

**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St #1800  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011278-RT-294</b>
Reporting Period:	<b>January 3 through January 9, 2023</b>
Report Date:	<b>January 10, 2023</b>

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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from January 3 through January 9, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on December 14, 2022 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

### Contact Information

The contact information for each of the principal parties is summarized in the tables below:

**Chad Schlichtemeier**

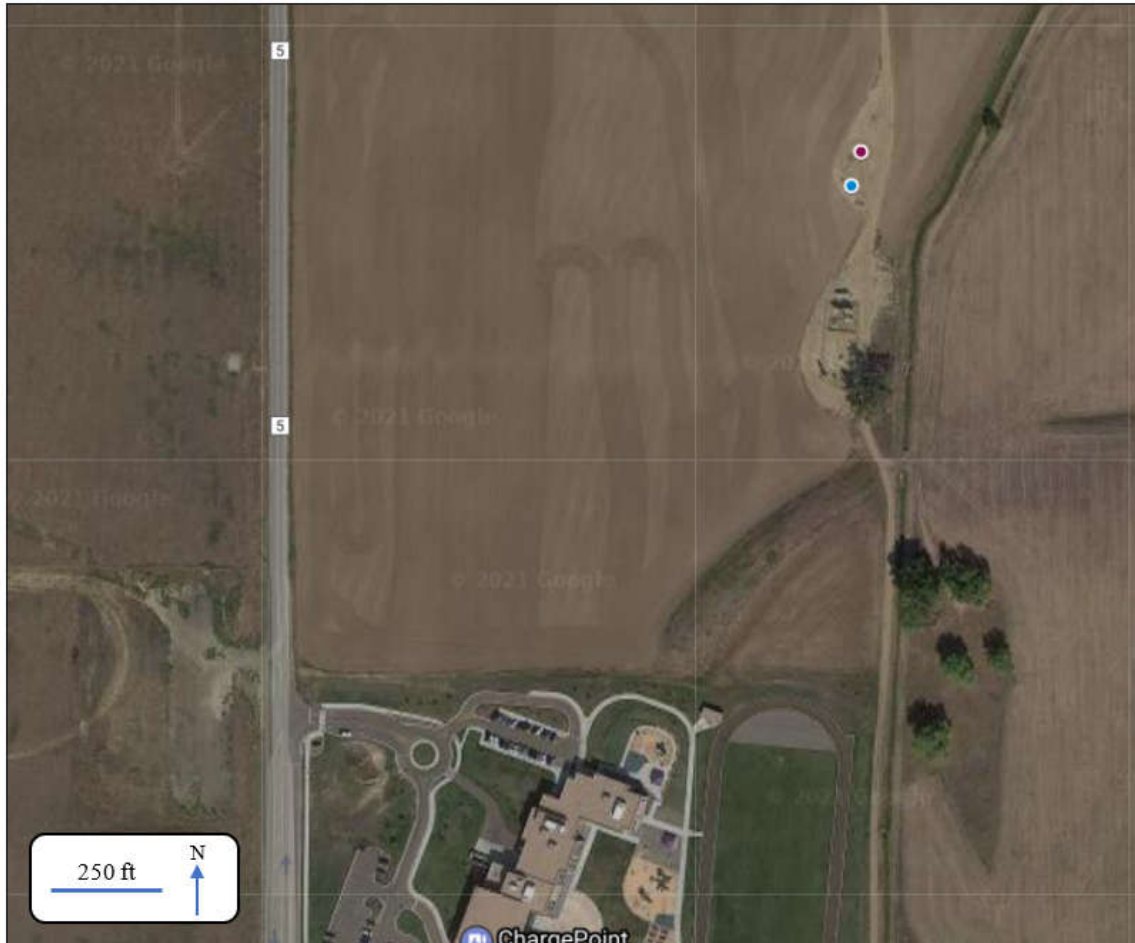
Oxy USA Inc.  
1099 18<sup>th</sup> Street  
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Phone: (720) 929-6867  
E-mail: Chad\_Schlichtemeier@Oxy.com



**James Garrett**

Montrose Air Quality Services, LLC  
990 West 43<sup>rd</sup> Ave  
Denver, CO 80216  
Phone: (303) 670-0530  
E-mail: Jgarrett@Montrose-Env.com

### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



Location Tag	Description
	State Pad Monitoring Wells
	PID Analyzer

GPS coordinates of the locations are listed in the following table.

Location	GPS Coordinates	Monitoring Technology
State Pad Monitoring Wells	40.05433, -105.01451	NA
PID Analyzer	40.05417, -105.01459	PID Analyzer

### Summary of Down Time or Equipment Malfunction

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	100.0%
-----------------------------------	--------

### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

Figure 1 – State 30-16HZ VOC Data

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

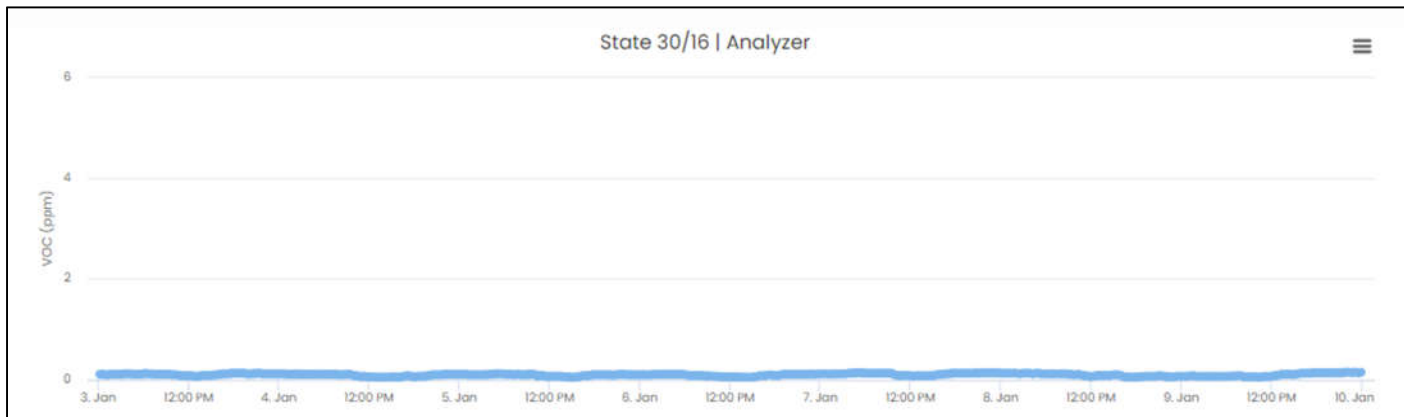
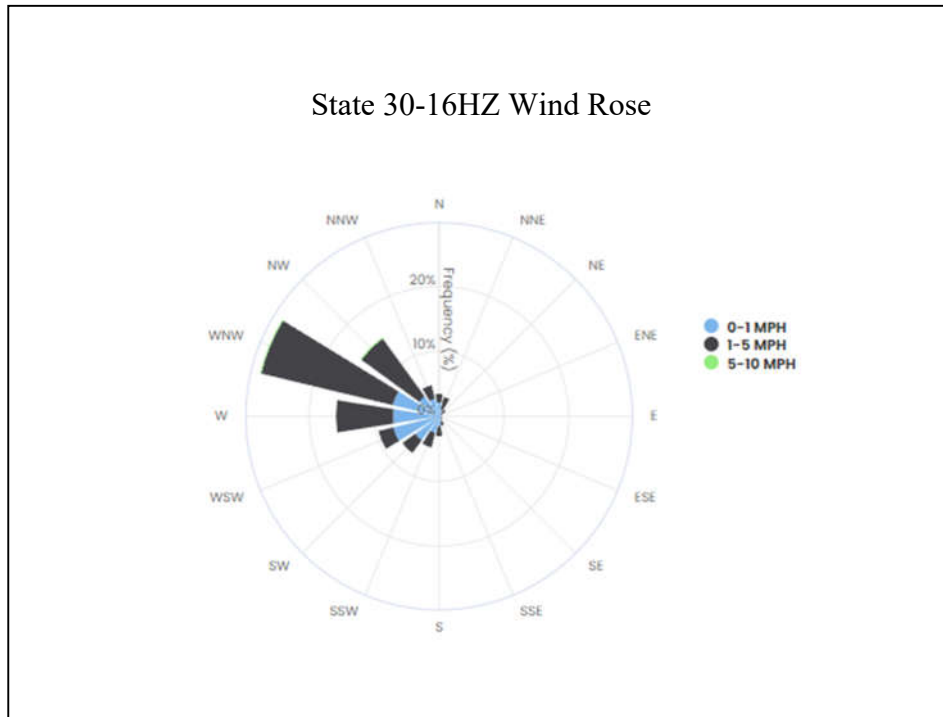


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





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STATE 30-16 PAD  
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Denver, Colorado 80211

Document Number:	<b>085AA-011278-RT-294</b>
Reporting Period:	<b>January 10 through January 16, 2023</b>
Report Date:	<b>January 17, 2023</b>

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## Project Overview

### Summary

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Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on December 14, 2022 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

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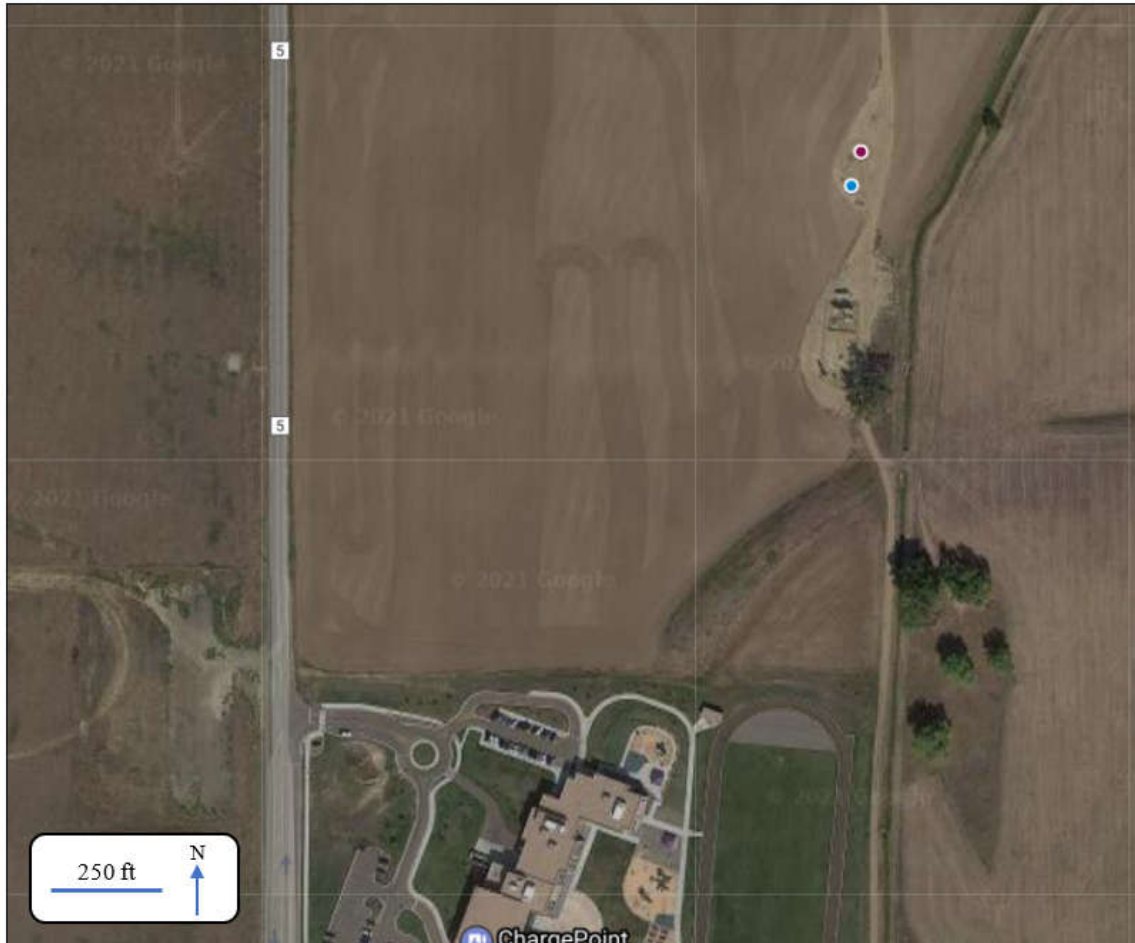
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<p><b>Chad Schlichtemeier</b> Oxy USA Inc. 1099 18<sup>th</sup> Street Denver, CO 80202 Phone: (720) 929-6867 E-mail: Chad_Schlichtemeier@Oxy.com</p>
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<p><b>James Garrett</b> Montrose Air Quality Services, LLC 990 West 43<sup>rd</sup> Ave Denver, CO 80216 Phone: (303) 670-0530 E-mail: Jagarrett@Montrose-Env.com</p>
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### Summary of Down Time or Equipment Malfunction

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	97.0%
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### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

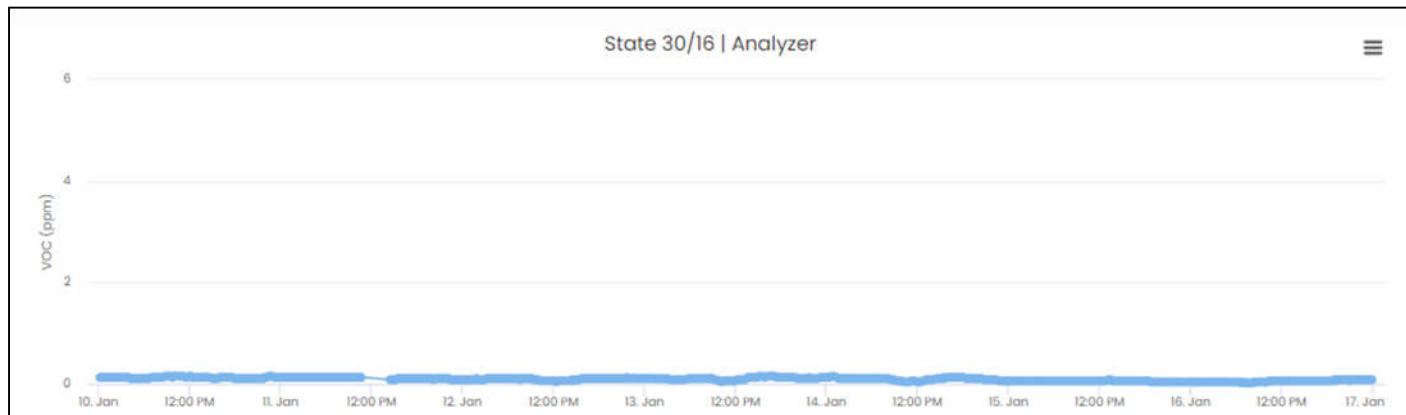
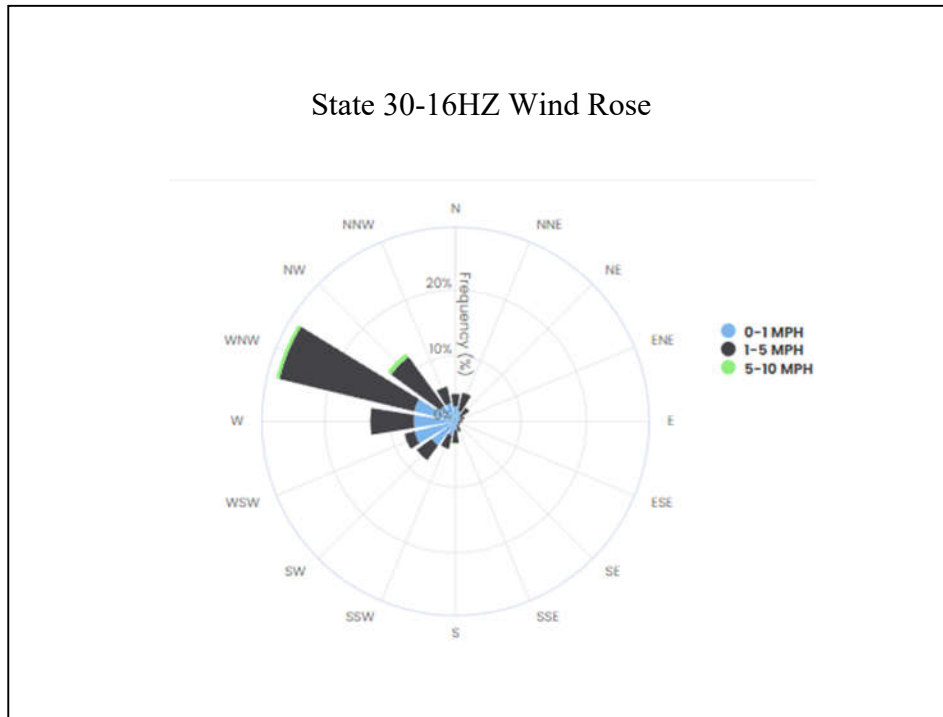


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





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STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

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Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011278-RT-303</b>
Reporting Period:	<b>January 17 through January 23, 2023</b>
Report Date:	<b>January 24, 2023</b>

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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from January 17 through January 23, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on January 11, 2023 in accordance with the QAPP.

### Project Scope

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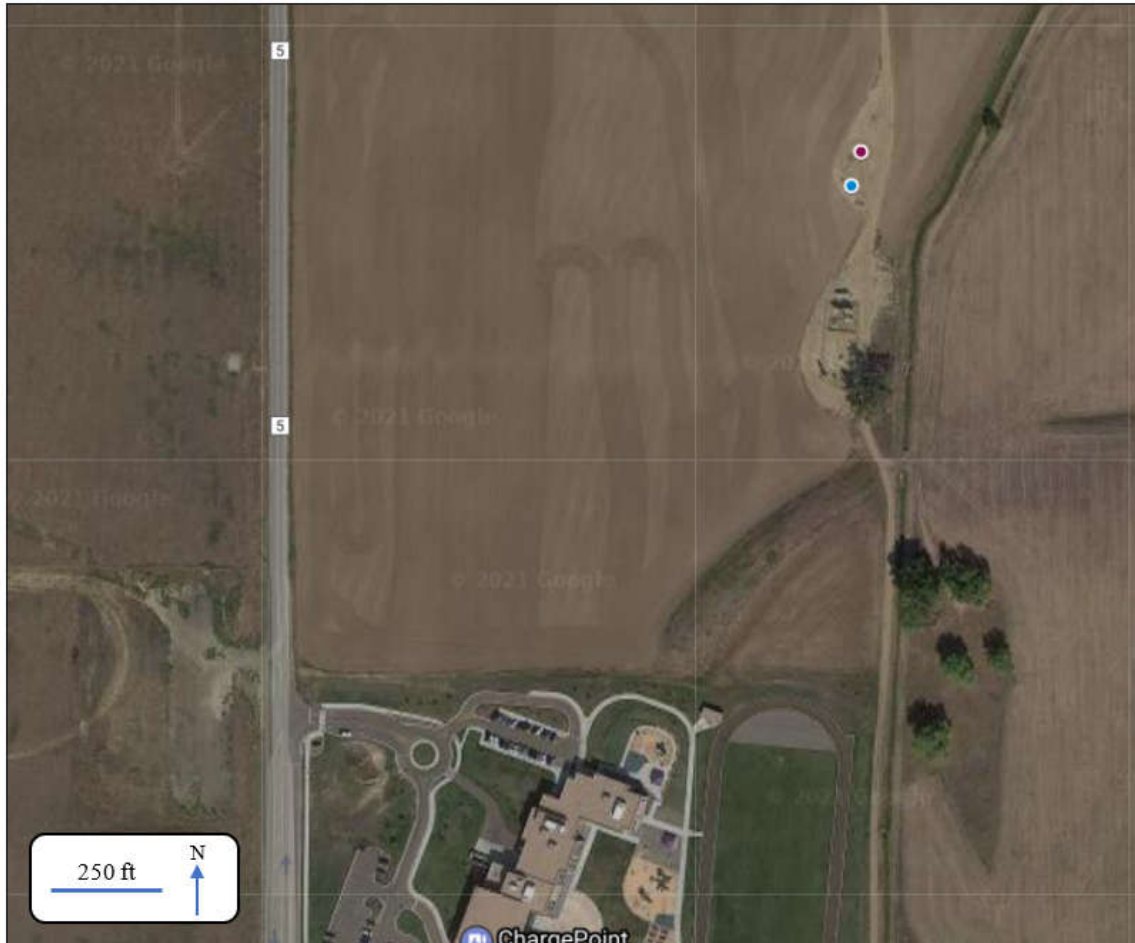
Oxy USA Inc.  
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<b>PID Analyzer Data Recovery</b>	100.0%
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During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

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### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

Figure 1 – State 30-16HZ VOC Data

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

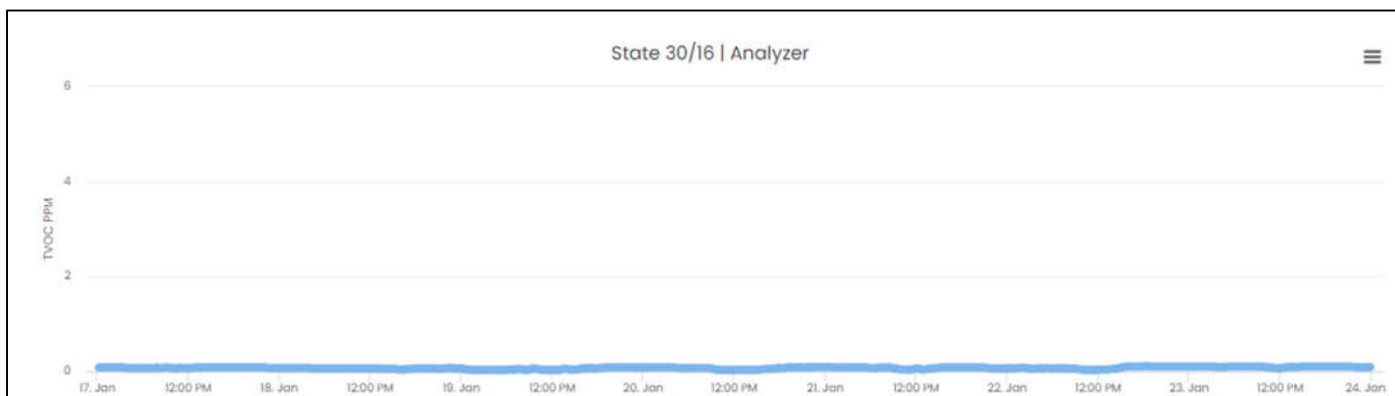
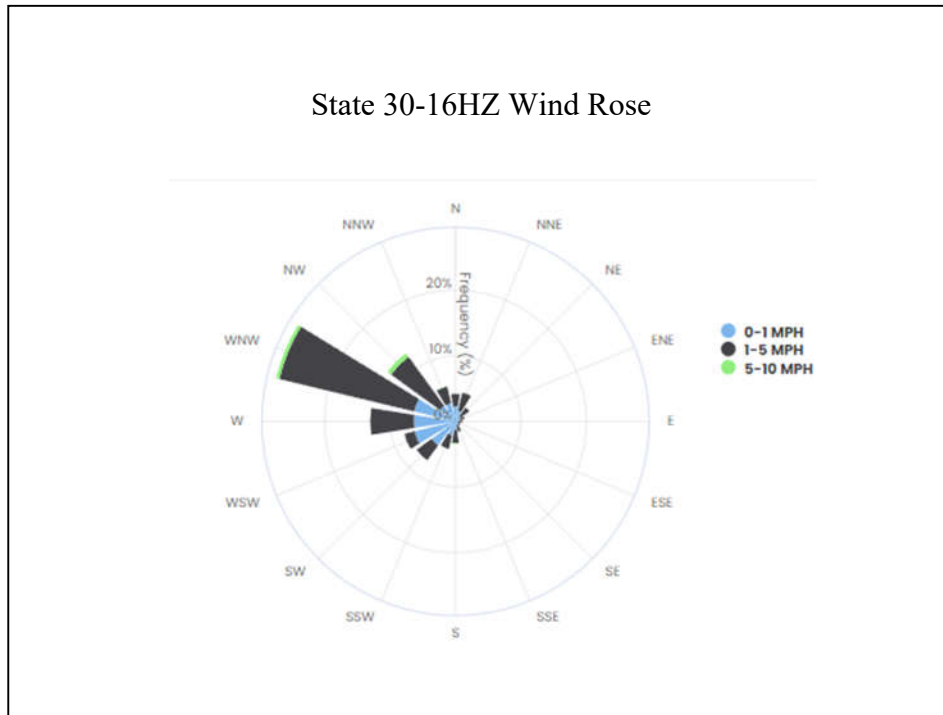


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





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STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

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1099 18<sup>th</sup> St #1800  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011278-RT-305</b>
Reporting Period:	<b>January 24 through January 30, 2023</b>
Report Date:	<b>January 31, 2023</b>

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## Project Overview

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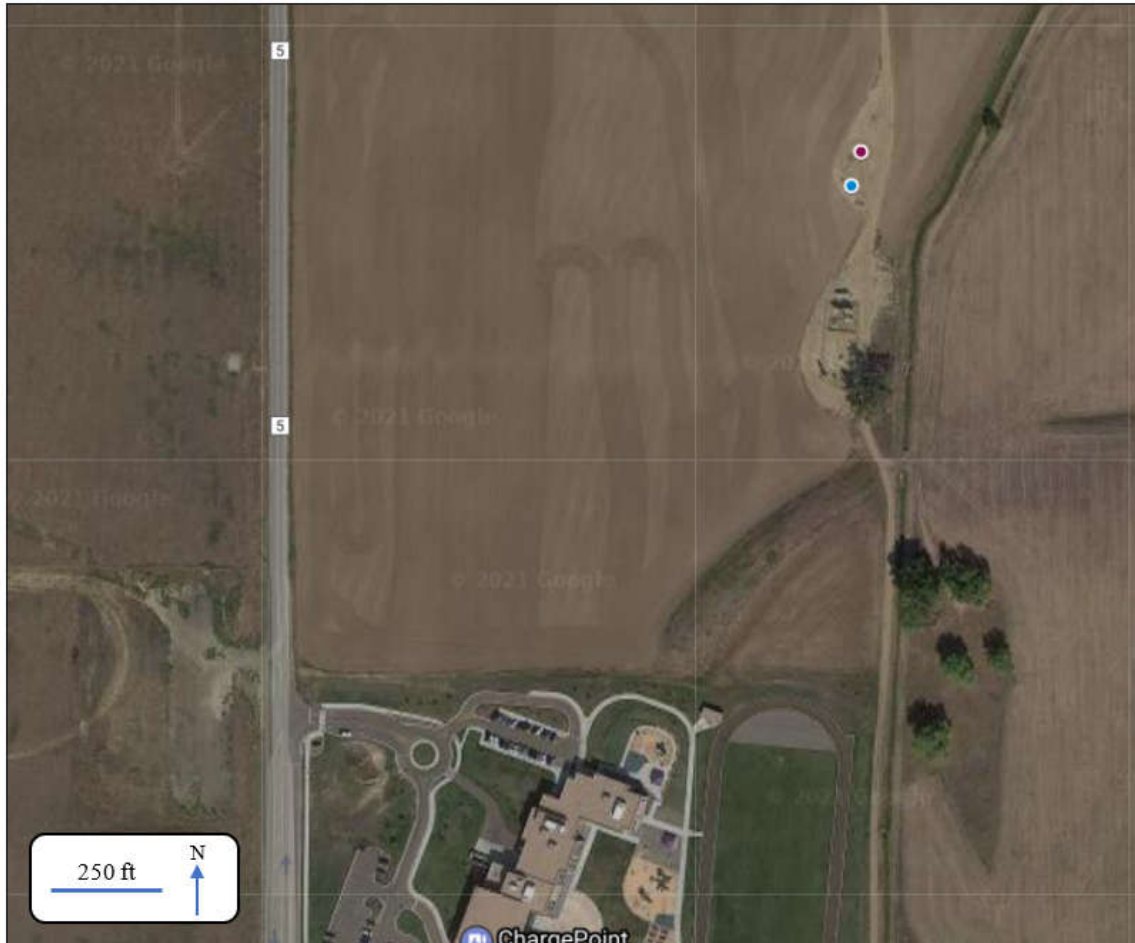
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Prepared by:



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James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

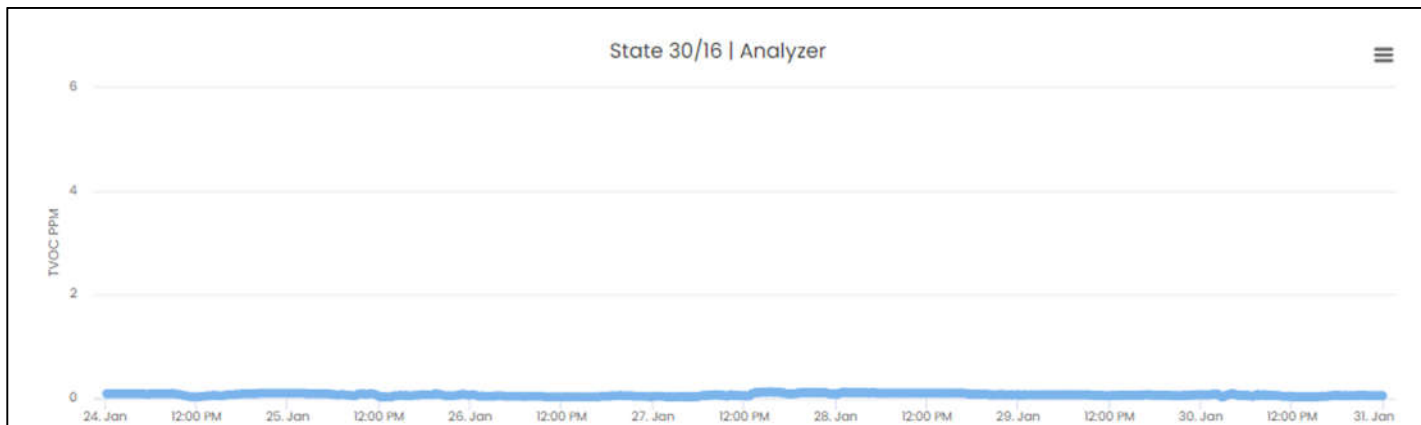
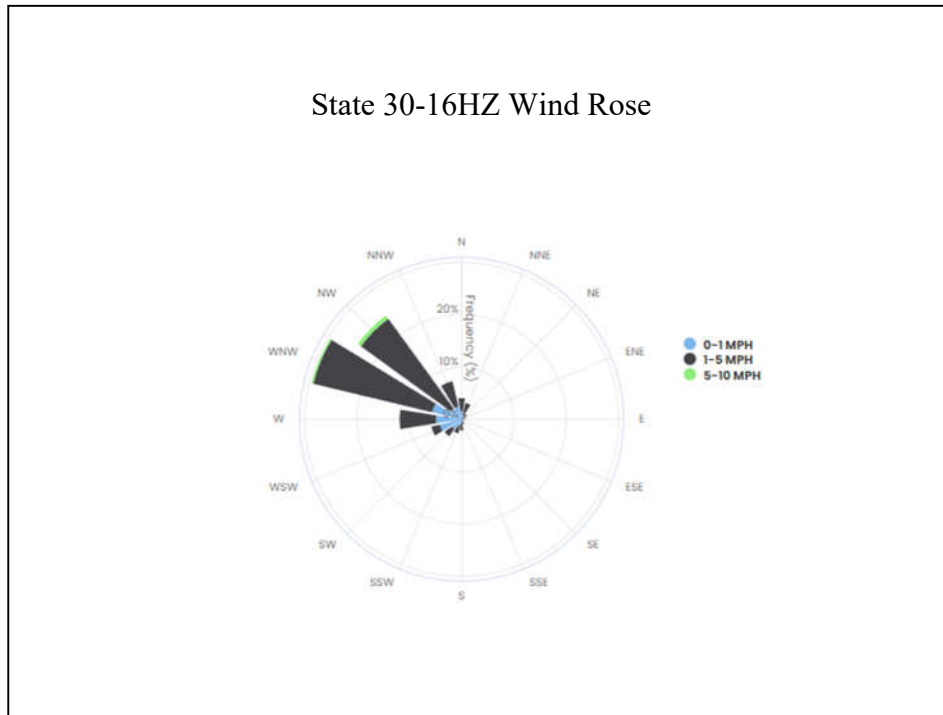


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990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011278-RT-318</b>
Reporting Period:	<b>January 31 through February 6, 2023</b>
Report Date:	<b>February 7, 2023</b>

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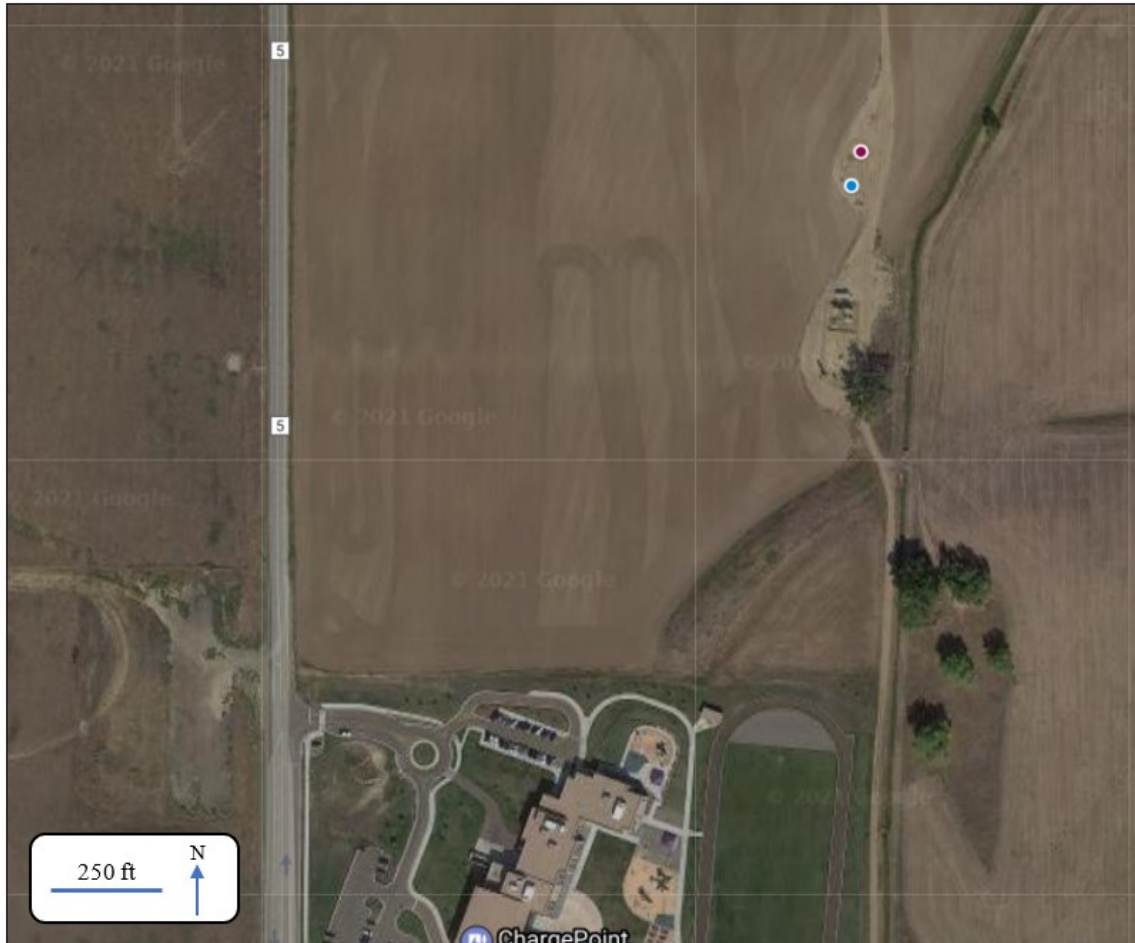
<p><b>Chad Schlichtemeier</b> Oxy USA Inc. 1099 18<sup>th</sup> Street Denver, CO 80202 Phone: (720) 929-6867 E-mail: Chad_Schlichtemeier@Oxy.com</p>
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Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

**On-Site IR Inspections**

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

**Discussion of Results**

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

Figure 1 – State 30-16HZ VOC Data

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

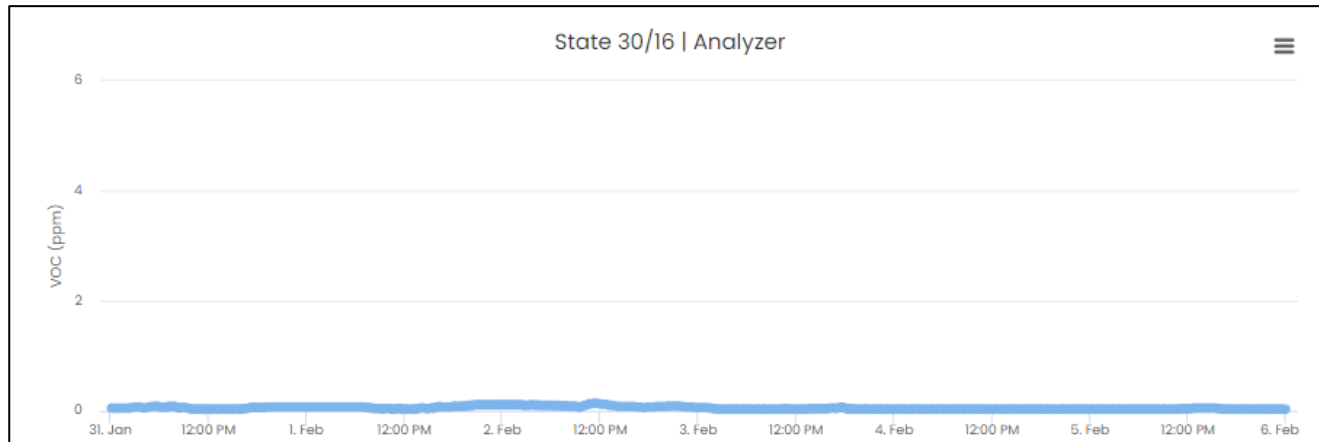
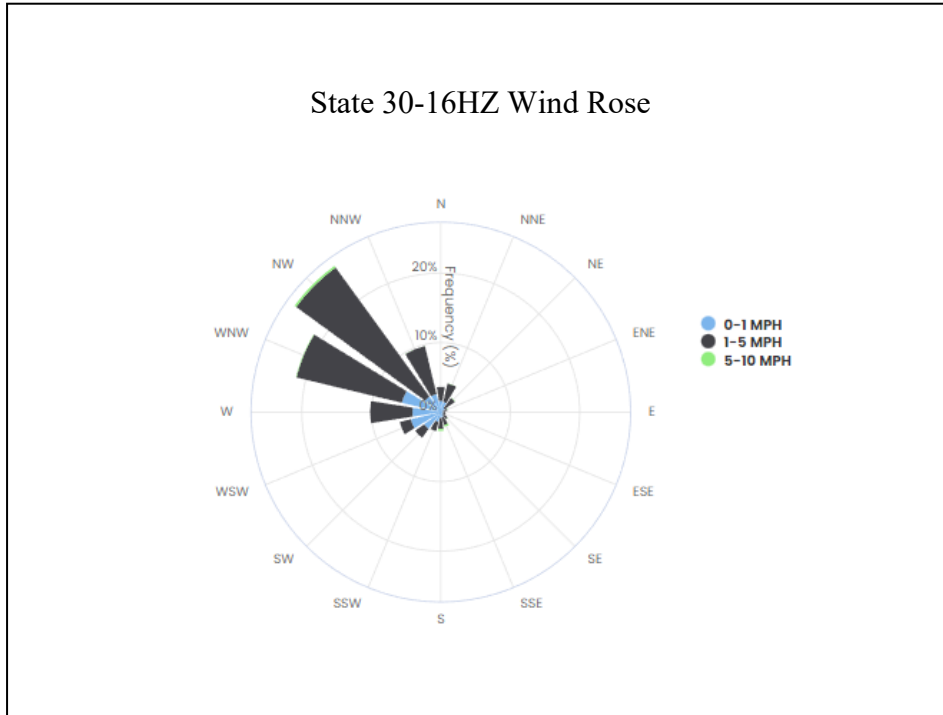


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St #1800  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011278-RT-319</b>
Reporting Period:	<b>February 7 through February 13, 2023</b>
Report Date:	<b>February 14, 2023</b>

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<i>On-Site IR Inspections.....</i>	<i>5</i>
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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from February 7 through February 13, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on February 8, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

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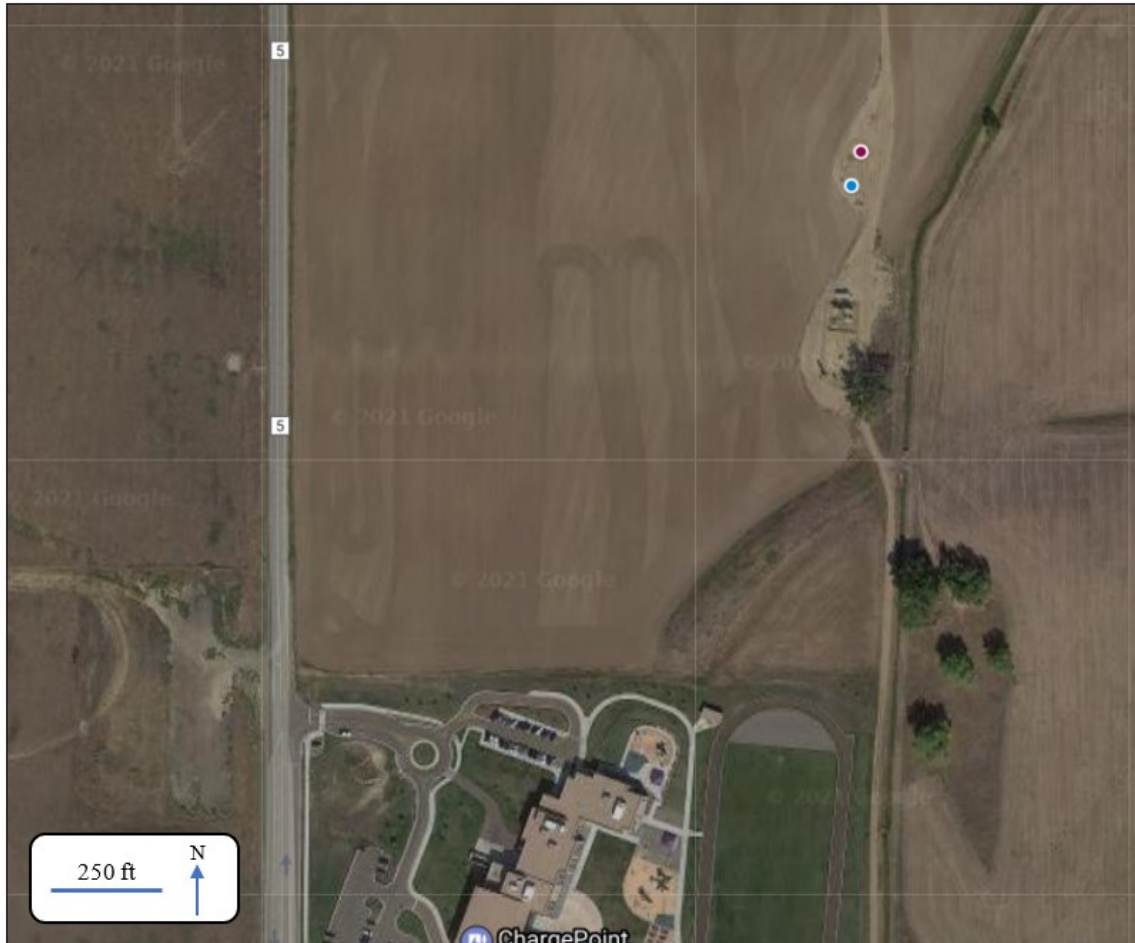
The contact information for each of the principal parties is summarized in the tables below:



<p><b>Chad Schlichtemeier</b> Oxy USA Inc. 1099 18<sup>th</sup> Street Denver, CO 80202 Phone: (720) 929-6867 E-mail: Chad_Schlichtemeier@Oxy.com</p>
---

<p><b>James Garrett</b> Montrose Air Quality Services, LLC 990 West 43<sup>rd</sup> Ave Denver, CO 80216 Phone: (303) 670-0530 E-mail: Jagarrett@Montrose-Env.com</p>
---

### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



Location Tag	Description
	State Pad Monitoring Wells
	PID Analyzer

GPS coordinates of the locations are listed in the following table.

Location	GPS Coordinates	Monitoring Technology
State Pad Monitoring Wells	40.05433, -105.01451	NA
PID Analyzer	40.05417, -105.01459	PID Analyzer

### Summary of Down Time or Equipment Malfunction

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	97.0%
-----------------------------------	-------

### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



---

James Garrett

## Summary of Results

Figure 1 – State 30-16HZ VOC Data

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

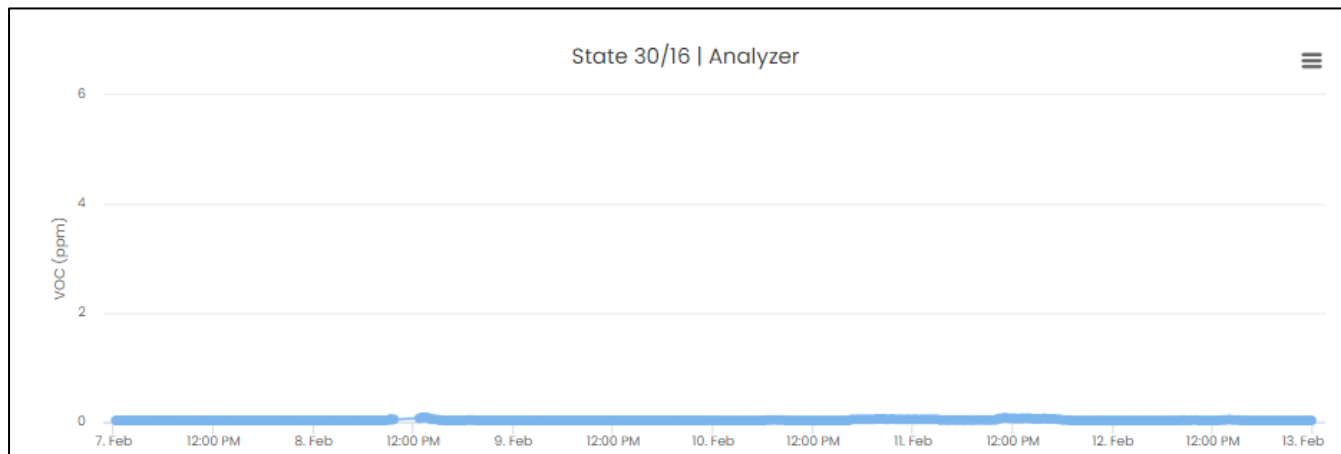
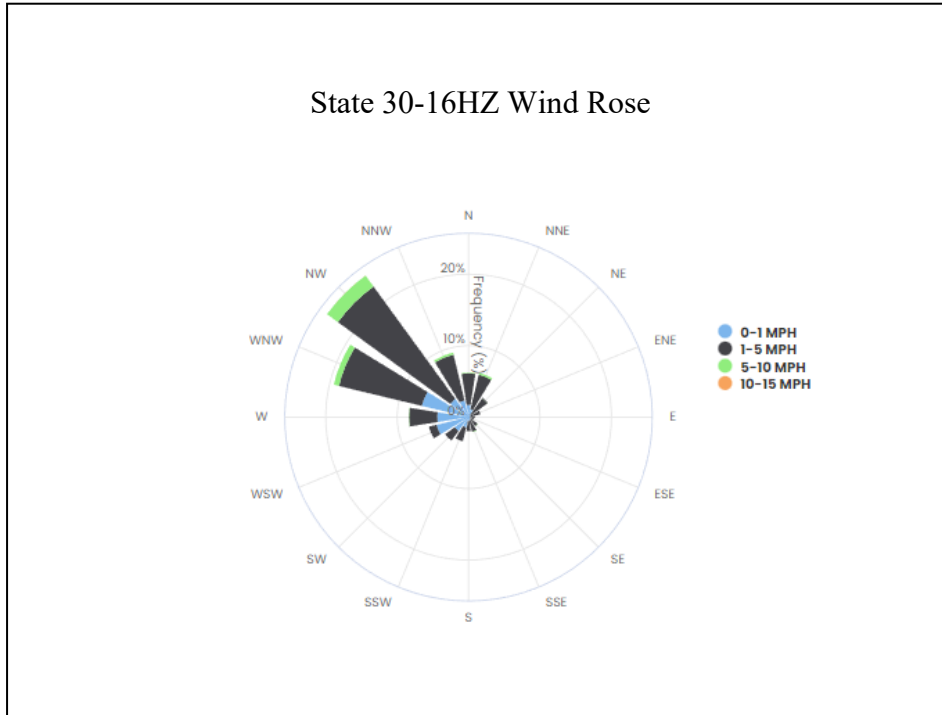


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011278-RT-335</b>
Reporting Period:	<b>February 14 through February 20, 2023</b>
Report Date:	<b>February 21, 2023</b>

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<i>On-Site IR Inspections.....</i>	<i>5</i>
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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from February 14 through February 20, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on February 8, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

### Contact Information

The contact information for each of the principal parties is summarized in the tables below:

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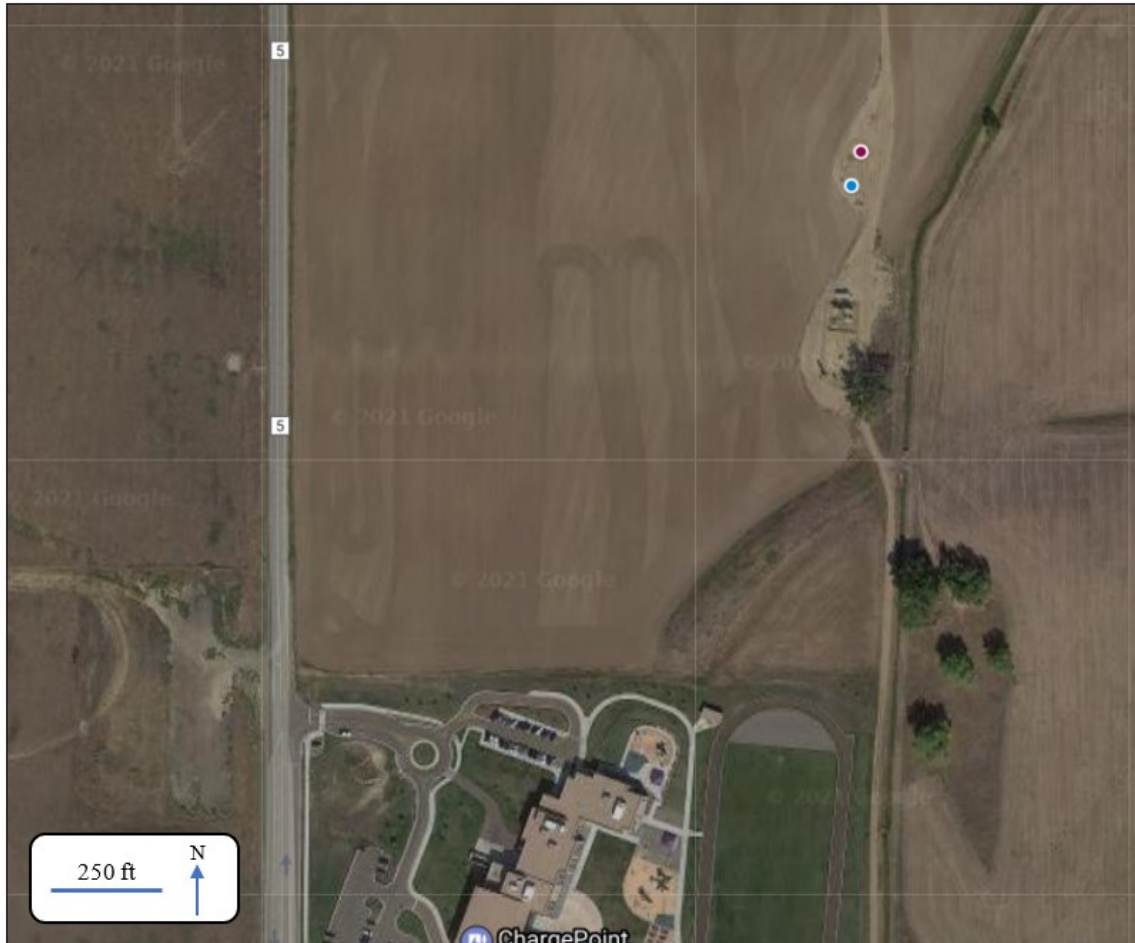
Oxy USA Inc.  
1099 18<sup>th</sup> Street  
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**James Garrett**

Montrose Air Quality Services, LLC  
990 West 43<sup>rd</sup> Ave  
Denver, CO 80216  
Phone: (303) 670-0530  
E-mail: Jgarrett@Montrose-Env.com

### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



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GPS coordinates of the locations are listed in the following table.

Location	GPS Coordinates	Monitoring Technology
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### Summary of Down Time or Equipment Malfunction

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	100.0%
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### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

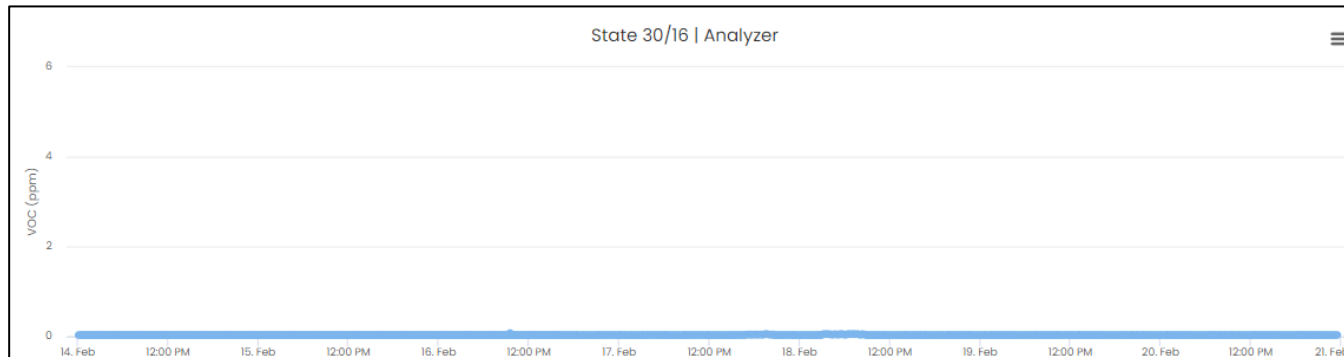
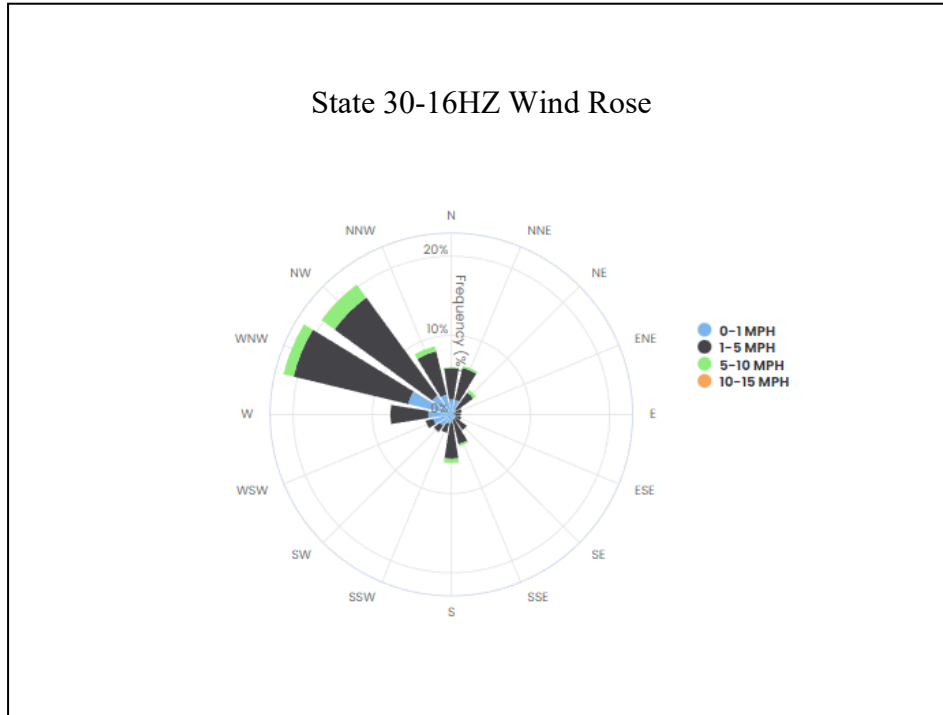


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-336</b>
Reporting Period:	<b>February 21 through February 27, 2023</b>
Report Date:	<b>February 28, 2023</b>

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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from February 21 through February 27, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on February 8, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

### Contact Information

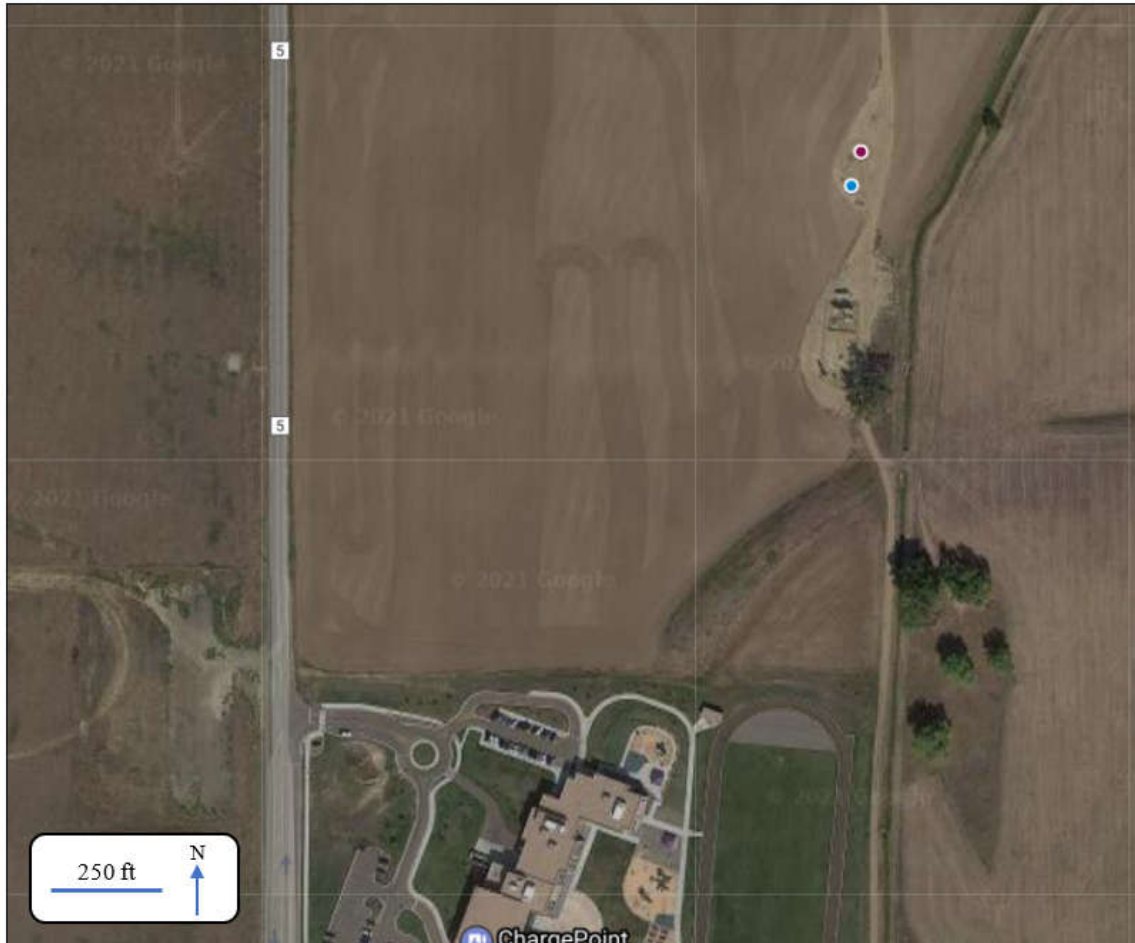
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<p><b>Chad Schlichtemeier</b> Oxy USA Inc. 1099 18<sup>th</sup> Street Denver, CO 80202 Phone: (720) 929-6867 E-mail: Chad_Schlichtemeier@Oxy.com</p>
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<p><b>James Garrett</b> Montrose Air Quality Services, LLC 990 West 43<sup>rd</sup> Ave Denver, CO 80216 Phone: (303) 670-0530 E-mail: Jgarrett@Montrose-Env.com</p>
--

### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



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	PID Analyzer

GPS coordinates of the locations are listed in the following table.

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The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	100.0%
-----------------------------------	--------

### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

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Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

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### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

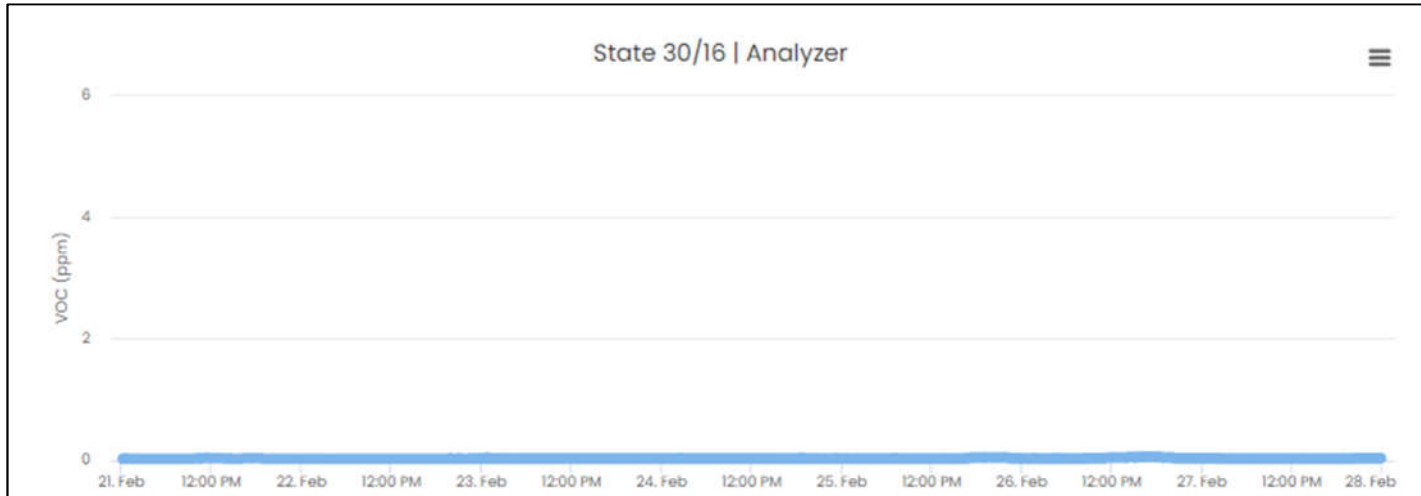
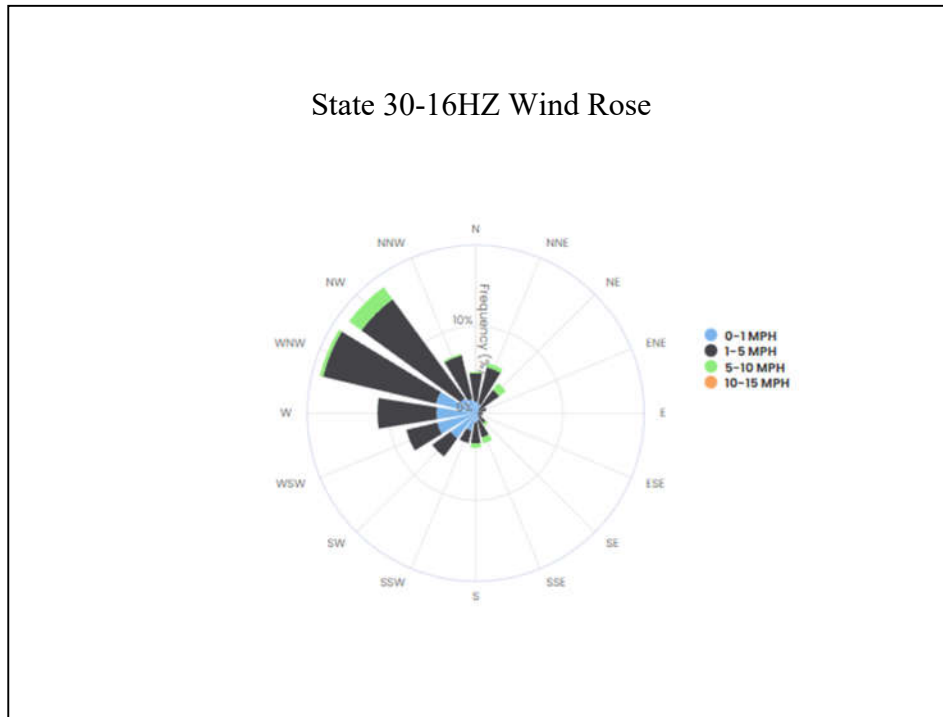


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-344</b>
Reporting Period:	<b>February 28 through March 6, 2023</b>
Report Date:	<b>March 7, 2023</b>

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<i>Summary of Investigations and Response.....</i>	<i>5</i>
<i>On-Site IR Inspections.....</i>	<i>5</i>
<i>Discussion of Results .....</i>	<i>5</i>
<b>SUMMARY OF RESULTS .....</b>	<b>7</b>
<i>Figure 1 – State 30-16HZ VOC Data.....</i>	<i>7</i>
<i>Figure 2 – State 30-16HZ Meteorological Data .....</i>	<i>8</i>

## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from February 28 through March 6, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on February 8, 2023 in accordance with the QAPP.

### Project Scope

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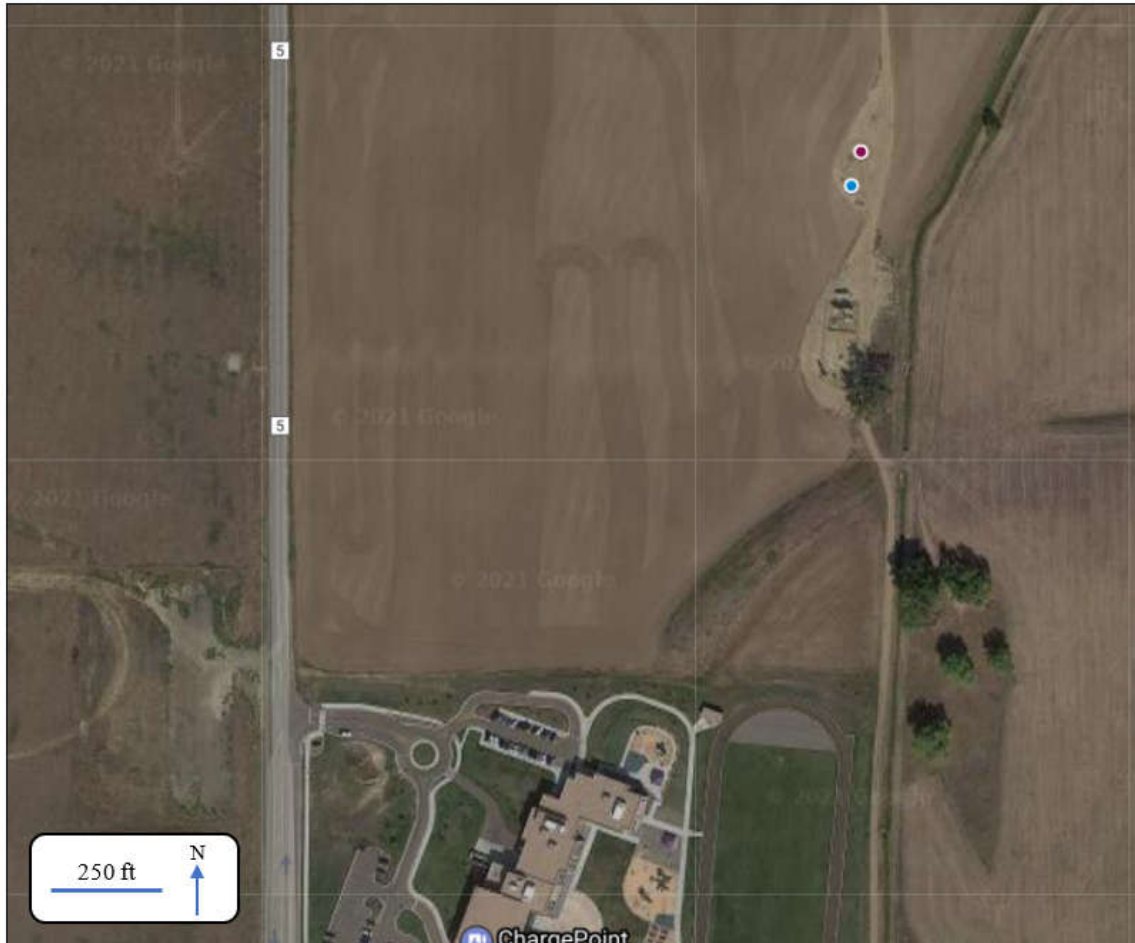
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**James Garrett**

Montrose Air Quality Services, LLC  
990 West 43<sup>rd</sup> Ave  
Denver, CO 80216  
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The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



---

James Garrett

## Summary of Results

Figure 1 – State 30-16HZ VOC Data

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

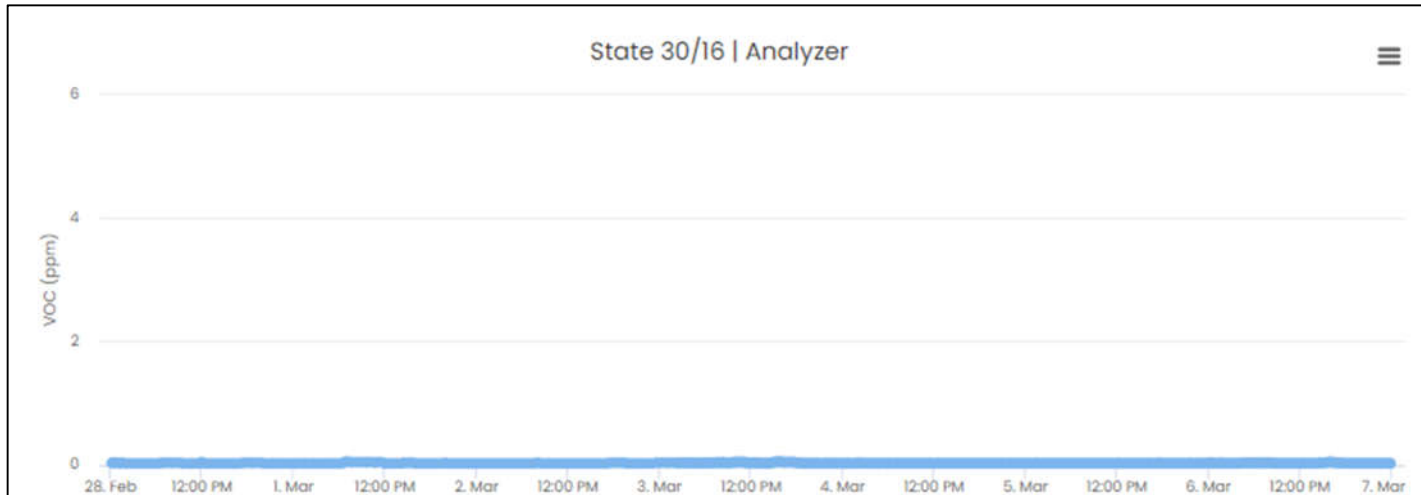
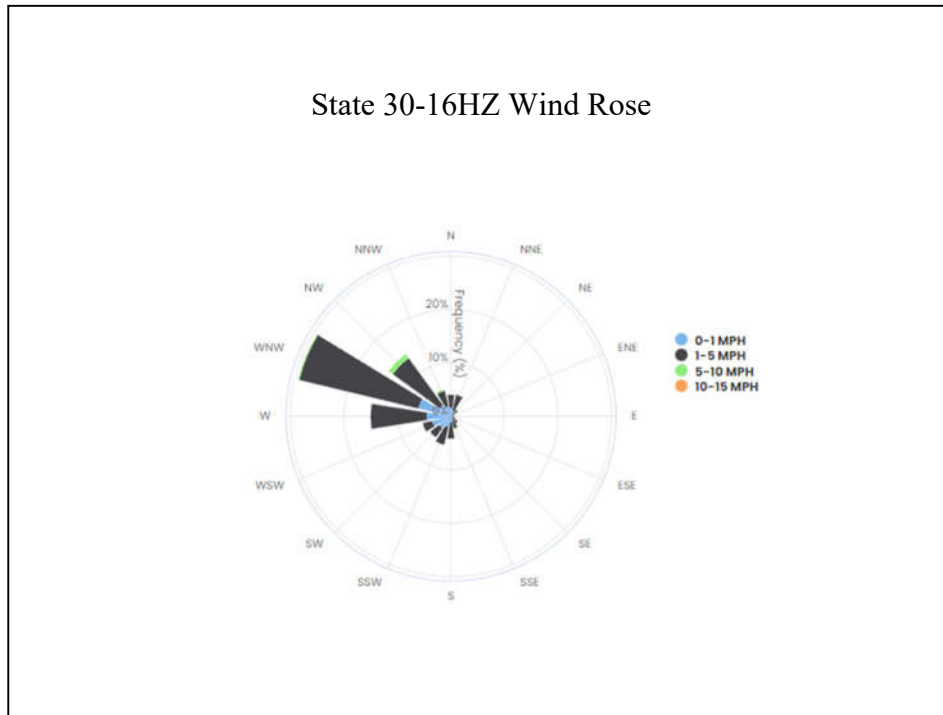


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





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**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number: **085AA-011280-RT-363**  
Reporting Period: **March 7 through March 13, 2023**  
Report Date: **March 14, 2023**

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<b>SUMMARY OF RESULTS .....</b>	<b>7</b>
<i>Figure 1 – State 30-16HZ VOC Data.....</i>	<i>7</i>
<i>Figure 2 – State 30-16HZ Meteorological Data .....</i>	<i>8</i>

## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from March 7 through March 13, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

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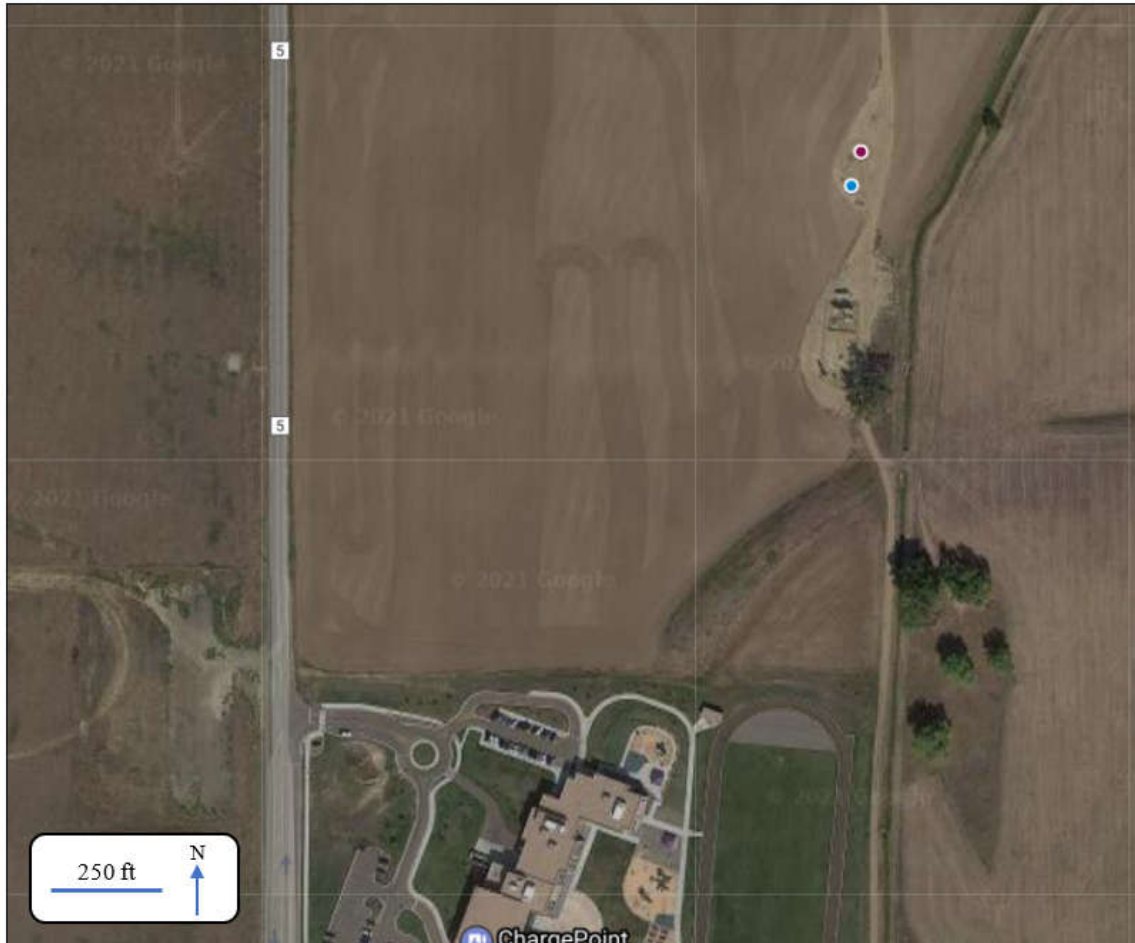
Oxy USA Inc.  
1099 18<sup>th</sup> Street  
Denver, CO 80202  
Phone: (720) 929-6867  
E-mail: Chad\_Schlichtemeier@Oxy.com



**James Garrett**

Montrose Air Quality Services, LLC  
990 West 43<sup>rd</sup> Ave  
Denver, CO 80216  
Phone: (303) 670-0530  
E-mail: Jgarrett@Montrose-Env.com

### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



Location Tag	Description
	State Pad Monitoring Wells
	PID Analyzer

GPS coordinates of the locations are listed in the following table.

Location	GPS Coordinates	Monitoring Technology
State Pad Monitoring Wells	40.05433, -105.01451	NA
PID Analyzer	40.05417, -105.01459	PID Analyzer

### Summary of Down Time or Equipment Malfunction

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	58.08%
-----------------------------------	--------

Analyzer	Instrument Offline Start	Instrument Online End Date	Issue	Corrective Action
PID Analyzer	3/08/2023 09:00	3/08/2023 12:15	None	Calibration
PID Analyzer	3/10/2023 16:00	3/13/2023 10:15	Loss of power	Power Cycle

### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

**Discussion of Results**

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



---

James Garrett

## Summary of Results

Figure 1 – State 30-16HZ VOC Data

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

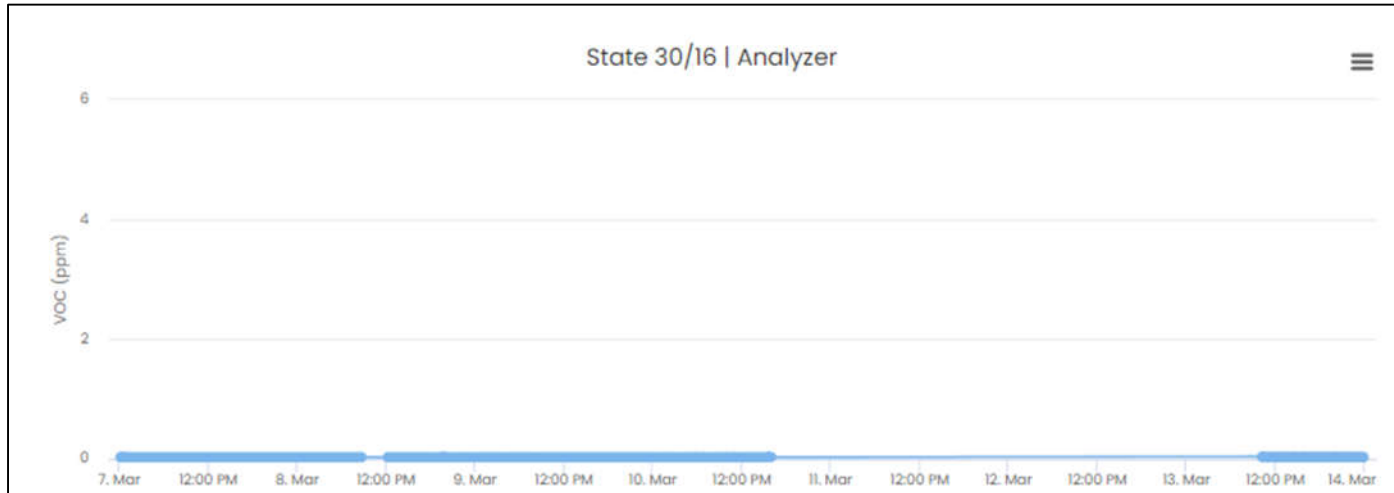
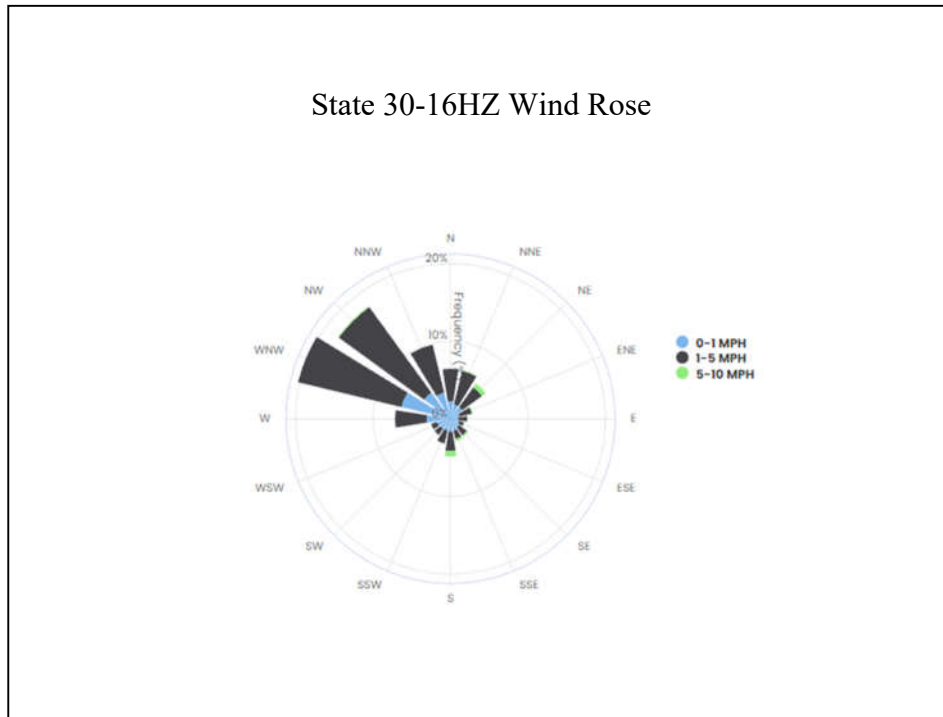


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-366</b>
Reporting Period:	<b>March 14 through March 20, 2023</b>
Report Date:	<b>March 21, 2023</b>

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<i>Contact Information .....</i>	<i>3</i>
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<i>On-Site IR Inspections.....</i>	<i>5</i>
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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from March 14 through March 20, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on March 8, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

### Contact Information

The contact information for each of the principal parties is summarized in the tables below:

**Chad Schlichtemeier**

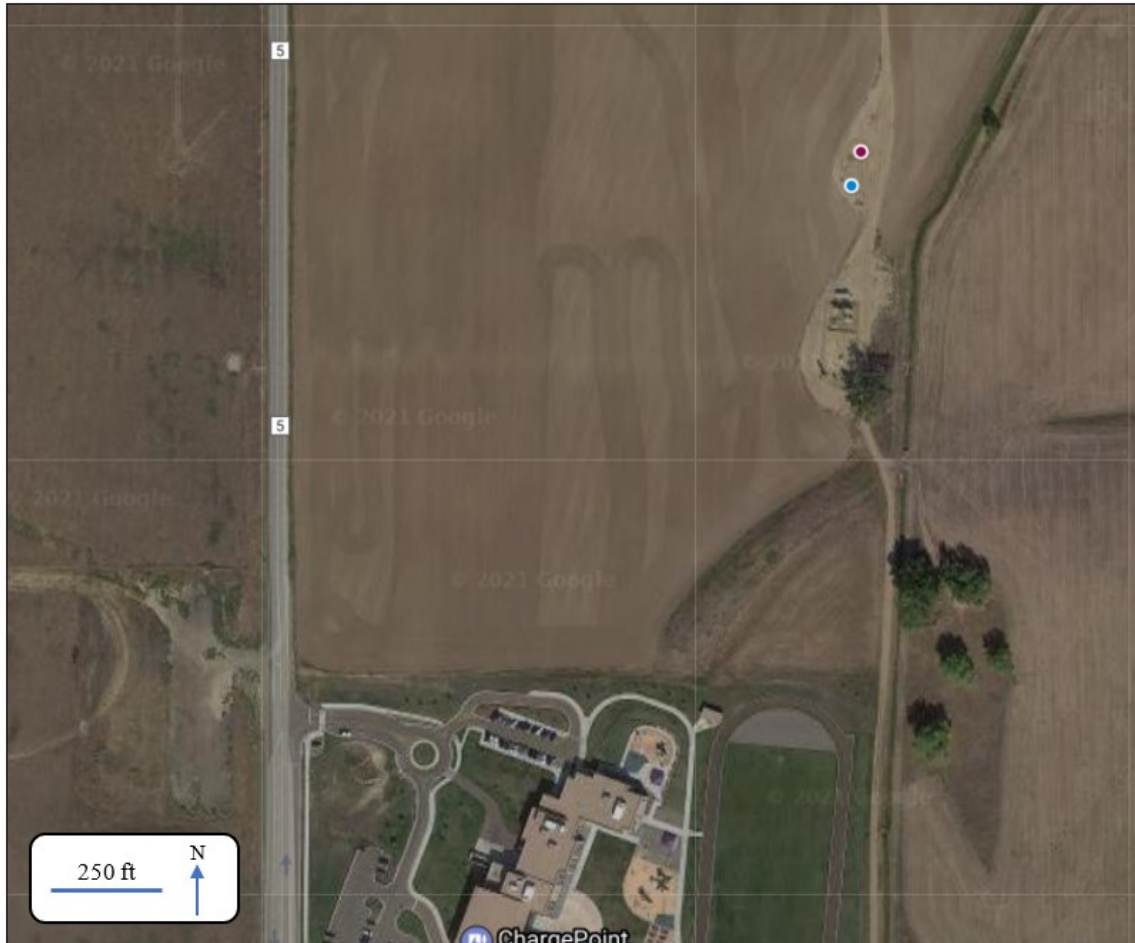
Oxy USA Inc.  
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**James Garrett**

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990 West 43<sup>rd</sup> Ave  
Denver, CO 80216  
Phone: (303) 670-0530  
E-mail: Jagarrett@Montrose-Env.com

### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



Location Tag	Description
	State Pad Monitoring Wells
	PID Analyzer

GPS coordinates of the locations are listed in the following table.

Location	GPS Coordinates	Monitoring Technology
State Pad Monitoring Wells	40.05433, -105.01451	NA
PID Analyzer	40.05417, -105.01459	PID Analyzer

**Summary of Down Time or Equipment Malfunction**

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	100%
-----------------------------------	------

**Summary of Investigations and Response**

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

**On-Site IR Inspections**

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

**Discussion of Results**

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



---

James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

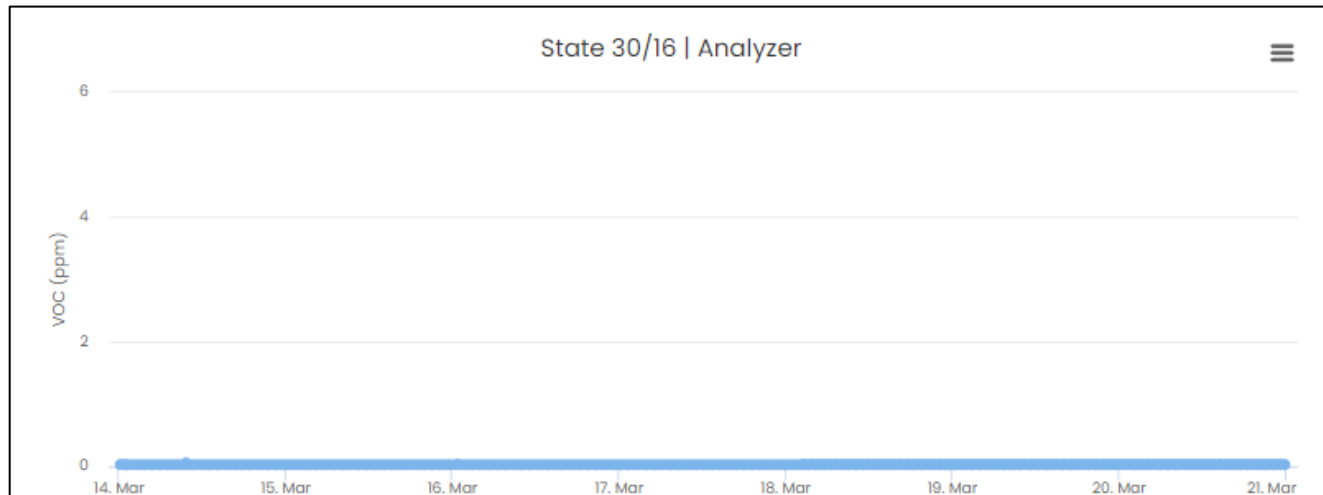
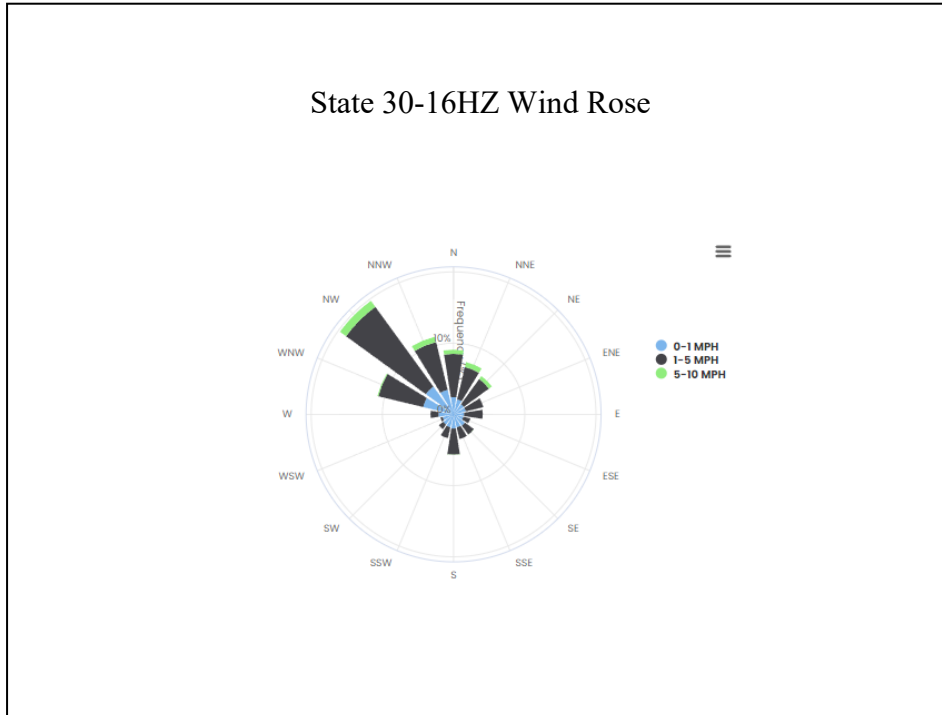


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-368</b>
Reporting Period:	<b>March 21 through March 27, 2023</b>
Report Date:	<b>March 28, 2023</b>

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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from March 21 through March 27, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on March 8, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

### Contact Information

The contact information for each of the principal parties is summarized in the tables below:

**Chad Schlichtemeier**

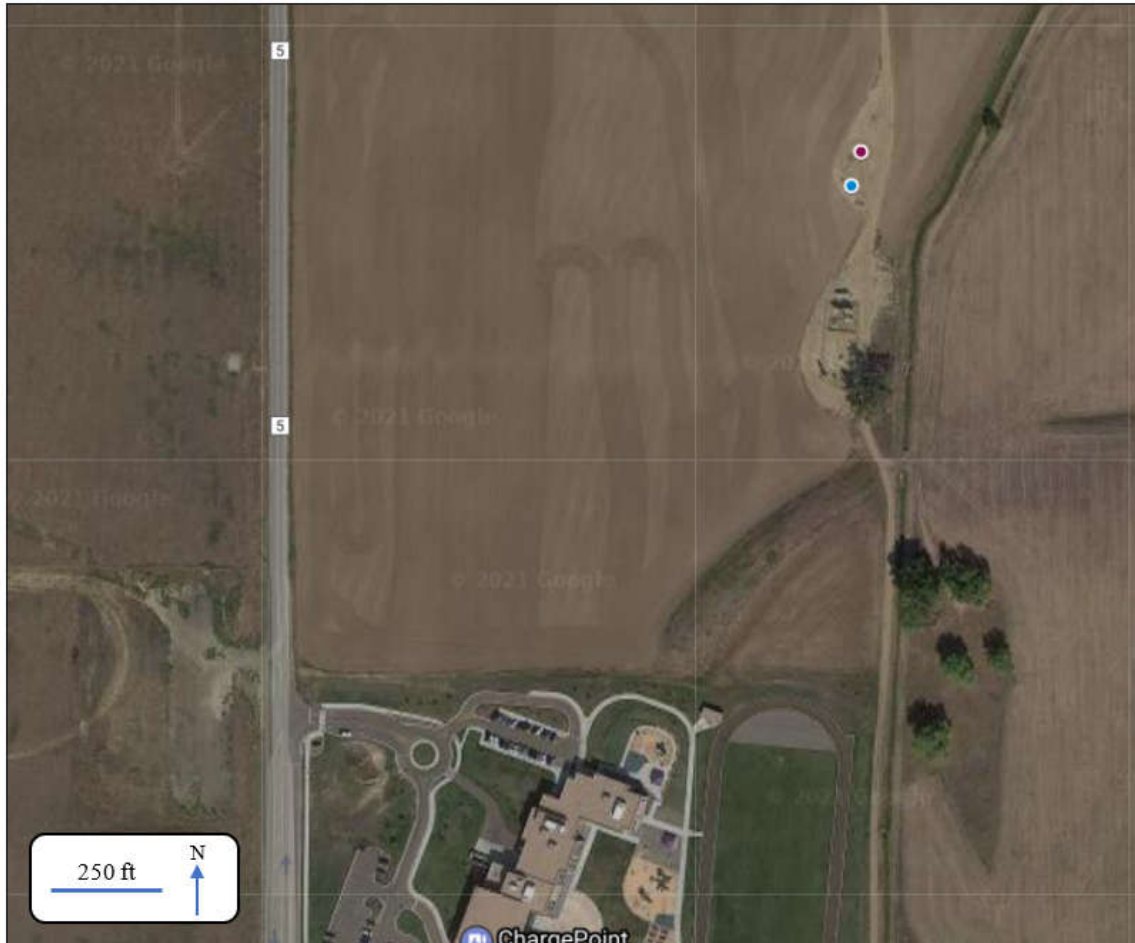
Oxy USA Inc.  
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**James Garrett**

Montrose Air Quality Services, LLC  
990 West 43<sup>rd</sup> Ave  
Denver, CO 80216  
Phone: (303) 670-0530  
E-mail: Jgarrett@Montrose-Env.com

### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



Location Tag	Description
	State Pad Monitoring Wells
	PID Analyzer

GPS coordinates of the locations are listed in the following table.

Location	GPS Coordinates	Monitoring Technology
State Pad Monitoring Wells	40.05433, -105.01451	NA
PID Analyzer	40.05417, -105.01459	PID Analyzer

### Summary of Down Time or Equipment Malfunction

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	100%
-----------------------------------	------

### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

Figure 1 – State 30-16HZ VOC Data

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

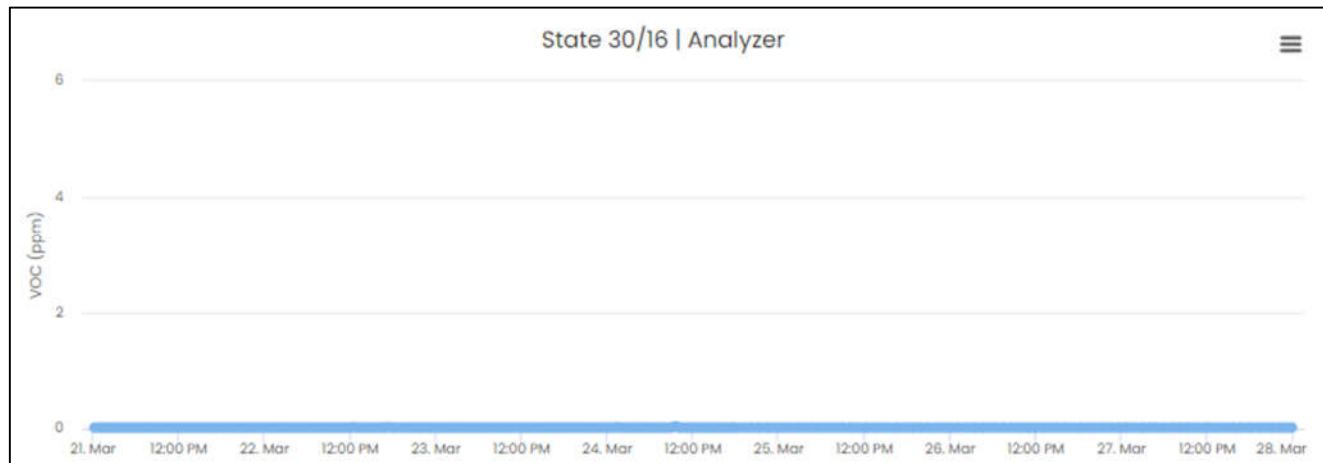
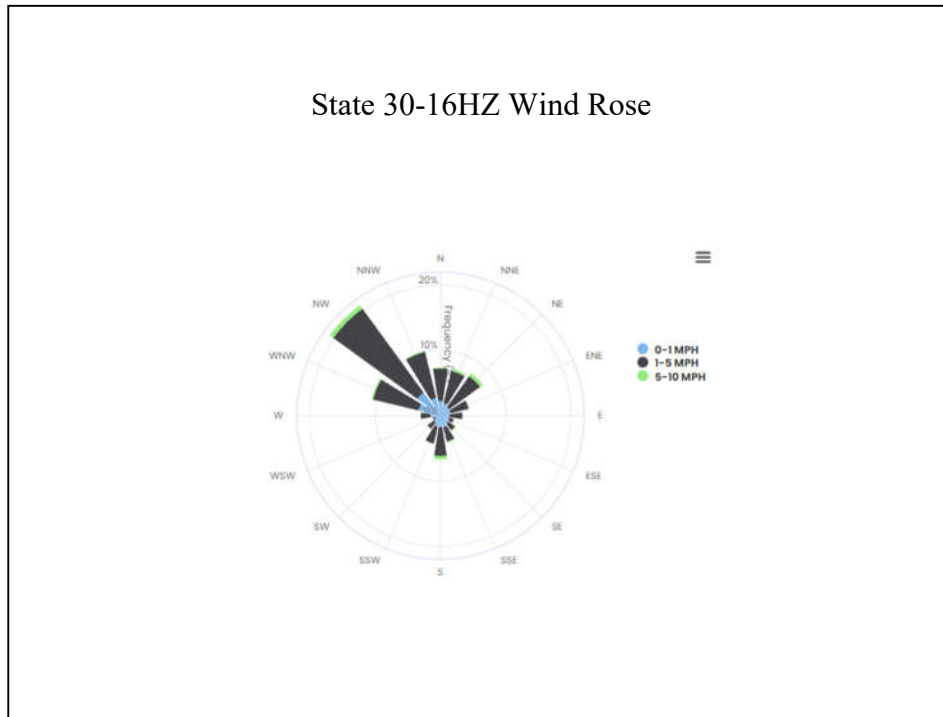


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-381</b>
Reporting Period:	<b>March 28 through April 3, 2023</b>
Report Date:	<b>April 4, 2023</b>

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<i>Summary of Down Time or Equipment Malfunction .....</i>	<i>5</i>
<i>Summary of Investigations and Response.....</i>	<i>5</i>
<i>On-Site IR Inspections.....</i>	<i>5</i>
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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from March 28 through April 3, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on March 8, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

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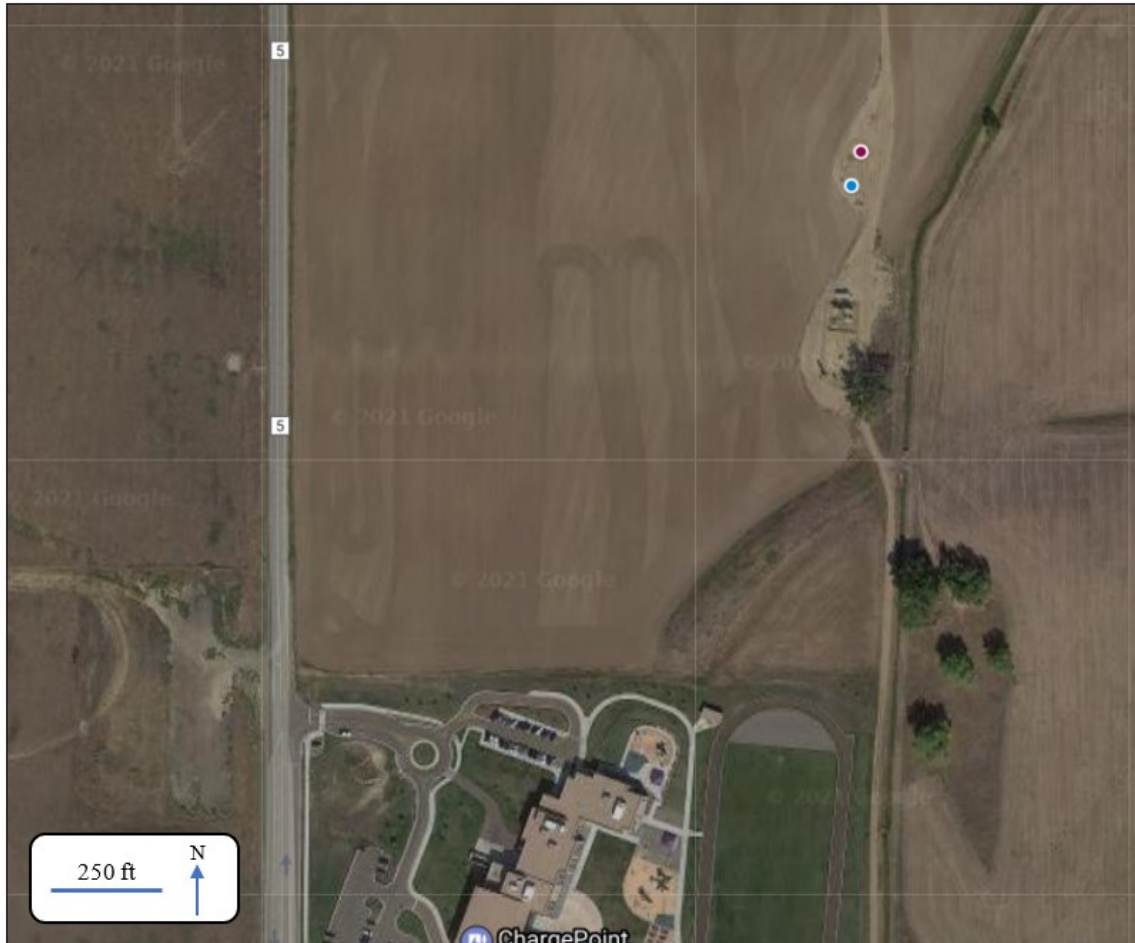
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Sampling locations are labeled by ID on the map below.



Location Tag	Description
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**Summary of Down Time or Equipment Malfunction**

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	100%
-----------------------------------	------

**Summary of Investigations and Response**

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

**On-Site IR Inspections**

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

**Discussion of Results**

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



---

James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

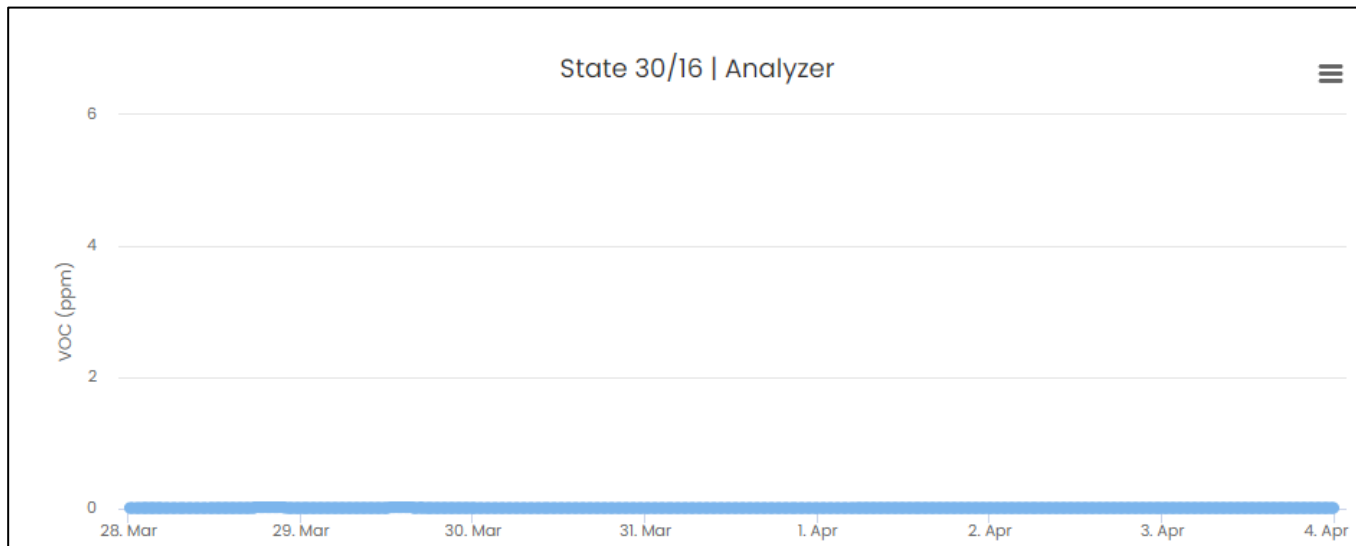
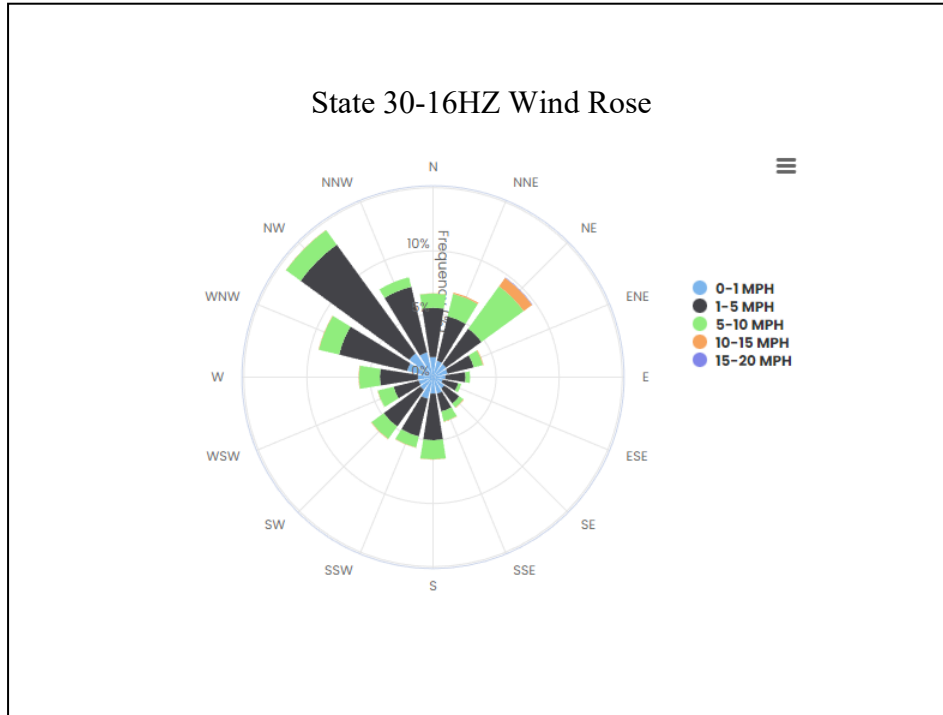


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-382</b>
Reporting Period:	<b>April 4 through April 10, 2023</b>
Report Date:	<b>April 11, 2023</b>

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<i>Summary of Down Time or Equipment Malfunction .....</i>	<i>5</i>
<i>Summary of Investigations and Response.....</i>	<i>5</i>
<i>On-Site IR Inspections.....</i>	<i>5</i>
<i>Discussion of Results .....</i>	<i>5</i>
<b>SUMMARY OF RESULTS .....</b>	<b>7</b>
<i>Figure 1 – State 30-16HZ VOC Data.....</i>	<i>7</i>
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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from April 4 through April 10, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on April 5, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

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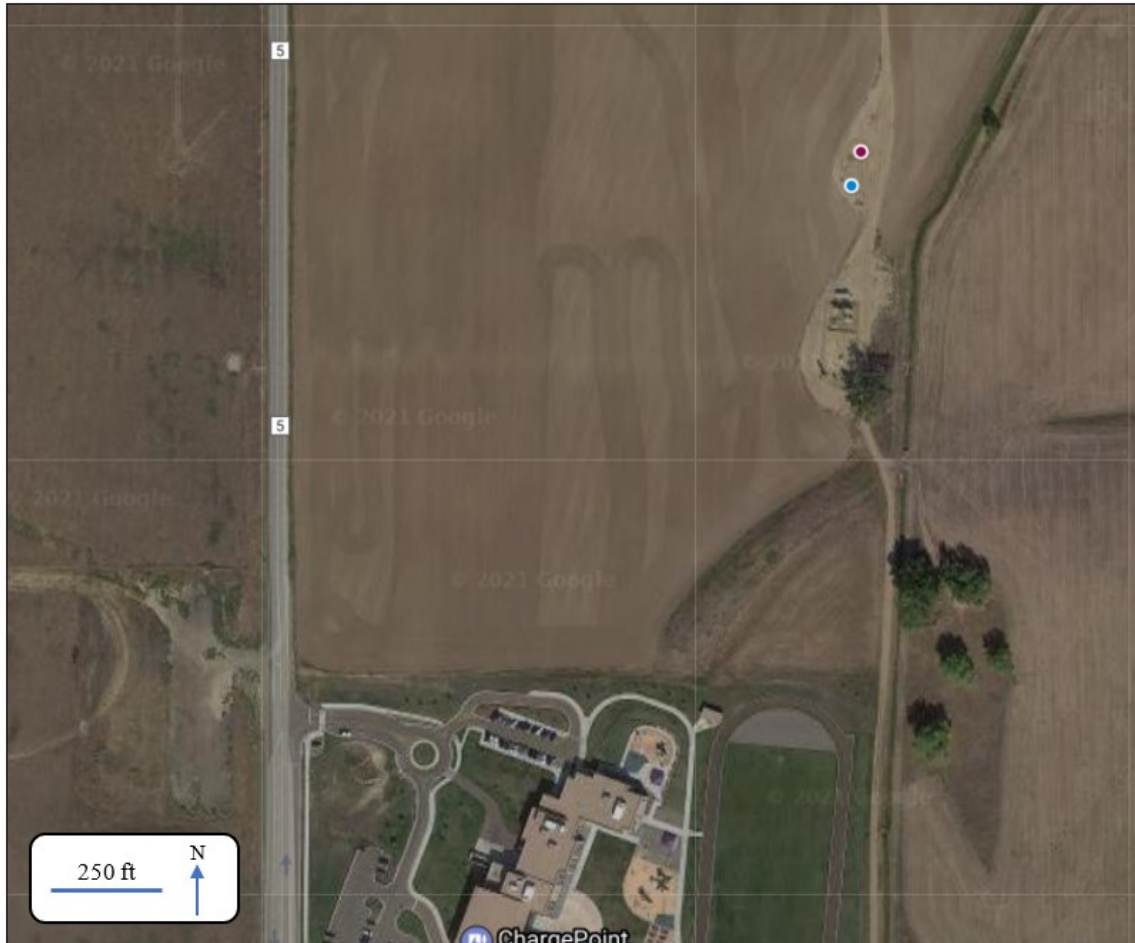
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### Summary of Down Time or Equipment Malfunction

The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	98.66%
-----------------------------------	--------

### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

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### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



---

James Garrett

## Summary of Results

Figure 1 – State 30-16HZ VOC Data

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

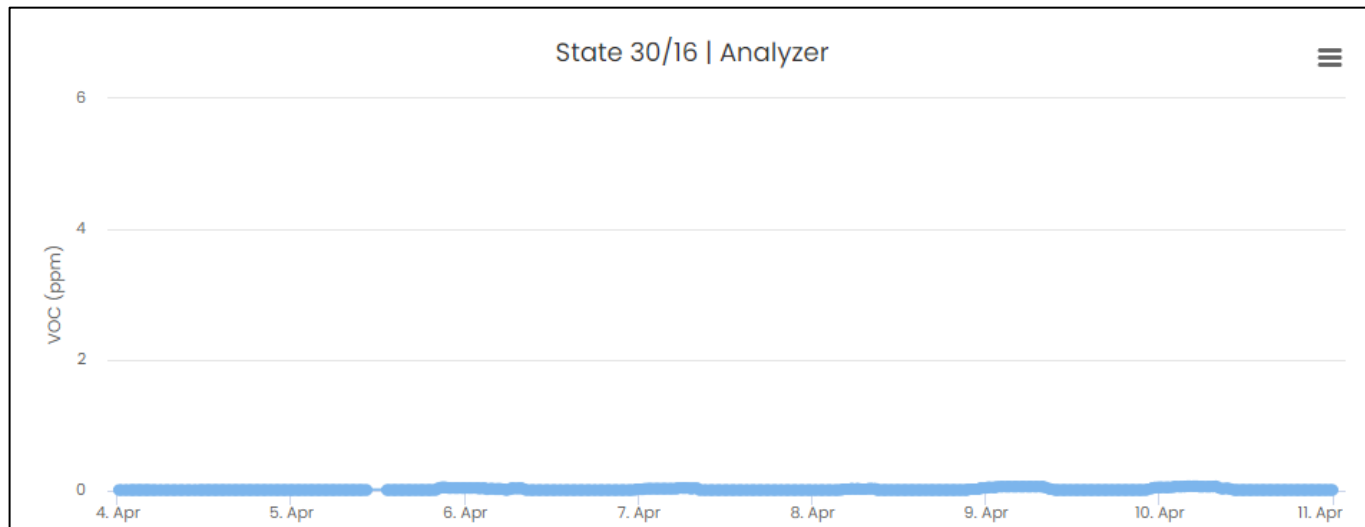
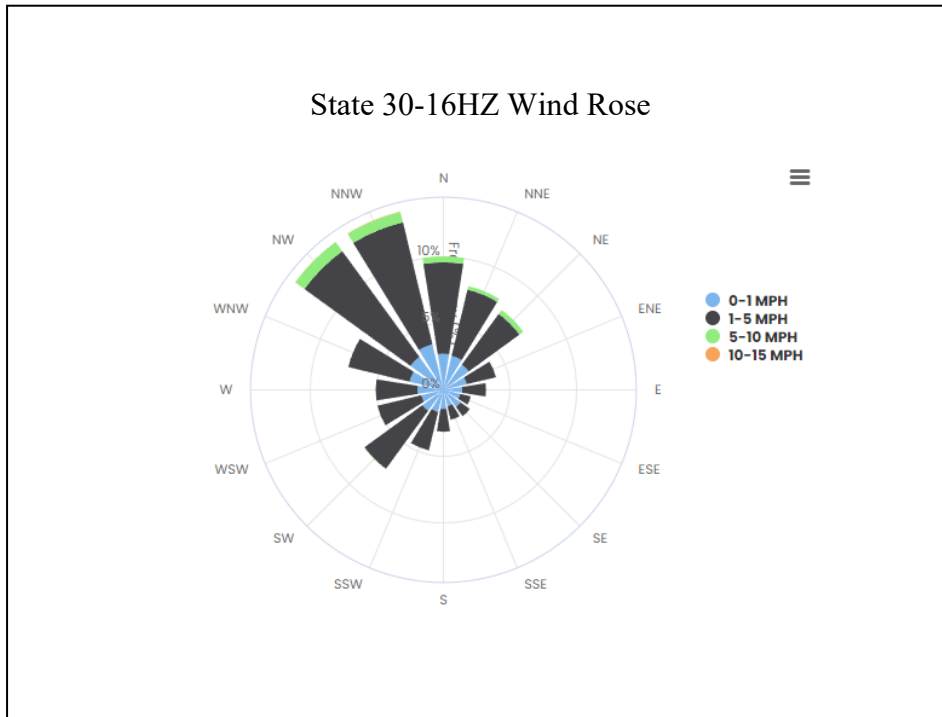


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-474</b>
Reporting Period:	<b>June 13, through June 19, 2023</b>
Report Date:	<b>June 20, 2023</b>

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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from June 13 through June 19, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on May 31, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

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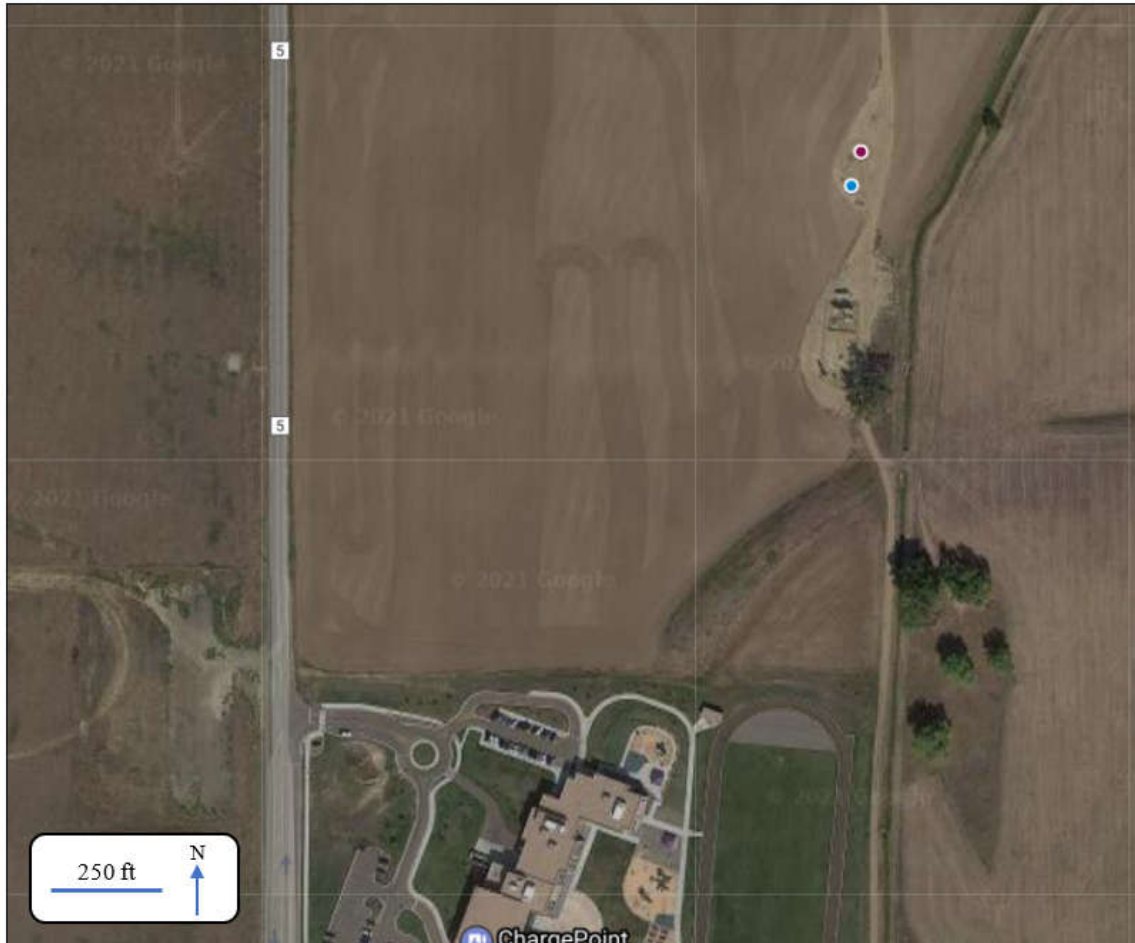
Oxy USA Inc.  
1099 18<sup>th</sup> Street  
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Phone: (720) 929-6867  
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**James Garrett**

Montrose Air Quality Services, LLC  
990 West 43<sup>rd</sup> Ave  
Denver, CO 80216  
Phone: (303) 670-0530  
E-mail: Jgarrett@Montrose-Env.com

### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



Location Tag	Description
	State Pad Monitoring Wells
	PID Analyzer

GPS coordinates of the locations are listed in the following table.

Location	GPS Coordinates	Monitoring Technology
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The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

<b>PID Analyzer Data Recovery</b>	100 %
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### Summary of Investigations and Response

The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

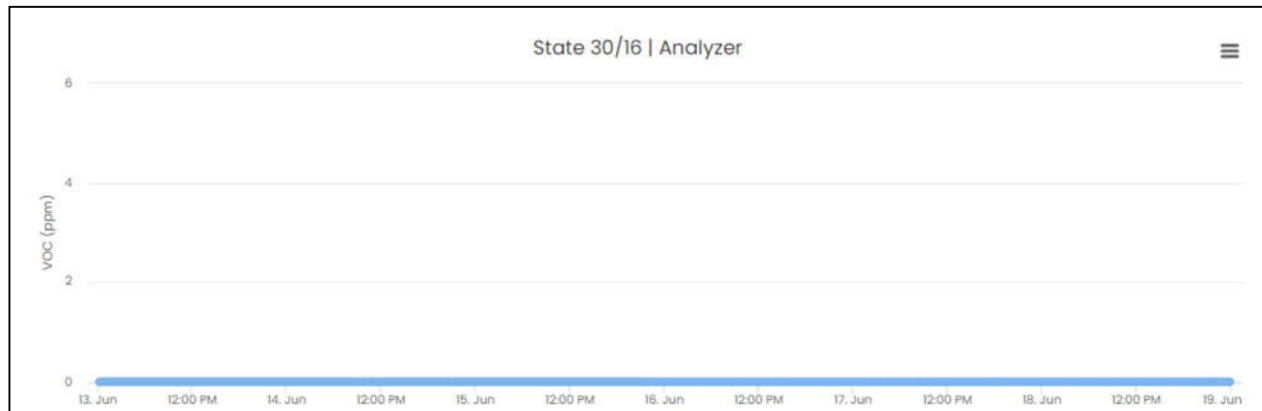
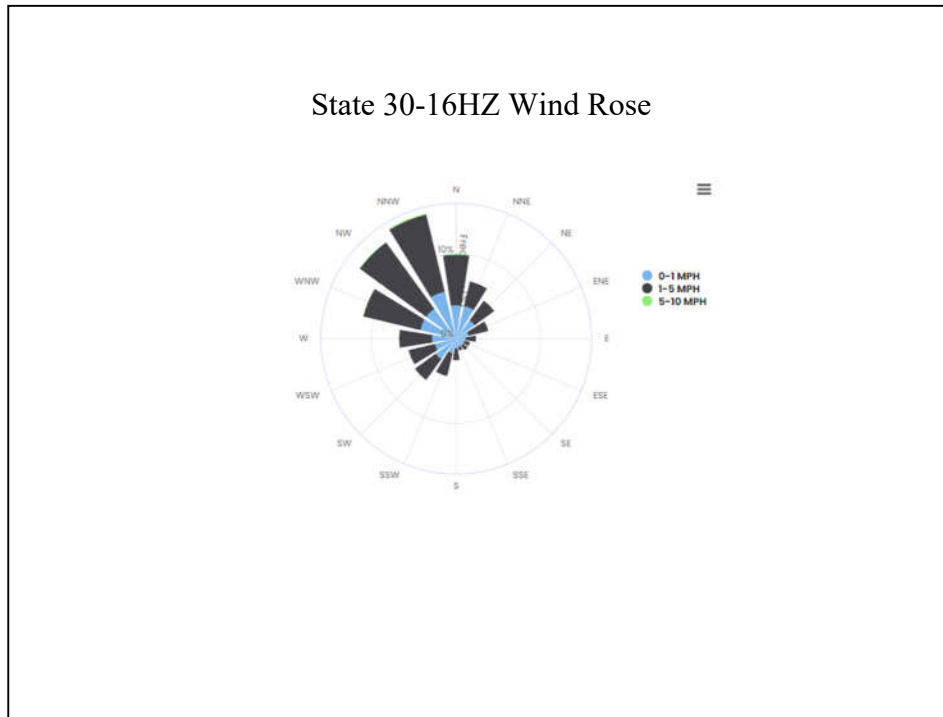


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-475</b>
Reporting Period:	<b>June 20, through June 26, 2023</b>
Report Date:	<b>June 27, 2023</b>

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<i>Contact Information .....</i>	<i>3</i>
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<i>Summary of Investigations and Response.....</i>	<i>5</i>
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<i>Figure 1 – State 30-16HZ VOC Data .....</i>	<i>7</i>
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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from June 20 through June 26, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on May 31, 2023 in accordance with the QAPP.

### Project Scope

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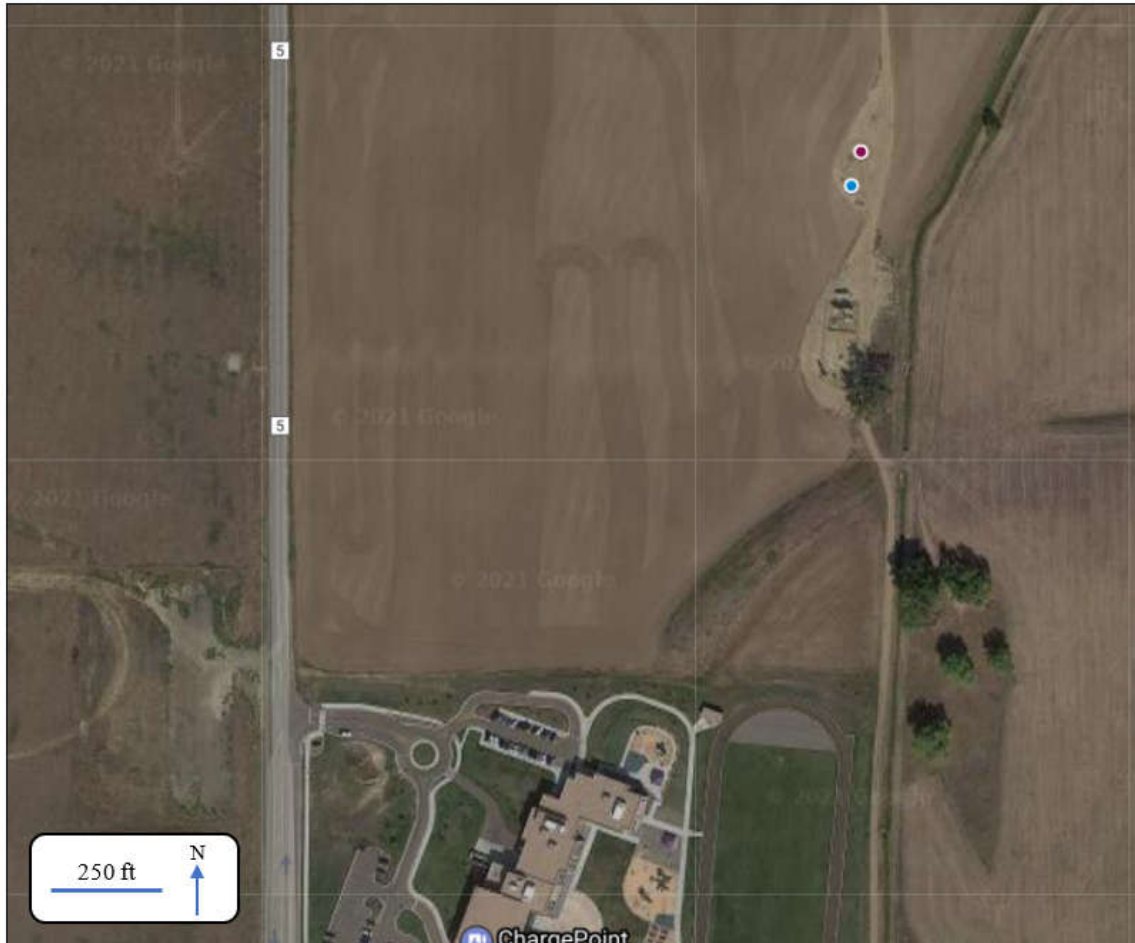
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Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

An IR inspection was conducted recently at the State Well 30-16 and no emissions were detected during the inspection.

### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

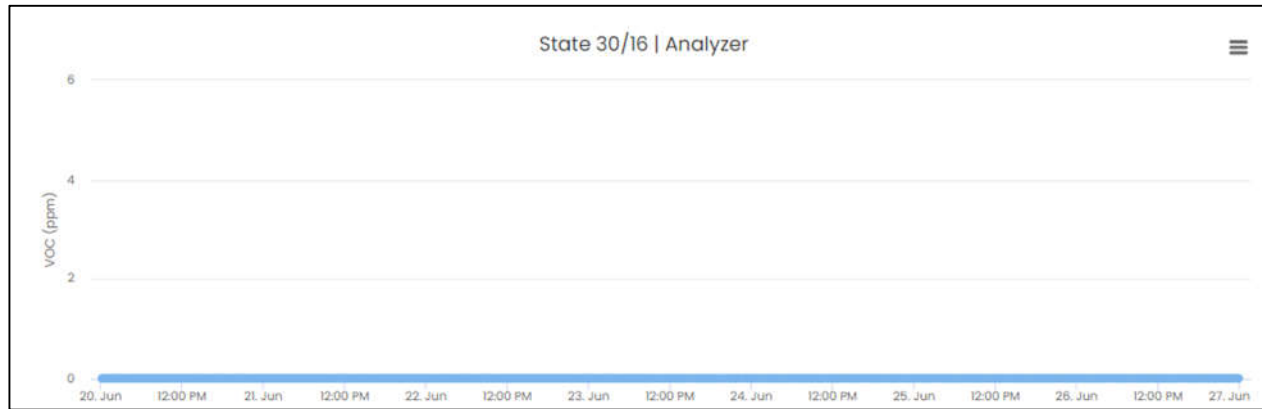
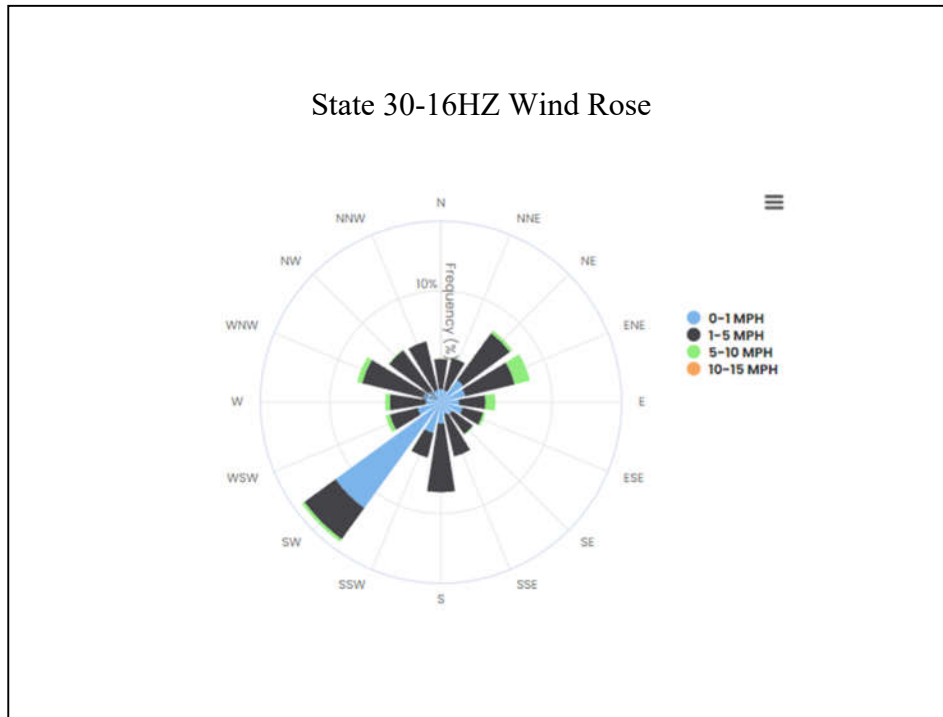


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-476</b>
Reporting Period:	<b>June 27, through July 3, 2023</b>
Report Date:	<b>July 4, 2023</b>

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<i>Sampling Locations for Monitoring.....</i>	<i>4</i>
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<b>SUMMARY OF RESULTS .....</b>	<b>7</b>
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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from June 27 through July 3, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

Operation and maintenance of the PID analyzer followed procedures in the Quality Assurance Project Plan (QAPP) provided in the Kerr-McGee Air Monitoring Program. The analyzer used in this monitoring program was last calibrated on May 31, 2023 in accordance with the QAPP.

### Project Scope

The PID analyzer used at the State 30-16HZ Pad (named “SPOD”) was manufactured by SENSIT. The sensor is solar powered and transmits data to the data platform via LTE cell technology. The data is 128-bit encrypted during transmission. One (1) sensor monitored for VOCs and meteorological parameters during the reporting period. All sampling was performed by Montrose.

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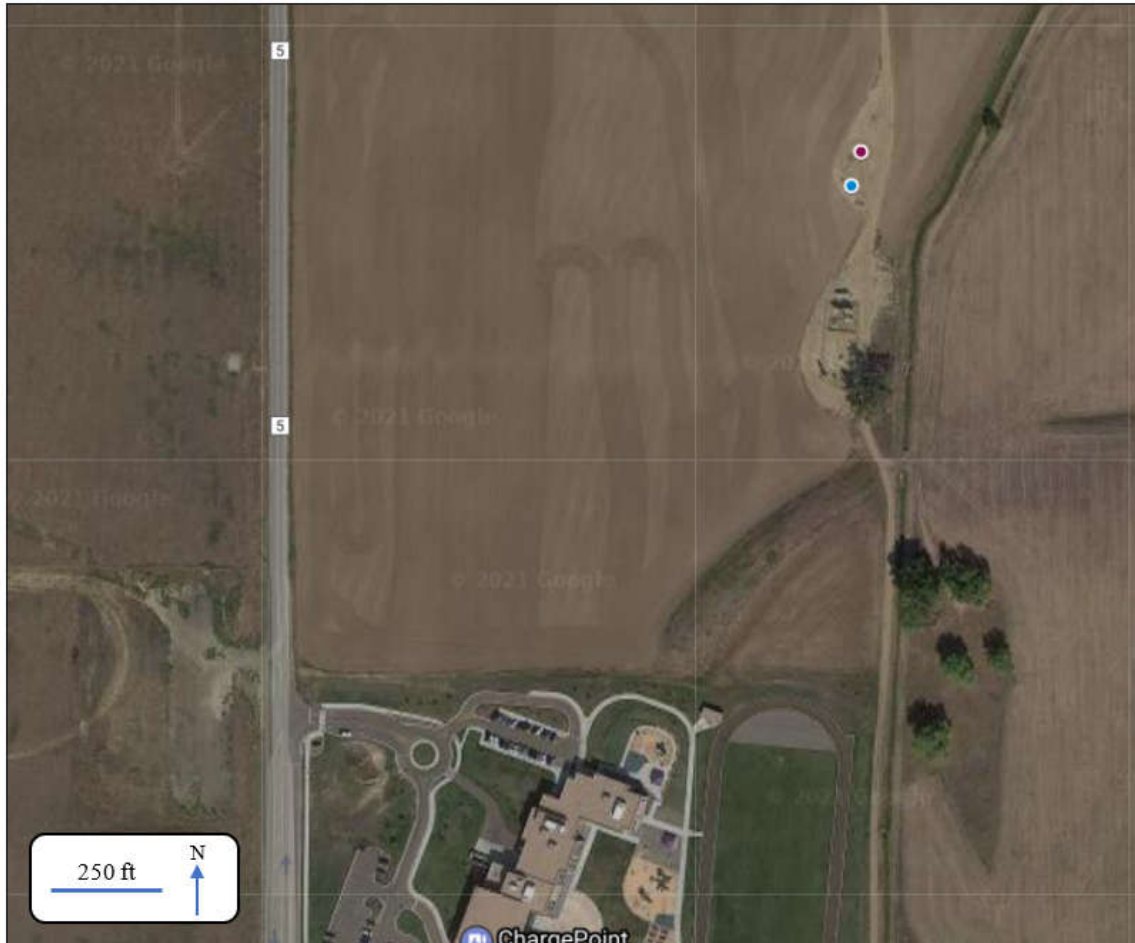
Oxy USA Inc.  
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**James Garrett**

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990 West 43<sup>rd</sup> Ave  
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### Sampling Locations for Monitoring

Sampling locations are labeled by ID on the map below.



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The PID Analyzer data recovery, which includes equipment malfunctions, during the reporting period are shown in the table below.

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The Kerr-McGee Air Monitoring Program establishes Investigation Levels for the continuous monitors. If an Investigation Level is triggered, the monitoring program outlines an Investigation Level Response for each level.

During this reporting period, there were no continuous monitor readings that exceeded an Investigation Level.

Investigation Level 3: No notifications to Town of Erie within forty-eight (48) hours of responsive action(s) taken as a result of recorded values in excess of the Investigation Level 3 were required.

### On-Site IR Inspections

Inspections are being conducted by the Oxy IR Team at the State Well 30-16 Pad using an optical gas imaging camera or more commonly referred to as an IR camera. The IR camera detects hydrocarbons, which includes methane, and volatile organic compound (VOC) emissions.

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### Discussion of Results

The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

Meteorological data, collected on the PID analyzer onsite, for the reporting period can be found in the Figure 2.

Prepared by:



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James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

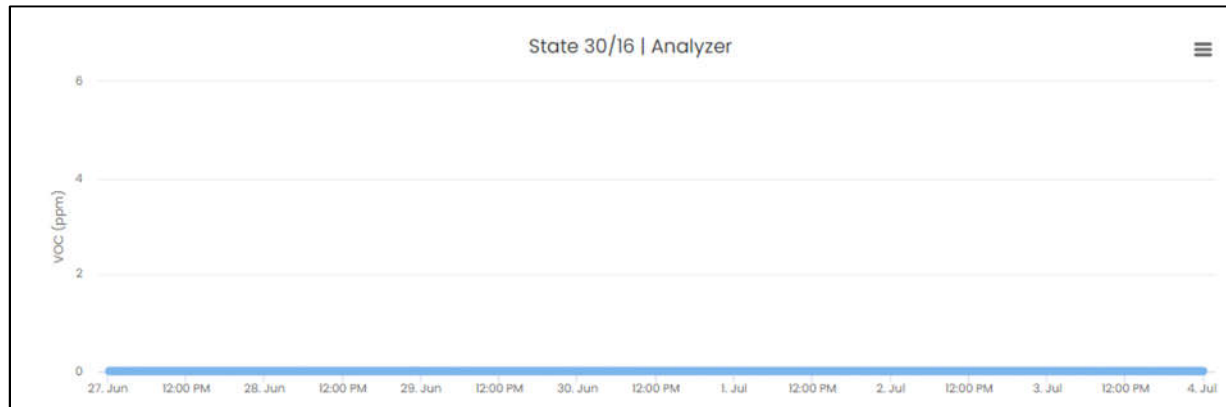
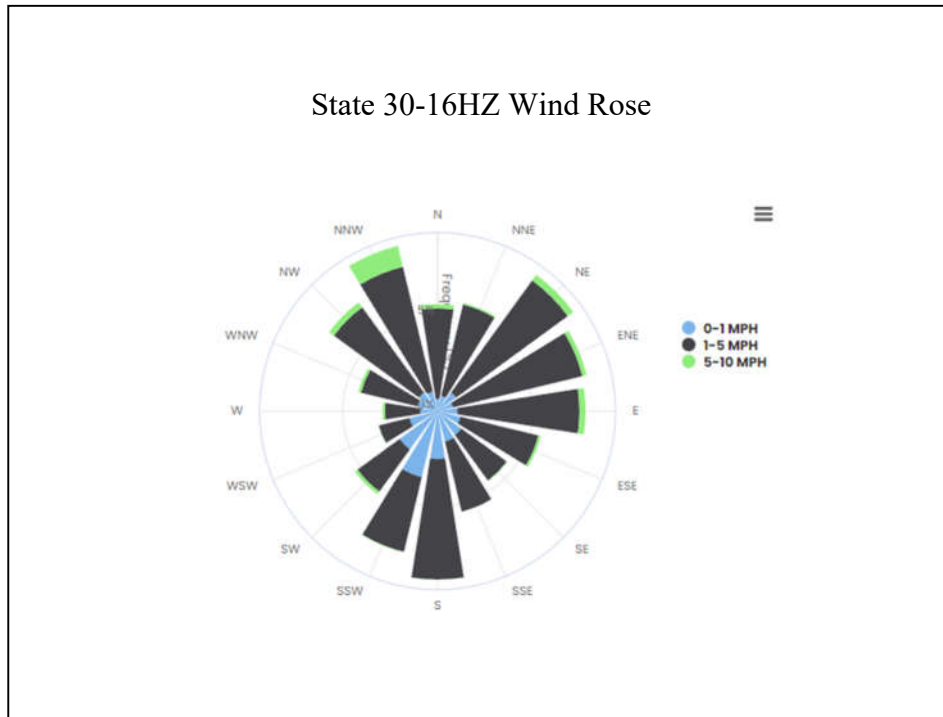


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.





**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

**Montrose Air Quality Services, LLC**  
990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number: **085AA-011280-RT-477**  
Reporting Period: **July 4, through July 10, 2023**  
Report Date: **July 11, 2023**

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## Project Overview

### Summary

Montrose Air Quality Services, LLC (Montrose) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct air monitoring at the State 30-16HZ Pad. This report covers the reporting period from July 4, through July 10, 2023. Facility monitoring commenced on September 10, 2021. Air Monitoring was conducted in accordance with applicable portions of the Kerr-McGee Air Monitoring Program that has been approved by Colorado Department Public Health and Environment (CDPHE). There were no readings from the continuous PID analyzers above the Investigation Levels.

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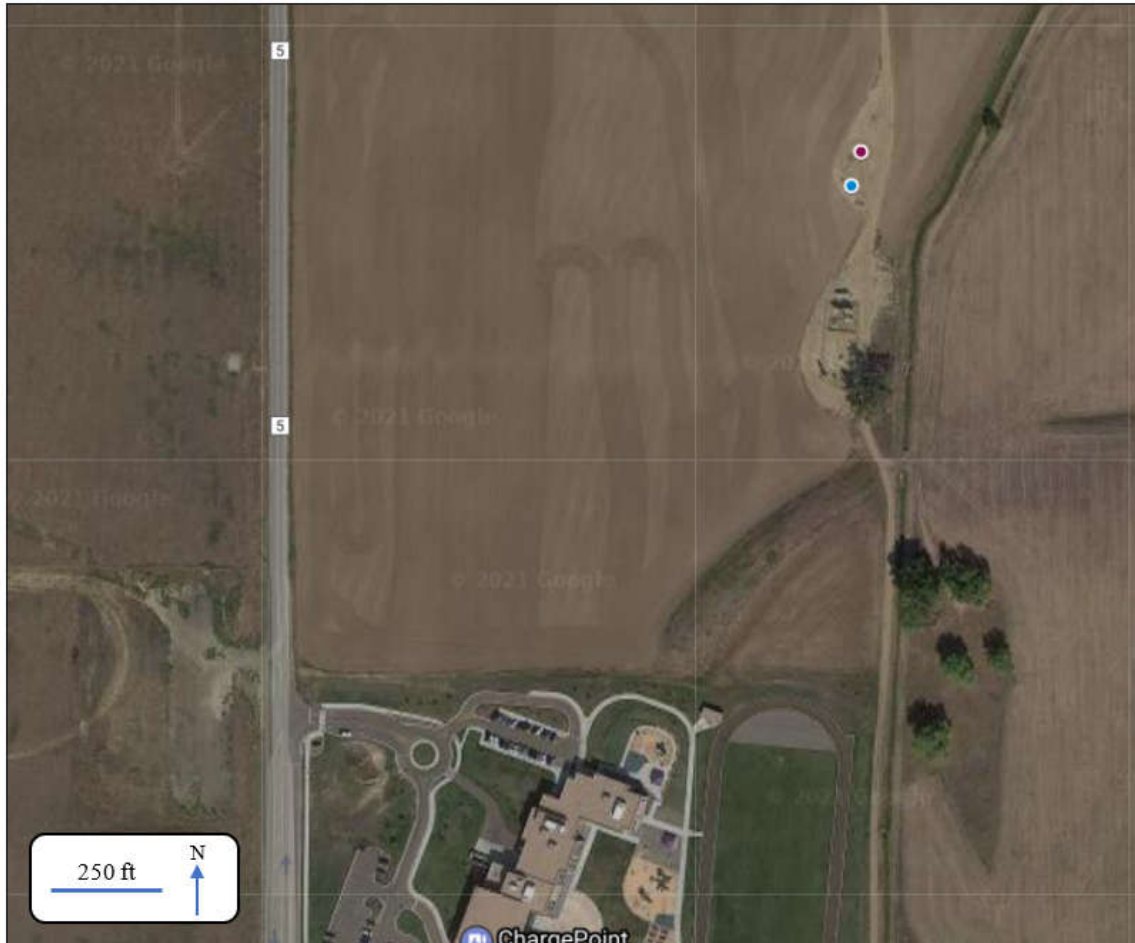
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The 15-minute block averages for the PID VOC results for the air sampling can be found in Figure 1.

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Prepared by:



---

James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

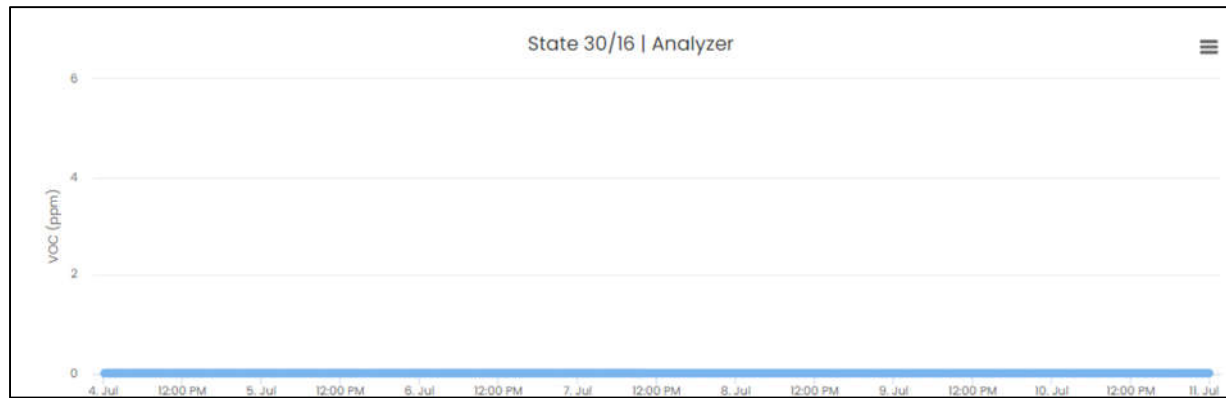
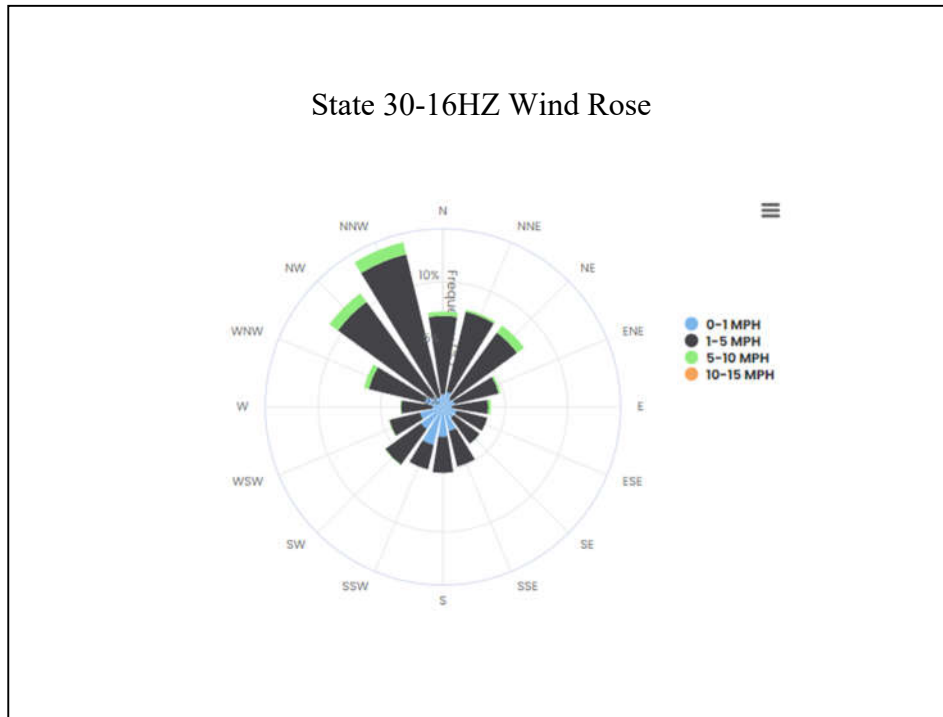


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**AMBIENT MONITORING REPORT  
STATE 30-16 PAD  
KERR-MCGEE OIL & GAS ONSHORE LP**

Prepared For:

**Kerr-McGee Oil & Gas Onshore LP**  
1099 18<sup>th</sup> St  
Denver, Colorado 80202

Prepared By:

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990 W. 43<sup>rd</sup> Avenue  
Denver, Colorado 80211

Document Number:	<b>085AA-011280-RT-478</b>
Reporting Period:	<b>July 11, through July 17, 2023</b>
Report Date:	<b>July 18, 2023</b>

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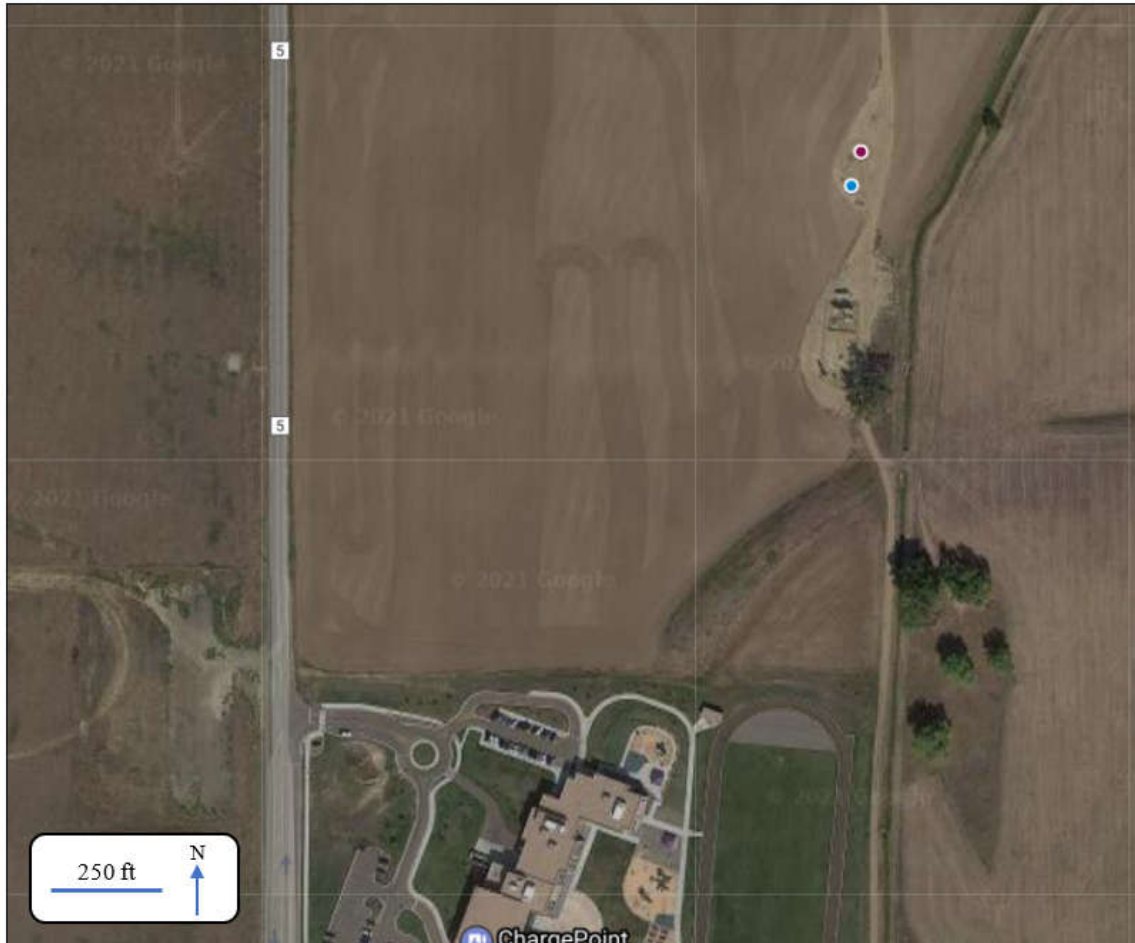
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<p><b>James Garrett</b> Montrose Air Quality Services, LLC 990 West 43<sup>rd</sup> Ave Denver, CO 80216 Phone: (303) 670-0530 E-mail: Jgarrett@Montrose-Env.com</p>
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Prepared by:



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James Garrett

## Summary of Results

**Figure 1 – State 30-16HZ VOC Data**

The graph below is shown for the PID Analyzer installed at the State 30-16HZ facility during the reporting period and is plotted with 15-minute averages.

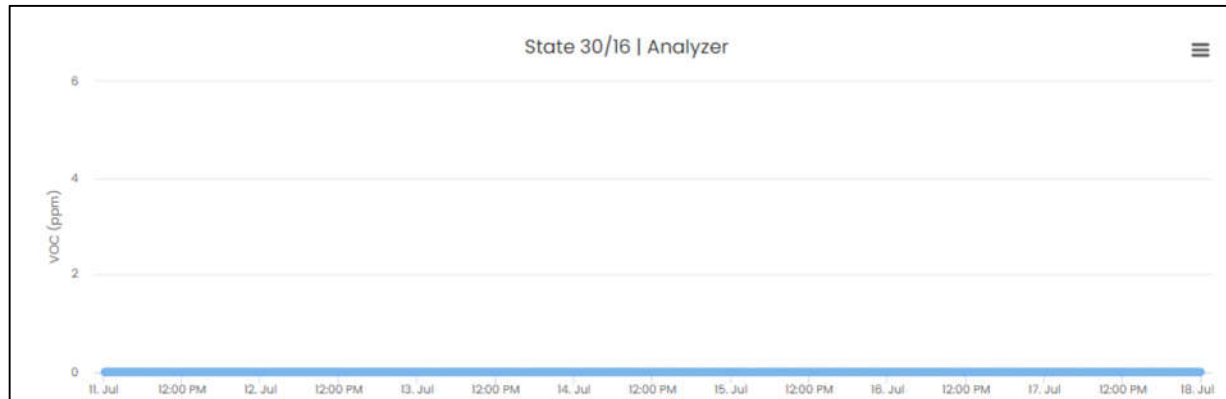


Figure 2 – State 30-16HZ Meteorological Data

The wind rose below is shown for State 30-16HZ facility and is plotted with 15-minute averages.

