Part 70 permit compliance certification is public information. The Part 70 permit is also public information.

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

<p>Signature and Title of Responsible Official:</p>  <p>Title: President</p>	<p>Date:</p> <p>2/7/2020</p>
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Time Period Covered by Compliance Certification

01 / 01 / 19 (MM/DD/YY) to 12 / 31 / 19 (MM/DD/YY)



February 5, 2020

Ventura County Air Pollution Control District
Attn.: Ed Swede
669 County Square Drive
Ventura, CA 93003

Via USPS Priority
Claim No. 9405 5118 9956 1732 3356 51

**Subject: 2020 Title V Annual Compliance Certification
Ventura Harbor Station, Facility ID 00082**

Dear Mr. Swede:

Enclosed is the Title V Annual Compliance Certification for Crimson California Pipeline, L.P.'s Ventura Harbor Station Facility ID 00082. This report covers the compliance period of January 1, 2019 through December 31, 2019.

Should any questions arise, please do not hesitate to contact Crimson Environmental at (562) 285-4040.

Respectfully,

A handwritten signature in blue ink, appearing to read "Valerie Muller".

Valerie Muller
Environmental Specialist

CC: Mr. Gerardo Rios, Chief, EPA Region 9

Enclosures: Title V Annual Compliance Certification 1/1/2019 – 12/31/2019

Permit Attachment Form



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 19 (MM/DD/YY) to 12 / 31 / 19 (MM/DD/YY)

<p>A. Attachment # or Permit Condition #: Att. No. 71.2N2, Rules 71.2.B.4, 71.2.C.1</p> <p>B. Description: External floating roof crude oil storage tank ≥ 40,000 gallons Rules 71.2B4, 71.2C.1, 71.2D, 71.2E</p>	<p>D. Frequency of monitoring: Annually</p> <p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable Rule 71.2 Inspection</p>
<p>C. Method of monitoring: Primary and secondary seals were inspected on 5/22/2019.</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> I </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p><i>*If yes, attach Deviation Summary Form</i></p>

<p>A. Attachment # or Permit Condition #: Att. No. 71.4N1, Rules 71.4.B.2, 71.4.C.2</p> <p>B. Description: Sumps, pits, and ponds with covers. Fugitive emissions monitoring and integrity of cover</p>	<p>D. Frequency of monitoring: Quarterly</p> <p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable EPA Method 21</p>
<p>C. Method of monitoring: Quarterly fugitive emissions (Rule 74.10) inspections were conducted 3/13, 6/27, 9/11, and 12/18/2019. The integrity of the cover was verified. No leaks greater than 10,000 ppm were discovered.</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p><i>*If yes, attach Deviation Summary Form</i></p>

<p>A. Attachment # or Permit Condition #: Att. No. 74.9N3, Rules 74.9.B.1 and B.2</p> <p>B. Description: Stationary natural gas fired - rich-burn internal combustion engine quarterly inspections and biennial source test.</p>	<p>D. Frequency of monitoring: Quarterly</p> <p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable CARB Method 100</p>
<p>C. Method of monitoring: Quarterly Emissions testing has been conducted as follows: Q2: 6/7 (G-3 S/N 54050); G-1 S/N 72B01367 exempt as per 74.9B(5) Q3: 9/17 (G-3 S/N 54050); G-1 S/N 72B01367 exempt as per 74.9B(5) Q4: 10/22 (G-3 S/N 54050); 12/12 (G-1 S/N 72B01367). The last Biennial Source Test was performed on 1/10/2019.</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> I </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p><i>*If yes, attach Deviation Summary Form</i></p>



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<p>A. Attachment # or Permit Condition #: Att. No. 40CFR63ZZZN5</p>	<p>D. Frequency of monitoring: Every 1,440 hours or annually, whichever comes first</p>
<p>B. Description: RICE MACT for non-emergency 4SRB =< 500 HP oil and filter change maintenance.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Maintenance records, hours of operation.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. PO0082PC1 - Cond. No. 1, Rule 26</p>	<p>D. Frequency of monitoring: Monthly</p>
<p>B. Description: Throughput and consumption limits.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Facility throughput and fuel consumption for engines and/or tanks recorded monthly.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. PO0082PC1 - Cond. No. 2, Rule 26</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Combustion equipment shall burn only natural gas.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Combustion equipment only burns natural gas.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: Att. No. PO0082PC1 - Cond. No. 3, Rule 29</p>	<p>D. Frequency of monitoring: Monthly</p>
<p>B. Description: Solvent usage and exemptions.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Safety data sheets and additional information of any solvents used during this compliance period obtained and reviewed. Usage of required solvents logged monthly.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. PO0082PC2, Rules 26 and 74.9</p>	<p>D. Frequency of monitoring: Quarterly</p>
<p>B. Description: BACT for Caterpillar Engine G-1 - emissions limits (ROC, NOx, CO). Monitor Air:Fuel ratio controller readings quarterly.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable CARB Method 100</p>
<p>C. Method of monitoring: Biennial source test last conducted on 1/10/2019. Air:Fuel ratio controllers monitored on Engine Data Sheets.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 50, Rule 50</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Opacity observation at the facility.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable EPA Method 9</p>
<p>C. Method of monitoring: Opacity conducted by AirX Testing Services, Inc. on 1/10/2019. Opacity surveillance and visual inspections of emissions conducted and recorded on fugitive emission log.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: Att. No. 54.B.1, Rule 54.B.1</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Sulfur emissions from combustion operations at point of discharge; follow monitoring requirements under Rule 64.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Facility follows monitoring requirements under Rule 64. Only PUC grade natural gas combusted at this facility. No additional periodic monitoring required.</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u> G. Compliance Status? (C or I): <u> C </u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 54.B.2, Rule 54.B.2</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Emission of sulfur compounds.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Only PUC grade natural gas combusted at this facility.</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u> G. Compliance Status? (C or I): <u> C </u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 55, Rule 55</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Fugitive Dust.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: No dust generating activities were conducted at this facility during this compliance period.</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u> G. Compliance Status? (C or I): <u> C </u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u> *If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: Att. No. 57.1, Rule 57.1</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Particulate matter emissions from fuel burning equipment.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: This facility does not have any fuel burning equipment such as boilers, steam generators, process heaters, water heaters, flares, and gas turbines. Internal combustion engines do not apply.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 64.B.1, Rule 64.B.1</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Sulfur content of fuels - gaseous fuel requirements.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Only PUC grade natural gas combusted at this facility. No periodic monitoring required.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 74.6, Rule 74.6</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Solvent cleaning activities.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: No reportable solvents used at this facility during this compliance period.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: Att. No. 74.10, Rule 74.10</p>	<p>D. Frequency of monitoring: Quarterly</p>
<p>B. Description: Fugitive leak and leak inspections.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable EPA Method 21</p>
<p>C. Method of monitoring: Quarterly component leak detection inspections conducted on 3/13, 6/27, 9/11, and 12/18/2019. Routine surveillance at this unmanned facility recorded on fugitive emission log.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 74.11.1, Rule 74.11.1</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Large water heaters and small boilers.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: This facility is not equipped with large water heaters or small boilers.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 74.22, Rule 74.22</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Requirements for natural gas-fired fan-type central furnaces,</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: This facility is not equipped with fan-type central furnaces.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: Att. No. 74.1, Rule 74.1</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Abrasive blasting.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: No abrasive blasting activities were conducted at this facility during this compliance period.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 74.2, Rule 74.2</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Architectural coatings.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: No architectural coatings were applied at this facility during this compliance period.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Att. No. 74.26, Rule 74.26</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Crude oil storage tank degassing operations.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: No crude oil storage tank degassing activities were conducted at this facility during this compliance period.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: Att. No. 74.29N3, Rule 74.29</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: Soil decontamination operation.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: No soil decontamination activities were conducted at this facility during this compliance period.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <i>*If yes, attach Deviation Summary Form</i></p>

<p>A. Attachment # or Permit Condition #: Att. No. 40CFR.61.M, Rule 40 CFR Part 61, Subpart M</p>	<p>D. Frequency of monitoring: Intermittent</p>
<p>B. Description: National emission standards for asbestos.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: No asbestos removal, renovation, or demolition activities were conducted at this facility during this compliance period.</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> <i>*If yes, attach Deviation Summary Form</i></p>

<p>A. Attachment # or Permit Condition #:</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description:</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p>
<p>C. Method of monitoring:</p>	<p>F. Currently in Compliance? (Y or N): _____ G. Compliance Status? (C or I): _____ H. *Excursions, exceedances, or other non-compliance? (Y or N): _____ <i>*If yes, attach Deviation Summary Form</i></p>

Source Test Summary Form



Ventura County
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ANNUAL COMPLIANCE CERTIFICATION SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 19 (MM/DD/YY) to 12 / 31 / 19 (MM/DD/YY)

A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: NOx
C. Measured Emission Rate: 5.60 ppmv @ 15% O2	D. Limited Emission Rate: 9 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 1/10/2019 (Biennial Source Test)

A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: CO
C. Measured Emission Rate: 41.21 ppmv @ 15% O2	D. Limited Emission Rate: 1,000 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 1/10/2019 (Biennial Source Test)

A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: ROC
C. Measured Emission Rate: <0.9 ppmv @ 15% O2	D. Limited Emission Rate: 1,00 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 1/10/2019 (Biennial Source Test)

A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: NOx
C. Measured Emission Rate: 6.8 ppmv @ 15% O2	D. Limited Emission Rate: 25 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 1/10/2019 (Biennial Source Test)

A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: CO
C. Measured Emission Rate: 1,451 ppmv @ 15% O2	D. Limited Emission Rate: 4,500 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 1/10/2019 (Biennial Source Test)



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A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: ROC
C. Measured Emission Rate: 1.2 ppmv @ 15% O2	D. Limited Emission Rate: 250 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 1/10/2019 (Biennial Source Test)

A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: NOx
C. Measured Emission Rate: Exempt as per Rule 74.9B.5(b)	D. Limited Emission Rate: N/A	E. Specific Source Test or Monitoring Record Citation: N/A	F. Test Date: Q2

A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: CO
C. Measured Emission Rate: Exempt as per Rule 74.9B.5(b)	D. Limited Emission Rate: N/A	E. Specific Source Test or Monitoring Record Citation: N/A	F. Test Date: Q2

A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: NOx
C. Measured Emission Rate: 11.35 ppmv @ 15% O2	D. Limited Emission Rate: 25 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 6/7/2019

A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: CO
C. Measured Emission Rate: 3,907 ppmv @ 15% O2	D. Limited Emission Rate: 4,500 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 6/7/2019



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A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: NOx
C. Measured Emission Rate: Exempt as per Rule 74.9B.5(b)	D. Limited Emission Rate: N/A	E. Specific Source Test or Monitoring Record Citation: N/A	F. Test Date: Q3

A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: CO
C. Measured Emission Rate: Exempt as per Rule 74.9B.5(b)	D. Limited Emission Rate: N/A	E. Specific Source Test or Monitoring Record Citation: N/A	F. Test Date: Q3

A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: NOx
C. Measured Emission Rate: 13.6 ppmv @ 15% O2	D. Limited Emission Rate: 25 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 9/17/2019

A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: CO
C. Measured Emission Rate: 2,713 ppmv @ 15% O2	D. Limited Emission Rate: 4,500 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 9/17/2019

A. Emission Unit Description:			B. Pollutant:
C. Measured Emission Rate:	D. Limited Emission Rate:	E. Specific Source Test or Monitoring Record Citation:	F. Test Date:



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 19 (MM/DD/YY) to 12 / 31 / 19 (MM/DD/YY)

A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: NOx
C. Measured Emission Rate: 5.4 ppmv @ 15% O2	D. Limited Emission Rate: 9 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 12/12/2019

A. Emission Unit Description: 415 HP Caterpillar NG Rich Burn Engine G-1 (S/N 72B01367)			B. Pollutant: CO
C. Measured Emission Rate: 27.1 ppmv @ 15% O2	D. Limited Emission Rate: 1,000 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 12/12/2019

A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: NOx
C. Measured Emission Rate: 8.0 ppmv @ 15% O2	D. Limited Emission Rate: 25 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 10/21/2019

A. Emission Unit Description: 465 HP Enterprise GSG-6 NG Rich Burn Engine G-3 (S/N 54050)			B. Pollutant: CO
C. Measured Emission Rate: 3,034 ppmv @ 15% O2	D. Limited Emission Rate: 4,500 ppmv @ 15% O2	E. Specific Source Test or Monitoring Record Citation: AirX Testing Services, Inc.	F. Test Date: 10/21/2019

A. Emission Unit Description:			B. Pollutant:
C. Measured Emission Rate:	D. Limited Emission Rate:	E. Specific Source Test or Monitoring Record Citation:	F. Test Date:

Attachment 71.2N3

Annual Tank Seal Inspection Report

**VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT
RULE 71.2 INSPECTION REPORT**

****PLEASE COMPLETE FORM LEGIBLY IN BLACK INK****

Created by Beacon Energy Services, Inc.

Tank No. 150305 Permit No. 00082 Inspection Date 5/22/2019 Time 10:50am
 Is this a Follow-up inspection? Yes No If yes, Date of Previous Inspection: _____

A. COMPANY INFORMATION:

Company Name Crimson Pipeline L.P.
 Location Address 1200 Spinkaker Road City Ventura Zip 93003
 Mailing Address 210 North 12th Street City Santa Paula Zip 93060
 Contact Person Tim Eggleston Title Supervisor
 Phone 805-525-6312

B. INSPECTION CONDUCTED BY:

Name Matt Story Title Inspector
 Company Name Beacon Energy Services, Inc. Phone 562-997-3087
 Mailing Address 2685 Temple ave City Signal Hill Zip 90755

C. TANK INFORMATION:

Capacity 150,000 Installation Date _____ Diameter 150' Ht. 51'
 Product Type Crude Product RVP _____
 Type of Tank Riveted Welded Other (Describe) _____
 Color of Shell White Color of Roof White
 Roof Type Pontoon Double Deck Other (Describe) _____
 External floating roof Internal floating roof

D. GROUND LEVEL INSPECTION:

1) Product Temperature _____ Product Level 16' - 0"
 3) List type and location of leaks found in tank shell. _____
 No leaks found in shell

E. INTERNAL FLOATING ROOF TANK:

1) Check vapor space between floating roof and fixed roof with explosimeter. _____ % LEL
 2) Conduct visual inspection of roofs and secondary seals, if applicable.
 3) Are all roof openings covered? No Yes
 If no, explain in comments section (J) and proceed to part (H)(6)

F. EXTERNAL FLOATING ROOF TANK:

1) On the diagram (attached) indicate the location of the ladder, roof drain(s), anti-rotation device(s), platform, gauge well, vents or other appurtenances. Note information relative to North (to the top of the worksheet)
 2) Identify any tears in the seal fabric. Describe and indicate on diagram (attached)
None
 3) If this is an In-Service External Floating seal inspection, record the LEL% reading within 3 feet of the seal LEL 0%

**VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT
RULE 71.2 INSPECTION REPORT**

Tank No. 150305 Permit No. 00082

G. FROM GAUGER PLATFORM:

1) Observe the entire floating roof:

Is the roof badly warped or buckled? No Yes NA
 Is there any obvious damage? No Yes NA

2) Are there liquid hydrocarbons on the roof? No Yes NA

3) Is there water ponding on the roof? No Yes NA

Occasionally pools of water are usually a result of inadequate slope for damage or from a leaky geodesic dome roof. These do not become a hazard unless the roof drain system is not flowing freely or unless the water covers over half the roof.

4) For an External Floating Roof, is the bonding cable at the top of the rolling ladder in deteriorated condition? No Yes NA

H. SEAL INSPECTION:

1) Secondary Seal Inspection

a) Type of Secondary Seal: Single wiper

b) Does 1/2" probe drop past seal? No Yes If yes, measure length(s) and show on diagram

c) Does 1/8" probe drop past seal? No Yes If yes, measure length(s) and show on diagram

d) Record dimensions for gaps > 1/8" 1' >1/2" 0

**NOTE: Record the actual width and cumulative length of gaps in feet and inches. Do not include >1/8" gaps in 1/2" measures*

2) Primary Seal Inspection

a) Type of Primary Seal: Shoe Tube Other

b) (shoe seal) does 1-1/2" probe drop past seal? No Yes If yes, measure length(s) and show on diagram

c) (shoe seal) does 1/2" probe drop past seal? No Yes If yes, measure length(s) and show on diagram

NA d) (tube seal) does 1/2" probe drop past seal? No Yes If yes, measure length(s) and show on diagram

e) (all seal types) does 1/8" probe drop past seal? No Yes If yes, measure length(s) and show on diagram

f) Record dimensions of gaps for gaps > 1/8" 1' >1/2" 2' - 8" >1-1/2" 0

**NOTE: Record the actual width and cumulative length of gaps in feet and inches. Do not include 1/8" 1/2" gaps in 1-1/2 measurements*

**NOTE: Record the actual width and cumulative length of gaps in feet and inches. Do not include >1/8" gaps in 1/2" measures*

**VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT
RULE 71.2 INSPECTION REPORT**

Tank No. 150305 Permit No. 00082

I. CALCULATIONS - Complete all applicable portions of the following:

Gaps in <u>Primary Seal</u> between 1/8" and 1/2"	<u>1</u> (feet)	<u>0</u> (Inches)
Gaps in <u>Primary Seal</u> between 1/2" and 1-1/2"	<u>2</u> (feet)	<u>8</u> (Inches)
Gaps in <u>Primary Seal</u> greater than 1-1/2"	<u>0</u> (feet)	<u>0</u> (Inches)
Gaps in <u>Secondary Seal</u> between 1/8" and 1/2"	<u>1</u> (feet)	<u>0</u> (Inches)
Gaps in <u>Secondary Seal</u> > 1/2"	<u>0</u> (feet)	<u>0</u> (Inches)

Multiply diameter (ft) of tank to determine appropriate gap limits:

5% Circumference = Diameter X 0.157 =	<u>23.55</u>	60% Circ. = Diameter X 1.88 =	<u>282</u>
10% Circumference = Diameter X 0.314 =	<u>47.1</u>	90% Circ. = Diameter X 2.83 =	<u>424.5</u>
30% Circumference = Diameter X 0.942 =	<u>141.3</u>	95% Circ = Diameter X 2.98 =	<u>447</u>

J. DETERMINE COMPLIANCE STATUS OF TANK:

- 1) Were any openings found on the roof? No Yes
- 2) Were any tears in the seals found? No Yes
- 3) Is the product level lower than the level at which the roof would be floating? No Yes
- 4) Secondary Seal:
 - Did 1/2" probe drop between the shell and seal? No Yes
 - Did cumulative 1/8" - 1/2" gap exceed 5% of the tank circumference length? No Yes
- 5) Primary Seal:
 - Shoe
 - Did 1-1/2" probe drop between the shell and seal? No Yes
 - Did cumulative 1/2" - 1-1/2" gap exceed 10% circumference length? No Yes
 - Did cumulative 1/8" - 1/2" gap exceed 40% circumference length? No Yes
 - Did any single continuous 1/8" - 1-1/2" gap exceed 10% circumference length? No Yes
 - Tube
 - Did 1/2" probe drop between the shell and seal? No Yes NA
 - Did cumulative 1/8" - 1/2" gap exceed 95% circumference length? No Yes NA

If "yes" is checked for any of the above items the tank is Out of Compliance

- 7) Does tank have permit conditions? No Yes
- Does tank comply with these conditions? No Yes

1 IF INSPECTION WAS TERMINATED PRIOR TO COMPLETION FOR ANY REASON, PLEASE EXPLAIN

VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT
RULE 71.2 INSPECTION REPORT

Tank No. 150305 Permit No. 00082

K. **COMMENTS:**

Use this section to complete answers to above listed items and to describe repairs made to the tank; include date and time repairs were made.

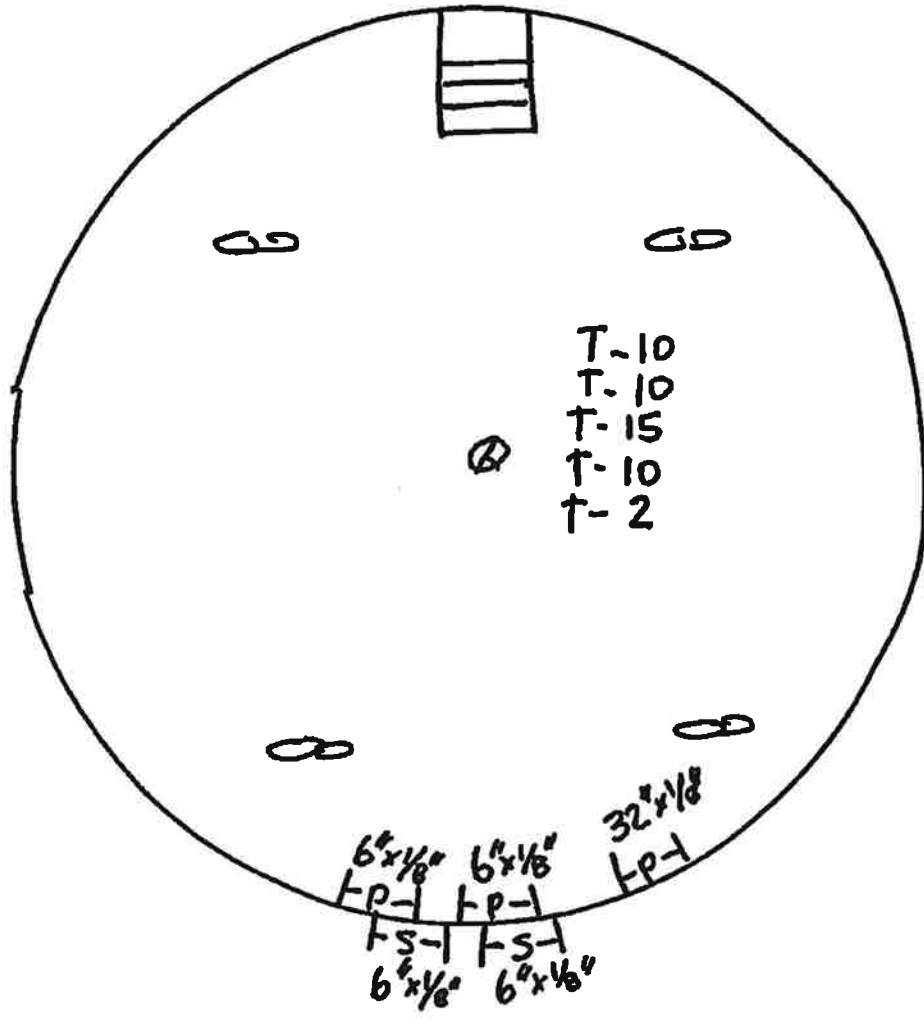
TANK IS IN COMPLIANCE AT THIS TIME

L. I (We) certify the foregoing information to be correct to the best of my (Our) knowledge.

Inspection completed by	Matt Story <i>MATT STORY</i>	Cert ID	MS003	Date	5/22/2019
<i>signature</i>					
Compliance status by	Robert Hoppenrath <i>[Signature]</i>	Cert ID	RH003	Date	5/22/2019
<i>signature</i>					
Company Representative	Matt Smalley <i>[Signature]</i>	Cert ID		Date	5/30/19
<i>signature</i>					

A copy of this Inspection Report must be provided to the Ventura County APCD within 30 Calendar days after the inspection date. A copy of this report must be kept on-site and made available to Ventura County APCD upon request for a period of 4 Years.

VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT
RULE 71.2 INSPECTION REPORT



Attachment 71.4N1

Rule 74.10 Quarterly Component Leak Report



Ventura County APCD
Rule 74.10 Component Leak Report

Q1/2019

Company Crimson Pipeline, LLC
Facility Ventura Harbor Pump Station
1200 Spinnaker Dr., Ventura, CA 93003

District ID 00082
Contact EH&S Department

Component Group	Accessible	Inaccessible	Leaks	Percentage
Stuffing Box	0	0	0	0
Threaded Component	2	0	0	0
Valve	1	0	0	0
Flange	0	0	0	0
Compressor	0	0	0	0
Pump	0	0	0	0
Atmospheric PRD	0	0	0	0
Other	0	0	0	0

No Reportable Leaks for this Quarter
Inspected on 03/13/2019



Ventura County APCD
Rule 74.10 Component Leak Report

Q2/2019

Company Crimson Pipeline, LLC
Facility Ventura Harbor Pump Station
1200 Spinnaker Dr., Ventura, CA 93003

District ID 00082
Contact EH&S Department

Component Group	Accessible	Inaccessible	Leaks	Percentage
Stuffing Box	0	0	0	0
Threaded Component	2	0	0	0
Valve	1	0	0	0
Flange	0	0	0	0
Compressor	0	0	0	0
Pump	0	0	0	0
Atmospheric PRD	0	0	0	0
Other	0	0	0	0

No Reportable Leaks for this Quarter
Inspected on 06/27/2019



Ventura County APCD
Rule 74.10 Component Leak Report

Q3/2019

Company Crimson Pipeline, LLC
Facility Ventura Harbor Pump Station
1200 Spinnaker Dr., Ventura, CA 93003

District ID 00082
Contact EH&S Department

Component Group	Accessible	Inaccessible	Leaks	Percentage
Stuffing Box	0	0	0	0
Threaded Component	2	0	0	0
Valve	1	0	0	0
Flange	0	0	0	0
Compressor	0	0	0	0
Pump	0	0	0	0
Atmospheric PRD	0	0	0	0
Other	0	0	0	0

No Reportable Leaks for this Quarter
Inspected on 09/11/2019



Ventura County APCD
Rule 74.10 Component Leak Report

Q4/2019

Company Crimson Pipeline, LLC
Facility Ventura Harbor Pump Station
1200 Spinnaker Dr., Ventura, CA 93003

District ID 00082
Contact EH&S Department

Component Group	Accessible	Inaccessible	Leaks	Percentage
Stuffing Box	0	0	0	0
Threaded Component	2	0	0	0
Valve	1	0	0	0
Flange	0	0	0	0
Compressor	0	0	0	0
Pump	0	0	0	0
Atmospheric PRD	0	0	0	0
Other	0	0	0	0

**No Reportable Leaks for this Quarter
Inspected on 12/18/2019**

Attachment 74.9N3

**Quarterly Emissions Screenings / Biennial Source
Test**



SUMMARY OF SOURCE TEST RESULTS

Crimson Pipeline

Harbor

CAT ICE

1/10/2019

CONSTITUENTS	MEASURED VALUES			AVERAGE	ALLOWABLE
	Run #1	Run #2	Run #3		
Oxides of Nitrogen					
ppmv	18.6	19.8	21.2	19.8	-
ppmv @ 15% O2	5.24	5.58	5.97	5.60	9
lb/hr	0.049	0.052	0.055	0.052	-
lb/MMBtu	0.019	0.021	0.022	0.021	-
gm/BHP-hr	0.053	0.057	0.061	0.057	-
Carbon Monoxide (Actual Observed)					
ppmv	191.4	133.4	113.2	146.0	-
ppmv @ 15% O2	54.01	37.65	31.97	41.21	1000
lb/hr	0.30	0.21	0.18	0.23	-
lb/MMBtu	0.12	0.084	0.072	0.092	-
gm/BHP-hr	0.33	0.23	0.20	0.25	-
Carbon Monoxide (10% Full Scale)					
ppmv	< 500	< 500	< 500	< 500	-
ppmv @ 15% O2	< 141	< 141	< 141	< 141	1000
lb/hr	< 0.80	< 0.80	< 0.80	< 0.80	-
lb/MMBtu	< 0.32	< 0.32	< 0.32	< 0.32	-
gm/BHP-hr	< 0.87	< 0.87	< 0.87	< 0.87	-
Total Non-Methane/Ethane Hydrocarbons, as CH4					
ppmv, dry	< 2.5	< 2.5	< 2.5	< 2.5	-
ppmv @ 15% O2, dry	-	-	-	< 0.9	100
lb/hr	< 0.0028	< 0.0028	< 0.0028	< 0.0028	-
Oxygen, %	0.0	0.0	0.0	0.0	-
Stack Flowrate, dscfm	366	366	366	366	-
Moisture, %	17.9	17.9	17.9	17.9	-
Fuel Usage, cfm	40.0	40.0	40.0	40.0	-

SUMMARY OF SOURCE TEST RESULTS

**Crimson Pipeline
Harbor
Enterprise ICE
1/10/2019**

CONSTITUENTS	MEASURED VALUES			AVERAGE	Allowable
	Run #1	Run #2	Run #3		
Oxides of Nitrogen					
ppmv	24.0	24.3	23.8	24.0	-
ppmv @ 15% O ₂	6.8	6.9	6.7	6.8	25
lb/hr	0.063	0.064	0.062	0.063	-
lb/MMBtu	0.025	0.025	0.025	0.025	-
gm/BHP-hr	0.072	0.072	0.071	0.07	-
Carbon Monoxide					
ppmv	4857	5228	5314	5133	-
ppmv @ 15% O ₂	1374	1478	1500	1451	4500
lb/hr	7.75	8.34	8.47	8.19	-
lb/MMBtu	3.08	3.31	3.36	3.25	-
gm/BHP-hr	8.80	9.47	9.62	9.30	-
Total Non-Methane/Ethane Hydrocarbons, as CH₄					
ppmv, dry	-	-	-	4.4	-
ppmv @ 15% O ₂ , dry	-	-	-	1.2	250
lb/hr	0.0048	0.0046	0.0027	0.0040	-
Oxygen, %	0.0	0.0	0.0	0.0	-
Stack Flowrate, dscfm	366	366	366	366	-
Moisture, %	17.9	17.9	17.9	17.9	-
Fuel Usage, cfm	40.0	40.0	40.0	40.0	-



SUMMARY OF SOURCE TEST RESULTS
Quarterly Emission Testing
Crimson Pipeline
Ventura Harbor Pump Station
G-3

6/7/2019

		<i>Allowable</i>
Oxides of Nitrogen (NO_x)		
ppmv	39.92	-
ppmv @ 15% O ₂	11.35	25
Carbon Monoxide (CO)		
ppmv	13746	-
ppmv @ 15% O ₂	3907	4500
Oxygen (O₂),	percent	
	0.14	-

Note: Reported values represent a 15 minute average.



July 23, 2019

Ed Swede
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Via E-mail
ed@vcapcd.org

**Subject: 2019 Second Quarter Emission Testing Exemption
415 HP Caterpillar NG Rich Burn Engine
Ventura Harbor Station (Facility ID 00082)**

Dear Ed:

For the second quarter of 2019, the following equipment was exempt from Rule 74.9B.5 quarterly emission testing requirements:

- 415 HP Caterpillar NG Rich Burn Engine (S/N 72B01367) at Ventura Harbor Station (ID 00082)

Per Rule 74.9B.5(b): *"the engine operated less than 32 hours in each of the three months of the applicable quarter, as measured by a non-resettable elapsed operating hour meter"*.

The operating hours of the Caterpillar engine during the second quarter of 2019 are as follows:

MONTH	HOURS
April	0
May	0
June	0

The remaining equipment was tested on June 7th, 2019:

- 465 HP Enterprise GSG-6 NG Rich Burn Engine (S/N 54050) at Ventura Harbor Station (ID 00082)

The above-mentioned quarterly emission testing report is included with this letter. Should you have any questions, please do not hesitate to contact Crimson Environmental at (562) 285-4040.

Respectfully,

Valerie Muller

(e-signature)

Valerie Muller
Environmental Specialist

SUMMARY OF SOURCE TEST RESULTS
Quarterly Emission Testing
Crimson Pipeline
Ventura Harbor Pump Station
Enterprise Engine #G-3 (S/N 54050)

9/17/2019

		<i>Allowable</i>
Oxides of Nitrogen (NOx)		
ppmv	47.6	-
ppmv @ 15% O2	13.6	25
Carbon Monoxide (CO)		
ppmv	9486	-
ppmv @ 15% O2	2713	4500
Oxygen (O2), percent	0.27	-

Note: Reported values represent a 15 minute average.



October 10, 2019

Ed Swede
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Via E-mail
ed@vcapcd.org

**Subject: 2019 Third Quarter Emission Testing Exemption
415 HP Caterpillar NG Rich Burn Engine
Ventura Harbor Station (Facility ID 00082)**

Dear Ed:

For the third quarter of 2019, the following equipment was exempt from Rule 74.9B.5 quarterly emission testing requirements:

- 415 HP Caterpillar NG Rich Burn Engine (S/N 72B01367) at Ventura Harbor Station (ID 00082)

Per Rule 74.9B.5(b): *"the engine operated less than 32 hours in each of the three months of the applicable quarter, as measured by a non-resettable elapsed operating hour meter"*.

The operating hours of the Caterpillar engine during the third quarter of 2019 are as follows:

MONTH	HOURS
July	0
August	0
September	0

The remaining equipment was tested on September 17th 2019:

- 465 HP Enterprise GSG-6 NG Rich Burn Engine (S/N 54050) at Ventura Harbor Station (ID 00082)

The above-mentioned quarterly emission testing report is included with this letter. Should you have any questions, please do not hesitate to contact Crimson Environmental at (562) 285-4040.

Respectfully,

Valerie Muller

(e-signature)

Valerie Muller
Environmental Specialist



SUMMARY OF SOURCE TEST RESULTS
Quarterly Emission Testing
Crimson Pipeline
Harbor Pump Station
G-3

10/22/2019

			<i>Allowable</i>
Oxides of Nitrogen (NOx)			
	ppmv	28.4	-
	ppmv @ 15% O2	8.0	25
Carbon Monoxide (CO)			
	ppmv	10740	-
	ppmv @ 15% O2	3034	4500
Oxygen (O2),	percent	0.0	-
Opacity, %		0.0	10%

Note: Reported values represent a 15 minute average.

SUMMARY OF SOURCE TEST RESULTS
Quarterly Emission Testing
Crimson Pipeline
Ventura Harbor Pump Station
G-1

12/12/2019

			<i>Allowable</i>
Oxides of Nitrogen			
	ppmv	19.2	-
	ppmv @ 15% O2	5.4	9
Carbon Monoxide (Actual)			
	ppmv	96.0	-
	ppmv @ 15% O2	27.1	1000
Carbon Monoxide (10% FS)			
	ppmv	< 100	-
	ppmv @ 15% O2	< 28.3	1000
Oxygen (O2),	percent	0.0	-

Note: Reported values represent a 15 minute average.

Attachment P00386PC1

Monthly Throughput and Facility Fuel Consumption



HARBOR STATION FUEL USE & SEALS IN OPERATION 2019

MONTH	FUEL (CUBIC FEET)		YEAR %	FUEL USE (CUBIC FEET)		YEAR %	BBL'S. TANK THROUGHPUT	HOURS		YEAR %	HOURS G3	YEAR %	HOURS TOTAL	SOLVENT (GALLONS)		**PAINT (GALLONS)	SEALS IN OP		YEAR %	BBL'S. TANK THROUGHPUT	1000 GAL THROUGHPUT YEAR %	
	G1	G2		TOTAL	G1			G2	G1					G3	TOTAL		SEALS IN OP	THROUGHPUT YEAR %			THROUGHPUT YEAR %	
JAN	6,512	503,588	9.12%	510,100	162,371	3	232	235	8.28%	0	0	235	0	0	0	8.38%	162,371	8.09%	6,819.6	8.09%	6,819.6	
FEB	0	467,200	8.46%	467,200	140,953	0	214	214	7.63%	0	0	214	0	0	0	7.63%	140,953	7.02%	5,920.0	7.02%	5,920.0	
MAR	0	543,800	9.85%	543,800	164,298	0	245	245	8.74%	0	0	245	0	0	0	8.74%	164,298	8.19%	6,900.5	8.19%	6,900.5	
APR	0	417,400	7.56%	417,400	135,861	0	189	189	6.74%	0	0	189	0	0	0	6.74%	135,861	6.77%	5,706.2	6.77%	5,706.2	
MAY	0	521,800	9.45%	521,800	173,883	0	236	236	8.42%	0	0	236	0	0	0	8.42%	173,883	8.66%	7,303.1	8.66%	7,303.1	
JUN	0	454,300	8.23%	454,300	154,803	0	211	211	7.53%	0	0	211	0	0	0	7.53%	154,803	7.71%	6,501.7	7.71%	6,501.7	
JUL	0	541,300	9.81%	541,300	184,509	0	256	256	9.13%	0	0	256	0	0	0	9.13%	184,509	9.19%	7,749.4	9.19%	7,749.4	
AUG	0	577,500	10.46%	577,500	190,403	0	266	266	9.49%	0	0	266	0	0	0	9.49%	190,403	9.49%	7,996.9	9.49%	7,996.9	
SEP	0	556,900	10.09%	556,900	181,152	0	255	255	9.10%	0	0	255	0	0	0	9.10%	181,152	9.03%	7,608.4	9.03%	7,608.4	
OCT	76,184	484,616	8.78%	560,800	191,278	36	229	265	8.17%	0	0	265	0	0	0	9.45%	191,278	9.53%	8,033.7	9.53%	8,033.7	
NOV	296,922	132,178	2.39%	429,100	180,848	155	69	224	2.46%	0	0	224	0	0	0	7.99%	180,848	9.01%	7,595.6	9.01%	7,595.6	
DEC	166,558	319,042	5.78%	485,600	146,531	71	136	207	4.85%	0	0	207	0	0	0	7.38%	146,531	7.30%	6,154.3	7.30%	6,154.3	
TOTAL	546,176	5,519,624	100.00%	6,065,800	2,006,890	265	2,538	2,803	90.55%	0	0	2,803	0	0	0	100.00%	2,006,890	100.00%	84,289.4	100.00%	84,289.4	

*ALSO REFER TO FUEL USE ROLLING TWELVE MONTH TABLE ATTACHED

Attachment Number 50

**Opacity Observation/Fugitive Emission Inspection
Logs**



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
BOOSTER SEAL	N	N	N	N	N	N	N
MIXER SEAL	N	N	N	N	N	N	N
PIG LAUNCHER	N	N	N	N	N	N	N
1/21/19 INITIAL:	DM	SP	SP	SP	SP	CH	CH
DATE:	1-21-	1-22	1-23	1-24	1-25	1-26	1-27
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	1-27	8:00	CH		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
BOOSTER SEAL	N	N	N	N	N	N	N
MIXER SEAL	N	N	N	N	N	N	N
PIG LAUNCHER	N	N	N	N	N	N	N
INITIAL:	SP	SP	SP	CH	CH	SP	SP
2-4-19 DATE:	2-4	2-5	2-6	2-7	2-8	2-9	2-10
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	2/6	5:00	SP		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
BOOSTER SEAL	N	N	N	N	N	N	N
MIXER SEAL	N	N	N	N	N	N	N
PIG LAUNCHER	N	N	N	N	N	N	N
INITIAL:	SP	SP	SP	SP	SP	CH	CH
3-18-19 DATE:	3-18	3-19	3-20	3-21	3-22	3-23	3-24
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	3-14	5:45	SP		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
BOOSTER SEAL	N	N	N	N	N	N	N
MIXER SEAL	N	N	N	N	N	N	N
PIG LAUNCHER	N	N	N	N	N	N	N
INITIAL:	SP	SP	SP	SP	SP	JD	JD
4-22-19 DATE:	4-22	4-23	4-24	4-25	4-26	4/27	4/28
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	4-25	5:30	SP		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL		N	N	N	N	N	N
G-3 PUMP SEAL		N	N	N	N	N	N
STATION VALVES		N	N	N	N	N	N
TANK VALVES		N	N	N	N	N	N
SUMP		N	N	N	N	N	N
BOOSTER SEAL		N	N	N	N	N	N
MIXER SEAL		N	N	N	N	N	N
PIG LAUNCHER		N	N	N	N	N	N
INITIAL:		SP	SP	SP	SP	N	N
5-20-19 DATE:		5-21	5-22	5-23	5-24	5-25	5-26
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	5-23	11:00am	SP		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #0082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N		N
G-3 PUMP SEAL	N	N	N	N	N		N
STATION VALVES	N	N	N	N	N		N
TANK VALVES	N	N	N	N	N		N
SUMP	N	N	N	N	N		N
BOOSTER SEAL	N	N	N	N	N		N
MIXER SEAL	N	N	N	N	N		N
PIG LAUNCHER	N	N	N	N	N		N
INITIAL:	SP	CH	SP	CH	CH		CH
DATE:	6/17	6/18	6/19	6/20	6/21		6-23
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	6/17	8:30	SP		
C. COMMENTS							



WEEKLY FUGITIVE EMISSION INSPECTION LOG

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
BOOSTER SEAL	N	N	N	N	N	N	N
WATER SEAL	N	N	N	N	N	N	N
PIC LAUNCHER	N	N	N	N	N	N	N
INITIAL:	SP	SP	SP	SP	SP	SP	SP
12/9/19 DATE:	12/9	12/10	12/11	12/12	12/13	12/14	12/15
B. CAPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Engine 3-	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Engine 4-	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	12/11	08:00	SP		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
ROOSTER SEAL	N	N	N	N	N	N	N
WATER SEAL	N	N	N	N	N	N	N
PROP LAUNCHER	N	N	N	N	N	N	N
INITIAL:	ES	SP	SP	ES	SP	CS	CS
10/28/19 DATE:	10/28	10/29	10/30	10/31	11/1	11-2	11-3
CAPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
10/28/19	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	10/28	12:30	ES		
	<input type="checkbox"/> Y	<input type="checkbox"/> N					
COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
ROOSTER SEAL	N	N	N	N	N	N	N
FLOWER SEAL	N	N	N	N	N	N	N
PIP LAUNCHER	N	N	N	N	N	N	N
INITIAL:	SP	SP	SP	SP	CH	RP	RL
DATE:	10/14	10/15	10/16	10/17	10/18	10/19	10/20
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Generator G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Generator G-2	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	10/14	1:00	SP		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
BOOSTER SEAL	N	N	N	N	N	N	N
MIXER SEAL	N	N	N	N	N	N	N
PIG LAUNCHER	N	N	N	N	N	N	N
INITIAL:	JP	JP	JP	JP	JP	CH	CH
9/23/19 DATE:	9/23	9/24	9/25	9/26	9/27	9/28	9/27
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	9/24/19	0600	JP		
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	9/24/19	0600	JP		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
BOOSTER SEAL	N	N	N	N	N	N	N
MIXER SEAL	N	N	N	N	N	N	N
PIG LAUNCHER	N	N	N	N	N	N	N
INITIAL:	JP	JP	CH	CH	CH	CH	CH
8/5/19 DATE:	8/5	8/6	8/7	8/8	8/9	8/10	8/11
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	8/6	1:00 PM	JP		
C. COMMENTS							



**WEEKLY FUGITIVE EMISSION
INSPECTION LOG**

LOCATION: Ventura Harbor #00082

A. COMPONENT DESCRIPTION							
If any component is leaking, minimize leak, notify Supervisor							
DAY	MON	TUES	WED	THUR	FRI	SAT	SUN
COMPONENT	LEAKING (Y/N)						
G-1 PUMP SEAL	N	N	N	N	N	N	N
G-3 PUMP SEAL	N	N	N	N	N	N	N
STATION VALVES	N	N	N	N	N	N	N
TANK VALVES	N	N	N	N	N	N	N
SUMP	N	N	N	N	N	N	N
BOOSTER SEAL	N	N	N	N	N	N	N
MIXER SEAL	N	N	N	N	N	N	N
PIG LAUNCHER	N	N	N	N	N	N	N
INITIAL:	SP	SP	Jo	SP	CH		
7.15.19 DATE:	7.15	7.16	7/17	7/18	7/19	7/20	7/21
B. OPACITY CHECK							
ENGINE	VISUAL EMISSIONS		DATE	TIME	INITIAL		
Caterpillar G-1	<input type="checkbox"/> Y	<input type="checkbox"/> N					
Enterprise G-3	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	7.18	8:00	SP		
C. COMMENTS							

40 CFR 63ZZZN7

Maintenance Records and Hours of Operations



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER							
START DATE:	1/21/19			FINISH DATE:	1/27/19		
ENGINE HOUR:	26015			ENGINE HOUR:	26057		
Within 200 hrs or 1 week of next required oil & filter change? <input type="checkbox"/> Yes <input type="checkbox"/> No							
If yes, notify Maintenance Lead							
B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)							454.7
SUCTION PRESSURE (psi)	D	D	D	D	D	D	106.7
ENGINE RPM'S							351
JACKET WATER PRESURE (psi)	0	0	0	0	0	0	25
JACKET WATER TEMP (°F)							175.9
HEAT EXCHANGER TEMP (°F)	W	W	W	W	W	V	140
INBOARD BEARING TEMP (°F)	A	N	N	W	N		117.7
OUTBOARD BEARING TEMP (°F)						N	143.3
FRONT AIR/FUEL PRESSURE (psi)							137.0
REAR AIR/FUEL PRESSURE (psi)							182.0
LUBE OIL LEVEL							1/2
OIL ADDED TO ENGINE (gal)							0
LUBE OIL ENG PRESS (psi)							60
GEAR BOX OIL PRESSURE (psi)							10
LUBE OIL FILTER							65
CONVERTER TEMP TC-1 (°F)							78
CONVERTER TEMP TC-2 (°F)							71.3
CYLINDER #1 (°F)							949
CYLINDER #2 (°F)							908
CYLINDER #3 (°F)							936
CYLINDER #4 (°F)							474
CYLINDER #5 (°F)							962
CYLINDER #6 (°F)							989
AIR PRESSURE (psi)							200
WATER MAKE-UP TANK LEVEL							F.11
GAS METER READING							-
INITIAL:	DM	SP	SP	SP	SP	CH	CH
DATE:	1-21	1-22	1-23	1-24	1-25	1-26	1-27



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER							
START DATE:	2.4.19			FINISH DATE:	2.10.19		
ENGINE HOUR:	26101			ENGINE HOUR:	26174		
Within 200 hrs or 1 week of next required oil & filter change? <input type="checkbox"/> Yes <input type="checkbox"/> No **If yes, notify Maintenance Lead**							
B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)			439		439.7		
SUCTION PRESSURE (psi)			104		107.3		
ENGINE RPM'S			350		351		
JACKET WATER PRESURE (psi)			25	D	25		
JACKET WATER TEMP (°F)	0	0	173		170.2	0	
HEAT EXCHANGER TEMP (°F)	0	0	125	0	130	0	
INBOARD BEARING TEMP (°F)			106		111.3		0
OUTBOARD BEARING TEMP (°F)	0	0	137	W	130.1	W	0
FRONT AIR/FUEL PRESSURE (psi)		W	1097	N	1166	N	0
REAR AIR/FUEL PRESSURE (psi)	W		1197		1225		0
LUBE OIL LEVEL			1/2		1/2		
OIL ADDED TO ENGINE (gal)	N	N	20991		0		W
LUBE OIL ENG PRESS (psi)			59		60		W
GEAR BOX OIL PRESSURE (psi)			8		10		N
LUBE OIL FILTER			63		65		N
CONVERTER TEMP TC-1 (°F)			799		786		
CONVERTER TEMP TC-2 (°F)			711		705		
CYLINDER #1 (°F)			936		930		
CYLINDER #2 (°F)			925		894		
CYLINDER #3 (°F)			932		918		
CYLINDER #4 (°F)			972		983		
CYLINDER #5 (°F)			969		964		
CYLINDER #6 (°F)			994		992		
AIR PRESSURE (psi)			200		215		
WATER MAKE-UP TANK LEVEL			Full		Full		
GAS METER READING			-		-		
INITIAL:	SP	SP	SP	CK		SP	SP
DATE:	2.4	2.5	2.6	2.7		2.9	2.10



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER

START DATE: 3-18-19

FINISH DATE: 7-24-19

ENGINE HOUR: 26409

ENGINE HOUR: 26482

Within 200 hrs or 1 week of next required oil & filter change? Yes No

If yes, notify Maintenance Lead

B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)		454		451	443	D	D
SUCTION PRESSURE (psi)		107		106	103	O	O
ENGINE RPM'S	O	354	9	353	351	W	W
JACKET WATER PRESURE (psi)	O	27	9	27	27	N	N
JACKET WATER TEMP (°F)		177	O	177	127		
HEAT EXCHANGER TEMP (°F)	W	128		135	132		
INBOARD BEARING TEMP (°F)		113	W	112	112		
OUTBOARD BEARING TEMP (°F)	N	143		142	142		
FRONT AIR/FUEL PRESSURE (psi)		.000	N	.000	.000		
REAR AIR/FUEL PRESSURE (psi)		.201		.198	.212		
LUBE OIL LEVEL		7/8		7/8	7/8		
OIL ADDED TO ENGINE (gal)		0		20	0		
LUBE OIL ENG PRESS (psi)		61		61	61		
GEAR BOX OIL PRESSURE (psi)		12		12	12		
LUBE OIL FILTER		65		65	65		
CONVERTER TEMP TC-1 (°F)		766		776	775		
CONVERTER TEMP TC-2 (°F)		721		722	719		
CYLINDER #1 (°F)		945		945	946		
CYLINDER #2 (°F)		960		955	947		
CYLINDER #3 (°F)		986		976	978		
CYLINDER #4 (°F)		988		989	964		
CYLINDER #5 (°F)		984		983	987		
CYLINDER #6 (°F)		1011		1005	1003		
AIR PRESSURE (psi)		210		210	210		
WATER MAKE-UP TANK LEVEL		Full		Full	Full		
GAS METER READING		-		-	-		
INITIAL:	SP	SP	SP	SP	SP	CH	CH
DATE:	3-18	3-19	3-20	3-21	3-22	3-23	3-24



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER							
START DATE:	<u>4-22-17</u>			FINISH DATE:	<u>4-28-17</u>		
ENGINE HOUR:	<u>26689</u>			ENGINE HOUR:	<u>26734</u>		
Within 200 hrs or 1 week of next required oil & filter change? <input type="checkbox"/> Yes <input type="checkbox"/> No							
If yes, notify Maintenance Lead							
B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)				456			
SUCTION PRESSURE (psi)				107			
ENGINE RPM'S				353			
JACKET WATER PRESURE (psi)	0	0	0	25	0		
JACKET WATER TEMP (°F)				179			
HEAT EXCHANGER TEMP (°F)	0	0	0	140	0		
INBOARD BEARING TEMP (°F)				115			
OUTBOARD BEARING TEMP (°F)	W	W	W	143			
FRONT AIR/FUEL PRESSURE (psi)				105	W		
REAR AIR/FUEL PRESSURE (psi)	W	W	W	1000	W		
LUBE OIL LEVEL				3/4			
OIL ADDED TO ENGINE (gal)				20g.1			
LUBE OIL ENG PRESS (psi)				60			
GEAR BOX OIL PRESSURE (psi)				10			
LUBE OIL FILTER				15			
CONVERTER TEMP TC-1 (°F)				737		D	D
CONVERTER TEMP TC-2 (°F)				715		0	0
CYLINDER #1 (°F)				1001		W	W
CYLINDER #2 (°F)				947		W	W
CYLINDER #3 (°F)				948			
CYLINDER #4 (°F)				979			
CYLINDER #5 (°F)				1000			
CYLINDER #6 (°F)				1005			
AIR PRESSURE (psi)				210			
WATER MAKE-UP TANK LEVEL				Full			
GAS METER READING				-			
INITIAL:	SP	SP	SP	SP	SP	SP	JO
DATE:	4-22	4-23	4-24	4-25	4-26	4/27	4/28



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER							
START DATE:	<u>5/20/19</u>			FINISH DATE:	<u>5-26-19</u>		
ENGINE HOUR:	<u>26868</u>			ENGINE HOUR:	<u>26955</u>		
Within 200 hrs or 1 week of next required oil & filter change? <input type="checkbox"/> Yes <input type="checkbox"/> No							
If yes, notify Maintenance Lead							
B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)				444	430	436	DOWN
SUCTION PRESSURE (psi)				105	102	104	
ENGINE RPM'S				351	350	350	
JACKET WATER PRESURE (psi)				25	25	25	
JACKET WATER TEMP (°F)		9	8	128	181	180	
HEAT EXCHANGER TEMP (°F)		0	0	126	130	130	
INBOARD BEARING TEMP (°F)				115	112	112	
OUTBOARD BEARING TEMP (°F)		W	L	127	144	140	
FRONT AIR/FUEL PRESSURE (psi)				.011	.011	0.011	
REAR AIR/FUEL PRESSURE (psi)		W	W	.200	.250	.250	
LUBE OIL LEVEL				3/8	3/8	3/8	
OIL ADDED TO ENGINE (gal)				25.9	6	6	
LUBE OIL ENG PRESS (psi)				59	59	59	
GEAR BOX OIL PRESSURE (psi)				10	12	12	
LUBE OIL FILTER				65	65	65	
CONVERTER TEMP TC-1 (°F)				740	749	750	
CONVERTER TEMP TC-2 (°F)				715	720	722	
CYLINDER #1 (°F)				945	940	942	
CYLINDER #2 (°F)				963	951	955	
CYLINDER #3 (°F)				957	935	932	
CYLINDER #4 (°F)				994	990	992	
CYLINDER #5 (°F)				990	745	950	
CYLINDER #6 (°F)				1007	1025	1010	
AIR PRESSURE (psi)				200	200	200	
WATER MAKE-UP TANK LEVEL				Full	Full	Full	
GAS METER READING				-	-	-	
INITIAL:		SP	SP	SP	SP	SP	
DATE:		5-21	5-22	5-23	5-24	5-25	5-26



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER							
START DATE: <u>6/17/2019</u>				FINISH DATE: <u>6-23</u>			
ENGINE HOUR: <u>27046</u>				ENGINE HOUR: <u>27143</u>			
Within 200 hrs or 1 week of next required oil & filter change? <input type="checkbox"/> Yes <input type="checkbox"/> No							
If yes, notify Maintenance Lead							
B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)	432	432.7	436				436
SUCTION PRESSURE (psi)	103	102.4	103				104
ENGINE RPM'S	349	350	351				350
JACKET WATER PRESURE (psi)	25	25	25				25
JACKET WATER TEMP (°F)	165	173.8	175				175
HEAT EXCHANGER TEMP (°F)	125	140	138				134
INBOARD BEARING TEMP (°F)	115	120.4	120				120.3
OUTBOARD BEARING TEMP (°F)	140	146.4	145				146.8
FRONT AIR/FUEL PRESSURE (psi)	.004	.000	.004				.004
REAR AIR/FUEL PRESSURE (psi)	.640	.650	.650				.650
LUBE OIL LEVEL	1/2	1/2	1/2				1/2
OIL ADDED TO ENGINE (gal)	0	21	0		D		10
LUBE OIL ENG PRESS (psi)	59	59	59		0		59
GEAR BOX OIL PRESSURE (psi)	8	7	9		W		9
LUBE OIL FILTER	65	65	65		N		65
CONVERTER TEMP TC-1 (°F)	723	725	722				725
CONVERTER TEMP TC-2 (°F)	716	718	714				716
CYLINDER #1 (°F)	940	942	950				948
CYLINDER #2 (°F)	952	954	960				956
CYLINDER #3 (°F)	940	939	940				938
CYLINDER #4 (°F)	985	986	989				988
CYLINDER #5 (°F)	1000	1004	1002				1001
CYLINDER #6 (°F)	1007	1013	1007				1009
AIR PRESSURE (psi)	200	205	215				209
WATER MAKE-UP TANK LEVEL	Full	Full	Full				Full
GAS METER READING	-	-	-				-
INITIAL:	SP	CH	SP		CH		CH
DATE:	6/17	6/18	6/19		6-21		6-23



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER

START DATE: 12/9/19

FINISH DATE: 12/15/19

ENGINE HOUR: 28312

ENGINE HOUR: 28365

Within 200 hrs or 1 week of next required oil & filter change? Yes No

If yes, notify Maintenance Lead

B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)			453		448	Down	Down
SUCTION PRESSURE (psi)			100.7		98		
ENGINE RPM'S			361		360		
JACKET WATER PRESURE (psi)			25		25		
JACKET WATER TEMP (°F)			170		173		
HEAT EXCHANGER TEMP (°F)			140		135		
INBOARD BEARING TEMP (°F)			106		107		
OUTBOARD BEARING TEMP (°F)			141		144		
FRONT AIR/FUEL PRESSURE (psi)	D	D	.051	D	.008		
REAR AIR/FUEL PRESSURE (psi)			.401		.218		
LUBE OIL LEVEL	0	0	3/6		3/6		
OIL ADDED TO ENGINE (gal)			20 gal	0	0		
LUBE OIL ENG PRESS (psi)			60		60		
GEAR BOX OIL PRESSURE (psi)	W	W	15		12		
LUBE OIL FILTER			65	W	65		
CONVERTER TEMP TC-1 (°F)			765		775		
CONVERTER TEMP TC-2 (°F)	W	W	747	W	747		
CYLINDER #1 (°F)			980		960		
CYLINDER #2 (°F)			975		964		
CYLINDER #3 (°F)			992		940		
CYLINDER #4 (°F)			989		986		
CYLINDER #5 (°F)			1001		1005		
CYLINDER #6 (°F)			1009		1010		
AIR PRESSURE (psi)			210		210		
WATER MAKE-UP TANK LEVEL			Full		Full		
GAS METER READING			-		-		
INITIAL:	JP	SL	SL	SL	SL	RD	RP
DATE:	12/9	12/10	12/11	12/12	12/13	12/14	12/15



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER

START DATE: 10/28/19

FINISH DATE: 11/3/19

ENGINE HOUR: 798

ENGINE HOUR: 815 2015

Within 200 hrs or 1 week of next required oil & filter change? Yes No

If yes, notify Maintenance Lead

B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)	352	377.8	369			387.5	
SUCTION PRESSURE (psi)	110	109.3	110			111.4	
ENGINE RPM'S	930	939	880			868	
JACKET WATER PRESURE (psi)							
JACKET WATER TEMP (°F)	90	120 80	90	D		70	
HEAT EXCHANGER TEMP (°F)	140	72	140	D		75	
INBOARD BEARING TEMP (°F)				O			
OUTBOARD BEARING TEMP (°F)							
FRONT AIR/FUEL PRESSURE (psi)	574	574	573			574	D
REAR AIR/FUEL PRESSURE (psi)	573	574	574	W		585	O
LUBE OIL LEVEL	Full	Full				Full	W
OIL ADDED TO ENGINE (gal)	Ø	Ø	Ø	W		Ø	W
LUBE OIL ENG PRESS (psi)	65		65			80	
GEAR BOX OIL PRESSURE (psi)							
LUBE OIL FILTER							
CONVERTER TEMP TC-1 (°F)	761	292	733			330	
CONVERTER TEMP TC-2 (°F)	711	467	682			506	
CYLINDER #1 (°F)							
CYLINDER #2 (°F)							
CYLINDER #3 (°F)							
CYLINDER #4 (°F)							
CYLINDER #5 (°F)							
CYLINDER #6 (°F)							
AIR PRESSURE (psi)							
WATER MAKE-UP TANK LEVEL	Full	Full	Full			Full	
GAS METER READING	-	-	-			148989	
INITIAL:	JP	CH	TH	SP		CS	CS
DATE:	10/28	10/29	10/30	10/31		11-2	11-3

Just STARTED



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER

START DATE: 10/14/19

FINISH DATE: 10/20/19

ENGINE HOUR: 28073

ENGINE HOUR: 28146

Within 200 hrs or 1 week of next required oil & filter change? Yes No

If yes, notify Maintenance Lead

B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)	463		463			Down	Down
SUCTION PRESSURE (psi)	104		105				
ENGINE RPM'S	361		359				
JACKET WATER PRESURE (psi)	25		25				
JACKET WATER TEMP (°F)	180		184				
HEAT EXCHANGER TEMP (°F)	195		190				
INBOARD BEARING TEMP (°F)	121		117				
OUTBOARD BEARING TEMP (°F)	148		147				
FRONT AIR/FUEL PRESSURE (psi)	.030	0	.031	0			
REAR AIR/FUEL PRESSURE (psi)	.350	0	.607	0			
LUBE OIL LEVEL	3/8	0	3/8	0			
OIL ADDED TO ENGINE (gal)	0	W	209.1		D		
LUBE OIL ENG PRESS (psi)	59	W	59	W	0		
GEAR BOX OIL PRESSURE (psi)	20	W	8	W	W		
LUBE OIL FILTER	65		65		n		
CONVERTER TEMP TC-1 (°F)	715		708				
CONVERTER TEMP TC-2 (°F)	730		728				
CYLINDER #1 (°F)	952		950				
CYLINDER #2 (°F)	964		942				
CYLINDER #3 (°F)	957		962				
CYLINDER #4 (°F)	983		970				
CYLINDER #5 (°F)	1025		1017				
CYLINDER #6 (°F)	1014		1005				
AIR PRESSURE (psi)	210		215				
WATER MAKE-UP TANK LEVEL	Full		Full				
GAS METER READING	-		-				

INITIAL

DATE

20	21	21	21	CH	RP	RP
10/14	10/15	10/16	10/17	10/18	10/19	10/20



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER

START DATE: 9/23/19

FINISH DATE: 9/29/19

ENGINE HOUR: 27879

ENGINE HOUR: 27958

Within 200 hrs or 1 week of next required oil & filter change? Yes No

If yes, notify Maintenance Lead

B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)		465		454			
SUCTION PRESSURE (psi)		106		107			
ENGINE RPM'S		353		354	356		
JACKET WATER PRESURE (psi)		25		25	26		
JACKET WATER TEMP (°F)		185		183	185		
HEAT EXCHANGER TEMP (°F)		140		150	150		
INBOARD BEARING TEMP (°F)		123	0	124	124		
OUTBOARD BEARING TEMP (°F)	D	151		155	154		
FRONT AIR/FUEL PRESSURE (psi)	0	.030	0	.035	.030		
REAR AIR/FUEL PRESSURE (psi)		.345	0	.050	.045		
LUBE OIL LEVEL		3/8	W	3/8	3/8		
OIL ADDED TO ENGINE (gal)	W	30 gal		0	35 gal		
LUBE OIL ENG PRESS (psi)		60	N	60	59		
GEAR BOX OIL PRESSURE (psi)	N	25		25	25		
LUBE OIL FILTER		65		65	65	D	D
CONVERTER TEMP TC-1 (°F)		705		697	688	0	0
CONVERTER TEMP TC-2 (°F)		731		723	720	W	W
CYLINDER #1 (°F)		955		950	955	N	N
CYLINDER #2 (°F)		968		962	965		
CYLINDER #3 (°F)		952		950	958		
CYLINDER #4 (°F)		978		975	982		
CYLINDER #5 (°F)		1016		1018	1012		
CYLINDER #6 (°F)		1006		1005	1009		
AIR PRESSURE (psi)		210		210	210		
WATER MAKE-UP TANK LEVEL		Full		Full	Full		
GAS METER READING		-		-	-		
INITIAL	SP	SP	SP	SP	SP	CH	CH
DATE	9/23	9/24	9/25	9/26	9/27	9/28	9/29



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER

START DATE: 8/5/19

FINISH DATE: 8/11/19

ENGINE HOUR: 27473

ENGINE HOUR: 27516

Within 200 hrs or 1 week of next required oil & filter change? Yes No

If yes, notify Maintenance Lead

B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)		457			445.2		
SUCTION PRESSURE (psi)		104			106.3		
ENGINE RPM'S		355			351		
JACKET WATER PRESURE (psi)		25			25		
JACKET WATER TEMP. (°F)		187			181.2		
HEAT EXCHANGER TEMP (°F)		140			149		
INBOARD BEARING TEMP (°F)		121			118.9		
OUTBOARD BEARING TEMP (°F)	D	149			144.6		
FRONT AIR/FUEL PRESSURE (psi)	O	.027			.049		
REAR AIR/FUEL PRESSURE (psi)	O	.699			.497		
LUBE OIL LEVEL	W	3/8			1/8		
OIL ADDED TO ENGINE (gal)		20 gal			35 gal		
LUBE OIL ENG PRESS (psi)	N	59	D	D	59		
GEAR BOX OIL PRESSURE (psi)		8	0	0	6		
LUBE OIL FILTER		65	W		64	D	D
CONVERTER TEMP TC-1 (°F)		711	n		710	0	0
CONVERTER TEMP TC-2 (°F)		728			717	W	W
CYLINDER #1 (°F)		958			954	n	n
CYLINDER #2 (°F)		959			963		
CYLINDER #3 (°F)		959			947		
CYLINDER #4 (°F)		949			980		
CYLINDER #5 (°F)		1005			1004		
CYLINDER #6 (°F)		1017			1008		
AIR PRESSURE (psi)		200			204		
WATER MAKE-UP TANK LEVEL		Full			Full		
GAS METER READING		-			-		
INITIAL:		JP	CH	CH	CH	CH	CH
DATE:		8/6	8/7	8/8	8/9	8/10	8/11



ENGINE DATA SHEET

LOCATION: V. Harbor #00082

ENGINE: Caterpillar G-1

Enterprise G-3

A. ENGINE TIMER

START DATE: 7-15-19

FINISH DATE: 7-21-19

ENGINE HOUR: 27293

ENGINE HOUR: 27368

Within 200 hrs or 1 week of next required oil & filter change? Yes No

If yes, notify Maintenance Lead

B. INSPECTION	MON	TUES	WED	THUR	FRI	SAT	SUN
DISCHARGE PRESSURE (psi)				425	425		
SUCTION PRESSURE (psi)				109	105.3		
ENGINE RPM'S				337	354	D	D
JACKET WATER PRESURE (psi)				25	25		
JACKET WATER TEMP (°F)				138	180	D	D
HEAT EXCHANGER TEMP (°F)				120	140		
INBOARD BEARING TEMP (°F)				90	121.1	W	W
OUTBOARD BEARING TEMP (°F)	D	D		86	148.1		
FRONT AIR/FUEL PRESSURE (psi)	D	D		.126	.126	N	N
REAR AIR/FUEL PRESSURE (psi)	D	D		.755	.755	N	N
LUBE OIL LEVEL				1/2	1/2		
OIL ADDED TO ENGINE (gal)	W			20 ^{gml}	0		
LUBE OIL ENG PRESS (psi)		W		59	59		
GEAR BOX OIL PRESSURE (psi)	N		D	12	7		
LUBE OIL FILTER		N	0	65	65		
CONVERTER TEMP TC-1 (°F)			W	600	685		
CONVERTER TEMP TC-2 (°F)			N	623	710		
CYLINDER #1 (°F)				932	947		
CYLINDER #2 (°F)				942	953		
CYLINDER #3 (°F)				922	946		
CYLINDER #4 (°F)				970	968		
CYLINDER #5 (°F)				923	1012		
CYLINDER #6 (°F)				993	1010		
AIR PRESSURE (psi)				210	215		
WATER MAKE-UP TANK LEVEL				Full	Full		
GAS METER READING				-	-		
INITIAL:	SP	SP	SP	SP	CLT		
DATE:	7-15	7-16	7-17	7-18	7-19		



ENGINE SERVICE REPORT

LOCATION: Torrey #00385

Ventura Harbor #00082

A. ENGINE INFORMATION	
ENGINE: <input type="checkbox"/> G-1 Enterprise GSG-6	TYPE: Natural Gas
<input type="checkbox"/> G-2 Enterprise GSG-6	ENGINE HOURS: <u>27101</u>
<input checked="" type="checkbox"/> G-3 Enterprise GSG-6	TYPE OF SERVICE: <u>REPAIR</u>
<input type="checkbox"/> G-1 Caterpillar G-379	
B. MAINTENANCE/SERVICE PERFORMED	
<u>- CHANGED HEAD BASKETS NUMBER 1 & 3 CYLINDERS</u>	
<u>- NEW SPARK PLUGS</u>	
<u>- CHANGED OIL</u>	
<u>- AIR FILTER</u>	
<u>- CHANGED BOTH FRONT & BACK O₂ SENSORS</u>	

INSPECTED BY: Joe Oliver

DATE: 6/20/19



ENGINE SERVICE REPORT

LOCATION: Torrey #00385

Ventura Harbor #00082

A. ENGINE INFORMATION

ENGINE: G-1 Enterprise GSG-6

TYPE: Natural Gas

G-2 Enterprise GSG-6

ENGINE HOURS: 28325

G-3 Enterprise GSG-6

TYPE OF SERVICE: REPLACE

G-1 Caterpillar G-379

B. MAINTENANCE/SERVICE PERFORMED

Air STARTER VALVE

INSPECTED BY:

Joe Oliver

DATE:

12/10/19



ENGINE SERVICE REPORT

LOCATION: Torrey #00385

Ventura Harbor #00082

A. ENGINE INFORMATION

ENGINE: G-1 Enterprise GSG-6

TYPE: Natural Gas

G-2 Enterprise GSG-6

ENGINE HOURS: 28146

G-3 Enterprise GSG-6

TYPE OF SERVICE: 10/18/19 - Repair

G-1 Caterpillar G-379

B. MAINTENANCE/SERVICE PERFORMED

CHANGE EXHAUST MANIFOLD, GASKETS AND O₂ SENSORS

INSPECTED BY:

J. Oliver

DATE:

10/18/19