2011 UPDATE TO AOC-65 SOIL VAPOR EXTRACTION OPERATIONS AND MAINTENANCE ASSESSMENT REPORT



Prepared for:

Camp Stanley Storage Activity Boerne, Texas

JANUARY 2011

AOC-65 SOIL VAPOR EXTRACTION OPERATIONS AND MAINTENANCE ASSESSMENT REPORT

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Contract Number W9126G-07-D-0028 Task Order DO50

JANUARY 2011

EXECUTIVE SUMMARY

Area of Concern (AOC)-65 is located in the Inner Cantonment of Camp Stanley Storage Activity (CSSA). AOC-65 is a known source area for a volatile organic compounds (VOC) groundwater contamination plume that has migrated off-post. To address this on-going source area in the underlying fractured bedrock, a soil vapor extraction (SVE) system was installed in 2002. In 2007, the SVE system was upgraded with new extraction wells, vapor monitoring wells, and blowers. This updated SVE system is comprised of four individual blowers and associated vapor extraction wells (VEWs) independently designated as the Building 90 Subslab, Building 90 Exterior, AOC-65 Deep, and AOC-65 Shallow subsystems.

This operations and maintenance (O&M) assessment report reviews the performance of the system for the approximately 2.5-year period between April 2008 and November 2010. This report presents the data associated with system operation, and presents recommendations to improve system performance and provide more accurate information for mass removal calculations.

Over the two and a half years covered by this O&M period, approximately 128.6 pounds (lb) (9.5 gallons) of tetrachloroethene (PCE) have been removed from the underlying limestone at AOC-65. The annualized mass removal rate (assuming the system could run 24 hours/day, 365 days/year) was estimated to be 134.59 lb/year (approximately 10 gallons/year) for the first year (April 2008 to April 2009) and 13.7 lb/year (approximately 1 gallon/year) for the second year (April 2009 to April 2010), and 12.4 lb/yr (approximately 0.9 gallon/year). All removal rate values are well below the permitted limit of 0.273 lb/hour or 2,395.77 lb/year. The significantly different values between year one and years two and three are due to several factors. The SVE system had been inactive for an extended period prior to 2008. When the system was turned back on in April 2008, it initially removed PCE that had accumulated during the inactive period. Between April 2009 and April 2010, weather conditions affected VOC recovery rates. First a drought resulted in much lower groundwater levels and generally lower VOC concentrations. The drought was followed by very wet conditions which caused the VEWs to become flooded, preventing removal of vapor.

Each subsystem contributed the following to the total mass removed:

- Sub-slab VEWs accounted for the removal of 75.82 lb (5.6 gallons);
- AOC-65 Shallow VEWs accounted for the removal of 30.42 lb (2.25 gallons);
- AOC-65 Deep VEWs accounted for the removal of 17.53 lb (1.3 gallons); and
- Exterior Building 90 VEWs accounted for the removal of 4.83 lb (0.36 gallons).

Recommendations for continuing SVE pilot study activities at AOC-65 include:

- Install in-line flow meters with vortex dampeners for more accurate flow rates;
- Install hours meters for more accurate operational times;
- Increase vacuum pressure on the more productive VEWs to improve overall subsystem removal rates; and
- Develop a Work Plan for a treatability study which would install a steam injection well near Building 90 to potentially enhance volatilization of contaminants. This

plan would also consider installation of dual-phase extraction wells or retrofitting existing VEWs for dual-phase extraction to address the problem of occasional flooding of the VEWs.

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ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
bgs	below ground surface
CO_2	Carbon Dioxide
CSSA	Camp Stanley Storage Activity
ft	feet
GAC	Granular activated carbon
lb	pounds
lb/hr	pounds per hour
lb/yr	pounds per year
O&M	operation and maintenance
O_2	Oxygen
Parsons	Parsons Infrastructure and Technology, Inc.
PBR	permit by rule
PCE	tetrachloroethylene
PID	photoionization detector
ppbV	parts per billion by volume
SVE	Soil Vapor Extraction
TCEQ	Texas Commission on Environmental Quality
TVH	Total Volatile Hydrocarbon
USEPA	U.S. Environmental Protection Agency
VEW	vapor extraction well
VMP	vapor monitoring point
VOC	volatile organic compounds

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CHAPTER 1 INTRODUCTION

This report summarizes operations and results for two and a half years of operation and maintenance (O&M) activities following the expansion of the soil vapor extraction (SVE) system at Area of Concern (AOC)-65. The O&M monitoring period described in this document was initiated on April 17, 2008 and performed through November 9, 2010. The monitoring activities performed were intended to maintain the operational status of the system and to collect data for evaluation of the system performance. Secondary objectives of the O&M period monitoring task included repair of any identified defect(s) in the SVE system(s) following the expansion and determination of vapor extraction well (VEW) connectivity to specific AOC-65 blowers. Recommendations for future SVE applications at the AOC-65 site (e.g., steamenhanced recovery) were developed based on the results of the SVE vacuum testing and from observations made during the O&M activities described in this report.

1.1 PURPOSE

This document was prepared as an assessment of the AOC-65 SVE operations. The purpose of this assessment is to evaluate and assess 30 months of system monitoring.

Activities performed during the operations and monitoring include:

- Monthly determination of soil vapor/emissions for the Sub-slab and Exterior systems on the eastern side of the site including:
 - o Five exterior Building 90 VEWs (VEWs 15, 16, 18, 28A, and 28B), and
 - o Both Building 90 blowers.
- Monthly determination of soil vapor emissions for the AOC65 Shallow and AOC65 Deep systems on the western side of the site including:
 - o Six shallow VEWs (VEWs 19, 20, 21, 23, 25, and 27),
 - o Six deep VEWs (VEWs 13, 14, 17, 22, 24, and 26), and
 - o Both deep and shallow blowers.
- Soil gas monitoring and data collection to determine vapor emissions and flow rates at specific VEWs;
- Twice monthly system checks of the equipment and piping network to adjust, repair, and replace components as needed to maintain the systems in good operating condition.
- Semi-annual collection of vapor samples from individual VEWs, blower intakes, and system exhausts.
- Vacuum testing of the sub-slab blower and associated response at individual VEWs, as well as individual blower and vapor monitoring point (VMP) response.

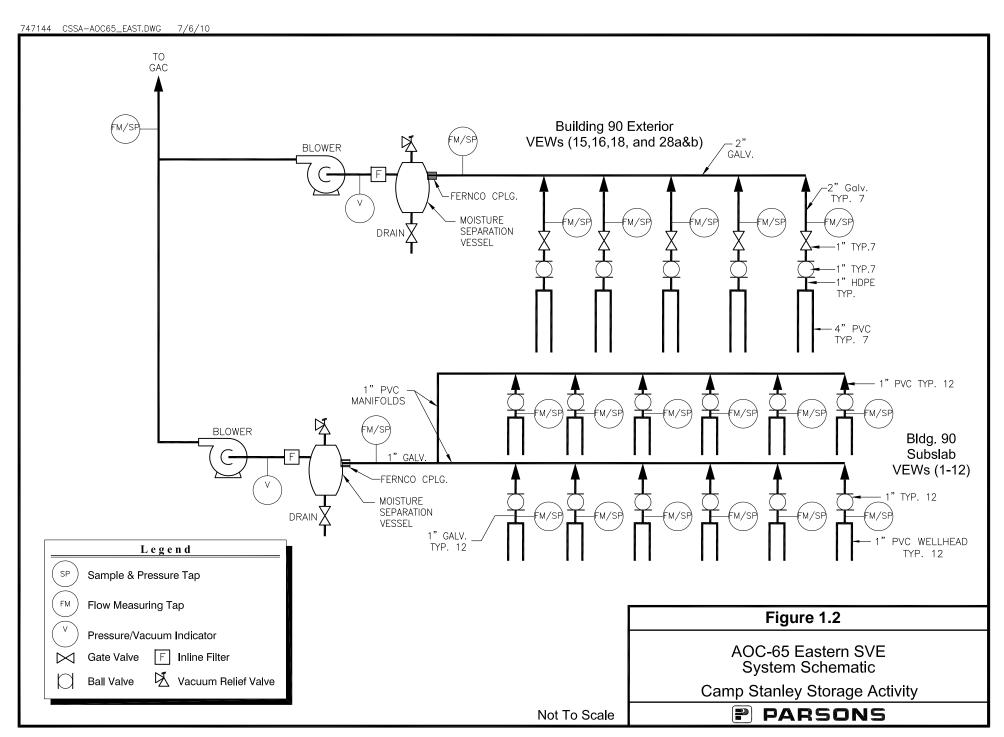
This report is an update to the AOC-65 Soil Vapor Extraction O&M Assessment report completed in July 2010. The July 2010 report covered the period from April 17, 2009 through April 8, 2010. This update adds the period from April 8, 2010 through November 9, 2010.

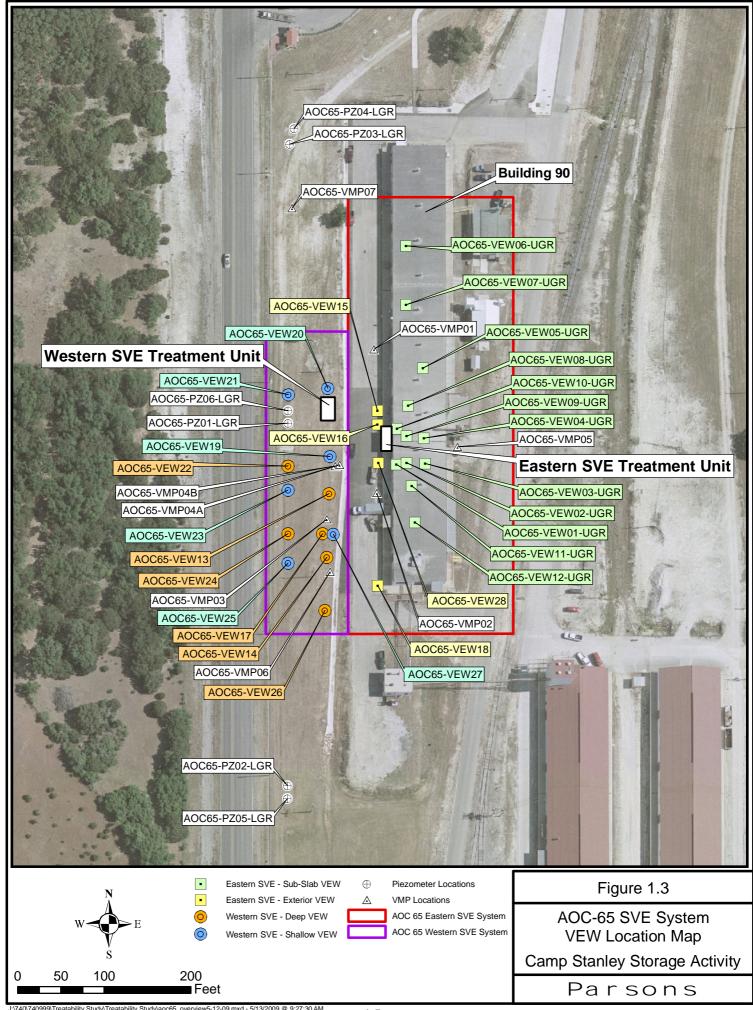
1.2 BACKGROUND

In 2002, Parsons Infrastructure and Technology Inc. (Parsons) installed seven VEWs on the west side of Building 90 (VEW 13 - 19), 12 VEWs beneath Building 90 (VEW 1 - 12), and two blowers as well as associated piping and equipment for the SVE system as part of an SVE pilot study. Results of this initial study and discussion of system construction and performance are provided in the *AOC-65 SVE Interim Treatability Test Report* (Parsons, 2005a). Following the initial study, a 6-month O&M study was conducted and the results are discussed in the *AOC-65 Soil Vapor Extraction Operations and Maintenance Report* (Parsons, 2005b). Additionally, a groundwater recharge study and a remedial technology evaluation at AOC-65 was conducted and documented in the *Treatment Evaluation Report for AOC-65 SVE* (Parsons, 2005c).

In 2007, Parsons added one deep-nested VEW cluster near the Building 90 west loading dock, four shallow VEWs, and three intermediate-depth VEWs west of the ditch at Building 90. The nested VEW cluster consists of two VEWs installed to depths of 125 and 180 feet (ft) below ground surface (bgs). The expanded SVE system at AOC-65 is organized into two separate subsystems: the Building 90 (or Eastern) system and the Western system. The Eastern - Building 90 system consists of a sub-slab blower which services VEWs 1, 2, 8, 9, 10, and 12 and an exterior blower which services VEWs 15, 16, 18, 28A, and 28B. The Western system consists of a deep blower, which services VEWs 13, 14, 17, 22, 24, and 26, and a shallow blower which services VEWs 19, 20, 21, 23, 25, and 27. Collectively, the VEWs and blowers are referred to as sub-slab, exterior, deep, or shallow VEWs and blowers. Schematic views and a plan view of the expanded SVE system is shown in Figure 1.1 through Figure 1.3.

This assessment report covers two and a half years of operation (April 2008 through November 2010) following the system expansion. This report is organized into five chapters, including this introduction. Chapter 2 describes methods and protocol employed to perform monitoring and data collection activities. Results and data evaluations from the monitoring activities are detailed in Chapter 3. Chapter 4 summarizes the significant findings, including sustained contaminant removal rates, and provides recommendations for future pilot study at AOC-65. References are included in Chapter 5.





CHAPTER 2 OPERATIONS AND MAINTENANCE TESTING PROTOCOLS

2.1 OVERVIEW

This chapter summarizes the SVE monitoring activities, following the system expansion in 2007. It covers O&M performed during the 31-month period from April 2008 to November 2010 at AOC-65. The primary activities associated with the O&M included bi-weekly and monthly monitoring of system performance, including system checks and flow adjustments as necessary; collection of emission and soil gas samples during periodic sampling events (baseline and semi annual); semi-annual analysis of extracted soil gas; a vacuum connectivity test; and general system maintenance. Monthly monitoring consisted of field screening of flow and pressure readings to determine if there were significant fluctuations in the key operating parameters and making any needed flow adjustments. Results from monitoring events are presented in Chapter 3. SVE condensate was managed through CSSA's Texas Pollutant Discharge Elimination System, permit number WQ0003849000, at Outfall 002 or as authorized by Texas Commission on Environmental Quality (TCEQ) Underground Injection Control permit, authorization number 5X2600431.

2.2 INITIAL SOIL GAS AND FLOW ADJUSTMENTS

Baseline monitoring was performed on April 17, 2008, prior to start up of the expanded SVE system. The system was shut down in March 2007 for the construction of the upgraded system and soil gas sampling was performed to acquire new baseline data at the beginning of the O&M period. Oxygen (O₂), carbon dioxide (CO₂), and VOCs were measured at each of the sample points. Field screening was performed at all VEWs using a GasTechTor Gas alarm (O₂/CO₂), Photovac 2020 Proplus photoionization detector [PID] (total volatile hydrocarbon [TVH]), Dwyer Series 471 Thermo-Anemometer (temperature and flow), and a Dwyer Series 477A Digital Manometer (vacuum). Samples were collected from the new wells outside Building 90 (VEW-28A and VEW-28B), new deep wells (VEWs 22, 24, 26), new shallow wells (VEWs 20, 21, 23, 25 and 27), and blower intakes for Volatile Organic Carbon (VOC) analysis by U.S. Environmental Protection Agency (USEPA) method TO-15. Monitoring data was used to assess operational performance and estimating emission levels from the SVE system to verify compliance with the associated TCEQ permit by rule (PBR) for regulating air emissions from the SVE blowers.

2.3 MONTHLY MONITORING

During the O&M assessment period, monthly system checks were conducted to assure that systems continued to operate and perform as intended. The system checks involved recording blower performance data on a log sheet, measurement of flow rates and vacuum pressures at each on-line and accessible VEW, and general inspection of the condition of the above-ground components of the system. Flow rates and temperatures are collected with a Dwyer series 471

Digital Thermo-Anemometer, and vacuum pressures are collected with a Dwyer series 477A digital Manometer. System inspection and performance monitoring data are included in Appendix A. Accumulated water in the moisture separator was drained from knockout tanks as necessary during each visit and managed as authorized by CSSA's Texas Pollutant Discharge Elimination System Permit and/or Underground Injection Control Permit.

Soil gas monitoring occurred on a regular basis, and was conducted concurrently with the monthly system check. The monthly soil gas monitoring visits included direct measurements of TVH, oxygen, and carbon dioxide in the individual flow streams and emissions from the main blower exhausts using Tedlar bags and field instruments. The schedule of activities completed during the 24-month O&M assessment period is presented in Table 2.1.

Table 2.1 Completed O&M Activities, AOC-65 SVE O&M Assessment

Date	Activity	Samples/Comments
April 17, 2008	Initial, background system check and sample event	Initial field readings and soil vapor sampling of all VEWs and intakes.
July 15, 2008	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
August 5, 2008	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
September 23, 2008	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
October 10, 2008	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
November 11, 2008	Monthly monitoring, semi-annual sampling	Field readings and soil vapor sampling from VEWs 13-28B and all four intakes
December 11, 2008	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
January 9, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
February 4, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
March 3, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
April 7, 2009	Monthly monitoring, semi-annual sampling	Field readings and soil vapor sampling from VEWs 13-28B and all four intakes
April 15, 2009	Connectivity Testing	Pressure-test each VEW, VMP, and blower combination
May 7, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
June 5, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
July 9, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
August 12, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes

Date	Activity	Samples/Comments
September 11, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
October 8, 2009	Monthly monitoring, semi-annual sampling	Field readings and soil vapor sampling from VEWs 13-28B and all four intakes
November 3, 2009	Monthly monitoring, System maintenance	Field readings from VEWs 13-28B, and all four intakes; Water levels in VEWs gauged
December 11, 2009	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
January 5, 2010	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
January 12, 2010	Carbon exchange	GAC for the Eastern SVE system recharged
February 9, 2010	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
March 19, 2010	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
April 8, 2010	Monthly monitoring, semi-annual sampling	Field readings and soil vapor sampling from VEWs 13-28B and all four intakes
May 5, 2010	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
June 15, 2010	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
July 6, 2010	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
August 10, 2010	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes
September 7, 2010	Monthly monitoring	System shut down for vapor intrusion sampling inside Building 90.
October 5, 2010	Pulse Testing	Pulse testing of VEWs -17 and -27, deep and shallow blowers. Limited system operation.
October, 2010	Monthly monitoring	System shut down for vapor intrusion sampling and pulse testing.
November 9, 2010	Monthly monitoring, semi-annual sampling	Field readings and soil vapor sampling from VEWs 13-28B and all four intakes

Note: Twice Monthly monitoring events are not included in table. Data from twice monthly monitoring events included collection of operational parameters (e.g., system operation status, knock-out tank levels, etc.).

2.4 SEMI – ANNUAL MONITORING

During the O&M period, soil gas samples were collected from the system and submitted for laboratory analysis on a semi-annual basis. These events occurred in November 2008, April 2009, October 2009, April 2010, and November 2010. Samples were collected from the selected sampling points (VEWs 20 through 28B), and all four intakes during each sampling event to allow for direct comparison of results. The baseline-sampling event was performed April 17, 2008. Semi-annual monitoring events were used to assess emissions from the system and to ensure compliance with permitted standards. All emissions and soil gas air samples submitted for analyses were tested for VOCs using USEPA Method TO-15. The CSSA Quality Assurance Project Plan was followed for sample collection and analysis. Field screening was accomplished

using a PID and oxygen/carbon dioxide meter. All sampling was done in accordance with the Sampling and Analysis Plan Addendum (Parsons, 2005d). Results from the emissions testing are discussed in Subchapter 3.3. Laboratory data packages are provided in Appendix B.

2.5 VACUUM CONNECTIVITY TEST

During the O&M period, a series of pressure tests were conducted to determine connectivity between blowers, and individual VEWs and VMPs via subsurface fractures. These pressure tests were conducted by turning on one blower, then systematically measuring the wellhead vacuum pressure at each VEW and VMP zone. All VEWs associated with the operating blower were left on. All VEWs not plumbed directly to the operating blower (with the exception of the VEW being pressure tested) were shut off at the manifold to maximize the vacuum response. Once the vacuum pressures at every VEW for a particular blower were measured individually, that blower was shut down and another was turned on along with its associated VEWs; the wellhead vacuum pressure testing was then repeated for those VEWs. Similarly, VMP pressures were measured for each screened zone for each blower.

For example, to test the connectivity of VEW-20 to the Eastern Sub-slab system, all the VEWs associated with the Western AOC-65 SVE systems (deep and shallow) and the Eastern Building 90 external VEWs were shut off at the manifolds and the blowers for those systems were shut off as well. VEW-20 remained open at the manifold and the Eastern Building 90 sub-slab blower and VEWs were open/on; the VEW-20 wellhead pressure was then measured.

A negative pressure response at a VEW that was not directly plumbed to an operating blower suggests that there may be a connection between that VEW and one of the VEWs directly associated with the operating blower through a fracture, solution-enhanced conduit, or, to a small extent, the matrix porosity. A positive response or a zero pressure differential indicates that the VEW tested is not connected to the operating blower.

2.6 CARBON EXCHANGE

The Eastern SVE system includes two blowers, one for the Building 90 sub-slab, and one for the Building 90 exterior VEWs. The exhaust from these two blowers is plumbed to a granular activated carbon (GAC) filtration unit designed to remove any volatiles prior to release into the atmosphere. Once the carbon becomes saturated, it no longer filters the exhaust efficiently. Vapor samples collected from the post-GAC sample port on October 8, 2009 confirmed that volatiles were detected in post-GAC air samples, and a carbon change-out was required. On January 12, 2010, scheduled maintenance was completed to remove the spent carbon from service. A carbon sample collected from the GAC, prior to change-out, indicated the spent carbon was a non-hazardous waste and was summarily recycled of off-post by Carbonair. At that time, the GAC was replenished with 1,000 pounds of fresh carbon, and returned to service. Subsequent sampling from the post-GAC sample port on April 8, 2010 revealed non-detects for volatiles. The spent media profile sheet and waste characterization analytical data for the spent carbon is located in Appendix C.

2.7 PULSE TESTING

During the latter part of the O&M period, a series of pulse tests were conducted to determine rebound. The SVE system was shut down August 23, 2010 to facilitate a vapor intrusion potential study inside Building 90. As a result of the system shut down, vapor phase contaminant concentrations increased in the subsurface. The pulse testing was conducted to determine how much these contaminant concentrations increased and how long it took to reach peak concentrations after the system is shut down for a prolonged period of time, turned back on and allowed to operate, and then shut down again.

Two VEWs and two blower intakes were included in the pulse testing. VOC concentrations were monitored at VEW-17 with a PID and CO₂ concentrations were continuously collected from two VEWs (VEW-17 and VEW-27) and the deep and shallow blower intakes from the Western AOC-65 SVE system. Each testing point (VEW or blower intake) was tested individually with the CO₂ meter. Pulse testing began with VEW-17 on October, 5, 2010 after the SVE system had been off for six weeks. The CO₂ meter was installed at the VEW-17 manifold, the system was started and allowed to run for 30 minutes and allowed to recover for an hour. After confirming that rebound was occurring at VEW-27 with the PID, the system was restarted and allowed to run overnight. The following morning the system was shut down, and after allowing the concentrations to rebound for almost two hours, the CO₂ meter was removed from VEW-17, the data downloaded, reinstalled in VEW-27, and the system was restarted. The system ran for an hour before it was shut down again followed by 30 minutes of rebound monitoring. The CO₂ meter was then installed at the blower intake for the shallow wells and the system was restarted and allowed to run over night. The following morning the system was shut down followed by three hours of rebound monitoring before the CO2 meter was removed from the blower intake for shallow wells and installed on the intake for deep wells. The system was then turned on. It was intended that the system continue to run for three hours, however, there were several power outages during the test over a 30 minute period. The resulting data is presented in section 3.5.

CHAPTER 3 SYSTEM OPERATIONAL MEASUREMENTS

This section summarizes results of 2.5 years of monthly monitoring and soil gas sampling during the O&M period following the system expansion (April 17, 2008 through November 9, 2010). Results were evaluated along with other periodic sample results from this O&M task, and from results obtained during the baseline activities of the SVE system to assess system performance. A brief evaluation of the O&M data and test results are included in this section.

3.1 SYSTEM OPERATIONAL MEASUREMENTS

Operation of the SVE system for the O&M assessment period began on April 17, 2008, with the baseline soil gas sampling. Airflow measurements and vacuum pressures were obtained at each functional VEW outside Building 90 to ensure that the settings established during the system adjustment were maintained. During the 30 months following system startup, personnel from Parsons performed system checks on an approximate twice-monthly schedule to ensure that continuous air extraction remained relatively uninterrupted, and that blower operating parameters remained stable. If any of the wells were non-functional due to maintenance or system operational issues, appropriate steps were taken to address the situation. Typical problems that render a VEW non-functional include: leaky well-head valves or high groundwater levels in the VEW covering the screened interval. These issues are addressed by replacing the well-head valve, or pumping groundwater from the VEW and managing the extracted groundwater as per CSSA's Texas Pollutant Discharge Elimination System Permit and/or Underground Injection Control Permit, respectively.

Extraction pressure and airflow velocity measurements at each VEW and blower was collected as specified in the SVE O&M Plan (Parsons, 2008b) and are presented in Table 3.1 and Table 3.2, respectively. Table 3.3 includes the suite of field parameter measurements collected at the four blower intakes and the two system exhausts. The first two months of scheduled operation the system remained shutdown due to electrical and mechanical malfunctions. Also, the blower for the shallow wells in the western AOC-65 system malfunctioned in November 2009, which required the blower to be rebuilt. Thus, the shallow wells on the western AOC-65 system were not in service from November 2009 through March 2010.

The pressures from deep VEWs had a tendency to decrease (increase in vacuum pressure) during the winter months, which may be due to condensation forming in the formation caused by temperature gradients and barometric pressure changes during the winter months. Monthly flow rates for both the Building 90 and AOC-65 systems varied widely throughout the O&M assessment period possibly indicating system instability, or inconsistent readings due to high vapor moisture in the extracted soil gas causing erratic readings of the thermal anemometer.

Table 3.1 Extraction Pressure Results from Monthly System Checks at Building 90 and Western AOC-65 SVE Systems (in. H₂O)

Building 90	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
exterior	4/17/2008	May-08	June-08	7/15/2008	8/5/2008	9/23/2009	10/7/2008	11/11/2008	12/11/2008	1/9/2009	2/4/2009	3/3/2009	4/7/2009
Building 90 Intake-EX	-18.4			-35.7	-33.4	-32.4	-35.7	-35.1	-35.6	-37.1	-33.7	-37.4	-36.7
VEW 15	NA			-32.7	-30.0	-26.7	-32.7	-31.9	-32.2	-32.9	-33.3	-34.2	-33.7
VEW 16	NA			-32.4	-29.4	-27.7	-32.3	-31.8	-31.6	-33.0	-32.2	-33.9	-33.7
VEW 18	-17.8			32.2	-28.8	-28.3	-32.4	-31.5	-33.0	-33.3	-32.5	-34.0	-33.2
VEW 28A	NA			-31.5	-27.1	-28.1	-31.8	-31.1	-28.5	-32.5	-31.1	-33.7	-33.1
VEW 28B	-17.5			-30.5	-25.8	-28.5	-31.8	-30.3	-31.2	-32.4	-30.2	-34.1	-33.2
interior													
Building 90 Intake-SS	-36.0			-36.5	-37.8	-32.8	-38.0	-43.9	-44.0	-44.3	-44.1	-44.1	-44.3
AOC-65	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
shallow wells	4/17/2008	May-08	June-08	7/15/2008	8/5/2008	9/23/2009	10/7/2008	11/11/2008	12/11/2008	1/9/2009	2/4/2009	3/3/2009	4/7/2009
AOC-65-Intake-SW	-34/-19.5*			-32.2	-32.9	-10.0	-37.2	-30.2	-32.7	-24.3	-24.2	-22.9	-24.3
VEW 19	-34/-17			-32.2	-32.7	-9.8	-35.3	-34.6	-31.9	-24.6	-23.3	-21.8	-23.3
VEW 20	-34.0			-32.2	-32.6	-9.8	-34.8	-30.7	-31.6	-24.8	-22.7	-21.6	-23.7
VEW 21	-34.0			-32.2	-32.6	-10.1	-34.8	-29.4	-31.5	-24.5	-23.1	-21.6	-23.1
VEW 23	-34.0			-32.2	-32.6	-10.0	-34.4	-30.3	-31.6	-23.4	-22.6	-21.5	-23.5
VEW 25	-34.0			-32.2	-32.6	-10.1	-33.8	-30.1	-31.3	-23.8	-22.3	-21.4	-23.7
VEW 27	-34.0			-32.2	-32.6	-10.0	-34.0	-30.3	-31.1	-23.5	-22.6	-21.5	-22.9
deep wells													
AOC-65-Intake-DW	-23.0			-30.6	-30.3	-29.2	-31.9	-32.9	-38.7	-39.1	-36.4	-37.8	-36.8
VEW 13	-23.0			-26.3	-26.2	-25.7	-27.6	-28.5	-34.1	-33.6	-33.1	-33.7	-32.8
VEW 14	-23.0			-26.1	-26.1	-25.7	-27.5	-28.3	-34.4	-32.2	-33.2	-33.4	-31.5
VEW 17	-23.0			-25.3	-25.3	-24.9	-27.0	-27.7	-33.1	-31.8	-33.2	-33.3	-32.2
VEW 22	-23.0			-25.0	-25.3	-24.7	-26.8	-27.3	-32.9	-32.8	-31.9	-33.4	-31.5
VEW 24	-23.0			-24.9	-25.3	-24.8	-26.6	-24.1	-32.2	-31.8	-30.9	-32.9	-32.4
VEW 26	-23.0			-25.3	-25.0	-24.6	-26.4	-26.8	-31.5	-34.2	-31.0	-33.0	-32.6

Notes: - The system was non-operational during November, 2009 due to abnormally high groundwater levels - Following the completion of VEW purging efforts, the AOC-65 shallow blower malfunctioned, requiring a rebuild of the blower

Table 3.1 (cont.) Extraction Pressure Results from Monthly System Checks at Building 90 and Western AOC-65 SVE Systems (in. H₂O)

Building 90	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24
exterior	5/7/2009	6/4/2009	7/2/2009	8/12/2009	9/11/2009	10/8/2009	Nov., 2009	12/11/2009	1/5/2010	2/9/2010	3/19/2010	4/8/2010
Building 90 Intake-EX	-35.6	-35.6	-33.4	-30.6	-32.9	-33.1		-33.7	-39.1	-44.3	-44.1	-43.6
VEW 15	-32.2	-32.2	-30.0	-26.4	-29.1	-28.8		-33.8	-35.6	-44.1	-44.1	-44.3
VEW 16	-32.2	-32.4	-28.6	-26.3	-28.7	-28.7		-33.3	-34.1	-44.1	-44.1	-44.1
VEW 18	-32.2	-32.0	-30.2	-25.4	-28.1	-28.3		-33.5	-34.6	-44.1	-44.1	-44.3
VEW 28A	-31.6	-31.4	-28.9	-24.2	-26.4	-26.8		-32.0	-33.3	-43.0	-44.1	-44.1
VEW 28B	-32.0	-31.8	-28.7	-24.4	-25.9	-26.1		-32.7	-33.4	-41.9	-44.1	-44.3
interior					·			-			-	
Building 90 Intake-SS	-44.1	-44.1	-44.1	-44.1	-44.1	-44.1			-44.4	-44.3	-42.3	-37.2
AOC-65	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24
shallow wells	5/7/2009	6/4/2009	7/2/2009	8/12/2009	9/11/2009	10/8/2009	Nov., 2009	12/11/2009	1/5/2010	2/9/2010	3/19/2010	4/8/2010
AOC-65-Intake-SW	-24.8	-32.1	-16.9	-24.1	-33.3	-34.5						-34.5
VEW 19	-24.2	-31.5	-16.5	-23.6	-32.2	-34.2						-34.9
VEW 20	-24.1	-29.5	-16.5	-23.4	-32.2	-32.5						-35.9
VEW 21	-24.1	-30.0	-16.5	-23.4	-32.2	-33.8						-35.4
VEW 23	-23.9	-29.8	-16.5	-23.4	-32.3	-33.5						-36.1
VEW 25	-23.8	-29.6	-16.4	-23.3	-32.1	-33.9						-35.6
VEW 27	-23.9	-29.5	-16.3	-23.3	-32.9	-33.7						-35.4
deep wells												
AOC-65-Intake-DW	-33.8	-33.7	-32.3	-33.2	-35.2	-35.6		-44.1	-42.8	-43.9	-39.5	-38.3
VEW 13	-29.6	-29.5	-28.3	-29.1	-31.1	-31.8		-39.8	-38.7	-38.6	-34.9	-34.3
VEW 14	-29.4	-29.4	-28.3	-29.0	-31.0	-31.4		-39.1	-38.9	-40.3	-34.6	-34.6
VEW 17	-28.9	-28.7	-27.5	-28.5	-30.3	-30.6		-38.4	-38.0	-37.1	-33.4	-32.2
VEW 22	-28.7	-28.7	-27.5	-28.3	-30.3	-30.6		-38.4	-36.3	-37.6	-34.1	-34.3
VEW 24	-28.5	-28.7	-27.5	-27.9	-30.0	-30.6		-39.7	-36.3	-37.5	-34.6	-33.7
VEW 26	-28.4	-28.5	-27.5	-28.1	-30.2	-30.5		-38.3	-37.6	-37.8	-32.6	-32.6

Notes: - The system was non-operational during November, 2009 due to abnormally high groundwater levels

⁻ Following the completion of VEW purging efforts, the AOC-65 shallow blower malfunctioned, requiring a rebuild of the blower

Table 3.1 (cont.) Extraction Pressure Results from Monthly System Checks at Building 90 and Western AOC-65 SVE Systems (in. H₂O)

Building 90	Month 25	Month 26	Month 27	Month 28	Month 29	Month 30	Month 31
exterior	5/11/2010	6/15/2010	7/6/2010	8/10/2010	9/7/2010	10/4/2010	11/9/2010
Building 90 Intake-EX	-44.1	-41.3	-41.6	-38.4			-44.1
VEW 15	-44.1	-40.6	-41.1	-38.2			-41.6
VEW 16	-44.1	-40.5	-40.7	-37.9			-43.3
VEW 18	-44.1	-40.9	-41.1	-38.2			-44.1
VEW 28A	-44.1	-40.9	-41.3	-37.6			-44.1
VEW 28B	-44.1	-40.7	-41.2	-37.6			-44.1
interior							
Building 90 Intake-SS	-35.4	-34.4	-31.5	-42.1			-38.6
AOC-65	Month 25	Month 26	Month 27	Month 28	Month 29	Month 30	Month 31
shallow wells	5/11/2010	6/15/2010	7/6/2010	8/10/2010	9/7/2010	10/4/2010	11/9/2010
AOC-65-Intake-SW	-35.1	-34.6	-33.1	-32.9			-37.1
VEW 19	-35.2	-35.3	-33.2	-32.8			-36.1
VEW 20	-35.3	-35.6	-33.1	-32.8			-35.7
VEW 21	-35.2	-35.2	-33.2	-32.9			-35.4
VEW 23	-35.3	-34.6	-33.3	-32.8			-35.7
VEW 25	-35.0	-34.5	-33.2	-32.9			-35.6
VEW 27	-35.2	-34.4	-33.3	-33.0			-35.9
deep wells							
AOC-65-Intake-DW	-34.8	-31.8	-33.1	-32.2			-35.9
VEW 13	-30.5	-28.3	-28.7	-28.3			-32.1
VEW 14	-30.3	-27.9	-28.4	-28.1			-31.8
VEW 17	-29.8	-27.5	-27.5	-27.2			-31.5
VEW 22	-29.5	-26.8	-27.1	-27.0			-31.1
VEW 24	-29.5	-26.8	-27.1	-27.1			-30.6
VEW 26	-29.4	-27.2	-26.9	-26.9			-30.6

Notes: - The system was turned off for vapor intrusion and pulse testing from August 23 through October 15, 2010

Table 3.2 SVE System Air Flow Rates (fpm)

Building 90	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
exterior	4/17/2008	May-08	June-08	7/15/2008	8/5/2008	9/23/2009	10/7/2008	11/11/2008	12/11/2008	1/9/2009	2/4/2009	3/3/2009	4/7/2009
Building 90 Intake-EX	1700			4850	5900	3375	3853	6662	5049	3337	2314	3675	5182
VEW 15	250			610	460	580	606	590	540	985	482	488	466
VEW 16	8250			1780	2200	3222	1242	3128	5589	2022	2272	963	1466
VEW 18	575			1112	900	1388	878	1046	2089	2837	602	329	2516
VEW 28A	825			2120	3900	4080	1520	3408	4398	1987	2203	1378	3335
VEW 28B	235			625	470	701	550	522	471	637	619	682	546
interior													
Building 90 Intake-SS	2200			10260	>15,000	13938	8612	6080	3531	6763	7904	13128	7581
AOC-65	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
shallow wells	4/17/2008	May-08	June-08	7/15/2008	8/5/2008	9/23/2009	10/7/2008	11/11/2008	12/11/2008	1/9/2009	2/4/2009	3/3/2009	4/7/2009
AOC-65-Intake-SW	1035			720	600	140	1098	1013	2532	4130	2452	3290	1980
VEW 19	505			634	575	280	942	10181	4411	614	1035	1254	1138
VEW 20	725			533	575	90	776	550	1587	375	404	365	449
VEW 21	665			480	530	130	738	510	574	425	316	454	534
VEW 23	670			543	600	111	736	963	743	1119	1149	865	649
VEW 25	725			534	560	160	598	588	2364	2308	942	1528	1501
VEW 27	695			526	590	130	971	638	787	519	384	510	449
deep wells													
AOC-65-Intake-DW	5250			7050	9500	4696	5730	5390	4884	8954	4730	5842	5360
VEW 13	2100			3350	4100	3780	2677	2188	8867	14793	7453	4468	1819
VEW 14	490			400	405	678	479	530	697	1010	594	587	632
VEW 17	1470			2290	2500	2088	1345	1362	4896	1902	1322	1404	1368
VEW 22	1360			1935	2250	1624	1208	1240	4374	2373	1036	1114	1428
VEW 24	465			395	410	568	644	468	709	606	621	585	694
VEW 26	1225			1420	1700	1488	1057	998	5101	10329	6619	7474	5976

Notes: - The system was non-operational during November, 2009 due to abnormally high groundwater levels

⁻ Following the completion of VEW purging efforts, the AOC-65 shallow blower malfunctioned, requiring a rebuild of the blower

Table 3.2 (cont.) SVE System Air Flow Rates (fpm)

Building 90	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24
exterior	5/7/2009	6/4/2009	7/9/2009	8/12/2009	9/11/2009	10/8/2009	Nov., 2009	12/11/2009	1/5/2010	2/9/2010	3/19/2010	4/8/2010
Building 90 Intake-EX	5618	3625	4984	5453	5554	6074		2879	1041	1108	1510	1507
VEW 15	2048	554	514	392	456	443		514	4276	710	585	775
VEW 16	2028	1168	1624	1246	1378	1856		1093	2214	925	1389	1404
VEW 18	971	556	800	1062	861	824		1011	1083	610	617	710
VEW 28A	2472	1708	2336	3069	2590	3218		2411	1498	637	690	744
VEW 28B	673	501	6042	1102	423	517		643	593	2021	663	1507
interior												
Building 90 Intake-SS	12176	9968	>15,000	>15,000	12603	3611			3195	2501	9544	3441
AOC-65	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24
shallow wells	5/7/2009	6/4/2009	7/9/2009	8/12/2009	9/11/2009	10/8/2009	Nov., 2009	12/11/2009	1/5/2010	2/9/2010	3/19/2010	4/8/2010
AOC-65-Intake-SW	2543	2317	2224	2504	726	479						555
VEW 19	681	881	605	1062	596	556						780
VEW 20	511	486	521	430	504	513						807
VEW 21	384	582	470	504	535	306						453
VEW 23	456	568	536	466	461	641						436
VEW 25	1347	2269	2719	1974	498	310						482
VEW 27	490	603	538	478	450	283						473
deep wells												
AOC-65-Intake-DW	6731	8159	6806	7324	5140	6440		2234	4682	2284	4041	4347
VEW 13	2880	4267	3167	3543	1963	2860		9073	4981	5231	4824	5618
VEW 14	534	431	654	620	486	476		2053	698	1403	10540	364
VEW 17	1839	2386	2465	2353	1201	1842		3199	4852	1821	1158	1206
VEW 22	1281	1508	1687	1410	822	1272		3062	462	1312	8808	4140
VEW 24	536	848	623	513	509	429		1424	2988	636	628	335
VEW 26	1136	1849	928	996	627	1356		905	645	754	4570	4347

Notes: - The system was non-operational during November, 2009 due to abnormally high groundwater levels

⁻ Following the completion of VEW purging efforts, the AOC-65 shallow blower malfunctioned, requiring a rebuild of the blower

Table 3.2 (cont.) SVE System Air Flow Rates (fpm)

Building 90	Month 25	Month 26	Month 27	Month 28	Month 29	Month 30	Month 31
exterior	5/11/2010	6/15/2010	7/6/2010	8/10/2010	9/7/2010	10/4/2010	11/9/2010
Building 90 Intake-EX	2,215	2,278	3,556	2,030			4,480
VEW 15	615	886	733	530			614
VEW 16	2,314	2,555	3,830	2,069			2,806
VEW 18	771	888	1,547	1,404			751
VEW 28A	664	741	590	556			556
VEW 28B	754	723	631	1,206			2,032
interior							
Building 90 Intake-SS	12,904	10,426	14,864	>15,000			7,540
AOC-65	Month 25	Month 26	Month 27	Month 28	Month 29	Month 30	Month 31
shallow wells	5/11/2010	6/15/2010	7/6/2010	8/10/2010	9/7/2010	10/4/2010	11/9/2010
AOC-65-Intake-SW	618	772	1,321	1,438			623
VEW 19	580	815	614	590			863
VEW 20	884	717	545	543			1,312
VEW 21	544	691	460	1,714			1,860
VEW 23	1,910	641	909	446			836
VEW 25	573	699	629	451			2,391
VEW 27	600	711	632	1,549			533
deep wells							
AOC-65-Intake-DW	6,736	7,527	8,943	7,051			5,234
VEW 13	2,491	4,310	4,289	3,704			2,789
VEW 14	541	466	401	370			637
VEW 17	1,703	2,389	2,775	2,195			1,385
VEW 22	1,022	1,818	1,803	1,398			1,161
VEW 24	440	455	332	365			582
VEW 26	1,006	1,571	1,276	1,065			1,941

Note: - The system was turned off for vapor intrusion and pulse testing from August 23 through October 15, 2010

 Table 3.3
 System Intake and Exhaust Field Parameter Summary

								WE	STERN AO	C-65 SVE	SYSTE	M								
		A(C65-INT	AKE-SV	V				A(C65-INT	AKE-DV	V				AOC	65-EXH	IAUST		
Date	Vacuum Pump Inlet (in. H2O)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	O2 (%)	C02 (%)	Vacuum Pump Inlet (in. H2O)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	O2 (%)	C02 (%)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	O2 (%)	C02 (%)
4/17/2008	33	-34/-19.5*	1,035	71.4	50.0	18.5	2.0	40	-23.0	5,250	68.3	5.4	15.5	3.5						
7/15/2008	33	-32.2	720	85.8	0.0	20.0	0.8	40	-30.6	7,050	86.1	0.0	16.5	3.75	2.5	12,000	152.9	0.0	17.0	3.75
8/5/2008	34	-32.9	600	89.5	0.0	19.5	0.8	40	-30.3	9,500	92.2	0.0	20.0	3.5	2.4	13,800	161.2	0.0	17.0	3.5
9/23/2009	10	-10.0	140	87.9	2.8	20.75	0.8	42	-29.2	4,696	86.8	0.0	18.0	3.0		>15000	141.2	0.0	20.0	2.5
10/7/2008	40	-37.2	1,098	74.1	0.0	20.5	0.9	42	-31.9	5,730	80.0	0.0	18.0	3.5	2.3	7,802	139.4	0.0	18.0	3.5
11/11/2008	30	-30.2	1,013	71.5	0.0	21.0	0.3	42	-32.9	5,390	71.7	0.0	18.9	3.25	3.5	11,161	135.3	0.0	19.0	3.0
12/11/2008	35	-32.7	2,532	60.2	0.0	21.0	0.25	50	-38.7	4,884	61.5	0.0	19.0	2.0	3.1	5,231	121.8	0.0	20.0	2.0
1/9/2009	32	-24.3	4,130	69.4	0.0	21.0	0.00	49	-39.1	8,954	69.2	0.0	18.0	2.5	3.5	10,227	135.1	0.0	18.5	2.25
2/4/2009	32	-24.2	2,452	62.5	1.9	21.0	0.00	46	-36.4	4,730	63.1	3.8	20.5	2.5	4.2	10,850	128.2	4.0	20.0	2.0
3/3/2009	24	-22.9	3,290	71.7	2.9	21.0	0.00	24	-37.8	5,842	68.5	3.2	19.25	2.5	3.5	10,571	127.9	3.0	19.9	1.8
4/7/2009	26	-24.3	1,980	70.3	3.1	21.0	0.25	48	-36.8	5,360	69.0	4.3	19.50	2.5	3.9	12,102	138.0	6.7	19.8	2.0
5/7/2009	26	-24.8	2,543	76.6	0.3	20.5	0.25	42	-33.8	6,731	77.5	0.0	19.50	2.5	3.5	11,937	136.5	0.0	19.0	2.0
6/4/2009	32	-32.1	2,317	80.4	0.0	20.0	0.25	44	-33.7	8,519	85.2	0.0	18.00	2.5	3.7	12,700	146.2	2.4	18.5	2.0
7/9/2009	0	-16.9	2,224	82.2		20.4	0.10	85	-32.2	6,806	87.6		18.20	2.5	4.0	12,106	143.2		18.8	2.1
8/12/2009	25	-24.1	2,504	91.3				44	-33.2	7,324	90.6				3.6	11,692	155.4			
9/11/2009	34	-33.3	726	75.3	0.0			45	-35.2	5,140	76.4	0.0			2.6	8,019	136.9	0.0		
10/8/2009	35	-34.5	479	79.5	539.0			45	-35.6	6,440	79.3	0.0			2.7	9,150	131.8	0.0		
Nov., 2009																				
12/11/2009								55	-44.1	9,073	46.2				86.0	1,788	86.1			
1/5/2010								57	-42.8	4,682	50.8	16.2			1.9	5,833	102.9	13.9		
2/9/2010								65	-43.9	2,284	44.0	28.2			1.5	2,078	88.3	36.6		
3/19/2010								50	-39.5	4,041	59.7	2.8			1.9	2,702	99.4	1.4		
4/8/2010	45	-34.5	555	67.8	6.6			50	-38.3	4,347	66.5	0.0			2.4	1,044	121.2	0.0		
5/11/2010	38	-35.1	618	79.5	7.2			44	-34.8	6,736	75.3	0.2			2.2	5,149	121.2	0.0		
6/15/2010	36	-34.6	772	89.5	14.8			40	-31.8	7,527	83.8	0.0			2.0	10,800	144.4	0.0		
7/6/2010	33	-33.1	1321	94.2	26.6			42	-33.1	8,943	87.9	2.7			2.4	7,942	145.2	3.1		
8/10/2010	34	-32.9	1438	99.3	0.0			43	-32.2	7,051	89.4	0.0			2.4	8,188	154.9	0.0		
9/7/2010																				
10/4/2010																				
11/9/2010	38	-37.1	623	68.5	6.7			45	-35.9	5,234	71.2	2.5			2.0	6,327	126.1	2.7		

Table 3.3 (cont.) System Intake and Exhaust Field Parameter Summary

	EASTERN AOC-65 SVE SYSTEM																			
			B90-INTA	KE-EX						B90-INTA	KE-SS					B90)-EXHA	UST		
Date	Vacuum Pump Inlet (in. H2O)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	O2 (%)	C02 (%)	Vacuum Pump Inlet (in. H2O)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	O2 (%)	C02 (%)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	O2 (%)	C02 (%)
4/17/2008	27	-18.4	1,700	66.5	3.1	14.0	2.5	55	-36.0	2,200	66.1	22.3	19.5	0.0						
7/15/2008	40	-35.7	4,850	85.8	0.0	19.0	2.5	60	-36.5	10,260	84.3	0.0	20.5	0.0	12.6	>15000	149.5	0.0	20.0	1.5
8/5/2008	40	-33.4	5,900	90.8	0.0	18.5	2.5	60	-37.8	>15,000	95.1	0.0	20.0	0.0	12.0	>15000	156.4	0.0	20.0	1.5
9/23/2009	40	-32.4	3,375	89.0	0.0	19.0	2.5	55	-32.8	13,938	86.8	0.0	21.0	0.25		>15000	150.7	0.0	20.0	1.3
10/7/2008	44	-35.7	3,853	76.4	0.0	18.8	2.5	60	-38.0	8,612	76.2	0.0	21.0	0.25	13.0	>15000	129.9	0.0	21.0	1.8
11/11/2008	44	-35.1	6,662	81.4	0.0	18.25	2.5	68	-43.9	6,080	84.9	0.0	20.0	0.25	0.1	9,592	108.8	0.0	19.0	1.5
12/11/2008	46	-35.6	5,049	64.0	0.0	19.25	2.0	74	-44.0	3,531	65.6	0.0	20.75	0.25	0.0	5,576	78.2	0.0	19.0	1.25
1/9/2009	40	-37.1	3,337	66.5	0.0	19.00	2.25	70	-44.3	6,763	72.4	0.0	21.00	0.00	11.3	2,322	109.3	0.0	20.0	1.25
2/4/2009	46	-33.7	2,314	53.4	4.0	20.50	1.25	78	-44.1	7,904	65.4	5.1	20.50	0.05	11.8	8,236	126.6	3.9	21.0	0.75
3/3/2009	44	-37.4	3,675	63.4	3.9	19.75	2.00	78	-44.1	13,128	64.3	6.2	21.00	0.25	10.8	14,454	133.8	5.1	20.0	1.5
4/7/2009	46	-36.7	5,182	70.6	5.3	19.50	2.1	72	-44.3	7,581	65.6	4.3	21.0	0.25	10.9	13,753	140.1	0.6	19.75	1.25
5/7/2009	44	-35.6	5,618	80.2	1.2	18.50	2.0	78	-44.1	12,176	81.1	0.7	19.0	0.10	0.1	4,093	111.9	4.0	19.0	2.0
6/4/2009	44	-35.6	3,625	76.9	2.6	19.00	2.0	76	-44.1	9,968	79.3	5.9	20.0	0.25	0.0	7,571	108.1	5.2	19.50	1.5
7/9/2009	39	-33.4	4,984	83.6		18.60	2.1	72	-44.1	>15,000	92.2		20.6	0.00	10.9	>15,000	141.3		19.30	2.1
8/12/2009	38	-30.6	5,453	87.6				72	-44.1	>15,000	90.8				12.3	14,138	146.4			
9/11/2009	38	-32.9	5,554	77.1	0.0			80	-44.1	>15,000	84.0	0.0			10.7	12,603	140.1	0.0		
10/8/2009	38	-33.1	6,074	81.3	0.0			78	-44.1	3,611	81.1	0.0			10.7	10,685	147.3	0.0		
Nov., 2009																				
12/11/2009	44	-33.7	2,879	48.7				78							10.6	6,334	112.4			
1/5/2010	47	-39.1	1,041	50.1	5.3			80	-44.4	3,195	51.4	8.7			10.2	8,917	118.2	7.0		
2/9/2010	50	-44.3	1,108	44.7	6.4			80	-44.3	2,501	47.8	5.4			8.2	9,085	116.7	6.6		
3/19/2010	52	44.1	1,510	61.3	0.0			65	-42.3	9,544	67.8	0.0			10.2	10,913	126.1	0.0		
4/8/2010	58	-43.6	1,507	60.9	0.0			60	-37.2	3,441	60.2	0.0			10.2	8,851	117.8	0.0		
5/11/2010	60	-44.1	2,215	78.2	0.0			56	-35.4	12,904	80.7	0.0			9.6	1,446	131.8	0.0		
6/15/2010	46	-41.3	2,278	83.1	0.0			52	-34.4	10,426	83.6	0.0			1.4	>15,000	148.2	0.0		
7/6/2010	50	-41.6	3,556	92.4	0.0			58	-31.5	14,864	90.3	1.3			10.0	14,946	154.2	0.0		
8/10/2010	50	-38.4	2,030	89.7	0.0			60	-42.1	>15,000	90.3	0.0			7.0	9,433	104.1	0.0		
9/7/2010																				
10/4/2010																				
11/9/2010	50	-44.1	4,480	69.4	1.9			60	-38.6	7,540	68.9	1.1			8.9	5,478	135.6	1.3		

^{*} first reading taken when deep wells had tripped off, 2nd reading taken when deep wells were turned back on

Notes: - The system was non-operational in November 2009 due to abnormally high groundwater levels

⁻ Following the completion of VEW purging efforts, the AOC-65 shallow blower failed, requiring a rebuild of the blower.

⁻ The system was shut down between August 23, and October 18, 2010 for vapor intrusion sampling and pulse testing.

3.2 SOIL GAS SCREENING RESULTS

Soil gas concentrations in each of the VEW monitoring points were measured using field instruments during the baseline and monthly monitoring events. Soil gas points were screened for oxygen, carbon dioxide, and TVH using field instruments. The PID used for TVH detection is calibrated using isobutylene, therefore PCE and TCE reading from the PID instrument may provide biased high results. However, because TCE makes up such a small fraction of the VOC content, it's unlikely that TCE contributes much to the PID derived values.

The TVH field screening results indicate a slight reduction in VOC concentrations in Western AOC-65 (deep and shallow) VEWs and blower intakes and a moderate reduction in VOC concentrations in the Building 90 sub-slab intake. TVH screening results at Building 90 exterior VEWs and blower intake did not indicate a significant change in concentrations through the O&M period. During the O&M period, the PID appeared to have technical difficulties resulting in non-detect TVH concentrations. Mineralization on the lamp window from moisture in soil vapors is one possible explanation for PID malfunction. TVH readings are screening data collected to assess the operational performance of each individual extraction well.

O₂ and CO₂ levels were obtained as part of the monthly monitoring activities at both Eastern and Western AOC-65 systems. These data are used to assess the potential degradation conditions that may exist within the underlying formation. Oxygen levels remained relatively constant for most VEWs in both systems throughout the O&M period with only minor deviations from atmospheric O₂ (20-21%). Average percent O₂ measured during the O&M period were 20.57, 19.09, 20.32, and 18.37% for the Building 90 sub-slab, Building 90 exterior (Eastern System), Western shallow wells, and Western deep wells, respectively. Carbon dioxide levels were generally low, averaging 1.91, 0.15, 0.56, and 2.88% during the O&M period for the Building 90 sub-slab, Building 90 exterior, Western shallow wells, and Western deep wells, respectively.

Monitoring for O_2 and CO_2 was dropped after no insight to the potential degradation conditions within the underlying formation could be reasonably deduced from the data collected for these parameters. Oxygen and CO_2 field screening results are presented in Table 3.4 and Table 3.5, respectively.

Table 3.4 O₂ Field Screening Summary (% vol.)

Building 90	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
exterior	4/17/2008	May-08	June-08	7/15/2008	8/5/2008	9/23/2009	10/7/2008	11/11/2008	12/11/2008	1/9/2009	2/4/2009	3/3/2009	4/7/2009	5/7/2009	6/4/2009	7/9/2009
Building 90 Intake-EX	14.0			19.0	18.5	19.0	18.8	18.25	19.25	19.0	20.50	19.75	19.5	18.5	19.0	18.6
VEW 15	13.5			20.0	20.5	20.5	19.5	19.5	20.5	21.0	21.0	21.0	20.75	19.0	20.0	20.3
VEW 16	12.5			19.0	19.0	19.5	19.5	19.5	20.5	19.5	21.0	20.75	20.75	19.25	19.0	19.4
VEW 18	18.0			17.0	17.5	18.0	18.5	18.5	*	20.5	20.5	*	20.0	18.8	19.0	18.4
VEW 28A	19.5			18.5	19.0	19.0	18.25	18.0	*	19.0	21.0	19.75	19.0	18.0	18.0	17.9
VEW 28B	12.5			20.0	20.0	20.0	19.0	19.0	*	18.5	21.0	19.75	20.0	18.5	18.8	18.9
interior																
Building 90 Intake-SS	19.5			20.5	20.0	21.0	21.0	20.0	20.75	21.0	20.5	21.0	21.0	19.0	20.0	20.6
AOC-65	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 12	Month 12	Month 12
shallow wells	4/17/2008	May-08	June-08	7/15/2008	8/5/2008	9/23/2009	10/7/2008	11/11/2008	12/11/2008	1/9/2009	2/4/2009	3/3/2009	4/7/2009	5/7/2009	6/4/2009	7/9/2009
AOC-65-Intake-SW	18.5			20.0	19.5	20.75	20.5	21.0	21.0	21.0	21.0	21.0	21.0	20.0	20.0	20.4
VEW 19	18.0			20.5	19.5	20.75	21.0	21.0	20.0	20.5	21.0	20.7	19.75	20.0	20.0	20.2
VEW 20	20.0			20.5	20.0	21.0	21.0	21.0	21.0	21.0	21.0	20.7	21.0	20.0	20.0	20.4
VEW 21	20.0			20.0	20.0	20.75	20.5	21.0	20.0	20.0	21.0	20.5	21.0	20.0	20.0	20.2
VEW 23	20.0			20.5	20.0	21.0	21.0	21.0	20.5	20.0	21.0	20.6	20.75	19.75	19.75	20.10
VEW 25	18.5			20.0	20.0	21.0	21.0	21.0	20.5	21.0	21.0	20.2	20.9	20.0	20.0	20.5
VEW 27	15.5			18.5	18.5	20.0	19.5	21.0	19.8	19.5	20.5	20.1	20.0	19.0	19.0	18.6
deep wells																
AOC-65-Intake-DW	15.5			16.5	20.0	18.0	18.0	18.9	19.0	18.0	20.5	19.25	19.5	18.0	18.0	18.2
VEW 13	16.0			17.0	17.5	19.0	17.0	18.5	19.5	18.0	20.0	20.1	19.5	18.0	18.0	18.1
VEW 14	18.5			19.0	19.0	20.0	18.5	19.0	19.0	19.0	21.0	19.5	19.75	19.0	19.0	19.1
VEW 17	15.5			17.5	17.5	20.0	18.5	19.3	19.0	18.0	20.0	20.2	19.75	18.25	18.25	18.50
VEW 22	15.5			16.5	17.0	18.5	17.5	18.4	19.3	17.5	20.5	19.5	19.25	18.0	18.0	17.8
VEW 24	15.5			16.5	16.5	17.5	17.0	18.0	18.0	18.0	19.5	20.0	19.75	18.50	18.50	18.40
VEW 26	16.0			16.0	16.0	18.0	17.5	18.0	19.0	17.0	19.5	20.0	19.25	18.0	18.0	17.8

Note: * indicates unable to sample due to condensation in the line

Note: The system was non-operational from May 22 through July 15, 2008

Table 3.5 CO₂ Field Screening Summary (% vol.)

Building 90	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
exterior	4/17/2008	May-08	June-08	7/15/2008	8/5/2008	9/23/2009	10/7/2008	11/11/2008	12/11/2008	1/9/2009	2/4/2009	3/3/2009	4/7/2009	5/7/2009	6/4/2009	7/9/2009
Building 90 Intake-EX	2.5			2.5	2.5	2.5	2.5	2.5	2.0	2.25	1.25	2.0	2.1	2.0	2.0	2.0
VEW 15	1.25			1.5	0.8	0.75	2.0	1.5	1.2	1.5	1.0	1.2	0.8	1.50	1.25	1.25
VEW 16	3.25			2.5	2.25	2.0	2.5	2.0	2.0	2.0	1.25	1.5	1.3	1.50	1.25	1.25
VEW 18	2.0			3.8	3.75	3.25	3.25	3.0	*	2.5	2.5	*	2.1	2.0	2.0	2.0
VEW 28A	0.8			2.25	2.0	2.0	2.25	2.5	*	2.0	1.0	2.5	2.5	2.5	2.0	2.0
VEW 28B	0.0			1.0	1.0	1.0	1.5	1.25	*	1.50	0.75	1.75	1.8	2.0	1.5	1.5
interior																
Building 90 Intake-SS	0.0			0.0	0.0	0.25	0.25	0.25	0.25	0.0	0.05	0.25	0.25	0.10	0.25	0.25
AOC-65	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15
shallow wells	4/17/2008	May-08	June-08	7/15/2008	8/5/2008	9/23/2009	10/7/2008	11/11/2008	12/11/2008	1/9/2009	2/4/2009	3/3/2009	4/7/2009	5/7/2009	6/4/2009	7/9/2009
AOC-65-Intake-SW	2.0			0.8	0.8	0.8	0.9	0.3	0.25	0.0	0.00	0.0	0.25	0.25	0.25	0.1
VEW 19	2.0			0.8	0.8	0.8	0.8	0.6	0.5	0.25	0.2	0.1	0.25	0.25	0.5	0.5
VEW 20	0.0			0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.25	0.25	0.0
VEW 21	0.5			0.5	0.5	0.5	0.8	0.25	0.25	0.25	0.40	0.25	0.3	0.5	0.5	0.3
VEW 23	0.0			0.0	0.0	0.2	0.25	0.2	0.15	0.00	0.0	0.2	0.25	0.25	0.25	0.3
VEW 25	1.25			0.0	0.0	0.2	0.9	0.25	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
VEW 27	4.0			3.5	2.5	2.0	2.1	1.75	1.0	1.0	1.0	0.9	1.1	1.25	1.5	2.1
deep wells						1										
AOC-65-Intake-DW	3.5			3.75	3.5	3.0	3.5	3.25	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
VEW 13	3.5			3.75	3.25	3.0	3.5	3.5	1.75	2.5	2.25	2.2	2.5	2.5	2.5	2.7
VEW 14	0.75			0.75	1.5	1.0	2.25	2.2	2.0	1.5	2.5	1.7	2.0	2.0	2.0	1.7
VEW 17	3.5			3.5	3.25	3.0	3.25	3.0	2.5	2.5	2.5	2.0	2.1	2.25	2.0	2.4
VEW 22	4.0			3.75	3.5	3.25	3.8	3.5	2.25	3.0	2.5	2.3	2.5	2.5	2.5	2.7
VEW 24	3.0			3.75	3.75	4.0	4.0	3.75	3.5	3.0	2.5	1.9	2.0	2.5	2.1	2.6
VEW 26	3.25			4.0	4.25	3.5	4.0	3.75	3.0	3.5	3.5	3.0	3.25	3.0	3.0	3.1

Note: * indicates unable to sample due to condensation in the line
Note: The system was non-operational from May 22 through July 15, 2008

3.3 SOIL GAS ANALYTICAL RESULTS

3.3.1 Soil Vapor Summary

Soil vapor samples were collected for analytical testing during the twelve months of O&M at AOC-65. Samples were collected on April 17, 2008, November 11, 2008 and April 7, 2009. Emission samples results are included in Table 3.6. Soil vapor samples were collected in-line from AOC-65 VEWs, and emission samples were collected from the blower intake at each of the four vacuum blower systems. Results of SVE samples collected during the monitoring period indicated that tetrachloroethylene (PCE) emissions constituted over 98% of the total VOC emitted from the AOC-65 SVE system. Therefore, discussions regarding contaminant removal however. are associated with PCE concentrations. trichloroethene rates cis-1.2-dichloroethene results are also included in Table 3.7.

Initial sample results (i.e., baseline) showed higher concentrations of VOC removed from the bedrock due to contaminant rebound during the SVE expansion efforts. During the SVE expansion efforts, the SVE system was not in operation for approximately 1 year (2007) which resulted in VOC accumulation in the underlying bedrock formation. PCE concentrations from subsequent semi-annual sampling events indicate decreasing concentrations at all VEWs and exhausts (blower intakes) after the first year of operation followed by a period of rebound at month 18, reduction at month 24, and rebound again at month 31. AOC-65 shallow VEWs showed the greatest fluctuations in PCE concentrations, most notably VEW-25, which had an initial concentration of 33,000 ppbv, only 47 ppbv after a year of system operation, followed by the greatest amount of rebound after the month 31 sampling event (6,200 ppbv). These fluctuations in concentrations are related to the system operations, specifically, how much time the system has been shut down throughout the year and/or how soon the sampling occurred after a prolonged system outage.

3.3.2 PCE Removal Rates and Quantities

PCE removal rates are calculated using flow data, vacuum pressures, data acquired from soil gas analyses, and system operational run-times. Included in Table 3.7 are the estimated removal rates, in pounds per year (lb/yr), calculated for each blower intake using the measured flow rate and vacuum pressure, and PCE concentrations from the semi-annual sampling events. All removal rates calculated are below the allowable levels specified by TCEQ PBR Number 71208 (Parsons, 2008a). Based on data collected from the emissions samples, the AOC-65 SVE system contaminant emissions were below PBR emission standards.

The sustainable removal rates for the AOC-65 systems estimated in Table 3.7 are low. These low removal rates may come from a variety of sources, including: long term operational down times, less available exposed screen intervals (due to high groundwater levels in the vadose zone), flow/vacuum data collection errors, uncertainty in system operational run-times, and slow volatilization rates within the bedrock formation. Western system PCE removal rates in shallow wells are estimated at 32.83 lb/yr during the first year and 2.34 lb/yr during the second year, and 3.75 lb/yr in the first six months of the third year of operations indicating diminishing returns. During the second year of operation, the Western system shallow well

blower was taken out of service for approximately five months for refurbishment, which detrimentally affects the overall efficiency of the system. Decreases in annualized removal rates are seen in each of the other systems as well. Lower removal rates may also be attributed to higher than normal groundwater elevations, most notably for systems with shallow VEWs. As water levels rise, VEW screens become submerged, thus reducing the available surface area from which soil vapors may be extracted.

Table 3.6 VOC Concentrations at AOC-65 VEWs and Exhaust

				Tetrachlo	roethene			Trichloroethene							cis -1,2-Dichloroethene						
	Building 90	Baseline	Month 7	Month 12	Month 18	Month 24	Month 31	Baseline	Month 7	Month 12	Month 18	Month 24	Month 31	Baseline	Month 7	Month 12	Month 18	Month 24	Month 31		
جۇ ₌	exterior	4/17/08	11/11/08	4/7/09	10/8/09	4/8/10	11/9/10	4/17/08	11/11/08	4/7/09	10/8/09	4/8/10	11/9/10	4/17/08	11/11/08	4/7/09	10/8/09	4/8/10	11/9/10		
OC ster	Building 90 Intake-EX	690	100	48	53	8.9 B	31 B	44	36	18	17	1.1	8.3 B	ND	ND	ND	ND	ND	ND		
< .≿	VEW 28A	380	200	89	68	5.7 B	170 B	62	69	28	15	1	2.5 B	ND	ND	ND	ND	ND	0.96 F		
stern SVE 5	VEW 28B	400	82	39	50	61 B	9.6 B	26	30	12	ND	10	51 B	ND	ND	ND	ND	ND	ND		
Se S	interior																				
_	Building 90 Intake-SS	11,000	ND	320	96	120 B	210 B	47	ND	ND	ND	ND	1.1 B	37	ND	ND	ND	ND	0.73 F		
	AOC-65	Baseline	Month 7	Month 12	Month 18	Month 24	Month 31	Baseline	Month 7	Month 12	Month 18	Month 24	Month 31	Baseline	Month 7	Month 12	Month 18	Month 24	Month 31		
	shallow wells	4/17/08	11/11/08	4/7/09	10/8/09	4/8/10	11/9/10	4/17/08	11/11/08	4/7/09	10/8/09	4/8/10	11/9/10	4/17/08	11/11/08	4/7/09	10/8/09	4/8/10	11/9/10		
E	AOC-65-Intake-SW	15,000	600	190	1,700	96	1,900	270	16	ND	37	15	56	280	14	ND	52	44	60		
ster	VEW 19	NS	NS	NS	NS	NS	1,800	NS	NS	NS	NS	NS	80	NS	NS	NS	NS	NS	100		
Sy	VEW 20	180	ND	24	100	15 B	210	10	23	31	20	78 B	28	ND	ND	16	16	50	19		
Œ	VEW 21	420	68	22	240	6.7 B	12	18	ND	ND	ND	6.9 B	5	ND	ND	ND	ND	0.85	0.87 F		
S	VEW 23	1,200	18	22	170	77 B	73	ND	ND	ND	ND	11	9.4	ND	ND	ND	ND	4.6	3		
-65	VEW 25	33,000	500	47	550	1,500 B	6,200	330	11	ND	11	37	150	110	ND	ND	ND	21	100		
8	VEW 27	35,000	3,100	1,800	4,200	5,700 B	2,400	140	19	14	28	42	20	ND	12	ND	27	28	11		
¥	deep wells																				
E	AOC-65-Intake-DW	1,500	60	58	170	51 B	69 B	60	ND	ND	ND	9.1 B	11 B	ND	ND	ND	ND	1.1	0.45 F		
/est	VEW 17	NS	NS	NS	NS	NS	78 B	NS	NS	NS	NS	NS	13 B	NS	NS	NS	NS	NS	0.50 F		
=	VEW 22	620	36	29	48	15 B	28 B	18	ND	ND	ND	3.1 B	4.0 B	ND	ND	ND	ND	ND	ND		
	VEW 24	3,000	84	18	66	NS	NS	150	14	ND	16	NS	NS	14	ND	ND	ND	NS	NS		
1	VEW 26	1,900	74	80	130	82 B	100 B	180	24	31	29	36 B	31 B	15	ND	ND	ND	3.4	2.5		

^{*} all concentrations are reported in ppbv

ND = concentrations were not detected between the MDL and RL

NS = VEW was not sampled during the semi-annual event

B = denotes contaminants identified in the laboratory blank

F = concentrations were detected above the MDL but below the RL

Table 3.7 Estimated PCE Removal Rates and Mass for VEWs and Blowers

		Calculated	d Annualized	d Removal I event (lb/yr	•	mi-annual	_	Annualized Rate (lb/yr)		Mass Removed (lbs)*			
	exterior	11/11/08	04/07/09	10/08/09	04/08/10	11/09/10	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3**	
Eastern AOC-65 System	Building 90 Intake-EX	5.48	2.83	1.71	1.36	0.83	4.16	1.41	0.83	3.47	1.08	0.27	
East AOC Syst	interior												
_ 、	Building 90 Intake-SS	146.22	14.93	8.53	2.32	6.06	80.58	6.52	6.06	67.28	6.52	2.02	
C	shallow wells												
Western AOC-65 System	AOC-65-Intake-SW	48.15	2.96	3.56	2.61	3.75	32.83	2.48	3.75	27.42	1.75	1.25	
Ves 4OC Syst	deep wells												
> \	AOC-65-Intake-DW	24.60	1.91	4.25	3.98	1.77	17.02	3.28	1.77	14.21	2.72	0.59	

^{*} Mass removed is calculated from average yearly removal rate and system operational time.

Activities prior to baseline event removed approximately 200 lb (14.77 gal) PCE $\,$

Total lbs removed 112.38 12.07 4.13
Total gal removed 8.30 0.89 0.30

 $[\]ensuremath{^{**}}\mbox{Year}$ 3 mass removed is based on the calculated removal rate from the 11-9-10 semi-annual event.

3.3.3 Air Emissions Summary

The total mass of contaminants removed by the SVE system during the O&M period was estimated using the average removal rates from the intakes at each blower (see Table 3.7). The annualized mass removal rate by the AOC-65 SVE system during the O&M period is estimated to be 134.59 lb/year (~10 gallon/yr) for the first year and 13.69 lb/yr (~1 gallon/yr) for the second year, and 12.40 lb/yr (0.9 gallon/yr) during the first half of the third year, which are well below the permitted limit of 0.268 lb/hr or 2,347.68 lb/year.

3.4 VACUUM CONNECTIVITY TEST RESULTS

Results of the vacuum connectivity test for the Building 90 sub-slab blower were entered into a 3-D modeling software package, RockWorks-version 2006, to generate a subsurface model of connectivity and thus establish areas (both lateral and vertical extent) within the bedrock that show a connection to the Sub-slab system. Figure 3.1 shows the lateral extent of modeled connectivity at AOC-65. Figure 3.2 shows modeled vacuum pressures in the subsurface. The model indicates a large, well-connected area near VMP-02 and VEW-28A approximately 80 to 120 feet bgs. Although no data were collected from the VEWs inside Building 90, this area should indicate negative pressures because the VEWs in Building 90 are directly connected to the sub-slab blower. VEWs that show a connection to the Sub-slab system indicate potential contaminant transfer pathways.

3.5 PULSE TESTING RESULTS

Results of the pulse Initial PID readings collected at the sample port on the VEW-17 manifold indicated VOC concentrations of approximately 85 ppm. During the six-month period following the semi-annual sampling event in April, 2010, the VOC concentrations at VEW-27 ranged between 2.0 and 27.3 ppm, indicating a substantial increase. The AOC-65 shallow blower was turned on, and VOC concentrations dropped precipitously to 0.0 ppm. The blower was allowed to run for thirty minutes and was again shut off. Following the shutdown, VOC concentration began to rebound within a minute, and was nearly back to the original concentration an hour later.

CO₂ concentrations may be considered an analog for VOC concentrations in that they also exhibit rebound and the CO₂ meter has the ability to continuously log data from a sample point. CO₂ concentrations were logged at the two VEWs and blower intakes. The CO₂ meter was initially installed at VEW-17 (which connected to the AOC-65 Deep Well blower) to log CO₂ concentrations while the system was turned on and off over a 21-hour period (figure 3.3). Then, the CO₂ meter was installed at VEW-27 (which is connected to the AOC-65 Shallow Well blower), and allowed to run for approximately two hours (figure 3.4). Similarly, the CO₂ meter was installed on the blower intakes for the deep and shallow AOC-65 SVE systems (figures 3.5, and 3.6, respectively).

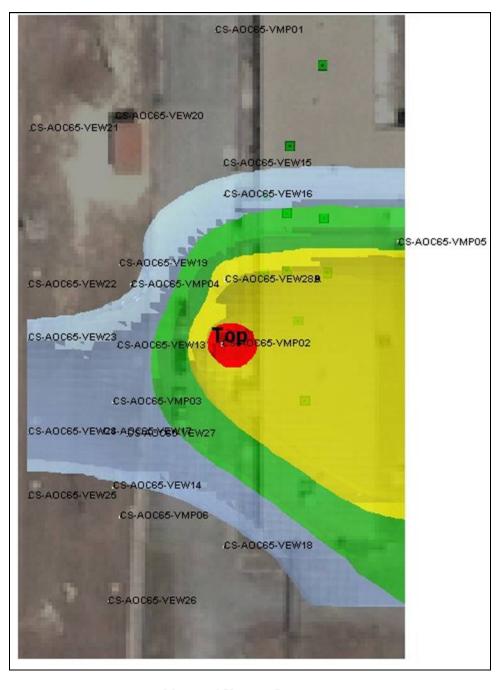
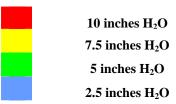


Figure 3.1 AOC-65 Lateral Connectivity Map

Measured Vacuum Pressure



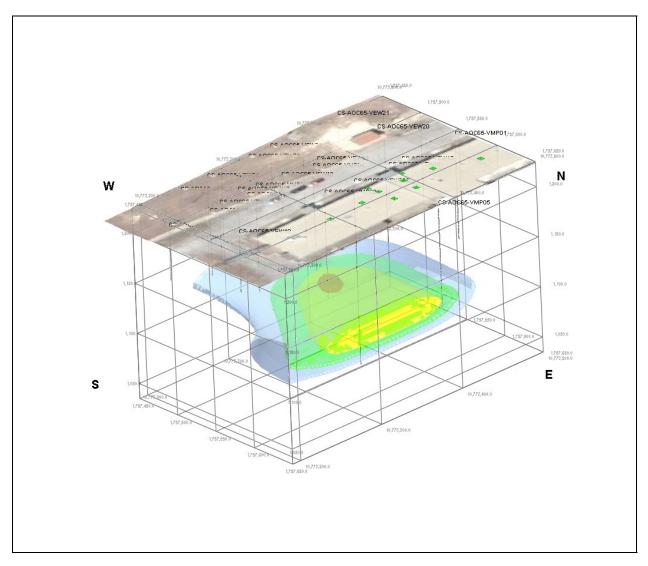
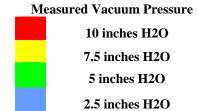


Figure 3.2 AOC-65 Connectivity Model



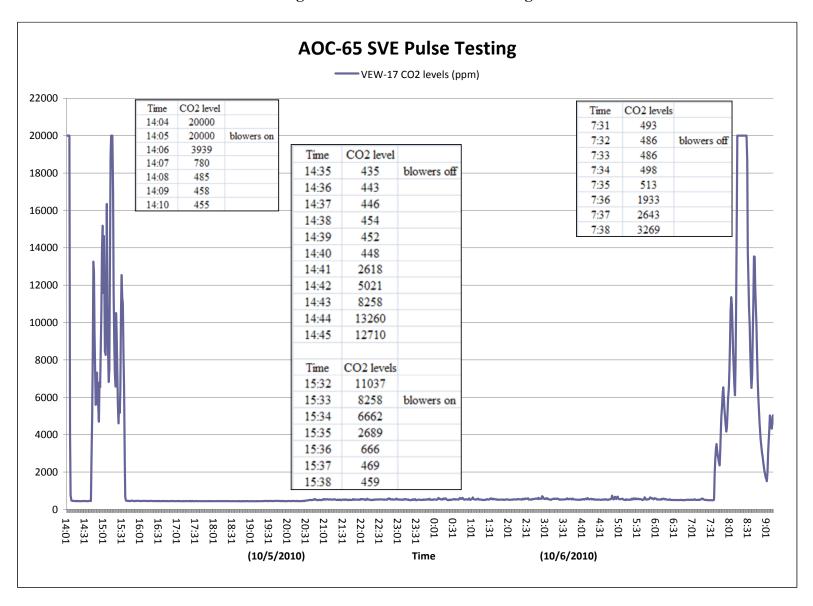


Figure 3.3 VEW-17 Pulse Testing

3-20 January 2011

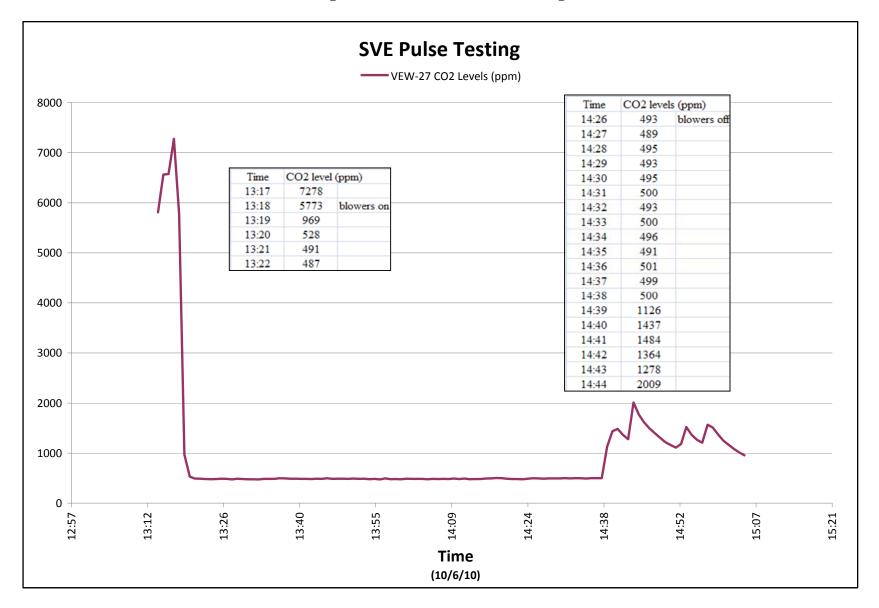


Figure 3.4 VEW-27 Pulse Testing

3-21 January 2011

AOC-65 Pulse Testing Intake Deep Wells CO2 Levels 25000 CO2 level Time 14:53 523 blowers off 14:54 526 14:55 541 544 14:56 20000 14:57 550 14:58 578 14:59 608 15:00 2148 15:01 2107 15:02 2409 15:03 3253 15000 15:04 4701 15:05 5568 15:06 6910 10000 5000 power outage 12:18 12:03 12:08 12:13 12:23 12:28 12:33 12:38 12:43 12:48 12:53 12:58 13:03 13:08 13:28 13:33 13:38 13:43 13:48 **Time** (10/7/2010)

Figure 3.5 AOC-65 Deep Well Blower Intake Pulse Testing

3-22 January 2011

AOC-65 Pulse Testing Intake Shallow Wells CO2 levels (ppm) Time CO2 level 7:47 646 blowers of 8000 648 7:48 7:49 649 7:50 642 7:51 644 7000 7:52 635 7:53 637 7:54 627 7:55 623 6000 7:56 622 7:57 624 7:58 613 7:59 610 8:00 607 5000 8:01 621 8:02 615 8:03 618 8:04 612 4000 8:05 614 8:06 613 8:07 623 8:08 611 3000 8:09 617 8:10 617 8:11 621 8:12 618 8:13 621 2000 8:14 626 8:15 852 8:16 1650 1000 19:40 20:10 20:40 21:10 21:40 22:10 22:40 23:10 23:40 1:10 1:40 2:10 2:40 3:10 3:40 4:10 5:10 5:40 4:40 **Time** (10/7/2010) (10/6/2010)

Figure 3.6 AOC-65 Shallow Well Blower Intake Pulse Testing

3-23 January 2011

CHAPTER 4 CONCLUSIONS AND RECOMMENDATIONS

There are several conclusions that can be drawn from the O&M activities performed at the AOC-65 SVE system. The testing activities demonstrated that SVE is an effective mechanism for removal of VOC contamination present in the area, although there appears to be room for improvement. The findings re-emphasize the importance of maintaining continuous extraction to maximize removal of VOCs. There were some initial difficulties with the SVE system and moisture content control. Once the moisture issues were recognized, the reliability of PID field measurements improved. System flow rates were somewhat variable, especially at the sub-slab intake, even though the vacuum on the system remained relatively constant.

During the 31 months of O&M operation of the SVE system at AOC-65, the removal of approximately 128.6 pounds (~ 9.5 gallons) of PCE, based on the yearly average removal rates and operational times for the individual blowers, was achieved. The following recommendations are provided for continuing pilot study activities at AOC-65:

- To estimate more accurate exhaust flow rates, new in-line flow meters with vortex dampeners are recommended.
- To improve removal rates, it is recommended that increased vacuum pressure be applied to the most productive VEWs.
- To enhance volatilization of contaminants and increase contaminant mass removal, it is recommended that steam injection be evaluated for areas of high contaminant concentrations, in particular; the area along the drainage ditch west of Building 90. Evaluation of steam injection should begin with preparation of a work plan which describes location and diameter of an injection well, details of how steam would be applied, points that would be monitored, dual-phase extraction wells (new or retrofitted), and other aspects of the steam injection study.

The overall conclusions for the AOC-65 SVE assessment period include:

- Approximately 128.6 lb (9.5 gallons) of PCE was removed from underlying limestone at AOC-65;
 - o Sub-slab VEWs accounted for 75.82 lb (5.6 gallons) of removed mass;
 - o AOC-65 shallow VEWs accounted for 30.42 lb (2.25 gallons) of removed mass;
 - o AOC-65 deep VEWs accounted for 17.52 lb (1.29 gallons) of removed mass;
 - o Exterior Building 90 VEWs accounted for 4.82 lb (0.36 gallons) of removed mass.
- The Building 90 Sub-slab system was more effective at removing PCE than the associated exterior extraction wells; and
- The Western shallow system was more effective at removing PCE than the Western deep system when groundwater levels were not affecting screen intervals.

CHAPTER 5 REFERENCES

Parsons, 2005a. Final AOC-65 Soil Vapor Extraction Interim Treatability Test Report. April 2005.

Parsons, 2005b. AOC-65 SVE Operations and Maintenance Assessment Report. March 2005.

Parsons, 2005c. Treatment Evaluation Report for AOC-65 SVE. April 2005.

Parsons, 2005d. Final Sampling and Analysis Plan Addendum. December 2005.

Parsons, 2008a. Permit By Rule Application for AOC-65 SVE Pilot Study Expansion. January 2008.

Parsons, 2008b. AOC-65 SVE Operations and Maintenance Plan Update. June 2008.

APPENDIX A

MONITORING AND PERFORMANCE FIELD DATA SHEETS

Date/Time	4.17.06		onitorina	Event (cir			H /K.	R:८९ ly / Quarterly €	Other bus	Ami	bient T (°F)
		777	Jintornig		fold Read		7 1001161	ny / Quarterly C	Wellhead	1	
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂	Analytic: Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments
						Shallow	Wells				
AOC65-VEW19	* 34/-17	505	71.5	57.2	18.0	2.6	/		- 25	1.	iding was tuken when t
AOC65-VEW20	- 34	725	71.7	1.5	20.0	0	1405	12379	- 31.0	reading	system tripped off, & is with deep wells o
AOC65-VEW21	- 34	665	71.9	0.9	20,0	0,5	1400	35596	- 31.8	a can	hear leaking at wellhe
AOC65-VEW23	- 34	670	71.7	5.5	20.0	0	1357	34598	- 31.5		
AOC65-VEW25	- 34	725	71.7	89.4	185	1,25	1355	31781	- 32		
AOC65-VEW27	- 34	695	72.3	102	15.5	4.0	1347	31785	- 32		
AOC65-INTAKE-SW	- 34/795	1035	71.4	50	18.5	2.0	1410	11830		intake	flow meter = O scF1
						Deep V	/ells			,	
AOC65-VEW13	-	2100	66.5	5.8	14.0	3.5			-1.1		
AOC65-VEW14	2:	490	72.1	5,3	18.5	0.75	/		-27.5		
AOC65-VEW17	-	1470	70,5	11.1	15.5	3.5			-13,9		
AOC65-VEW22	_	1366	70.5	3.1	15.5	4.0	1422	34104	-25.1		
AOC65-VEW24	- 23	465	70.6	4.2	15.5	3.0	1418	11897	-26.8		
AOC65-VEW26	- 23	1225	70.5	6.2	16.0	3.25	1415	34130	-24.4		
AOC65-INTAKE-DW	-	5250	68.3	5.4	15.5	3.5	1430	25 290		intuke	flow meter = 90 SCFM
390-EXHAUST	+										
Blower	System	Blow	er On	Intake i	ustment Pressure		isted ssure	Buildir Check	ng 90 VRV Lul	ре	Hours Meter
Information	Shallow	(Y)		3:	7	/	_	(Y)/N	Y /		
	Deep	W	/ N	4	٥	_		Ø/N	Y /	(N)	
Moisture Separator	System		ected		ptied	Amount (ga	Xfered als)	Observations/No	tes:		
Information	Shallow	(X)			/(N)	_					
n.H ₂ O: inches of water	Deep	fpm: feet pe		Y	ppm: parts r				um relief valve		psi: pounds per square inch

in.H2O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Date	/Time : 4-1	7.08/1000		toring Event		tor: 5.Ell.:0 Biweekly /		Quarterly Other	Buseline		Ambient T (°	°F)	_
					ead Reading	IS							
Monitoring	Vac	Flow	Temp °F	VOC	0 2	CO ₂		al Sample Collected				0004	
Point	in.H₂O	fpm		ppm	vol %	vol %	Time bslab Wells	Summa Canister #			Comment	S	
OC65-VEW1						34	DSIAD VVEIIS		T				
AOC65-VEW2	-												
AOC65-VEW3									OFFLINE				
OC65-VEW4									OFFLINE				
OC65-VEW5									OFFLINE			- 112 (1 (1)	
OC65-VEW6								Name and State	OFFLINE				
OC65-VEW7									OFFLINE				
AOC65-VEW8	-												
AOC65-VEW9	-												
AOC65-VEW10	-												
OC65-VEW11	-		The Part	The same		AT EUR			OFFLINE				
OC65-VEW12	-												
390-INTAKE-SS	- 36	2200	66.1	22,3	19.5	0	1455	34624					
				M-w/	teld Deadles		terior Wells		I Madilla and I				
Monitoring	Vac	Flow	Temp	VOC	fold Reading O 2	CO ₂	Analytic	al Sample Collected	Wellhead				
Point	(in. H 2 O)	fpm	°F	ррт	vol%	vol %	Time	Summa Canister#	(in. H 2 O)		Com	ments	
OC65-VEW15	_	250	65.6	2.2	13.5	1,25			. 0	well	head sample	port be	roke
OC65-VEW16		8250	66.5	33	12.5	3.25	/	/	- 2.0		7	1	
OC65-VEW18	-17.8	575	68.8	2.3	18.0	2.0			- 5,2				
10003-VEVV10	17.0	825	68.5	2.2	19.5	0.8	1440	31766	- 28.8				
OCCE VENIORA	-	700	00.		17:5		-						
	125		1.19	115	125	1	14-21	11787	27				
AOC65-VEW28B	- 17.5	235	67.8	4.5	12.5	0	1436	12383	. 30				
OC65-VEW28B	- 17. 5 - 18.4		67.8	3.1	12.5	2.5	1436	12383	. 30 ////////////////////////////////////				
OC65-VEW28B 90-INTAKE-EX		235		U2V 5-5				34/06					
OC65-VEW28B 90-INTAKE-EX	- 18.4	235		3.1				34/06	- 30 - 19 90 VRV				
OC65-VEW28B 90-INTAKE-EX 90-EXHAUST Blower		235		3. / Pre Adj	14.0	2.5		34/06			Hours Meter		
OC65-VEW28B 90-INTAKE-EX 90-EXHAUST	- 18.4	235 1700 Blow	/ N	3. / Pre Adj	14.0 ustment	2.5	1450	34/00 Buildir Check	lig 90 VRV	D .	63739		
OC65-VEW28B 90-INTAKE-EX 90-EXHAUST Blower	+ System	235 1700 Blow	66.5 ver On	Pre Adj	14.0 ustment ssure Gauge	2.5	1450	Buildir Check	Lube Y /(1	D .			
90-INTAKE-EX 90-EXHAUST Blower Information	+ System Subslab	235 1700 Blow	/ N / N	Pre Adj Intake Pres 55	14.0 ustment ssure Gauge	Adjusted 40	1450 Pressure	34/00 Buildir Check	Lube Y /(1	D .	63739		
90-INTAKE-EX 90-EXHAUST Blower Information Moisture Separator	+ System Subslab Exterior	235 700 Blow Y)	ver On / N / N ected	Pre Adj Intake Pres 55	ustment ssure Gauge	Adjusted 40	1450	Buildir Check	Lube Y /(1	D .	63739		
Information Moisture	+ System Subslab Exterior System	235 700 Blow Y)	ver On / N / N ected	Pre Adj Intake Pres 55 2 = Em	14.0 ustment ssure Gauge	Adjusted 40	1450 Pressure	Buildir Check	Lube Y /(1	D .	63739		

Date/	Time : 5.5	-08/090) Monit	oring Event	circle one):[r:5.616 Biweekly/	と十 Monthly /	Quarterly / Other_		Ambient T (°F)	
					ead Readings			992 9 72 81 7 8			
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂	Analytic Time	al Sample Collected Summa Canister #		Comments	
7 0		· · ·		PP		200000000000000000000000000000000000000	slab Wells				
AOC65-VEW1	-										
AOC65-VEW2	_										
AOC65-VEW3			A HEART						OFFLINE		THE ST
AOC65-VEW4	-			7					OFFLINE		
AOC65-VEW5									OFFLINE	SERVICE OF SERVICE SERVICES	
AOC65-VEW6		a name							OFFLINE		
AOC65-VEW7				Right Co.					OFFLINE		A Di
AOC65-VEW8	-										
AOC65-VEW9	-										
AOC65-VEW10	-										
AOC65-VEW11	-								OFFLINE		
AOC65-VEW12	-										
B90-INTAKE-SS	-										
				Monif	old Readings		erior Wells		Wellhead		
Monitoring	Vac	Flow	Temp	VOC	O ₂	CO ₂	Analytic	al Sample Collected	Vac		
Point	(in. H 2 O)	fpm	°F	ppm	vol %	vol%	Time	Summa Canister #	(in. H 2 O)	Comments	
AOC65-VEW15	-		-						M-I		
AOC65-VEW16	-								-		
AOC65-VEW18	-										
AOC65-VEW28A	-										
AOC65-VEW28B	2								-		
B90-INTAKE-EX	-										
B90-EXHAUST											
Bao-Extrador				Pre Adju	ustment			-Bulldin	g 90 VRV		
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	(3)	/ N	59		2		· Y/N	Y / N	63 739	
	Exterior	(3)	/ N	40		8		∅ / N	Y (N)	41332	
Moisture	System	Insp	ected	Emi	ptied	Amount (ga		Observations/Note	s:		
Separator Information	Subslab		/ N		10	8					
miormation	Exterior		/ N	Y	/ (N)	8					

Date/Time	: 5/5/08	Monitoring Event (circle one); (Biweekly) Monthly Quarterly Other Manifold Readings Wellhead Wac H ₂ O Flow Fpm VOC O ₂ CO ₂ Analytical Sample Collected Vac Imme Summa Canister # Intake flow meter (State of the collected Intake Flow Foresure Intake Flow Fressure Intake Flow Fressure Analytical Intake Flow Fressure Analytical Intake Flow Fressure Analytical Intake Flow Fressure Analytical Amount Xfered Inspected Emptied (gals) (gals)	bient T (°F)								
	Vac Flow fpm				rcle one):	Biweekly) Month	ly / Quarterly / (
Monitoring Point	100000000000000000000000000000000000000	6 225		voc	0 2	CO ₂			Vac		Comments
Foint	111.1120	ipiii		ppiii	VOI 76		On Francisco	Summa Camster #	111.1120		Comments
A C C C C V T VA V C											
AOC65-VEW19	-				-			2	-		
AOC65-VEW20	-								-		
AOC65-VEW21	=								-		
AOC65-VEW23	-								-		
AOC65-VEW25	-								-		
AOC65-VEW27	_								_		
AOC65-INTAKE-SW	-									intake flo	ow meter (SCFM)= 0
						Deep W	'ells				
AOC65-VEW13	2								-		
AOC65-VEW14	-								-		
AOC65-VEW17	-								-		
AOC65-VEW22	-								-		
AOC65-VEW24	21								-		
AOC65-VEW26	-										
AOC65-INTAKE-DW	-									intake flo	ow meter (SCFM)= 90
B90-EXHAUST	+										\$ VP.
The state of the s	System	Blow	er On	Intake	ressure)e	Hours Meter
Information	Shallow										
	Deep	(Y)	/ N	43		0				N)	
Moisture	System	Insp	ected	Em	ptied			Observations/No	tes:		
Separator Information	Shallow	(Y)	/ N	Y	/(1)						
SPECIAL CONTROL SPECIAL SPECIA	Deep			Y							
in.H ₂ O: inches of water		fpm: feet pe	r minute		ppm: parts	per million		VRV: vacu	um relief valve		psi: pounds per square inch

Date/Time	: 5.22.08		onitoring	Event (cii	Operato	r: 5.El	light O/ Month	ly / Quarterly / (Other	Amt	pient T (°F)	
					fold Read				Wellhead			
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂		al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H₂O		Comments	
	1		T			Shallow	Wells	1	1			
AOC65-VEW19	-								_			
AOC65-VEW20	-								-			
AOC65-VEW21	_								-			
AOC65-VEW23	-								-			
AOC65-VEW25	-								-			
AOC65-VEW27	-								-			
AOC65-INTAKE-SW	-									intake flo	w meter (SCFM)=	
						Deep W	'ells					
AOC65-VEW13	-7								-			
AOC65-VEW14	-								=			
AOC65-VEW17	-								-			
AOC65-VEW22	-					1			-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								-			
AOC65-INTAKE-DW	-							Α.		intake flo	w meter (SCFM)=	
896-EXHAUST	+											
				Pre Adj	ustment			Vacuum	Relief Valve			
Blower	System	Dlaw	er On	7 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5	ressure		sted	Charle	1			
Information	Shallow		/ N	Ga	uge	Pres	sure	Check Y / N	Luk Y /		Hours Meter	
	Deep		/ N					Y/N	Y /			
Moisture	System		ected	Emi	otied	SOMMET SECTION S	Xfered				Mh side deep	+
Separator	Shallow		/ N		/ N	199	113)	Dystem of	upon our	rival) be	The state of	
Information	Deep		/ N		/ N			Shallow				

in.H2O: inches of water

fpm: feet per minute

ppm: parts per million

**RV: vacuum relief valve psi: pounds per square inch

**R could not get blowers to turn on, will

have to schedule an electrician to look

et it

Date	Time : 5.2	2.08/130)© Monit			Biweekly)/		Quarterly / Other_		Ambient T (°F)
		=-	-		ead Readings					
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂	Analytic Time	al Sample Collected Summa Canister #	-	Comments
						Sub	slab Wells			
AOC65-VEW1	_									
AOC65-VEW2	T.U.									
AOC65-VEW3									OFFLINE	
AOC65-VEW4									OFFLINE	The state of the s
AOC65-VEW5		The state of					Riena I		OFFLINE	
AOC65-VEW6									OFFLINE	
AOC65-VEW7								HAME TO STATE OF	OFFLINE	
AOC65-VEW8	-									
AOC65-VEW9	_									
AOC65-VEW10	-									
AOC65-VEW11	200								OFFLINE	
AOC65-VEW12	-									
B90-INTAKE-SS	_									
				Monif	ald Dandings		erior Wells		T Wallbrad I	
Monitoring	Vac	Flow	Temp	VOC	old Readings	CO ₂	Analytic	al Sample Collected	Wellhead Vac	
Point	(in. H ₂ O)	fpm	"F	ppm	vol%	vol %	Time	Summa Canister #	(in. H 2 O)	Comments
AOC65-VEW15	-								-	
AOC65-VEW16	-								-	
AOC65-VEW18	_								-	
AOC65-VEW28A	-								2	λ.
AOC65-VEW28B	-								-	
B90-INTAKE-EX	-									
B90-EXHAUST	+									
				Pre Adju	stment			Vacuum I	Relief Valve	
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter
Information	Subslab	0	/ N	55					Y (N)	63739
	Exterior	0	/ N	35				(₹)/N	Y /(N)	42969
Moisture	System	Insp	ected	Emj	otied	Amount (ga		Observations/Notes	s: blane	r off upon arrival
Separator Information	Subslab		/ N	0		e		Subslu	6 (FD)	
mormation	Exterior	(Y)	/ N	(v)	/ N	D				

in.H₂O: inches of water

fpm; feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi pounds per square inch

Date	/Time : 7//	5/08/1019		oring Event	Operato (circle one):	r: 5, El	Monthly)	Quarterly / Other		Ambient T (°	F)
					ead Reading						
Monitoring	Vac in.H₂O	Flow	Temp	voc	O ₂	CO 2 vol %	Analytic Time	al Sample Collected	4	C	
Point	III.H 2 U	fpm	,	ppm	VOI 76	AND STREET	slab Wells	Summa Canister #		Comments	3
AOC65-VEW1											
AOC65-VEW2											
									OFFLINE		
AOC65-VEW3	-								OFFLINE		
AOC65-VEW4	-										
AOC65-VEW5					H - H - CAN				OFFLINE		
AOC65-VEW6	-								OFFLINE		
AOC65-VEW7		DE MERCHE		10.1200.000				i kurananian	OFFLINE		
AOC65-VEW8	-								1		
AOC65-VEW9	-	- V							-		
AOC65-VEW10	-			Statista.					OFFI INF	EAST COLUMN TO STUDE OF	(Alexandra Caranta San
AOC65-VEW11	-						THE STATE OF		OFFLINE	THE PLANT RES	
AOC65-VEW12	- 36.5	10,260	84.3	0	20.5	ð			+		
B90-INTAKE-SS	-)415	10,000	14.5	0	2015		erior Wells				
					fold Readings	3			Wellhead		
Monitoring	Vac	Flow	Temp °F	VOC	0 2	CO ₂	Analytic Time	al Sample Collected	Vac		Niverance 🚾
Point	(in. H ₂ O)	fpm		ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Com	ments
AOC65-VEW15	- 32.7	610	84.9	0	20.0	15			-0.1		
AOC65-VEW16	- 32.4	1780	85.0	0	19.0	2.5			- 2.3		
AOC65-VEW18	- 32.2	1112	85.8	0	17.0	3.8	_		- 7.4		
AOC65-VEW28A	- 31.5	2126	85.2	O	18.5	2.25	/		- 31.7		
AOC65-VEW28B	-30,5	625	86.2	9	20,0	1.0		/			
B90-INTAKE-EX	- 35.7	4850	85.8	0	19.0	2.5			- 33.)		
B9U-INTAKE-EX	1								VIIIIIIIII		
B90-EXHAUST	+ 12.6	715,000	149.5	0	20.0	15					
	System			Pre Adj	ustment			Vacuum	Relief Valve		
Blower	System	Blow	er On	Intake Pre	ssure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	(7)	/ N	(0	0	Vo		Q/N	Y / 🗭	69630	
	Exterior	Y	(N) turnel	n 4	D	VC		(A)\ N	Y /(N)	45865	
Moisture	System	121	ected		ptied	Contract Con	Xfered	Observations/Note	s:		
Separator	Subslab		/ N		(N)	empty	113)				
Information	Exterior					1 17	/	1			
n H.O. inches of water		0.11							relief valve	nei: nounde per equare	15.74

Date/Time	7/15/0	8 /08°		Event (ci	Operato	r: 5.Ell	Month	ly Quarterly / (Other	Ambi	ent T (°F)	
			omtoring		fold Read		, anomai	ger duartony r	Wellhead	1		
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂	Analytic	al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H 2 O		Comments	
						Shallow I	Vells					
AOC65-VEW19	- 32.2	634	91.3	ð	20.5	0,8			-31.4			
AOC65-VEW20	- 32.2	533	92.2	0	205	Ò	/		- 31.3 -	cun he	ar vellhead lenk	king
AOC65-VEW21	-32.2	480	96.0	0	20	0.5			- 31.9			/
AOC65-VEW23	_ 32,2	543	96.9	0	20,5	0			- 32.1 -	->wellher	ed leaking	
AOC65-VEW25	-32,2	534	92.1	0	20	0	/		- 31.9 -	= well he	ed leaking	
AOC65-VEW27	-32.2	524	95.8	0	18.5	3.5			- 32.1		J	
AOC65-INTAKE-SW	- 32.2	720	85.4	0	20	0.8				intake flow	meter (SCFM)= 0	
						Deep W	ells					
AOC65-VEW13	- 24.3	3350	86.8	0	17.0	3.75			- 1,3 .	wellhead	leaking	
AOC65-VEW14	- 24.1	400	90-1	0	19.0	6.75			- 26.1		1	
AOC65-VEW17	- 25.3	2290	89.7	0	17.5	3.5			- 13.6			
AOC65-VEW22	- 25,0	1935	89.9	0	16.5	3.75			- 23.5	can hear	wellhead leaking	h
AOC65-VEW24	- 24.9	395	93.5	0	14.5	3,75			- 25.1		,	
AOC65-VEW26	- 25.3	1420	90.8	0	16.0	4.0			- 22.6			
AOC65-INTAKE-DW	-30.6	7050	86.1	0	16.5	3.75	/			intake flow	meter (SCFM)= 90	
B90-EXHAUST	+2.5	12,000	152.9	ව	17.0	3.75	/					
					ustment		-11	Vacuum	Relief Valve	9		
Blower	System	Blow	er On	100012000000000000000000000000000000000	Pressure luge		sted sure	Check	Luk	oe l	Hours Meter	
Information	Shallow	Q		W.	33	ho	<u>sure</u>	Q/N	Y /	4	NA	
	Deep		/ N	400	40	no		(Y)/ N	Y /		WA	
Moisture	System	Inon	ected	Em	ntind	Amount		Observations/No	tes:			
Separator	Shallow	insp			ptied /(N)	(ga	113)	1				
Information	Deep		/ N		/(N)							

Date	/Time : <u>8/</u>	15/08/1	050 Monit	oring Event	Operato (circle one):	Biweekly K	Monthly)	Quarterly / Other_		Ambient T (°F	75-8°
					nead Readings						
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	O ₂	CO ₂	Analytic Time	al Sample Collected Summa Canister #		Comments	
	(S) (S) (S)	.,,		Pp			bslab Wells				
AOC65-VEW1	-										
AOC65-VEW2	-										
AOC65-VEW3			Tyles were	I STATE OF THE STA		H mark			OFFLINE		
AOC65-VEW4			Tolline						OFFLINE		
AOC65-VEW5									OFFLINE		
AOC65-VEW6									OFFLINE		
AOC65-VEW7		3130576			110148				OFFLINE		
AOC65-VEW8	-								1		
AOC65-VEW9	-										
AOC65-VEW10											
AOC65-VEW11	25	The state of the s	were a	TE MEDI			HE THE		OFFLINE		
AOC65-VEW12	-										
B90-INTAKE-SS	- 37.8	>15,000	95.1	0	20.0	Ŏ			7.		
							terior Wells				
Monitoring	Vac	Flow	Temp	VOC	fold Readings	CO ₂	Analysis	al Sample Collected	Wellhead		
Point	(in. H ₂ O)	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Com	ments
AOC65-VEW15	- 30.0	460	92.2	0	20.5	0.8			- 0.1		
AOC65-VEW16	29.4	2200	91,2	ð	19.0	2.25		8	-2.0		
AOC65-VEW18	- 28.8	900	92.1	0	17.5	3.75			- 6.9		
	- 27.1	3200	90.4	0	19.0	2.0			- 28.1		
AOC65-VEW28A	25.8				4				30.0		
AOC65-VEW28B		470	97.5	6	20.0	1.0	141		- 30.0		
B90-INTAKE-EX	- 33.4	5900	90.8	0	18.5	2.5					
B90-EXHAUST	+ 215,000	715,000	154.4	0	20.5	1.5					
				Pre Ad	justment	1.7		Vacuum	Relief Valve		
Blower	System	Blow	er On	Intake Pre	ssure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	0		60	N.			X / N	Y / N	69630	
	Exterior		N	40		no		(Ŷ) N	YN	46704	
Moisture	System	100					Xfered	Observations/Note	s:		
Separator	Subslab	Inspe			ptied / N	(ga	ais)	1			
Information	Exterior	(8)		8		8	/	1			
a II O isahas af water	LATOTO	(1)	IN	J. A.	9 IV	-0		1/01/			

Date/Time	8/5/08	/0430 M				Biweekly	Month) / Quarterly /		Am	nbient T (°F) 75-45
					fold Read				Wellhead		
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Analytic Time	al Sample Collected Summa Canister #	Vac in. H₂O		Comments
						Shallow	Wells	•			
AOC65-VEW19	- 32.7	575	97.5	0	19.5	0.8			- 31.5		
AOC65-VEW20	- 32.6	575	100.2	0	20	0			-31.4		
AOC65-VEW21	- 32.6	530	191.2	0	20	0.5			- 31.8	*	_
AOC65-VEW23	- 32.6	600	101-1	0	20	0	r a		- 23.631	8	
AOC65-VEW25	- 32.6	540	97.5	0	20	٥			- 31.8		
AOC65-VEW27	- 32.6	590	98.4	0	18.5	2.5			- 31.9		
AOC65-INTAKE-SW	- 600 32.9	600	89.5	0	19.5	0.8				intake fl	ow meter (SCFM)= Ö
						Deep W	ells				
AOC65-VEW13	-26.2	4100	91.3	0	17.5	3.25			- 1.1		
AOC65-VEW14	- 26.1	405	95.5	0	19.0	1.5			- 26el		
AOC65-VEW17	- 25.3	2500	93,1	0	17.5	3.25			- 13.6		
AOC65-VEW22	-25.3	2250	93.9	0	17.0	3.5		2	- 23.4		
AOC65-VEW24	- 25.3	410	94.7	0	16.5	3.75			- 2511		
AOC65-VEW26	- 25.0	1700	94.6	0	14.0	4.25			- 22,7		
AOC65-INTAKE-DW	- 30.3	9500	92.2	0	20	3.5				intake f	low meter (SCFM)= 90
390-EXHAUST	+2.4	9500	92.20	0	17.0	3.5					
Blower	System	13,600	er On	Intake	ustment Pressure		sted	Vacuum Check	Relief Valve		Harry Mater
Information	Shallow		/ N	Ga 24	uae	no	sure	Ø/N	Y /	-	Hours Meter
	Deep		/ N	40		10		Ø/ N	T Y		NA
Moisture	System		ected	Em	ptied	Amount (ga		Observations/No	tes:		
Separator Information	Shallow	(4)	/ N	(2)	/ N	8					
momadon	Deep	(Y)	/ N	8	/ N	8					

Date/Time	: 9.23.08		onitorina	Event (cir				dley J. Bouch Quarterly /	Other	Amb	ient T (°F)
			omcomig		fold Read		/ monar	y additiony /	Wellhead		
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂	Analytic	al Sample Collected	Vac		
Point	in.H 2 O	fpm	°F	ppm	vol%	vol %	Time	Summa Canister #	in. H₂O		Comments
						Shallow	Wells				
AOC65-VEW19	- 9.8	280	87.0	0	20.75	0.8	/		- 10.0		
AOC65-VEW20	- 9.8	90	87.9	0	21	0.2	/	/	- 9.7		
AOC65-VEW21	- 10.1	130	87.4	0	20.75	0.5	/		- 10.0		
AOC65-VEW23	- 10.0	111	87.4	0	21	0,2	/		- 10,2		
AOC65-VEW25	- 10.1	160	88.1	٥	21	0.2	/_	/	- 10.1		
AOC65-VEW27	- 10.0	130	86.8	6	20	2.0	/_	/	- 10.0		
AOC65-INTAKE-SW	- /0	140	87.9	20 2.8	20.75	0.8				intake flov	v meter (SCFM)= 0
						Deep W	/ells		_		
AOC65-VEW13	- 25.7	3780	84.3	0	19.0	3.0			- 1,2		
AOC65-VEW14	- 25.7	678	86.7	0	20.0	1.0			- 25.7		
AOC65-VEW17	- 24.9	2088	85.6	0	20.0	3.0			- 13.6		
AOC65-VEW22	- 24.7	1624	85.6	0	18.5	3.25			- 23.4		
AOC65-VEW24	- 24.8	568	86,5	0	17.5	4.0			- 24.8		
AOC65-VEW26	- 24.6	1488	86.1	6	18.0	3.5			- 22.7		
AOC65-INTAKE-DW	-29,2	4696	86.8	Ò	18.0	3.0				intake flov	v meter (SCFM)= 90
390-EXHAUST	+	715,006	141.2	0	20.0	2.5					,
				Pre Adj	ustment			Vacuum	Relief Valve		
Blower	System	Blow	er On		ressure uge		isted ssure	Check	Lub	e	Hours Meter
Information	Shallow		/ N	10		X (a		Ø/N	01		NA
	Deep		/ N	42		no		Ø/N	Y /(N i	NA
Moisture	System	Insp	ected	Emr	otied	Amount (g:	Xfered als)	Observations/No ¥ VRV on Sh	tes:	is stuck	open
Separator Information	Shallow	Q			/(N)	o-en					F
mormation	Deep	(Y)	/ N	Y	(N)		moty				

Date/	Time : 9.7	23.08 15	709 Monit		(circle one):			Quarterly / Other_	1	Ambient T (°F)
					ead Readings						
fonitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO 2 vol %	Analytic Time	al Sample Collected Summa Canister #	-	Comments	
ome	mingo	Tpill		ppiii	VOI 70		slab Wells	Samme Cemeter #		Comments	
OC65-VEW1	_										
OC65-VEW2	_										
OC65-VEW3									OFFLINE		
OC65-VEW4			HANNE TO						OFFLINE		1 12 Thinks
OC65-VEW5									OFFLINE		
OC65-VEW6	-							NEW YORK OF THE PARTY OF THE PA	OFFLINE		
OC65-VEW7					Contract				OFFLINE		
OC65-VEW8	-								,		
AOC65-VEW9	-										
AOC65-VEW10	-										
AOC65-VEW11							DE TRA		OFFLINE		
AOC65-VEW12	_										
	-32.8	13938	86,8	0.0	21.0	0.25					
							erior Wells		1.00-101		
Monitoring	Vac	Flow	Temp	VOC	old Readings	CO ₂	Analytic	al Sample Collected	Wellhead		
Point	(in. H ₂ O)	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	(in. H 2 O)	Comr	nents
OC65-VEW15	- Zle.7	590	94.3	0.0	20.5	0.75			- X 4	Broken noech	
AOC65-VEW16	27.7	3222	95.1	0.0	19.5	2.0			-2-1		
	-28.3	1388	944	0.0	18.0	3.25	-		-6.3		
AOC65-VEW18			++	- V	1						
AOC65-VEW28A	-28.1	4080	90.3	0.0	19.0	2.0			-26.4		
AOC65-VEW28B	-28.5	701	91.5	0.V	70.0	1.0			-29.8		
390-INTAKE-EX	-32.4	3375	89.0	0.0	19.0	2.5					
390-EXHAUST	+	715,000	150.7	0.0	20.0	1.25					
	Constant			Pre Adju				Vacuum F	Relief Valve		
Blower	System	Blow	ver On		ssure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	Q	/ N	17	C. 95	N		Q/N	YIN	6963	
	Exterior	(Y)	/ N	40)	N		(Y) / N	Y /(N)	5134	
Moisture	System	Inen	ected	Fm	ptied	Amount (ga	Xfered	Observations/Notes	3:		
Separator	Subslab		N	+	(N)	(90	81				
Information		-	N		(N)	-	5				

Date/Time	10.7.08	10845 M	onitorina	Event (cii	Operato	r: 5. Elli	Month	Quarterly /	Other	Amb	ient T (°F) <u>65-85</u>
					fold Read				Wellhead		
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂	Analytica	al Sample Collected	Vac		
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H 2 O		Comments
						Shallow	Wells		-		
AOC65-VEW19	-35.3	942	76.2	Ò	21.0	0.8	0925		- 32.6		
AOC65-VEW20	-34.8	776	78.6	0	21.0	0	0928		- 32.4		
AOC65-VEW21	- 34.8	738	79.8	0	20.5	0.8	0932		- 32.6		
AOC65-VEW23	- 34.4	736	79.8	0	21.0	0.25	0936		- 33.1		
AOC65-VEW25	-33.8	598	81.6	0	21.0	0.9	0939		- 33.1		
AOC65-VEW27	- 34.0	971	78.9	0	19.5	2.1	0943		- 33.7		
AOC65-INTAKE-SW	-37.2	1098	74.1	0.0	20.5	0.9	0917			intake flo	w meter (SCFM)= ()
						Deep V	101				
AOC65-VEW13	- 27.6	2677	80.5	0	13,0	3.5	0952		- 1.3		
AOC65-VEW14	-27.5	479	81.3	0	18.5	2.25	0956		- 27.7		
AOC65-VEW17	- 27.0	1345	79.6	0	18.5	3.25	1000)		- 14.6		
AOC65-VEW22	- 26.8	1208	80,2	0	17.5	3.8	1003		- 25.3		
AOC65-VEW24	- 26.6	644	80.0	0	17.0	4.0	1006		-24.6		
AOC65-VEW26	- 26.4	1057	79.3	0	17.5	4.0	toll		- 24.5		
AOC65-INTAKE-DW	- 31.9	5730	80.0	0	18.0	3.5	0949			intake flo	w meter (SCFM)= 1
B90-EXHAUST	+ 2.3	7802	139.4	0	18.0	3.5	1014				
					ustment			Vacuum	Relief Valve		
Blower	System	Blow	er On	100000000000000000000000000000000000000	Pressure luge		usted ssure	Check	Lub	е	Hours Meter
Information	Shallow	(Y)		40	***************************************	Nes	KWI.W	(Y) / N	(W)		NA
	Deep	(Y)	/ N	42		No		(Y)/ N	Y /(N)	NA
Moisture	System	Inen	ected	Fm	ptied	La district Annual Control	Xfered als)	Observations/No	tes:	ef val	NE.
Separator	Shallow	(Y)			/ N	1	0	H was s	tack a vi	cted -	-
Information	Deep		/ N		/ N		0/		inct ed		

Date/Tin	ne:10.7.0	18/0845	Monitorii	ng Event (c Wellhea	Operator: ircle one): Bi id Readings	weekly (t, J. Bo	Quarterly / Other_	1	Ambient T (°	F) US-85°
	Mac	Flow	Temp	VOC	02	CO ₂		Sample Collected			
nitoring	Vac in.H ₂ O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #		Comments	
nt						Subs	lab Wells				
C65-VEW1 -									-		200
C65-VEW2 -									ore: we		
C65-VEW3 -									OFFLINE		
C65-VEW4 -			4						OFFLINE		
C65-VEW5					-				OFFLINE		
OC65-VEW6 -									OFFLINE		
OC65-VEW7									OFFLINE		
OC65-VEW8									-		
OC65-VEW9											
OC65-VEW10			P	The state of					OFFLINE		
OC65-VEW11						The street			OFFLINE		
AOC65-VEW12		ed 10	74.2	^	21.0	0.25	1043				
B90-INTAKE-SS	- 38.0	8612	7402	0	0,1,0	Ext	erior Wells				
				Manif	old Readings				Wellhead		
Monitoring	Vac	Flow	Temp °F	VOC	O ₂ vol%	CO ₂	Analytic Time	al Sample Collected Summa Canister#	Vac (in. H ₂ O)	Com	ments
Point	(in. H ₂ O)	fpm		ppm	+ +	2.0	1032	Camilla Cameter #	-0.1	Cont	ments
AOC65-VEW15	- 32.7	606	74.2	0	19,5	2.5	1030				
AOC65-VEW16	- 32.3	1242	75.3	0	19.5	15-5-00 H			- 2.5		
AOC65-VEW18	- 32.4	8746	75.5	0	185	3.25	1027		- 6.9		
AOC65-VEW28A	210/	1520	75.3	D	18,25	2.25	1024		- 28.7		
	-101	550	75.7	0	19.0	1.5	1019		- 32.5		
AOC65-VEW28E	2- 2	3853	76.4	0	18.75	2.5	1036		- 32.5		
B90-INTAKE-EX			100000000000000000000000000000000000000	δ	21.0	1,75	1038				
B90-EXHAUST	+ 13	715,000	124.9		justment	117)	1000	Vacuum	Relief Valve		
	System				ssure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Blower		200	ver On	60		N		Ø/N	Y / W	69 630	
Information	Subslab		/ N	44		N		(Y)/N	Y (N)	52457	
	Exterior	1				Charles Control Control	Xfered	Observations/Note	s:		
Moisture	System	Ins	pected		nptied		als)	-			
Separator	Subslab	1	/ N	-	/ N	Ö		1			
Information	Exterior	Y) / N	(Y	ppm: parts per r	U		VRV. vacuum		psi: pounds per square	

Date	/Time : <u>\\/</u> [1/08 124	4S Monit	oring Event	Operato (circle one):	Biweekly K	Monthly	Quarterly / Other_		Ambient T (°F) 75
					ead Readings					
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC	O ₂ vol %	CO 2 vol %	Analytic Time	Summa Canister #	-	Comments
Point	111.11 20	rpm	,	ppm	VOI 76		slab Wells	Summa Canister #		Comments
AOC65-VEW1	_									
AOC65-VEW2										
AOC65-VEW3									OFFLINE	
AOC65-VEW4									OFFLINE	
AOC65-VEW5									OFFLINE	
AOC65-VEW6									OFFLINE	
AOC65-VEW7									OFFLINE	
AOC65-VEW8	-								01121112	
AOC65-VEW9	_								<u> </u>	
AOC65-VEW10	_									
AOC65-VEW11									OFFLINE	
AOC65-VEW12	-				1000					
B90-INTAKE-SS	-43.9	6080	84.9	0,0	10.0 A	0.25	\$1333	182	No Sun	respore.
						Ext	terior Wells			
SS a mita vim a	1/0-	Flow	Tamm	VOC	fold Readings	CO ₂	A 1.41		Wellhead	
Monitoring Point	Vac (in. H 2 O)	fpm	Temp °F	ppm	O ₂ vol%	vol %	Time	Summa Canister #	(in. H ₂ O)	Comments
AOC65-VEW15	-31,9	590	83.6	0.0	19.5	1.5	_	_	1.0.1	
AOC65-VEW16	-31.8	3128	83.6	0.0	19,5	2.0			-2.4	
AOC65-VEW18	-31.5	1046	84.1	0.0	18.5	3.0	_		-7.2	
	-31.1	3408	79.5			2,5		3280	- 29.4	
AOC65-VEW28A	30.3	522	83.2	0.0	18.0		1305		-31.3	
AOC65-VEW28B	-35.1	6662	81.4		19.0	1.25	1758	2091		
B90-INTAKE-EX	-25.1			0.0	18.25	2.5	1322	3397	<u> </u>	
B90-EXHAUST	+0.1	9592	108.8	0.0	19.0	1.5				
	System			T	ustment	Γ		Vacuum	Relief Valve	
Blower	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		er On		ssure Gauge		Pressure	Check	Lube	
1-6		1 9 1	/ NI	(.)	9	N	K	(Y)/ N	Y / (N	
Information	Subslab	(x)	N	1.4.	\		4	(3), 11	1 11/10	T) I FOUND OF
Information	Subslab Exterior	(Y)	N	44	<u> </u>	N		(Y) N	YA	5742.8
Moisture		(Y)	N	44	ptied	Amount	Xfered	(Y)/ N Observations/Note		5) [5742.6]
	Exterior	(Y)	N	YŸ Em		Amount	Xfered			5742.6

890 INTAKE - PRE 890 - INTAKE - POST (Not sampling)

Date/Time :	11.11.08	0914 M	onitoring	Event (cir	Operato	r: J.Boh Biweekly	/ Month	y / Quarterly / C	ther	Amb	ient T (°F)
					old Read				Wellhead		
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Analytica Time	Summa Canister #	Vac in. H ₂ O		Comments
						Shallow	Wells				
AOC65-VEW19	-34.6	16181	67.6	0.0	21.0	0.6	_		- 14.3		
AOC65-VEW20	-30.7	550	68.5	0.0	21.0	0.1	0937	31792	-28.7		
AOC65-VEW21	- 29.4	510	69.9	0.0	21.0	.25	0945	3459 1	7 29.4		
AOC65-VEW23	-30.3	963	70.1	0.0	21.0	.20	0950	24388	- 28.5	No pres	ma# 1490
AOC65-VEW25	-30.1	588	71.2	0.0	21.0	.25	100 D	1444	-28.8		
AOC65-VEW27	-30.3	638	41.7	0.0	21.0	1.75	1005	1357	- 28.3		
AOC65-INTAKE-SW	-30.2	1013	71.5	0.0	21.0	0.3	0922	31768		intake flo	w meter (SCFM)=
						Deep W	/ells				
AOC65-VEW13	-28.5	2188	71.7	0.0	18.5	3.5			-1.2		
AOC65-VEW14	-28.3	530	72.4	0.0	19.0	2.2			- 28.3		
AOC65-VEW17	-27.7	1362	72.3	0.0	19.25	3.0			- 14.4		
AOC65-VEW22	-27.3	1240	71.4	0.0	18.4	3.5	1041	1355	- 25.3		
AOC65-VEW24	-24.1	468	73.3	0.0	18.0	3.75	1650	2121	-27.2		
AOC65-VEW26	- 26.8	998	73.2	0.0	18.0	3.75	1056	2077	- 24.7		
AOC65-INTAKE-DW	-32.9	5390	71.7	6.0	18.9	3.25	1020	12031		intake flo	w meter (SCFM)= 47
AOC65-EXHAUST	+3.5	11/16/	135.3	0.0	19.0	3.0					
					ustment			Vacuum	Relief Valve)	
Blower	System	Blow	er On	Intake F	ressure		isted ssure	Check	Lut	e	Hours Meter
Information	Shallow	-	/ N	(105/2	30	N		W/N	Y /		N/A
	Deep	(Y)	/ N -	(m) 4		N		(Y)/ N	Y /	(N)	NA
Moisture	System	Insp	ected		otied		Xfered	Observations/Not	tes:		
Separator	Shallow		/ N	(Y)		l Ø					
Information	Deep	Y	/ N	(Y)	/ N		gallon				

Date/Time	: 11-24-09	B 1320	nitorina	Event (cir		r: 16		ly / Quarterly / 0	Other	Amb	olient T (°F) 13°	_
		MO	intorning		fold Read		V World	ny / Quarterny / C	Wellhead			
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments	
						Shallow	Wells					
AOC65-VEW19	-								-			
AOC65-VEW20	-								-			
AOC65-VEW21	-								-			
AOC65-VEW23	-								-			
AOC65-VEW25	-								-			
AOC65-VEW27	_								-			
AOC65-INTAKE-SW	E.									intake flo	w meter (SCFM)=	-
						Deep W	/ells					
AOC65-VEW13	-								Ē			
AOC65-VEW14	-								-			
AOC65-VEW17	-								_			
AOC65-VEW22	-								-			
AOC65-VEW24	-								-			
AOC65-VEW26	_								-			
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)= 3)
AOC65-EXHAUST	+											
Blower	System	Blowe	r On	Intake F	ustment ressure		isted	Vacuum Check	Relief Valve		Hause Mater	
Information	Shallow	(Y)		29	uae	Pres	sure	Y/N	Y /(Hours Meter	
	Deep	CYI			4	N//		CYAN	Y			
Moisture	System	Inspe	cted	Æmi	ptied	Amount		Observations/No				
Separator Information	Shallow Deep	CY)	N	X	/ N / N		an 0.10					
in.H ₂ O: inches of water	Боор	fpm: feet per		$\overline{}$	ppm; parts i		301	VRV: vacu	um relief valve		psi: pounds per square inch	h

Date	Time : 11	4.08	1300 Monit	oring Event	(circle one):	Biweekly /	Monthly /	Quarterly / Other_		Ambient T (°	PA 73°
				Wellh	ead Readings	,					
Monitoring	Vac	Flow	Temp °F	voc	0 2	CO ₂	Analytic Time	cal Sample Collected			
Point	in.H₂O	fpm		ppm	vol %	vol %	slab Wells	Summa Canister #		Comment	5
A O O O F A VE I A VA						000	GIGD FFCIIS	1	T		
AOC65-VEW1	-										
AOC65-VEW2								THE PARTY NAMED IN			A PARTY OF THE PAR
AOC65-VEW3	-								OFFLINE		
AOC65-VEW4									OFFLINE		
AOC65-VEW5			12.0	- 36					OFFLINE		
AOC65-VEW6	-								OFFLINE		RIVER SERVICE
AOC65-VEW7	-		THE PARTY					No. of the last of	OFFLINE		
AOC65-VEW8	-								-		
AOC65-VEW9	-										
AOC65-VEW10	-										
AOC65-VEW11									OFFLINE	AND LESS	
AOC65-VEW12	4										
B90-INTAKE-SS	2										
			1000	44	-1-15		erior Wells		T.Wallband I		
Monitoring	Vac	Flow	Temp	VOC	old Readings	CO ₂	Analyti	cal Sample Collected	Wellhead		
Point	(in. H ₂ O)	fpm	"F	ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Con	nments
AOC65-VEW15	=								-		
AOC65-VEW16	-								-		
AOC65-VEW18	-								=		
AOC65-VEW28A	-		*						-		
AOC65-VEW28B	2								-		
B90-INTAKE-EX	-										
B90-EXHAUST	+										
	120 50			Pre Adj	ustment			Vacuum	Relief Valve		
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	-	/ N	_ lole		NA		(X) N	YIN	7012	1
	Exterior	(Y)	/ N	JOB) 49	410	SIA		(Y) N	Y / (N)	5947	1
Moisture	System					Amount		Observations/Note	s:		
Separator	Subslab		ected N		/ N	(ga	iis)	-			
Information	Exterior				/ N	13/		-			
in H ₂ O: inches of water		form: feet per m	√ N		ppm: parts per r	nillion /		VRV: vacuum	relief valve	psi pounds per square	inch

Date/	Time : 12	11-08	1048		Operato	pr: 1.1301	chiA.	<u>L</u> indley		Ambient T (°F) 30 - 60 °
			Monit	oring Event	(circle one): ead Reading:	Biweekly 7	Monthly /	Quarterly / Other_	1	
Monitoring	Vac	Flow	Temp	VOC	O ₂	CO ₂	Analytic	al Sample Collected		
Point	in.H 2 O	fpm	°F	ppm	vol%	vol %	Time	Summa Canister#		Comments
							bslab Wells			
AOC65-VEW1	_									
AOC65-VEW2	-									
AOC65-VEW3					HITE MAN	C. Mary			OFFLINE	THE RESERVE OF THE PARTY OF THE PARTY.
AOC65-VEW4		Material So							OFFLINE	
AOC65-VEW5	F MISS RE				198				OFFLINE	
AOC65-VEW6				Day (See	THE STA				OFFLINE	
AOC65-VEW7			Marie S	The Admin					OFFLINE	
AOC65-VEW8	-									
AOC65-VEW9	-									
AOC65-VEW10	-									
AOC65-VEW11		A THE ST		14 TE 18			N. S. J. P.		OFFLINE	
AOC65-VEW12	-									
B90-INTAKE-SS	-44.0	3531	65.4	0.0	20,75	0.25	1309	16		
							terior Wells			
Monitoring	Vac	Flow	Temp	VOC	old Reading:	CO ₂	Amaludia	cal Sample Collected	Wellhead	-
Point -32.2		fpm	°F	ppm	vol %	vol %	Time	Summa Canister#	(in. H ₂ O)	Comments
AOC65-VEW15	55	540	55.D	0.0	20,5	1.2	1100		-03	
	.31.6	5589	53.4	0,0	20.5	2.0	1102		-2,0	* condensation
AOC65-VEW16	. 33,0	2089	-	*			1103		- 2.8	
AOC65-VEW18	18.5 600		-		*	×	100		Amen .	* Water in line - Sucked H2O into eg
AOC65-VEW28A	-56.50	4398	545	*	*	X	1253		-30.2	* Sucking water - no readil
AOC65-VEW28B	-31.7	491	59.5	x	*	*	1254		- 33.5	It sucking water - no reading
B90-INTAKE-EX	-35,6	5049	64.0	0.0	19.25	2.0	1300			
B90-EXHAUST	+ 0.0	5574	78.2	0.0	19.00	1.25	1304			
	Cuatam			Pre Adj	ustment			Vacuum	Relief Valve	
Blower	System	Blov	ver On	Intake Pres	ssure Gauge	Adjusted	Pressure	Check	Luk	be Hours Meter
Information	Subslab	×	/ N	7-4		NO	ų –	Y/(N)	Y /	
	Exterior	m x	(0)	1094	5 410	N		Y/10)	Y /	(N) (0245.2)
	System	Incr	ected	Em	ptied		Xfered als)	Observations/Note	s:	
Moisture	0,000		octou	I EM	hrigh	(9	413)	1		
Moisture Separator Information	Subslab		χN	V	/(N)	11/2 (11	1		

Ambient T (°F) 30°-55° Date/Time: 12 11.08 /0900 Operator: Monitoring Event (circle one): Biweekly / Monthly / Quarterly / Other Manifold Readings Wellhead CO2 Monitoring Flow Temp VOC 02 Vac Vac **Analytical Sample Collected** °F Time in.H2O vol% Point fpm vol% Summa Canister # in. H 20 Comments ppm Shallow Wells 31.9 441 20.0 AOC65-VEW19 1941 1587 59.4 0945 24.3 0.0 AOC65-VEW20 1.0 574 60.7 20,0 0950 AOC65-VEW21 0.0 743 665 20.4 0.15 30,9 31,6 AOC65-VEW23 1000 31,3 44.0 20.5 2364 0.0 24.4 1005 AOC65-VEW25 787 65.1 19.75 AOC65-VEW27 0.0 1010 1.0 .0 2537 AOC65-INTAKE-SW intake flow meter (SCFM)= 30 Deep Wells 34 55.2 19.5 AOC65-VEW13 1.75 Off on zerico 1015 34.4 54,4 19,0 AOC65-VEW14 109,7 0.0 1020 33.1 4896 51,6 19.0 2,5 AOC65-VEW17 0.0 1023 50.8 4374 19,25 2.25 1025 AOC65-VEW22 709 53.9 18.0 1028 AOC65-VEW24 0.0 53.7 19.0 3101 AOC65-VEW26 0.0 1030 -387 4884 AOC65-INTAKE-DW 61.5 0.0 19,0 2.0 intake flow meter (SCFM)= 1013 2.0 1034 AOC65-EXHAUST 121.9 0,0 20.0 5731 Pre Adjustment Intake Pressure Vacuum Relief Valve Adjusted System Blower Blower On Check Lube-Pressure **Hours Meter** Gauge Information Y / N 35 NO YIN YIN Shallow Y/N YIN YIN Deep WA Amount Xfered Observations/Notes: Moisture System Inspected **Emptied** (gals) Separator (Y / N (Y// N Shallow ess than 1 Information YIN YIN 34 - allans Deep

in.H2O: inches of water

only running in head mode

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Time : 17.	31.08	Moni	toring Event ((circle one):	Biweekly /		Quarterly / Other_	-	Ambient T (°F) 55° - 65°
						S 10000			
	1.00		113252200					-	Comments
	tpiii		ppiii	10176			A STATE OF THE STA		Comments
2									
	Registro							OFFLINE	
	TO WAR EL	10		TARRES A				OFFLINE	
								OFFLINE	
	N OHES IN		MINTE	HEREUM I	T TAN	-		OFFLINE	
S. A. Carrier									
-									
-									
							Marine Land	OFFLINE	
-									
				-1-(B1'		erior Wells		[W-W	
Vac	Flow	Temn				Analytic	cal Sample Collected		
(in. H ₂ O)	fpm	°F	ррт	vol %	vol %	Time	Summa Canister#	(in: H ₂ O)	Comments
-								-	
-								ē	
_								-	
-								-	
								_	
_									
+			Ì						
			Pre Adj	ustment			Vacuum	Relief Valve	
System	Blov	ver On			Adjusted	Pressure	Check	Lube	Hours Meter
Subslab					N		Ø/ N	Y /(N	4012.7
Exterior	Y	1(N)	L	15	N	V/1			1 6449.4
					Amount	Afered	Observations/Note		
System	Insp	ected		ptied	(ga	ls)	May was	+ + 1-	ak to ale filter -
System Subslab	(4)	/ N		ptied / N	25	gal Ogal	- May wan	t to lo	okinto changing filters -
	Vac in.H ₂ O	in.H ₂ O fpm Vac (in. H ₂ O) fpm Vac (sin. H ₂ O) fpm System Blov Subslab Exterior Y	Vac Flow Temp "F	Monitoring Event Wellhow Vac in.H ₂ O	Monitoring Event (circle one): Wellhead Reading: Vac Flow Temp VOC O2	Monitoring Event (circle one): Biwéekly Wellhead Readings Wellhead Readings Vac in.H.2O fpm Temp VOC ppm vol % vol % Sub	Monitoring Event (circle one): Biweekly / Monthly / Wellhead Readings Vac in.H.2O Flow Temp VOC O.2 CO.2 Analytic Time Subslab Wells	Monitoring Event (circle ong): Biwe6kly Monthly Quarterly Other	Monitoring Event (circle one): Biweekly Monthly Quarterly Other

Date/Time	: 12.31.0	8 Mo	nitorina	Event (cir		or: J		ly / Quarterly / 0	Other	Amt	oient T (°F) <u>55°</u>	-650
			mering		fold Read		<u> </u>	iy / quarterly / c	Wellhead	1		
Monitoring	Vac	Flow	Temp	VOC	0 2	CO ₂	Analytic	al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H 2 O		Comments	
				-		Shallow	Wells			T		
AOC65-VEW19	-								-	X 545.	tem is off	
AOC65-VEW20	-								-	1 1	runs in her	di
AOC65-VEW21	_								-	Positi	N. 1 .	1
AOC65-VEW23	_								-	inhto	"	
AOC65-VEW25	-								-			
AOC65-VEW27	-								-			
AOC65-INTAKE-SW	-									intake flo	w meter (SCFM)=	_
						Deep V	/ells					
AOC65-VEW13	-								_			
AOC65-VEW14	-								-			
AOC65-VEW17	-		****						-			
AOC65-VEW22	-								-			
AOC65-VEW24	-								_			
AOC65-VEW26	-				li				=			
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)=	
AOC65-EXHAUST	+										0	
				Pre Adj	ustment			Vacuum	Relief Valve	9	~	
Blower	System	Blowe	r On	1925-03	ressure		usted	Check	Lul	20-	Hours Meter	
Information	Shallow	(Y)		3.	uge	Pres	ssure	¥/N	Y (Hours Weter	1
	Deep	YI		1 7	1	1 7		YIN	Y	N		1
Moisture	System				. 61			Oh = ~ - (N = /N = -			C int	V
Separator	Shallow	Inspe			/ N	= 2	als)	flow me	ol of h	OK at	fixing into	ice
Information	Deep	(Y)/			7 N	XX = 1	0	TION ME	Ich Lor	Svarilo	W WELLD	
in.H ₂ O: inches of water		fpm: feet per			ppm: parts	per million	-1/	, VRV: vacu	um relief valve		psi: pounds per square	inch
				** fe	els lik	e there wate	rin	* checked bottom	- filter	s - wa	iter in the	ter
				th	e Knuc	k out	t to	como out no	the the	st.	1	liai

when lopened value at pot - water came out as well as it felt like it inside the arum. Tried using a cup at the value - did not work. Not enough room. Need to figure out something flexible.

Time : 1.9.	09/0930		oring Event	Operato (circle one):	r: <u>5.6 ,</u> 84 Biweekly /				Ambient T (°	F) 40-77°
			Wellh	ead Readings	\$					
	15000000000			02			A STATE OF THE PROPERTY OF THE PARTY OF THE		Commonto	
III.II 2 U	rpm		ppm	VOI 76	757.556.576		Summa Canister #		Comments	
		9		1						
				,						
						Market In		OFFLINE		
								Complete Street		
								OFFLINE		
-								1		
								+		
								OFFLINE		10.2
								OFFLINE		
1111 2	1.243	71 U	0	210	^					
- 44.5	0100	12.7		Flio	Ext	erior Wells				
				fold Readings	3			Wellhead		
Vac		Temp		0 2	CO ₂			Vac	C	
				+		711110	Summa Canister #		Com	ments
	785									
-33.0	2022	60.00		-						
- 33.3	2837	58.9	0	20.5	2.5		B1	- 2.7		
- 325	1927	60.4	0	19.6	2.0			- 29.8		
7			0	185	1.5					
		4.11			V			William		
	777							MIIIIIIII		7 h w
+ 11.3	2322	109,3	0		1,25				1960	
Suctom			Pre Adj	ustment			Vacuum	Relief Valve	200	
System	Blow	er On	Intake Pre		Adjusted	Pressure	Check	Lube	Hours Meter	
Subslab	Q,	N	(my 40	70	W.		Ý/ N	(X)N	70127	
0000000							(Y / N	(Y / N	1.1 411	
Exterior	(3)	N	4	D	N		(3/2)		1/271.	
200	(y)			V	Amount		Observations/Note		1/1871.1	
Exterior	(y)	ected	Em	ptied / N	15172	ls)	(3/2)		1/18 7 1.1	
	Vac in.H ₂ O	Vac in.H ₂ O Flow fpm	Vac Flow Temp F -	Monitoring Event Wellh	Monitoring Event (circle one): Wellhead Readings Wac in.H ₂ O fpm Temp VOC O ₂ ppm vol %	Monitoring Event (circle one): Biweekly / Wellhead Readings Voc O2 CO2 vol % Sub Vol % Vol	Monitoring Event (circle one): Biweekly / Monthly \(\frac{\text{Wellhead Readings}}{\text{Vac}} \) Flow Temp VOC O2 vol \(\frac{\text{Vol}}{\text{Time}} \) Subslab Wells Subslab Wells	Monitoring Event (circle one): Biweekly / (Monthly) Quarterly / Other Wellhead Readings	Monthly Quarterly Other Wellhead Readings Substate Wellhead North Substate Substa	Monitoring Event (circle one): Biweekly Monthly Quarterly Other

Date/Time	1-8.09/	0900 M	onitoring	Event (ci	Operato	r: 5.Ella Biweekly	Month	T. Bouch By / Quarterly / C	Other	Amb	oient T (°F) 40 - 77°
				Mani	fold Read	ings			Wellhead		
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Time	Summa Canister #	Vac in. H ₂ O		Comments
						Shallow \	Vells				
AOC65-VEW19	- 24.6	414	70.8	Ó	20.5	0.25			- 18.9		
AOC65-VEW20	- 24.8	375	74.1	0	21.0	8			- 27.3		
AOC65-VEW21	- 24.5	425	74.6	0	20.0	0.25			- 23.8		
AOC65-VEW23	- 23.4	1119	72.1	0	20.0	0			- 23.4		
AOC65-VEW25	- 23.8	2308	71.0	0	21.0	0			- 20.3		
AOC65-VEW27	- 23.5	514	72.4	0	19.5	1.0			- 18.3		
AOC65-INTAKE-SW	-24.3	4130	69.4	0	21-0	0			//////////ir	take flo	w meter (SCFM)=
						Deep W	ells				
AOC65-VEW13	- 33.6	14793	69.7	0	18.0	2.5			- 1,4		
AOC65-VEW14	- 32.2	1010	75.0	0	19.0	1.5			- 3.1		
AOC65-VEW17	- 31.8	1902	73.3	0	18.0	2.5			- 13.9		
AOC65-VEW22	- 32.8	2373	674	0	17.5	3.0			- 20.8		
AOC65-VEW24	- 31.8	606	66.0	0	18.0	3.0			- 3.1		
AOC65-VEW26	-34.2	10329	60.6	Ŏ	17.0	3.5			- 18.8		
AOC65-INTAKE-DW	-39.1	8954	69.2	0	18.0	2.5			/////////////////////ir	ntake flo	w meter (SCFM)=
AOC65-EXHAUST	+3.5	10227	135.1	0	18.5	2.25					
Blower	System	Blow	er On	Intake	ressure uae	Adju	sted sure	Vacuum Check	Relief Valve Lube		Hours Meter
Information	Shallow	Y		32				(Y) / N	YA		
	Deep	Y	/(N)*	40	7			W/N	Y / ()	9	
Moisture Separator	System		ected		ptied	Amount (ga			on in A	to, 50,	methy wrong with
Information	Shallow		/ N		/ N	0		front, run	in hand	hor	tosting * Ken
L O: inches of water	Deep	form: foot po	/ N	(1)	/ N		,		Kicking it		nei: nounde per equare inch

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Monitoring Point	Vac in.H ₂ O	Flow	Temp			Diweekly	// IVICPITITI	IN / CHISTISTIN / C	1111635			750
Point		N. Harriston	Tomp		fold Read	ings	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ly / Quarterly / C	Wellhead			
		fpm	°F	VOC ppm	O ₂ vol%	CO ₂ vol %	Analytica Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments	
		-				Shallow	Vells					
AOC65-VEW19	av.								-	* Lew	wells were	off
AOC65-VEW20	-0								-			
AOC65-VEW21	-								=			
AOC65-VEW23	-								_			
AOC65-VEW25	-											
AOC65-VEW27	-		(a)						_			
AOC65-INTAKE-SW	-									intake flov	w meter (SCFM)=	D
						Deep W	ells					
AOC65-VEW13	-								-			
AOC65-VEW14	-								-			
AOC65-VEW17	<u>-</u>								_			
AOC65-VEW22	-								-		·	
AOC65-VEW24	_								-			
AOC65-VEW26	-								-			- /
AOC65-INTAKE-DW	-:									intake flo	v meter (SCFM)=	8
AOC65-EXHAUST	+										1	
	System				ustment ressure	Adju	sted	Vacuum	Relief Valve			
Blower Information			er On		uae		sure	Check	Lub		Hours Meter	
miormation	Shallow		/ N	2		N		Ø/N	Y //			
	Deep	Υ		49	5	Amount	Yforod	(Y) / N Observations/Not	Y /	N I		
Moisture	System	Insp	ected	Ęmj	otied	Line Control Control Control Control	ıls)	Observations/Not	.65.			
Separator Information	Shallow		/ N		/ N	5	1.500 Hor					
in.H ₂ O: inches of water	Deep	fpm: feet pe	/ N	(Y)	/ N ppm: parts i		30 gallo		um relief valve		psi: pounds per square i	

Date	Time : 1 - 2	3.09 /10	30 Monit		(circle one):			Lindley Quarterly Other		Ambient T (°F) 10-75°	16)
			T #		ead Reading						
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO 2 vol %	Time	cal Sample Collected Summa Canister #	-	Comments	
, , , , ,		.,		P			slab Wells	A CONTRACTOR OF THE PROPERTY O			
AOC65-VEW1											
AOC65-VEW2	-										
AOC65-VEW3	-		The State					Market Bullet	OFFLINE		
AOC65-VEW4									OFFLINE		
AOC65-VEW5	-		and the same					The state of the s	OFFLINE		
AOC65-VEW6									OFFLINE		
AOC65-VEW7	_		late Et	PART OF					OFFLINE		TI MA
AOC65-VEW8	-										
AOC65-VEW9	(2)										
AOC65-VEW10	- 1										
AOC65-VEW11				1 5% 5%			19.6		OFFLINE		
AOC65-VEW12	-										
B90-INTAKE-SS	-										
							erior Wells	3	I W-IIIII		
Monitoring	Vac	Flow	Temp	VOC	fold Readings	CO ₂	Analyt	ical Sample Collected	Wellhead al Sample Collected Vac		
Point	(in. H ₂ O)	fpm	"F	ppm	vol %	vol %	Time	Summa Canister #	(in. H₂O)	Comments	
AOC65-VEW15	2								-		
AOC65-VEW16									-		
AOC65-VEW18	-								-		
AOC65-VEW28A	-								-		
AOC65-VEW28B	_								_		
B90-INTAKE-EX	-										
B90-EXHAUST	+							r X	2.5		
200 271111001	System Rima		Pre A		ustment			Vacuum	Relief Valve		
Blower Information			ver On	r On Intake Pressure Gauge		Adjusted Pressure		Check	Lube	Hours Meter	
	Subslab	(Y)/ N		80		N		(Y)/ N	YIW	7012.7	
	Exterior	Y IN)		48		N		(Y) / N	Y /(N)	10928.10	
Moisture Separator Information	System	Inspected		Emptied		Amount Xfered (gals)		Observations/Note	Observations/Notes:		
	Subslab		Ø/N		(Y) / N			1			
	Exterior		/ N		/ N	: 38		1			
in.H ₂ O: inches of wate		fpm: feet per m			ppm: parts per i	- Annual Contract		VRV: vacuum	relief valve	psi: pounds per square inch	

Date/Time :	2-4-09/	10845 M	onitoring	Event (cii			+ + J.	Bouch ly / Quarterly / (Other	Aml	bient T (°F)
				Mani	fold Read	ings			Wellhead		
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂ vol %	Time	Summa Canister #	Vac in. H ₂ O		Comments
						Shallow	Wells				
AOC65-VEW19	- 23,3	1035	65.4	3,8	21.0	0,2	0937		- 18.8		
AOC65-VEW20	-22.7	404	45.6	0.1	21.0	Ò	0940		- 22.3		
AOC65-VEW21	-23.1	3/4	42.5	2.7	21,0	0.4	0943		- 22.5		
AOC65-VEW23	- 22.6	1149	62.5	1.8	21.0	0	0946		- 22,2		
AOC65-VEW25	- 22.3	942	61.3	0	21.0	0	0949		- 19.2		
AOC65-VEW27	-22.6	384	60.4	8.6	20,5	1	0952		- 18		
AOC65-INTAKE-SW	- 24.2	2452	42.5	1.9	21.0	0	0433			intake flo	ow meter (SCFM)= 0
						Deep И	/ells				
AOC65-VEW13	- 33.1	7453	57.1	3.9	20.0	2,25	0959	/	- 1.3		
AOC65-VEW14	- 33.2	594	56.8	2.8	21,0	2.5	1002		-0.2		
AOC65-VEW17	- 32,2	1322	584	4.0	20.0	2.5	1004		- 14.2		
AOC65-VEW22	-31.9	1036	57,3	3.5	20.5	2.5	1007		- 26.1		
AOC65-VEW24	- 30.9	621	579	2.8	19,5	2.5	1010		- 0.3		*
AOC65-VEW26	- 31.0	6619	57.9	4,1	19.5	3.5	1012		- 23:7		
AOC65-INTAKE-DW	-36.4	4730	63.1	3.8	20.5	2.5	0956			intake flo	ow meter (SCFM)=
AOC65-EXHAUST	+ 4.2	10850	128.2	4,0	20.0	2.0	1013	4			
									Relief Valve	N.	
Blower	System	Blower On		Intake Pressure		Adjusted		Check Lub		e	Hours Meter
Information	Shallow	Y/N		Gauge રુત્રે		Pressure		Ø/N	Y /(_	μA
	Deep	Ý/N		46		no		Ŵ/N	Y / I	350	NA
Moisture	System	Inspected		Emptied				Observations/No			•
Separator Information	Shallow	Q / N		ØIN		~ /]			
mormation	Deep	(Y/N		Y	/ N	v 32					

in.H2O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Date/Time	: 2.20-1			Event (cir		r: J. Bow Biweekly		ly / Quarterly / (Other	Ami	bient T (°F) <u>35° -</u>	700
		i		Mani	fold Read	ings			Wellhead			
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂		al Sample Collected	Vac		V-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	
Point	in.H 2 O	fpm	°F	ppm	vol %	vol%	Time	Summa Canister #	in. H ₂ O	Comments		
						Shallow	Nells					
AOC65-VEW19	-								-			
AOC65-VEW20	-								-			
AOC65-VEW21	_								-			
AOC65-VEW23	-								-			
AOC65-VEW25	-								-			
AOC65-VEW27	_								-			
AQC65-INTAKE-SW	-									intake flo	ow meter (SCFM)=	less than
	_					Deep W	ells					
AOC65-VEW13	-								-			
AOC65-VEW14	-								-			
AOC65-VEW17	-								-			
AOC65-VEW22	-								-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								-			
AOC65-INTAKE-DW	-									intake flo	ow meter (SCFM)=	00
AOC65-EXHAUST	+											10
Blower	System	Pre Adjustment Intake Pressure				Adjusted		Vacuum	Relief Valve		-	
	Oystem.	Blow	Blower On		Gauge		sure	Check L		е	Hours_Meter	
Information	Shallow		(X) N		26			(X)/ N	Υ (]
	Deep	(Y)	(Y)/ N		48			(Y) / N	Y /(N)]
Moisture	System	Inspected		Emptied		Amount Xfered (gals)		Observations/No	tes:	_		
Separator Information	Shallow	(Y)	/ N	I Y) N		gallon	b				
mormadon	Deep	Y	/ N	Y	N		1					

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Date	/Time : 3/	3/09 09	4S Moni		t (circle one):		Monthly V	Pearce Quarterly / Other_		Ambient T (°F) 50°
					head Reading					
Monitoring Point	Vac in.H 2 O	Flow	Temp °F	voc	02	CO ₂	Analytic	cal Sample Collected		0
Point	III.II 2 U	fpm		ppm	vol %	vol %	bslab Wells	Summa Canister #		Comments
AOC65-VEW1					1	041	Total Trens			
AOC65-VEW2	-						-		+	
AOC65-VEW2	NUMBER OF								OFFLINE	
AOC65-VEW5								100 S	OFFLINE	
	-								OFFLINE	
AOC65-VEW6 AOC65-VEW7	***************************************								OFFLINE	
	-								OFFLINE	
AOC65-VEW8										
AOC65-VEW9	*		-		-				1	
AOC65-VEW10		HARLES OF STREET		I CONTRACT N		and other times		*	0=====	
AOC65-VEW11	3					La Bascaria		The state of the s	OFFLINE	and the state of t
AOC65-VEW12	- 44.1	+4454	1.42	6.2	21.	.25				
B90-INTAKE-SS	- 44,1	13128	107.5	4.6	21.0		terior Wells			
				Man	ifold Reading:				Wellhead	
Monitoring	Vac	Flow	Temp °F	voc	02	CO ₂		cal Sample Collected	Vac	1
Point	(in. H ₂ O)	fpm		ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Comments
AOC65-VEW15	. 34.2	488	57.3	2.5	21.0	1.2			- 0.1	
AOC65-VEW16	- 33.9	963	58.6	2.9	20.75	1.5			. 3.0	
AOC65-VEW18	. 34.0	329	57.0						- 2.7	water in VEW
AOC65-VEW28A	. 33.7	1378	54.8	3.9	19.5	2.5			.30.8	
AOC65-VEW28B	- 34. 1	682	53.0	3.8	19.75	1.75			-11.2	
	-37.4	3675	63,4	3.9					minim	
B90-INTAKE-EX	- 24,7	7673	67,9	3.7	19.75	2.0			<u> </u>	Tort VAC OZ CO.
B90-EXHAUST	+ 10.8	14454	133.8	5.1	20.0	1.5			POST GAC	532 94.0 4.9 20.8 .75
				Pre Ad	justment			Vacuum	Relief Valve	
Blower	System	Blow	ver On	Intake Pre	ssure Gauge	Adjusted	Pressure	Check	Lul	be Hours Meter
Information	Subslab		/ N	78:	- H20			Y / N	Y /	
	Exterior	Ø	/ N		in 450		,	Y/N	Y /	
Moisture	System			—			Xfered	Observations/Note	s:	
Separator			ected		nptied	(ga	als)	4 3/1/10		
Information	Subslab Exterior		/ N		/ N)/ N	13		£ 3/2/09		
in H.O. inches of water		form: feet per m		[Y) / N	10		VPV: upouum		pei-pounde per course inch

Date/Time :	2/2/	19			Onerete	r: A. Line	lt i	S Pearson		Amb	nient T (°F) 50 *
Date/Time	7/2/0	/	onitorina	Event (cir				y / Quarterly / (Other	Amo	olent I (F)
			, intering		fold Read		, CALOTTED	y r squartorry r	Wellhead		
Monitoring	Vac	Flow	Temp	VOC	0 2	CO ₂		al Sample Collected	Vac		
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H ₂ O		Comments
						Shallow \	Nells				
AOC65-VEW19	- 21.8	1254	70.5	3-7	20.7	0.1			- 7.5		
AOC65-VEW20	-21.6	365	71.5	1.0	20.7	0.1			-8.1		
AOC65-VEW21	- 21.6	454	71.0	4.1	20.5	0.25			-8.2		
AOC65-VEW23	- 21.5	865	70.5	2.3	20.6	0.2			- 8.1		
AOC65-VEW25	- 21.4	1524	68.7	0.5	20.2	0.1			-7.1		
AOC65-VEW27	- 21.5	125510	71.9	8.0	20.1	0.9			.3.7		
AOC65-INTAKE-SW	- 12.9	3290	71.7	2.9	21.0	0				intake flo	w meter (SCFM)= 72.5
						Deep W	ells	,			
AOC65-VEW13	-33.7	4468	67.2	2-7	20.1	2.2			-1.3		
AOC65-VEW14	- 33.4	587	66.7	2.9	19.5	1.7			- 6.1		
AOC65-VEW17	- 33.3	1404.	61.1	3.0	20.2	2.0			- 14.3		
AOC65-VEW22 ★¥	- 33.4	1443	158.4	2.7	19.5	2.3			-23.6		
AOC65-VEW24	- 32.9	585	58.0	2.3	20.0	1.9			- 0.2		
AOC65-VEW26	- 33.0	7474	55.0	3.4	20,0	3.0			-17.3		
AOC65-INTAKE-DW	- 37.8	5842	69.5	3.2	19,25	2.5				intake flo	w meter (SCFM)= ¿
AOC65-EXHAUST	+ 3.5	10571	127.9	3.0	19.9	1.8					
Blower	System	Plaw	ar On	Intake	ustment Pressure		sted	Vacuum Check	Relief Valve		Harris Mater
Information	Shallow	(Y)	er On		nae	Pres	sure	Ø / N	Y /		Hours Meter
	Deep				1w-000			I Q/N	T Y/	(N)	-
Moisture	System					Amount	Xfered	Observations/No	tes:	Relief	Usive on shollows en; deep stock shot
Separator	Shallow	Inspe			ptied / N	(ga	115)	£ 3/2/09	side st	nck obe	en; all stock sho
Information	Deep		/ N		/ N	74		2/0/07			
n.H ₂ O: inches of water		fpm: feet pe		ppm: parts per million				VRV: vacu	um relief valve		psi: pounds per square inch

Cal: Ph-10/6c 2020 O=AiR 100 ppm Iso butyline # 1114 psi: pounds per square inch

Cas Tech for O= (021. 20.81. O2 ** 1/20 in VEW 22 line

Date/Time	: 3 18.09	/ 1300	onitorina	Event (cir	Operato	r: 5.Ell	off / Month	ly / Quarterly / (Other	Amb	oient T (°F)	
		101	onnorning		fold Read		, month	ly / Quarterly / C	Wellhead			
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂	Analytic	al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol%	Time	Summa Canister #	in. H ₂ O		Comments	
						Shallow	Wells					
AOC65-VEW19	-								-			
AOC65-VEW20	-								_			
AOC65-VEW21	-								-			
AOC65-VEW23	-								-			
AOC65-VEW25	-								-			
AOC65-VEW27	-								-			
AOC65-INTAKE-SW										intake flo	w meter (SCFM)=	
						Deep W	/ells					
AOC65-VEW13	-								-			
AOC65-VEW14	-								_			
AOC65-VEW17	-								_			
AOC65-VEW22	-								-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								_			
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)=	
AOC65-EXHAUST	+											
	System				ustment	Adju	isted	Vacuum	Relief Valve	!		
Blower	.,		er On	I I I I I I I I I I I I I I I I I I I	uae		sure	Check	Lub		Hours Meter	
Information	Shallow	(V)		26		NO		(Y)/ N	Y		NA	W
	Deep	(Y)	/ N	45		٨٥	Vfored	Ø/N	YK	Ŋ	NA	
Moisture Separator	System		ected		ptied	(ga	Xfered	Observations/No	tes:			
Information	Shallow	(Y)			/ N	Ø						
	Deep	(8)	/ N	M	/ N	25						

in.H2O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Date	Time : 4/	7/09	Monite	oring Event (or: J.Boo Biweekly /		Quarterly / Other_		Ambient T (°F) 55 °
					ad Reading			_	1	
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂		cal Sample Collected		
Point	in.H₂O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #		Comments
						<u> 5u</u>	bslab Wells	1		
AOC65-VEW1	-									
AOC65-VEW2	-									
AOC65-VEW3	-								OFFLINE	
AOC65-VEW4	- 111	2.03							OFFLINE	
AOC65-VEW5	-							The literature	OFFLINE	
AOC65-VEW6			P. W. T.	APRIL S					OFFLINE	
AOC65-VEW7	- 6-10		1						OFFLINE	
AOC65-VEW8	-									
AOC65-VEW9	-									
AOC65-VEW10	-									
AOC65-VEW11									OFFLINE	
AOC65-VEW12	-									
B90-INTAKE-SS	44.3	758	65.6	4.3	21.0	0.25	1155	2105		
		, , , ,				<u>Ex</u>	terior Wells			
	.,		-		old Reading:				Wellhead	
Monitoring Point	Vac (in. H ₂ O)	Flow fpm	Temp °F	VOC ppm	O ₂	CO 2 vol %	Time	Summa Canister #	Vac (in. H ₂ O)	Comments
	- 33.7	466	58.4	49	20.75	0.8	1221	Arx 34132	- 0	
AOC65-VEW15			-		20.75	1.3		0000 71176		extra summa usud
AOC65-VEW16	.33.7	1466	59.1	5.6			1215		-3.1	
AOC65-VEW18	-33.2	2516	55.7	5.23.5	20	2.1	1212		3.8	water in UEW me
AOC65-VEW28A	- 33.1	3335	59.	5.25.3 5.5	19.0	2.5	1200	36458	29.6	
AOC65-VEW28B	-33.2	546	62.4	4.0	20.0	1.8	1208	25283	7.1	
B90-INTAKE-EX	-36.7	5/38 FC	21.20	5.3	19.5	2.1	1148	20773		Flow 5182 Tour 70.6
PST GAC B90-EXHAUST	F.1	5138	91.2	5.le	20.0	1.25	1140	3257	3565	7 * pre GAC B90 extranst
	Cuatom			Pre Adju	stment			Vacuum R	Relief Valve	(readings)
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lub	De Hours Meter
Information	Subslab	Ø	/ N	72				Y / N 41A	Y /	N 70127 HL 2 29
	Exterior	Ø	/ N	46				YIN	Y /	N 84008
Moisture	System	4	2.2		191 591	STATE OF THE STATE	Xfered	Observations/Notes	1:	K
Separator	Subslab		ected		otied	(ga	als)	10.9 1345	13 TE	EMP 19.45 1.25 0.6
Information	Subslab Exterior	Ø		8		6	a	VAC FLO	W IU	10.1 02 CO2 PID
	Exterior .	/ V	/ N	(Y)	/ N	603.76	-/	41.00	4	V 1 V 2 (V 7 1 1 1)

Date	Time : 5/	7/09 10	60 Monit	oring Event	Operate (circle one):	or: 5.Bose Biweekly /	Monthly	Quarterly / Other		Ambient T (F 78°
				Wellh	ead Reading	s					
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂		al Sample Collected			
Point	in.H ₂ O	fpm	°F	ppm	vol %	vol %	Time slab Wells	Summa Canister #		Comment	S
A O C C E V (E VA) (4						300	SIGD WEIIS		T		
AOC65-VEW1	*										
AOC65-VEW2 AOC65-VEW3		M 5 5 6							OFFLINE		
AOC65-VEW4									OFFLINE		
AOC65-VEW5	-								OFFLINE	STATE OF THE PARTY	
AOC65-VEW6									OFFLINE		
AOC65-VEW7									OFFLINE		
AOC65-VEW8							ENIE E		OTTENE		
AOC65-VEW9											
AOC65-VEW10											
AOC65-VEW11									OFFLINE		The San State of the Sa
AOC65-VEW12									OI / LINE		
B90-INTAKE-SS	- 44.1	12176	81,1	0.7	19,0	6.1			¥1		
Dog Hilliam Go		110110	101/1			Ext	erior Wells				
		T ====	-	Manifold Readings VOC 0 2 CO 2 Analytica				Wellhead			
Monitoring Point	Vac (in. H 2 O)	Flow fpm	Temp °F	ppm	O ₂ vol%	vol %	Time	Summa Canister #	Vac (in. H ₂ O)	Con	nments
AOC65-VEW15	-32.2	2048	80.4	1,5	19.0	1.5			- 0.0 008		
	-32.2	2028	80.0	1,6	19.25	1,5			-31	7	
AOC65-VEW16		971	80.4	7.0	18.75	2.0			-	**	
AOC65-VEW18	-32,2		-			-			-7.2		
AOC65-VEW28A	-31.6	2972	79,3	0.0	18	7,5			-29.2		
AOC65-VEW28B	-32.6	673	79.3	0.0	18.5	2.0			- 0.2		
B90-INTAKE-EX	-35.6	5618	80.2	1.2	19.5	2.0					
B90-EXHAUST	+ 0-1	4093	111.9	4,0	19.0	1,5					
200 27111 (001		1017	1.10	Pre Adj	ustment			Vacuum	Relief Valve		
Blower	System	Blov	ver On	Intake Pres	ssure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab		/ N	78		NA		(Ŷ/N	Y / (N)	70127	1
-	Exterior		/ N	44	0	NIN		N	Y / (N)	91126]
Moisture	System	1	a a ta d			Amount		Observations/Note			-
Separator	Subslab		/ N	1	/ N	(ga	(15)				
Information	Exterior	-	/ N		/ N	0	/	1			
in H ₂ O: inches of water		form feet per m		(ppm parts per	million		VRV: vacuun	relief valve	psi: pounds per square	inch

Date/Time	5/7/0	9 890 M	onitoring	Event (cii	Operato	r: J.R Biweekly	Month	A-Lindley Quarterly / (Other	Amb	nient T (°F) <u>78</u>	0
				Mani	fold Read	ings			Wellhead			
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Time	Summa Canister #	Vac in. H ₂ O		Comments	
						Shallow \	Vells					
AOC65-VEW19	-24.2	681	77.1	1,1	20.0	0.25			- 22.4	02 m	when only callib	rates
AOC65-VEW20	- 24.1	511	77.8	0.0	20.0	6.25			_ 23.7	to 20	0.5	
AOC65-VEW21	-24,1	384	78.0	0.0	20.0	0.5			- 23.8			
AOC65-VEW23	-23.9	456	74.8	6,0	20.0	0.25			- 23.4			
AOC65-VEW25	-23.8	1347	77.8	0,0	20.0	0.1			- 20.%		*	
AOC65-VEW27	-23.9	490	78.2	2.9	19.25	1,25			- 19.2			
AOC65-INTAKE-SW	-24.8	2543	Fle.Le	6.3	20.5	0.25	alla			intake flo	w meter (SCFM)=	16 3
	L-0 -		I	4.4	1 10	Deep W	ens					
AOC65-VEW13	-29.6	2880	77.3	0.0	18.75	2.5			- 1.3			
AOC65-VEW14	-29.4	534	78.2	0.6	19,0	2.0			- 0.1			
AOC65-VEW17	-28.9	1839	77.7	0,0	0,19,0	2,25			- 15.8			
AOC65-VEW22	-28.7	1281	77,5	0.0	18,5	2.5			-27.2			
AOC65-VEW24	-28.5	534	78.2	0.0	19.0	2,5			- 0. 1			
AOC65-VEW26	-28.4	1134	78,0	0,0	18,25	3.0			- 22.6			
AOC65-INTAKE-DW	-33.8	6731	77.5	0,0	19.5	2.5				intake flo	w meter (SCFM)=	18 3
AOC65-EXHAUST	+3,5	11937	134.5	0,0	19.0	2.0						
				Pre Adj	ustment			Vacuum	Relief Valve			
Blower	System	Blow	er On	MARKET MANAGEMENT	ressure uae	Adju Pres		Check	Lub	e.	Hours Meter	
Information	Shallow	W		26	440	NI		(Ŷ) / N	Y /(-	
	Deep	8		42		tr.	A	(Y)/ N	Y /(
Moisture	System	Insn	ected	Emi	ptied	Amount (ga		Observations/No	tes:		5	
Separator	Shallow		/ N		(N	(30	0,					
Information	Deep	(Y)	/ N		/(N)		y					

Date	/Time : 5	21.09	Monit	orina Event	Operato	Biweekly /	Monthly /	Quarterly / Other		Ambient T (°	F1 40-850
				Wellh	ead Reading	3	gronding r	quarterly / Carer	1		
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂		al Sample Collected			
Point	in.H₂O	fpm	"F	ppm	vol %	vol %	Time oslab Wells	Summa Canister #		Comments	\$
AOC65-VEW1						Sur	Jan Wens				
	-										
AOC65-VEW2 AOC65-VEW3	-								OFFLINE		
AOC65-VEW4			0.00						OFFLINE		
AOC65-VEW5	-		2 20						OFFLINE		
AOC65-VEW6									OFFLINE		
AOC65-VEW7									OFFLINE		
AOC65-VEW8	-								OFFLINE		
AOC65-VEW9	_										
AOC65-VEW10											
AOC65-VEW11	TO GENERAL	1383	THE REAL PROPERTY.		32423	136 11	0.5		OFFLINE		
AOC65-VEW12									0.72.00		
B90-INTAKE-SS	-										
							erior Wells				
## 14 1		Fi	T		old Readings				Wellhead		
Monitoring Point	Vac (in. H 2 O)	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO 2 vol %	Time	Summa Canister #	Vac (in. H ₂ O)	Com	ments
AOC65-VEW15	=								-		
AOC65-VEW16	2								-		
AOC65-VEW18	-								-		
AOC65-VEW28A	-								-		
AOC65-VEW28B	-								-		
B90-INTAKE-EX	-										
B90-EXHAUST	+										
200 271111001	200 20			Pre Adj	ustment			Vacuum	Relief Valve		
Blower	System	Blov	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab		// N	72		NO		(Y)/ N	Y/(N) 7012.7		
	Exterior)/ N	1 4		NO)	(Y)/ N	Y / (N)	9448.9	
Moisture	System	Iner	pected		ptied	Amount (ga	Xfered	Observations/Note	es:		
Separator	Subslab		/ N		/ N	190		1			
Information	Exterior		N		N			1			
in H _o O: inches of water		fom feet never	NA CONTRACTOR OF THE PARTY OF T		nnm: narts ner r	nillion		VPV: vacuus	n relief valve	nsi: nounds ner square	inch

Date/Time	: 5.21.0) 9 Mc	nitoring	Event (cir		r: Biweekly		ly / Quarterly / (Other	Amb	ient T (°F) <u>60-8</u>	350
					fold Read				Wellhead			
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂	The state of the s	al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H ₂ O		Comments	
						Shallow	Wells					
AOC65-VEW19	-							,	-			
AOC65-VEW20									-			
AOC65-VEW21	-								*			
AOC65-VEW23									-			
AOC65-VEW25	-								-			
AOC65-VEW27	-								-			
AOC65-INTAKE-SW	-									intake flov	w meter (SCFM)=	= 12
						Deep W	'ells					
AOC65-VEW13	-								-			
AOC65-VEW14	-								-			
AOC65-VEW17	-								_			
AOC65-VEW22	-								_			
AOC65-VEW24	-								2 0 y			
AOC65-VEW26	-								-			
AOC65-INTAKE-DW	-									intake flov	w meter (SCFM)=	~49
AOC65-EXHAUST	+											
Diaman	System			Pre Adj Intake	ustment ressure	Adju	sted		Relief Valve			
Blower Information		Blow		Ga	uge	Pres	sure	Check	Lub		Hours Meter	
miormation	Shallow	(Y)/		29		No		Y/N	Y /		_	
	Deep	(Y)	N	44		Amount		(Y)/ N Obser√ations/No	T Y /	N		, 1
Moisture	System	Inspe	ected	Emj	otied		als)	Observations/No	les.			- 1
Separator Information	Shallow	(Y)			/ N	1 %						
,,,,o,,,,,d,,o,,,	Deep	(Y)	N	Y	/ N	0						

6/4/00	M	onitoring	Event (cii	Operato	r: <u>J, Boo</u> Biweekly	do A L	indley Quarterly / C	Other	Amb	nient T (°F) <u>%</u>
			Mani		ings			Wellhead		
Vac	Flow	Temp	VOC	02	CO ₂			Vac		Comments
m.n 20	ipiii		ppiii	VOI 76			Summa Canister #	111. 11 20		Comments
-1-						Vens			- 1	
-31,5	881	81.4	2:2	20.0	0,5			-/ 22.4	24,5	
- 29.5	486	82,9	0.0	20,0	0.25			- 21,4	- 23.6	
- 30,0	582	87.6	0.0	20.0	0.5			-22. Le	- 24.4	
- 29.8	568	88.5	0.0	19.75	0.25			- 22.6	-24,6	
- 29.6	2269	84.0	0.0	20.0	0.0			-19.5	-70.8	
- 79.5	603	86.5	33	19,0	1.5			-16,0	-17.3	was off &
-321	2317	80.4	0.0	20.0	0,25					w meter (SCFM)=
					Deep W	ells				
-29,5	4267	86e.1	0.0	18.0	2.5			-1.2	FID	Hereat = 28 AL
-29.4	431	98.1	0.0	19,	2.0			- 1.7		
-28.7	2386	85.8	3.9	18,5	.5 .0			- 15.5	4 80 1	cal PID
-16.7	1500	86.3	30	18	2.5			- 27,2		
-287	843	87.4	2.5	17,5	2.1			-0.1		
-2815	1849	87,6	3.2	18.	3.C			-26.5	- PID at	fter recal = 2.8
-33.7	8519	85.2	0.0	18.6	2.5 a		4			w meter (SCFM)=
+3,7	12700	146.2	2,4	18.5	2.0					
			Pre Adj	ustment			Vacuum	Relief Valve)	
System	Blow	er On	III market and the		200		Check	Luk	oe .	Hours Meter
Shallow		ASSES SANGERED	37	cude	ries	Suic	Ø/ N			Tiouro motor
Deep	V	/ N	94				2/ N	Y /	N	
System	Insp	ected	Emi	ptied			Observations/No	tes:		
Shallow					(30		7-			
Deep							- Empty			
	Vac in.H ₂ O -31.5 -29.5 -30.0 -29.8 -29.6 -29.5 -37.1 -26.7 -28.7 -28.7 -33.7 +3.7 System Shallow Deep System Shallow	Vac in.H ₂ O Flow fpm -31.5 881 -29.5 486 -30.0 582 -29.8 568 -29.6 2269 -29.5 603 -32.1 2317 -29.4 431 -29.7 2386 -28.7 2386 -28.7 1549 -33.7 8519 +3.7 12700 System Blow Shallow Deep System Shallow M Deep M Shallow M Deep M	Vac Flow Temp F -31.5 881 81.4 -29.5 484 82.9 -30.0 582 87.4 -29.8 548 88.5 -29.6 7249 84.0 -29.5 4267 86.1 -29.4 431 98.1 -29.4 431 98.1 -29.4 431 98.1 -29.7 2386 85.8 -29.7 1549 87.4 -33.7 8519 85.2 +3.7 12700 146.7	Monitoring Event (cin Manifold Vac Flow Temp VOC Ppm F Ppm VOC Ppm F Ppm VOC Ppm F Ppm VOC Ppm F Ppm VOC Ppm VOC	Monitoring Event (circle one): Manifold Read Vac Flow Temp VOC O2 ppm vol % -3 .5 88 81.4 2.7 70.0 -29.5 486 82.9 0.0 20.0 -30.0 582 87.6 0.0 20.0 -29.8 568 88.5 0.0 19.75 -29.6 7269 84.0 0.0 20.0 -29.5 603 66.5 3.3 19.0 -29.5 603 66.5 3.3 19.0 -29.7 605 86.1 0.0 19. -29.7 605 86.8 3.9 18.6 -28.7 605 86.8 3.9 18.6 -28.7 605 86.8 3.9 18.6 -28.7 605 86.8 3.9 18.6 -28.7 8519 85.2 0.0 18.6 -33.7 8519 85.2 0.0 18.6 -33.7 8519 85.2 0.0 18.5 -33.7 8519 85.2 0.0 18.5 -34.7 12700 146.7 2.4 18.5 -35 70 70 70 70 -20 70 70 70 70 -20 70 70 70 70 -20 70 70 70 70 -20 70 70 70 -20 70 70 70 -20 70 70 70 -20 70 70 70 -20 70 70 70 -20 70 70 70 -20 70 70 70 -20 70 70 70 -20 70	Manifold Readings Manifold Readings Vac in.H ₂ O fpm Temp of ppm VOC O ₂ CO ₂ vol % Shallow Shallow Shallow Vac in.H ₂ O fpm F Ppm VOC O ₂ vol % Shallow Vac in.H ₂ O fpm F Ppm Vol % Vol % Shallow Vac in.H ₂ O Fpm Vol % Vol % Shallow Val % Shallow Val % Shallow Val % Shallow Val % Va	Monitoring Event (circle one): Biweekly / Months Manifold Readings Vac Flow Temp VOC O2 VOI % Time Shallow Wells -3 .5 88 81.4 2.7 70.0 0.5 -29.5 48 .6 82.9 0.0 20.0 0.25 -30.0 582 87.4 0.0 70.0 0.5 -29.8 5.6 88.5 0.0 19.75 0.75 -29.8 5.6 88.5 0.0 19.75 0.75 -29.6 72.9 84.0 0.0 70.0 0.5 -29.5 103 56.5 3.3 19.0 1.5 -32.1 2317 80.4 0.0 70.0 0.25 Deep Wells -28.7 1386 85.8 3.9 18.6 2.0 -28.7 1349 87.4 1.5 17.5 2.1 -28.7 1349 87.4 1.5 17.5 2.1 -28.7 1349 87.4 1.5 17.5 2.1 -28.7 1349 87.4 1.5 17.5 2.1 -28.7 1349 87.4 2.5 18.6 2.5 -33.7 8519 85.2 0.0 18.6 2.5 -33.7 8519 85.8 3.8 3.8 -34.8 1.5 1.5 1.5 1.5 -35.8 1.5	Monitoring Event (circle one): Biweekly / Monthly Quarterly / Manifold Readings Monthly Quarterly / Manifold Readings Monthly Open Monthly Quarterly / Manifold Readings Monthly Open Monthly	Monitoring Event (circle one): Bisweekly / Monthly Quarterly / Other Manifold Readings Wellhead in.H.20 Flow Fl	Monitoring Event (circle one): Biweekly / Monthly Quarterly / Other Manifold Readings Wellhead Vac in.H.20 Temp VOC O.2 CO.2 Analytical Sample Collected Vac in.H.20 Vac in.H.20

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Date	/Time : <u>[</u>	1 095	Moni		(circle one):	Biweekly /<	Monthly/	, Lindby Quarterly / Other_		Ambient T (°	F) <u>80</u>
f =!4 =!		F1	T	Wellh VOC	ead Reading						
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	ppm	O ₂	CO 2 vol %	Time	Summa Canister #	-	Comments	i
	•	4					slab Wells				
AOC65-VEW1											
AOC65-VEW2	-										
AOC65-VEW3					MINE TO	MILE STATE			OFFLINE		
AOC65-VEW4									OFFLINE		
AOC65-VEW5	5 15 10 18	Control of				HAVE STOP	2000		OFFLINE		
AOC65-VEW6			Marile S						OFFLINE		
AOC65-VEW7					MILE BU				OFFLINE		
AOC65-VEW8	-:										
AOC65-VEW9	3										
AOC65-VEW10	-										
AOC65-VEW11		E Transfer	GREET T						OFFLINE		
AOC65-VEW12											
B90-INTAKE-SS	-44,1	9968	79,3	5.9	20,0	0.25					
				Mani	fold Readings		erior Wells		I Wallhood I		
Monitoring	Vac	Flow	Temp	VOC	O ₂	CO ₂	Analyti	cal Sample Collected	Wellhead		
Point	(in. H 2 O)	fpm	"F"	ррт	vol %	vol %	Time	Summa Canister #	(in. H 2 O)	Com	ments
AOC65-VEW15	-32.2	554	74,5	3,7	20.0	1.25			- 0		
AOC65-VEW16	-32.4	1168	76.8	2.2	19.0	1.25			- 0.6		
AOC65-VEW18	-32.0	556	76.8	2,0	R.0	2.6			-111		
AOC65-VEW28A	- 31.4	1708	76.4	1.9	18.0	20			-4.4		
	-31.18	501	78.0	0.3	18,75	1,5			111		
AOC65-VEW28B	-35,6	3625		_		2.0			- O		
390-INTAKE-EX	-33,4	260	76.9	2.6	19.0						
390-EXHAUST	O10 +	7571	108.1	5.2	19.5	1,5					
	System			T	ustment			Vacuum I	Relief Valve		
Blower	System	Blov	ver On	Intake Pres	ssure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	Ø	/ N	76				Y / N	Y /(N)	70127	
	Exterior	Q	7 N	44				Y / N	Y / W	97834	
Moisture	System	Iner	ected	Fm	ptied	Amount (ga		Observations/Note:	s:		
Separator	Subslab		/ N		/ N	(ga		1			
Information	Exterior		/ N		/ N			1			

Point (in. H ₂ O) fpm °F ppm vol % Time Summa Canister # (in. H ₂ O) Comments AOC65-VEW15 - - - - - - AOC65-VEW16 - - - - - - AOC65-VEW28A - - - - - - B90-INTAKE-EX - - - - - - -	Date	Time : 0-	0-09	Moni	toring Event	(circle one):	r: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Monthly /	Quarterly / Other_		Ambient T (°	P 92°
Paint Im.H., O fpm "F ppm vol % vol % Immo Summo Canister # Comments				1 -								
Substate Wells					10000000	0 ₂				4	Commont	
AOC65-VEW2	Foint	m.rr 20	ipin		ppiii	VOI 70	7,7 555 555		Summa Canister #		Comment	2
AOC65-VEW2	AOC65-VEW1											
AOC65-VEW3 - OFFLINE AOC65-VEW6 - OFFLINE AOC65-VEW6 - OFFLINE AOC65-VEW7 - OFFLINE AOC65-VEW8 - OFFLINE AOC65-VEW8 - OFFLINE AOC65-VEW8 - OFFLINE AOC65-VEW8 - OFFLINE AOC65-VEW9 - OFFLINE AOC65-VEW9 - OFFLINE AOC65-VEW10 - OFFLINE AOC65-VEW11 - OFFLINE AOC65-VEW11 - OFFLINE AOC65-VEW12 - OFFLINE AOC65-VEW12 - OFFLINE AOC65-VEW12 - OFFLINE AOC65-VEW13 - OFFLINE AOC65-VEW14 - OFFLINE AOC65-VEW15 - OFFLINE AOC65-VEW16 - OFFLINE ADC65-VEW16 - OFFLINE AOC65-VEW16 - OFFLINE AOC65-VEW1		_										
AOC65-VEW4 - OFFLINE AOC65-VEW6 - OFFLINE AOC65-VEW6 - OFFLINE AOC65-VEW7 - OFFLINE AOC65-VEW8 - OFFLINE AOC65-VEW8 - OFFLINE AOC65-VEW9 - OFFLINE AOC65-VEW9 - OFFLINE AOC65-VEW10 - OFFLINE AOC65-VEW11 - OFFLINE AOC65-VEW11 - OFFLINE AOC65-VEW12 - BB0-INTAKE-SS - Exterior Wells Manifold Readings Wellhead Vac (In H, Q) Comments Comments AOC65-VEW15 - AOC65-VEW15 - AOC65-VEW16 AOC65-VEW16 AOC65-VEW16 AOC65-VEW18 BB0-EXHAUST BB0-EXHAUST BB0-EXHAUST Pro Adjustment Vacuum Relief Valve Blower On Intake Pressure Gauge Adjusted Pressure Check Lube Hours Meter (Y) N Y (N) RY (N)			To the last			THE REAL PROPERTY.				OFFLINE		
AOC65-VEW5 - OFFLINE AOC65-VEW6 - OFFLINE AOC65-VEW6 - OFFLINE AOC65-VEW6 - OFFLINE AOC65-VEW10 - AOC65-VEW10 - AOC65-VEW11 - OFFLINE AOC65-VEW11 - OFFLINE AOC65-VEW12 - SPO-INTAKE-SS - Walled Readings Maniforing Vac Flow Temp VOC O2 Analytical Sample Collected Vac (In. N , O) Flow Temp Point (In. N , O) Flow		_						1 2 2				
AOC85-VEW8 - OFFLINE AOC85-VEW9 - OFFLINE AOC85-VEW9 - OFFLINE AOC85-VEW9 - OFFLINE AOC85-VEW10 - OFFLINE AOC85-VEW11 - OFFLINE AOC85-VEW11 - OFFLINE AOC85-VEW12 - OFFLINE AOC85-VEW12 - OFFLINE AOC85-VEW13 - OFFLINE AOC85-VEW15 - OFFLINE AOC85-VEW15 - OFFLINE AOC85-VEW15 - OFFLINE AOC85-VEW16 - OFFLINE AOC85-VEW16 - OFFLINE AOC85-VEW18 - OFFLINE AOC8	THE RESERVE THE PARTY OF THE PA							. 3	Billion Supple			
ACC65-VEW8 - ACC65-VEW9 - ACC65-VEW10 - ACC65-VEW11 - ACC65-VEW11 - ACC65-VEW11 - ACC65-VEW12 - BB0-INTAKE-SS - Manifold Readings Manifold Readings Manifold Readings Exterior Wells Manifold Readings Wellhead Vac (in. H, O) fpm						November 1	THE REAL PROPERTY.				S. C. Williams	
AOC65-VEW9 - AOC65-VEW10 - AOC65-VEW11 - AOC65-VEW12 - BBO-INTAKE-SS - BO-INTAKE-SS - ACC65-VEW12 - ACC65-VEW12 - ACC65-VEW12 - ACC65-VEW12 - ACC65-VEW13 - ACC65-VEW13 - ACC65-VEW15 - ACC65-VEW15 - ACC65-VEW15 - ACC65-VEW16 - ACC65-VEW16 - ACC65-VEW18 - ACC65-VEW18 - ACC65-VEW18 - ACC65-VEW18 - ACC65-VEW18 - ACC65-VEW28A - ACC65-VEW28	The second second second				Mark Mark							ALCOHOLD THE REAL PROPERTY.
AOC65-VEW10		_										
AOC65-VEW12 - B90-INTAKE-SS - Wellname		-										
ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW13 ACC65-VEW16 ACC65-VEW16 ACC65-VEW16 ACC65-VEW18 ACC65-VEW18 ACC65-VEW18 ACC65-VEW28A ACC65-VEW28A ACC65-VEW28B A	N. W. W. C. W.											
ACC65-VEW12 -			A STATE OF						TE WEST TO SERVE	OFFLINE		
B90-INTAKE-SS		-										
Manifold Readings		_										
Monitoring							Ext	erior Wells				
Point (in. H ₂ O) fpm 'F ppm vol % vol % Time Summe Canister # (in. H ₂ O) Comments	Monitorina	Vac	Flow	Tomp				Amelial	and Samuela Callandad			
AOC65-VEW18 - AOC65-VEW28A - AOC65-VEW28B - B90-INTAKE-EX - B90-EXHAUST + Blower Information System Blower On Subalab (Y) N FL (No Y) N Y / (N) TO Z FL Exterior (Y) N HZ Amount Xfered (gals) Moisture Separator Subalab (Y) N (Y) N (Y) N (Y) N (Y) N	Control of the Contro		The state of the s		0.000	vol %				The second secon	Com	ments
AOC65-VEW28A	AOC65-VEW15	-								-		
AOC65-VEW28B - B90-INTAKE-EX - B90-EXHAUST + Pre Adjustment	AOC65-VEW16	21								-		
AOC65-VEW28B - B90-INTAKE-EX - B90-EXHAUST + Blower Information	AOC65-VEW18	-								-		
B90-INTAKE-EX - B90-EXHAUST + Blower Information	AOC65-VEW28A	-								-		
B90-INTAKE-EX - B90-EXHAUST + Blower Information Subslab	AOC65-VEW28B	-								-		
Blower Information System Blower On Intake Pressure Gauge Adjusted Pressure Check Lube Hours Meter Subslab (V) N 7 (N 7		-										
Blower Information System Blower On Intake Pressure Gauge Adjusted Pressure Check Lube Hours Meter Subslab (V) N 7	B90-EXHAUST	+										
Blower On Intake Pressure Gauge Adjusted Pressure Check Lube Hours Meter Check Subslab (V) N 7 (N 7		_			Pre Adj	ustment			Vacuum	Relief Valve		
Information Subslab (V) N	Blower	System	Bloy	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Y/N 7012.7		
Moisture Separator Information Exterior (Y) N (Y	Information	Subslab			72		No					
Moisture Separator Information Subslab System Inspected Emptied (gals) (Y) / N		Exterior	(Y	/ N		-	70		(Y)/ N			
Separator Subslab (Y) / N (Ŷ) / N		System	Insp	ected	1	ptied			Observations/Note	1 10010		
Exterior MIN MYN		Subslab			(Ŷ)	/ N		2 1				
in.H ₂ O: inches of water fpm: feet per-minute ppm: parts per million VRV: vacuum relief valve psi: pounds per square inch	Medice California Comition							e e				

Monitoring	Vac				cie oney.	Biweekiy	/ Month	Lindley Iy / Quarterly / C	Other		ient T (°F)
					old Read			7	Wellhead		
		Flow	Temp °F	voc	0 2	CO ₂		al Sample Collected	Vac		
Point i	in.H 2 O	fpm	r	ppm	vol %	vol%	Time	Summa Canister #	in. H ₂ O		Comments
						Shallow \	Nells		1		
AOC65-VEW19 -									-		
AOC65-VEW20 -									-		
AOC65-VEW21 -									_		
AOC65-VEW23 -	4								-		4
AOC65-VEW25 -									-		
AOC65-VEW27 -									-		
AOC65-INTAKE-SW -										intake flo	w meter (SCFM)= 8
						Deep W	ells				
AOC65-VEW13 -	e e								_		
AOC65-VEW14 -									-		
AOC65-VEW17 -	4										
AOC65-VEW22 -									_		
AOC65-VEW24 -									_		
AOC65-VEW26 -									-		
AOC65-INTAKE-DW -										intake flo	w meter (SCFM)= 54
AOC65-EXHAUST +	- [4								
				Pre Adji	ustment			Vacuum	Relief Valve		
Blower	System	Blowe	or On		ressure		sted	Check	Lub		House Motor
Information	Shallow	(<u>Y</u>)/		28	uge	Pres NO	sure	Y/N	Y /		Hours Meter
	Deep	(Y)/		44		NO		(Ŷ) N	Y/		
	System	Inspe		Emp				Observations/No			
Separator	Shallow	(Y) /		Y /		(90	113)				
Information	Deep	(Y) /		(Y)		0					

Date/Time	7.9.0	9/745 M	onitoring	Event (cir			Month	Bosch [y] Quarterly / 0	Other	Ambient	T (°F) 80 -100°
				Manif	old Read	ings			Wellhead		
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm∦	O ₂ vol %	CO ₂ vol %	Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments
						Shallow	Wells			May Flow	
OC65-VEW19	-16.5	267	83.8	NA	20.2	0.5	0818		- 25.8	\$ 605	filter cup loos
OC65-VEW20	-16,5	253	83.8	1	20.4	0	0827		- 25.1	521	we took the fir
OC65-VEW21	- 14.5	315	43.6		20,2	0.3	0831		- 25.8	471	o & resample
AOC65-VEW23	- 16.5	298	85.8		20.1	0.3	0836		- 24.1	531	6
AOC65-VEW25	- 14.4	1370	87.6		20.5	0	0437	/	. 27.3	271	9
AOC65-VEW27	- 163	233	87.4		18.6	2.1	0840		- 25,3	538	3
OC65-INTAKE-SW	-16.9	931	82.2		20.4	0,1	0814			ادهه intake flow me	eter (SCFM)= 29
						Deep V	/ells				
OC65-VEW13	- 28.3	3167	88.6	NA	18.1	2.7	0844		- 1.3		
OC65-VEW14	- 28.3	454	89.9		19.1	1.7	0848		- 3.9		
OC65-VEW17	- 27.5	2445	92.6		18.5	2.4	0850		- 15.6		
OC65-VEW22	- 27.5	1687	91.2		17.8	2.7	0852		- 27.2		
OC65-VEW24	-27.5	623	926		18.4	2.6	0853	/	- 0,2		
OC65-VEW26	-27.5	928	92.6		17.8	3.1	0856		- 24.6		
OC65-INTAKE-DW	- 32.3	6806	87.6		18.2	2.5	0844	/		intake flow me	eter (SCFM)= 43
OC65-EXHAUST	+ 4	12106	143.2	y	18.8	2.1	0857				
Blower	System	Blow	er On	Intake P	ressure uge		isted ssure	Vacuum Check	Relief Valve Lub		ours Meter
Information	Shallow	Q		C		no		Ø/N	Y /(Ď i	
	Deep	(Y)	/ N	8	5	10		(Y) / N	Y /(N)	/
Moisture Separator	System		ected		otied	(g	Xfered als)	TPID not work		v	
Information	Shallow	(V)		(V)		0		102/02 meter	rented Lan	<i>idtec</i>	
	Deep	(Y)	/ N	(Y)	/ N	0					

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Date/	Time :_ 7·	19.09/00	170 Monit	oring Event	(circle one):	Biweekly A	Monthly	Bouch Quarterly / Other_		Ambient T (°F) 80-100°		
					ead Readings								
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	Ppm +	O ₂ vol%	CO 2 vol %	Analytic Time	Summa Canister #	-	Comment	's		
						Su	bslab Wells						
AOC65-VEW1	_												
AOC65-VEW2	-												
AOC65-VEW3									OFFLINE				
AOC65-VEW4									OFFLINE				
AOC65-VEW5		Marson.		277 51					OFFLINE		THE WAY A THE DAY		
AOC65-VEW6			1.00						OFFLINE				
AOC65-VEW7		DE LANGE							OFFLINE				
AOC65-VEW8	_												
AOC65-VEW9	_												
AOC65-VEW10	_												
AOC65-VEW11									OFFLINE				
AOC65-VEW12	-												
B90-INTAKE-SS	- 44.)	715,000	92.2	/	20.6	0	0931	/					
						Actions	terior Wells						
Monitoring	Vac	Flow	Temp	VOC	old Readings	CO,	Ameliati	cal Sample Collected	Wellhead				
Point	(in. H ₂ O)	fpm	"F	ppm	vol %	vol %	Time	Summa Canister#	(in. H ₂ O)	Con	nments		
AOC65-VEW15	- 30.0	514	82.3	NA	20.3	6.2	0923		- 0				
AOC65-VEW16	-28-6	1624	83.6	1	19.4	1.4	0921	/	2.4				
AOC65-VEW18	- 30.2	800	84.1		18.4	2.7	0918		- 6.3				
	- 28,9	2334	83,2		17.9	2.3	0914		- 21.2				
AOC65-VEW28A				 		- /							
AOC65-VEW28B	- 28.7	4042	82.3		18.9	1,5	0413		- 0				
B90-INTAKE-EX	- 33,4	4984	83.6	<u> </u>	18.6	2.1	0926						
B90-EXHAUST	+ 10.9	715,000	141.3	V	19.3	1.5	0978		pre GAC				
	Pre Adjustment							Vacuum F	Relief Valve				
Blower	System	Blow	er On	FECTOR SECTION STATEMENT	sure Gauge	Adjusted	d Pressure	Check	Lube	Hours Meter			
Information	Subslab	(Ý)	/ N	39		_	90	Ø (N	Y / (N) Y / (N)	7012.7			
	Exterior	Ø	/ N	72		~				10038.8			
Moisture	System	Insp	ected	Em	ptied		t Xfered als)						
Separator	Subslab		/ N	- Aller	/ N	0		7 120 107		112.7			
Information	Exterior	(8)			/ N	0		1 CO2/O2 me-	ler rented 'Lar	natec			
.H ₂ O: inches of water		fpm: feet per mi			ppm: parts per r	million		VRV: vacuum	rollof volvo	psi: pounds per square	lask		

Time : 7 ·	24.09	1045 Monit	toring Event	(circle one):	Biweekly /	Monthly /	Quarterly / Other_		Ambient T (°F) 85°	
									^	
				02				4	Comments	
maryo	ipin		ppiii	VOI 76			Summa Canister #	1	Comments	
2										
_									-	
		N. S. C. C.			RA CEST			OFFLINE		
		ALTERNATION OF THE PARTY OF THE								
					BALLETT,	1	Problem State			
- 10000			REVIOLE	THE PARTY						
-										
-										
-										
				(S-19)-6	or a second			OFFLINE		
-										
-										
						erior Wells				
Vac	Flow	Temn	_			Analytic	cal Sample Collected			
(in. H ₂ O)	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Comments	
-								-	C C C C C C C C C C C C C C C C C C C	
2								2		
<u>-</u>								-		
-								-		
-			-					-		
-										
+										
			Pre Adju	ustment			Vacuum I	Relief Valve		
System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Subslab	Ø.	/ N	42	_	NO)		Y/10 4012.7		
Exterior	(Y)	/ N	Fr)	20)	MN	YIN	10223.9	
System	Inspe	ected	Emi	otied	Amount	Xfered	Observations/Note:	s:		
TOTAL NEW YORK) N			1			
Subslab	(v)	/ N	YY	<i>D</i> N	N	0(0)	l .			
	Vac in.H ₂ O	Vac in.H ₂ O Flow fpm	Vac Flow Temp F	Wellin Vac in.H ₂ O Flow fpm Temp yoc ppm Manif Vac (in. H ₂ O) Flow fpm Temp yoc ppm Manif Vac (in. H ₂ O) Flow fpm Temp yoc ppm Manif Vac (in. H ₂ O) Flow fpm Temp yoc ppm Intake Press Subslab V / N Exterior Y / N Free Pre Pre Pre Pre Pre Pre Pre Pre Pre	Monitoring Event (circle ond): Wellhead Reading: Wellhead Reading:	Monitoring Event (circle one): Biweekly / Wellhead Readings	Monitoring Event (circle one): Biweekly / Monthly / Wellhead Readings Vac in.H.20 Flow fpm Temp VOC O.2 vol % Time Subslab Wells	Monitoring Event (circle ond): Biweekly Monthly Quarterly Other	Monitoring Event (circle ond): Bisweekly Monthly Quarterly Other	

Date/Time	: 7-24.09 1045 Operator: 1. Bonch Monitoring Event (circle one): Biweekly) Monthly / Quarterly / Other_										nient T (°F) 85°
					fold Read				Wellhead		
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Analytica Time	Summa Canister #	Vac in. H ₂ O		Comments
		.,		PP		Shallow V	Vells				
AOC65-VEW19	-								_		
AOC65-VEW20	_								_		
AOC65-VEW21							4				
	-								-		
AOC65-VEW23	-								-		
AOC65-VEW25	-								-		
AOC65-VEW27	-								_		
AOC65-INTAKE-SW	-									intake flo	w meter (SCFM)="2Z
						Deep W	ells				
AOC65-VEW13	-								-		
AOC65-VEW14	-								-		
AOC65-VEW17	-								-		
AOC65-VEW22	-								-		
AOC65-VEW24	-								-		
AOC65-VEW26	-							9	-		
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)= "9
AOC65-EXHAUST	+										
Blower	System	Blow	er On	Intake F	ustment ressure uae	Adju		Vacuum Check	Relief Valve		Hours Meter
Information	Shallow		/ N	30		Pres		₩/N	Y /	- the second	— Indus Meter
	Deep		/ N	44		NO		(Ý) / N	Y /(
Moisture	System	laspe		Ещ	otied	Amount (ga		Observations/No	tes:		
Separator Information	Shallow	G.		(Y)		L Q					
in.H ₂ O: inches of water	Deep	fpm: feet pe		(4)	ppm: parts p	Į g	1		um relief valve		psi: pounds per square inch

Date/	Time : <u>%</u> '/	2.09/091	00 Monit	oring Event (Operato	or: 5. 511. Biweekky /	Monthly /	Bosch Quarterly / Other_		Ambient T (PF) 78-1020
				Wellhe	ad Reading	s					
Monitoring	Vac	Flow	Temp	VOC	0 2	CO ₂		al Sample Collected		98	
Point	in.H₂O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #		Comment	S
				1	1	Sjui	bslab Wells	1	/ M - //-	. 1=1	
AOC65-VEW1	-							/	* O2/CO2 .	+ PID meters	broken
AOC65-VEW2	*										
AOC65-VEW3	-								OFFLINE		
AOC65-VEW4	-								OFFLINE		
AOC65-VEW5									OFFLINE		
AOC65-VEW6	-				NEW BEST				OFFLINE		
AOC65-VEW7	- Table								OFFLINE	her the same	A Paris Tolkinson
AOC65-VEW8	-										
AOC65-VEW9	-							/			
AOC65-VEW10	-										
AOC65-VEW11		A THE PARTY							OFFLINE		
AOC65-VEW12	-										
B90-INTAKE-SS	- 44.1	>15,000	90.8		1		0919				
							terior Wells				
Monitoring	Vac	Flow	Temp	VOC	old Readings O ₂	CO ₂	Analyti	cal Sample Collected	Wellhead Vac		
Point	(in. H 2 O)	fpm	"F	ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Con	nments
AOC65-VEW15	- 26.4	392	85.8	,	,	,	0916	,	- 0.1		
AOC65-VEW16	- 26.3	1246	86.5			/	0915		- 1.9		
	- 25.4		-						- 5,4		
AOC65-VEW18		1062	86.7	-/-	-		0914				
AOC65-VEW28A	- 24.2	3069	87.4				0913		- 23.8		
AOC65-VEW28B	- 24.4	1162	88.6				0912		- 0,7		
B90-INTAKE-EX	- 30,6	5453	87.6	/	/	/	0917				
B90-EXHAUST	+ 12.3	14138	146.4		/	/	0918				
				Pre Adju	stment			Vacuum I	Relief Valve		
- 1	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Blower				78		NS		Ø/N	Y /(N)	7012	1
Blower Information	Subslab	(y)	/ N	100					1		4
	Subslab Exterior	Ŷ	/ N off upon	38		No		(8 / N	Y / (N)	10265	1
Information Moisture			N off upon	/IDAN	otied	Amount	Xfered	Observations/Note		10265	l
Information	Exterior		ected arri	/IDAN	otied / N	Amount				10265	l

Date/Time	8/12/09			Event (cir			off + J.	Buch [y] Quarterly /	Other	Aml	bient T (°F) <u>78-7</u>	102°
		101	omtoring		fold Read		Monar	y Quarterly /	Wellhead	1		
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂	Analytica	al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H ₂ O		Comments	
						Shallow	Wells					
AOC65-VEW19	- 23.6	1062	92.6				0855		- 20.8-	KO2/CO:	2 + PID meter	s a
AOC65-VEW20	- 23.4	430	95.3	/			0856		- 23.3	broke.	1, no readings	
AOC65-VEW21	- 23.4	504	96.2	/			0857		- 23./		,	
AOC65-VEW23	- 23.4	466	94.2	/			0858		- 23.3			
AOC65-VEW25	- 23.3	1974	92.8			//	0858		- 19.7			
AOC65-VEW27	-23.3	478	94.8	/	/	/	0900		- 23.1			
AOC65-INTAKE-SW	- 24.1	2504	91.3		/		0854			intake flo	w meter (SCFM)= (0
						Deep V	/ells					
AOC65-VEW13	- 29-1	3543	91.2				0900		- 1,2			
AOC65-VEW14	- 29.0	620	95.5				0902		- 3.6			
AOC65-VEW17	- 28.5	2353	94.0				0903		- 15.6			
AOC65-VEW22	- 28.3	1410	94.6		/		6904		- 27.4			
AOC65-VEW24	-27.9	513	96.9	//		/	0905		-0.1			
AOC65-VEW26	- 28.1	996	94.2	/			0906		- 26.8			
AOC65-INTAKE-DW	- 33.2	7324	90.6		/	/	0900			intake flo	w meter (SCFM)= §	70
AOC65-EXHAUST	+ 3.6	11692	155.4	/		/	09060					
				Pre Adj	ustment			Vacuum	Relief Valve			
Blower	System	Blow	er On	-	ressure	0.00	usted	Check	Luk	10	Hours Meter	
Information	Shallow		/ N		uae		ssure Ø	(Ý/N	Y /(475	NA	
	Deep		7 N	35		10	10	(V)/N	Y /(NA	
Moisture	System		ected		ptied	Amount		Observations/No				
Separator	Shallow	(Y)			/ N		allons	1				
Information	Deep		/ N		/ N	0 90	11(4/1)		ii:			
n.H ₂ O: inches of water		fpm: feet pe			ppm: parts i			VRV: vaci	um relief valve		psi: pounds per square in	nch

Date/	Time : 8 · 2	4.09/0	900 Moni	toring Event	Operato (circle one)	Biweekly /	Monthly /	Quarterly / Other_		Ambient T (°F) 43~-95°
					ead Readings					
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp "F	VOC ppm	O ₂	CO ₂	Analytic Time	Summa Canister #	-	Comments
ome	(000.04.5)	ipin		ppm	70770	170700000000000000000000000000000000000	slab Wells	Samma Samutor #		Comments
AOC65-VEW1	-									
AOC65-VEW2	_									
AOC65-VEW3			ALC: UNITED BY						OFFLINE	
AOC65-VEW4									OFFLINE	
AOC65-VEW5			HISE IN						OFFLINE	
AOC65-VEW6									OFFLINE	
AOC65-VEW7				Herman		MARK	TO STATE		OFFLINE	
AOC65-VEW8	2									
AOC65-VEW9	-									
AOC65-VEW10	-									
AOC65-VEW11			The Back						OFFLINE	
AOC65-VEW12	-									
B90-INTAKE-SS	-									
							erior Wells			
Monitoring	Vac	Flow	Temp	VOC	old Readings	CO ₂	Analytic	cal Sample Collected	Wellhead Vac	
Point	(in. H ₂ O)	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Comments
AOC65-VEW15	-								~	
AOC65-VEW16	_								_	
HUNDOWS NOT TOURS.										
AOC65-VEW18	-								7	
AOC65-VEW28A	-								-	
AOC65-VEW28B	-								-	
B90-INTAKE-EX	-									
B90-EXHAUST	+									
JOO EXTINOOT				Pre Adj	ustment			Vacuum I	Relief Valve	
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube_	Hours Meter
Information	Subslab		/ N	70		NO		(Y) / N	Y / N	90 12 9
	Exterior	(Y	N	4:	3	NO		(YYN	YIN	10446.9
##-1-4	System					Amount	Xfered	Observations/Note:		10-110-1
Moisture Separator			ected		ptied	(ga	Js)			A
Information	Subslab	- Partie	/ N	(Y-	K N	8	/	-		
n H₂O: inches of water	Exterior	fom feet per mi	/ N	T (A	N ppm: parts per m	illian		VRV: vacuum	solist union	nsi: pounds per square inch

Date/Time	:8-26-	09/00	100		Operato	r: 16	onch		4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Am	bient T (°F) <u>7-3</u> °	-950
		/ M	onitoring		rcie one): fold Read		/ Month	ly / Quarterly / (Wellhead	1		
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC	O ₂	CO ₂	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments	
						Shallow	Wells					
AOC65-VEW19	-								-			
AOC65-VEW20	-								-			
AOC65-VEW21	-								_			
AOC65-VEW23	-								-			
AOC65-VEW25	-								-			
AOC65-VEW27	-								-			
AOC65-INTAKE-SW	_									intake flo	ow meter (SCFM)=	284
						Deep V	/ells	*				
AOC65-VEW13	-								-			
AOC65-VEW14									-			
AOC65-VEW17	-								-			
AOC65-VEW22	-								-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								-			
AOC65-INTAKE-DW	-									intake flo	ow meter (SCFM)=	518
AOC65-EXHAUST	+											
Blower	System Pre Adjustment Vacuum Relief Valve Intake Pressure Adjusted Blower On Gauge Pressure Check Lube Hours Meter								Hours Meter			
Information	Shallow	Q		2	5	N'		(Y)/ N	Y /	N		
	Deep	(Y)	/ N	L	3	N.		/Y)/ N	Y /(N)		
Moisture Separator	System	Insp	ected	Em	ptied		Xfered	Observations/No	tes:			
Separator Information	Shallow Deep	(Y)	/ N		/ N / N	8	/					
in H.O. inches of water		form: foot no			nnm: narte			VDV	um roliof value		nei: nounde ner equere	

Date/	Time : _ 9 ·	11.09/100	Nonit	orina Event (Operato circle one):	r: 5 Ella Biweekly	Honthiv	Bouch	/ Other		Ambient T (°	F)
1			monne		ead Readings					200		
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂	Analytic Time	al Sample Co			Comments	
	•	74		P.F.	1.51.15		slab Wells					
AOC65-VEW1	_											
AOC65-VEW2	_								-			
AOC65-VEW3				C. Link					1	OFFLINE		
AOC65-VEW4				HALL HOS					1	OFFLINE		
AOC65-VEW5	Fill 194			DUAL THE		No. 1				OFFLINE		
AOC65-VEW6				Alle South		The state of		X		OFFLINE		
AOC65-VEW7							DA ITA	/\		OFFLINE		
AOC65-VEW8	¥											
AOC65-VEW9	-								\			
AOC65-VEW10	2											
AOC65-VEW11								1		OFFLINE		HIRTON BE
AOC65-VEW12	2											
B90-INTAKE-SS	- 44.1	715,000	84.0	0			1040		1			
				Manif	old Readings		erior Wells			Wellhead		
Monitoring	Vac	Flow	Temp	VOC	O ₂	CO ₂	Analytic	al Sample Co	ollected	Vac		
Point	(in. H 2 O)	fpm	°F	ррт	vol %	vol %	Time	Summa (Canister#	(in. H ₂ O)	Com	ments
AOC65-VEW15	- 29.1	456	74.6	0			1037			-011		
AOC65-VEW16	- 28.7	1378	75,7	0			1031			- 2.1		
AOC65-VEW18	- 28.1	861	75.3	0			1028		\vee	- 6.6		
AOC65-VEW28A	-26.4	2590	75.1	0			1007	/	\wedge	- 25.6		
AOC65-VEW28B	- 25.9	423	74.2	0			1023	/		- 4.6		
B90-INTAKE-EX	- 32.9	5554	77.1	0			1035		1			
B90-EXHAUST	+10.7	12403	140.1	0			1039					
				Pre Adju	ustment				Vacuum F	Relief Valve		
Blower	System	System Blower On Intake Pressure Gauge Adjusted Pressu					Pressure	Ch	eck	Lube	Hours Meter	
Information	Subslab	V /N . 00						Ø	/ N	Y 100	70127	
	Exterior		NX	38		NO		(V)	/ N	Y 1(N)	107416	
Moisture	System	Insp	ected	Em	ptied	Amount (ga		Observat	ions/Notes	f upon ar	rival	0
Separator Information	Subslab	0		(3)	/ N	8] 7				
auon	Exterior	Con	/ N	13	/ N	D	/					

Date/Time :	9.11.04	1 0900 M	onitoring	Event (ci	Operato	r:S_E Biweekly	11.0++	J. Bosch Quarterly / G		Ambie	ent T (°F)	_
					fold Read				Wellhead			
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Analytica Time	Summa Canister #	Vac in. H ₂ O		Comments	
						Shallow	Wells					
AOC65-VEW19	-32.2	596	74.8	0			0950	. \	- 31.7			
AOC65-VEW20	- 32.2	504	73.9	0			0952	\ /	- 31.8			
AOC65-VEW21	- 32.3	535	72.9	0	V	I X	0954		- 32.7			
AOC65-VEW23	- 32.3	461	72.9	0			0956	X	- 32.6			
AOC65-VEW25	-32.1	498	73.9	0			0958		- 32.6			
AOC65-VEW27	-32.9	450	73.3	5.8			1000		- 32.6			
AOC65-INTAKE-SW	- 33.3	726	75.3	0			0948		//////////////////////////////////////	ntake flow	meter (SCFM)=	0
				147		Deep W	/ells					
AOC65-VEW13	- 31.1	1963	75.5	0		\ 1	1005	\ 1	- 1.6			
AOC65-VEW14	-31.0	486	75.0	Ò			1007		- 4.4			
AOC65-VEW17	- 30.3	1201	75.5	0	X	V	1009		- 16.5			
AOC65-VEW22	- 30.3	822	75.1	Ô			1011	X	- 28,9			
AOC65-VEW24	- 30.0	509	74.6	0			1012		-0.2			
AOC65-VEW26	-30.2	627	75.0	0		// /	1014		- 28.5			
AOC65-INTAKE-DW	- 35,2	5140	74.4	0	/	1	1001			ntake flow	meter (SCFM)= 8	0
AOC65-EXHAUST	+ 2.6	8019	136.9	0		1	1016					
				Pre Ad	ustment			Vacuum	Relief Valve			
Blower	System	Blew	er On		Pressure		usted ssure	Check	Lube	,	Hours Meter	
Information	Shallow		/ N	31		No		Y/N	Y / N			
	Deep	(Y)	/ N	41		N	5	(Y) N	Y /(N	y		
Moisture	System	Insp	ected	Em	ptied		Xfered	Observations/No	tes:			
Separator Information	Shallow		/ N	- 34	/ N		/	18				
omacon	Deep	(Y)	/ N	Y	y N	8						

in.H2O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

Date/Time	9.25	09 -0	1900	Event (cir	Operato		Bonc	ly / Quarterly / (Other	Amb	ient T (°F) <u>45°</u> – 7	£50
		107	omtoring		fold Read		, month	iy / quarterly / c	Wellhead			
Monitoring	Vac	Flow	Temp	VOC	0 2	CO ₂	Analytica	al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H₂O		Comments	
						Shallow	Wells					
AOC65-VEW19	-								-			
AOC65-VEW20	-								-			
AOC65-VEW21	-								-			
AOC65-VEW23	_								_			
AOC65-VEW25	-								-			
AOC65-VEW27	-								-			,
AOC65-INTAKE-SW						Dans 14	(-11-			intake flo	w meter (SCFM)=	7
AND ACCOUNT OF THE PROPERTY OF	T					Deep W	elis		T	T		
AOC65-VEW13	-								-			
AOC65-VEW14	_								-			
AOC65-VEW17	-								-			
AOC65-VEW22	-								-			
AOC65-VEW24									-			
AOC65-VEW26	-1.								-			
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)= ~ (G.
AOC65-EXHAUST	+											
	System Pre Adjustment Vacuum Relief Valve Intake Pressure Adjusted											
Blower Information			er On		uge	Pres	sure	Check	Luk		Hours Meter	
Imormation	Shallow	(Y)		30		NO		Y/N	Y /		-	
	Deep	(Y)	/ N	48		Amount	Yfored	(Y) / N Observations/No	tos:	W		
Moisture Separator	System		ected		ptied	D DESCRIPTION	als)	Observations/No	ies.			
Information	Shallow	(V)			/ N	Ø						
Cannot more representative out of	Deep	(4)	/ N	(Y)	/ N	8						

Date	/Time : 9.12	5-09 -	- 090 U Monit	oring Event (Operato	or:	·Bonch Monthly/	Quarterly / Other		Ambient T (°	F) 65°-75°
					ead Readings	-					
Monitoring	Vac	Flow	Temp	VOC	02	CO ₂	Analytic Time	al Sample Collected		A	
Point	in.H ₂ O	fpm	F	ppm	vol %	vol %	oslab Wells	Summa Canister #		Comments	
AOC65-VEW1						501	77.010				
AOC65-VEW2	_										
AOC65-VEW3	_		La China Maria			11111111	THE BUILDING	Mary Sales	OFFLINE		
AOC65-VEW4			CONTRACTOR				- 502 8 7		OFFLINE		
AOC65-VEW5						0.57.5			OFFLINE	AND READ OF THE	
AOC65-VEW6	-		The same	Black					OFFLINE		
AOC65-VEW7		Transfer of the last		THE REAL PROPERTY.	75 J 10		THE REAL PROPERTY.		OFFLINE		Table 1
AOC65-VEW8	-										
AOC65-VEW9	-										
AOC65-VEW10	-										
AOC65-VEW11									OFFLINE		
AOC65-VEW12	-										
B90-INTAKE-SS											
				Manif	old Readings	Ext	terior Wells		Wellhead		
Monitoring	Vac	Flow	Temp	VOC	O 2	CO ₂	Analytic	cal Sample Collected	Vac		
Point	(in. H ₂ O)	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Com	ments
AOC65-VEW15	-								-		
AOC65-VEW16	-								=		
AOC65-VEW18	-								-		
AOC65-VEW28A	-								-		
AOC65-VEW28B	-								2		
B90-INTAKE-EX	-										
B90-EXHAUST	+			İ							
DJO-EATIAGGT				Pre Adju	ustment			Vacuum	Relief Valve		
Blower	System	Blow	ver On	T	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab		/ N	44		No)	(Y)/ N			
	Exterior	(Y)	/ N	70		NO)	M/N	Y/N 7012.7 Y/N 11076.4		
Moisture	System	lnen	ected	Emi	otied	Amount (ga		Observations/Note	s:		
Separator	Subslab		/ N		/ N	199	/	1			
Information	Exterior		/ N		/ N	õ		1			
in.H ₂ O: inches of water	r	fpm feet per m			ppm: parts per r	nillion		VRV: vacuum	relief valve	psi: pounds per square	inch

Date/Time	10.8.09	/	onitoring		cle one):	Biweekly	H + J.	Bouch ly / Quarterly /		Amt Annual	pient T (°F) <u>69-88°</u>
					fold Read				Wellhead		
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	O ₂	CO ₂	Analytica Time	Summa Canister #	Vac in. H ₂ O		Comments
4	- 1				THE STATE OF THE S	Shallow	Wells				
AOC65-VEW19	- 34.2	556	79.1	1555			× 0905	36526	- 30.2		
AOC65-VEW20	- 32.5	513	80.4	0			× 0909	22964	- 32.4		
AOC65-VEW21	- 33.8	304	80.2	0			× 0912	12365	- 32.9		
AOC65-VEW23	- 33.5	441	80.0	0			× 0915	34602	- 32.9		
AOC65-VEW25	- 33.9	310	80.0	0			× 0918	35630	- 33,1		
AOC65-VEW27	- 33.7	283	80.0	1310			x 0920	12808	- 32.9		1
AOC65-INTAKE-SW	- 345	479	79.5	539			0900	36483		intake flo	w meter (SCFM)= O
		PC .				Deep V					
AOC65-VEW13	-31.8	2860	79.3	0			04×1045	34094	- 1.5	Sample	ed w/exetra SUMMA
AOC65-VEW14	-31,4	476	80.0	0			0932		- 6.8	,	
AOC65-VEW17	-30.6	1842	40.2	D			0935		- 17,9		
AOC65-VEW22	- 30.6	1272	80.4	0			×0937	35640	- 29.4		
AOC65-VEW24	- 36.4	429	80.2	D			0940	36391	- 0.2		
AOC65-VEW26	- 30.5	1356	81.6	0			0953	36570	- 29.2		
AOC65-INTAKE-DW	- 35.6	6440	79.3	0			0925	36469		intake flo	w meter (SCFM)= 80
AOC65-EXHAUST	+2.7	9150	131.8	0			0951	/-			
					ustment	A -11-		Vacuum	Relief Valve		
Blower	System	Blow	er On		ressure uae		isted ssure	Check	Lub	е	Hours Meter
Information	Shallow		/ N	35		No		Ý/N	Y /(-	N4
	Deep		/ N	45		No		(Y/N	Y /(NA
Moisture	System	Insp	ected	Emr	otied	Amount (g:	Xfered als)	Observations/No	tes:	17/1	enking at wellhed
Separator	Shallow		/ N	(V)		0		V 3 (700	1	,
Information	Deep	(Y)	/ N	(Y).	/ N	0					

in.H2O: inches of water

fpm; feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch



Date	Time :/0 •	8.09/	Monit	orina Event i	Operato	or: 5 Ellot	+ + J. Bo	Quarterly (Other)	Sem: Annual	Ambient T (°	F) 69-88°	
				Wellhe	ead Readings	s	y .					
Monitoring	Vac	Flow	Temp	voc	0 2	CO 2	Analytic Time	al Sample Collected				
Point	in.H ₂ O	fpm	F:	ppm	vol %	vol %	bslab Wells	Summa Canister #		Comments		
AOC65-VEW1						-						
AOC65-VEW2	_											
AOC65-VEW3		District.	A. C. C.	STATE OF THE	T. Frederick		N SUBJECTS		OFFLINE			
AOC65-VEW4								BF450 8 1540	OFFLINE		A STATE OF	
AOC65-VEW5	No. of London	Maria de la compansa							OFFLINE	No treatment of the		
AOC65-VEW6						THE TANK			OFFLINE		The Party	
AOC65-VEW7							1 P. P. L.		OFFLINE		Part of the	
AOC65-VEW8	_											
AOC65-VEW9	-											
AOC65-VEW10	_											
AOC65-VEW11		1972 199	C B C			PART HOLE		Harris May	OFFLINE		Die Silv	
AOC65-VEW12	-											
B90-INTAKE-SS	- 44.1	3611	81.1	0			× 1030	22963				
					115		terior Wells		1 100 - 101			
Monitoring	Vac	Flow	Temp	VOC	old Readings O ₂	CO ₂	Analytic	cal Sample Collected	Wellhead			
Point	(in. H ₂ O)	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	(in. H 2 O)	Com	ments	
AOC65-VEW15	- 28.8	443	81.8	0			× 1018	12638	- 0			
AOC65-VEW16	- 28.7	1856	82.2	0					2.6			
AOC65-VEW18	- 28.3	824	82.2	0				/	- 7.4			
AOC65-VEW28A	-26-8	3218	81.1	0			× 1010	2187	-26.9			
AOC65-VEW28B	- 26.1	517	81.4	Ò			× 1006	36470	- 0			
B90-INTAKE-EX	- 33.1	6074	81.3	0			× 1023	1460				
B90-EXHAUST	+ 10,7	10685	147.3	0			1034		Sample none	ACCUS POSTE	te .	
	0.4			Pre Adju	stment			Vacuum	Relief Valve			
Blower	System	Blow	er On		sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter		
Information	Subslab		/ N	74		No		G/N	Y (30	712		
	Exterior	(9)	/ N 🗶	38		20	V/- 1	(Y)/ N	Y / (N)	11356.7		
Moisture	System		ected		otied	(g	Xfered als)	Observations/Note	s: problems	712 11356.7 culibrating PFI), says 1	lump is had
Separator Information	Subslab		/ N	0		0		Lexterior blu	wer off up	on arrival		
	Exterior	(Y)	/ N	(y)	/ N	0						

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

psi: pounds per square inch

AOC65-POSTGAC:+72(100)7640(Fbw)109,9 (temp) PIO=0 sump time = 1036 summa 12042

Date/Time	:10.23 -	09 08 Mo	15 onitoring	Event (cir	Operato	r: JB Biweekly) Month	ly / Quarterly / (Other	Amb	oient T (°F) 50°-	700
					fold Read				Wellhead			
Monitoring	Vac	Flow	Temp	voc	0 2	CO ₂		al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H 2 O		Comments	
	,					Shallow	Wells					
AOC65-VEW19	-								-			
AOC65-VEW20	-								-			
AOC65-VEW21	-								-			
AOC65-VEW23	-								-			
AOC65-VEW25	-								_			
AOC65-VEW27	-								-:			12
AOC65-INTAKE-SW	_									intake flo	w meter (SCFM)=	0
						Deep W	'ells					
AOC65-VEW13	-								-			
AOC65-VEW14	É								-			
AOC65-VEW17	-								-			
AOC65-VEW22	-								-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								-			
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)=	7.7.
AQC65-EXHAUST	+										, , ,	
				Pre Adj	ustment			Vacuum	Relief Valve	1		
Blower	System	Dlaws			ressure		ısted	Charal	Last			
Information	Shallow	Blowe		Ga	uae	Pres	sure	Check (Y)/ N	Lut		Hours Meter	
OPENSAL PERSONAL STREET	Deep	<u>(Y)</u> /		3'4		1 20		V/N	Y			
Moisture	System	- 1				Amount	Xfered	Observations/No	tes:		^	
Separator	Jystelli	Inspe			otied		als)	Deep filt	er had h	later i	nthe filter ch	umber
Information	Shallow	Y /			/ N		25 gallar		unes cessos als 20	10.		network ## (Tippe 15)
ARARAMOSSENTOR IE	Deep	Y /	N	(Y)	/ N	L N/	A 1					

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million/

VRV: vacuum relief valve

psi: pounds per square inch

ACC65-VEW10 - ACC65-VEW11 - ACC65-VEW12 - B90-INTAKE-SS - B90-	Date/	Time : 10	23-09/0	1815 Monit	toring Event	Operato (circle one):	Biweekly /	Banch Monthly/	Quarterly / Other_		Ambient T (°F) 50 ° − 70 °
No.									CONTRACTOR OF STREET		
Subslab Well's Subslab Well's						Vol %				-	Comments
ACC65-VEW2 ACC65-VEW3 ACC65-VEW3 ACC65-VEW6 ACC	rome	marzo	npin-		ppiii	10170		slab Wells	Samue Cametor II		- Comments
ACC65-VEW2 ACC65-VEW3 ACC65-VEW3 ACC65-VEW6 ACC	AOC65-VEW1	-									
ACC65-VEW3 ACC65-VEW4 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW8 ACC65-VEW9 ACC65-VEW1 ACC65-VEW2 ACC	IS NOT TO SHOW THE	_									
ACC65-VEW4 ACC65-VEW6 ACC65-VEW7 ACC					facilities in all	REAL STORY		No FIRM		OFFLINE	
ACC65-VEW5 ACC65-VEW6 ACC65-VEW7 ACC								13165		The second secon	
ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW10 ACC65-VEW10 ACC65-VEW10 ACC65-VEW11 ACC65-VEW11 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW13 ACC65-VEW15 ACC65-VEW15 ACC65-VEW15 ACC65-VEW15 ACC65-VEW15 ACC65-VEW16 ACC65-VEW16 ACC65-VEW16 ACC65-VEW18 ACC65-VEW18 ACC65-VEW18 ACC65-VEW28 ACC65				THE PARTY			REPUBLIS				
ACC65-VEW								55 KS (4)		A STATE OF THE PARTY OF THE PAR	
ACC65-VEW9 ACC65-VEW1 ACC65-VEW10 ACC65-VEW11 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW13 ACC65-VEW15 ACC65-VEW15 ACC65-VEW15 ACC65-VEW15 ACC65-VEW15 ACC65-VEW16 ACC65-VEW16 ACC65-VEW18 ACC65-VEW18 ACC65-VEW18 ACC65-VEW18 ACC65-VEW28A					Em-man	BANK AND TO					
ACC65-VEW10	AOC65-VEW8	-									
AOC65-VEW10	AOC65-VEW9	21									
ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW12 ACC65-VEW13 ACC65-VEW15 ACC65-VEW16 ACC65-VEW16 ACC65-VEW16 ACC65-VEW16 ACC65-VEW18 ACC65-VEW18 ACC65-VEW28A A	AOC65-VEW10	-									
ACC65-VEW12			A STATE OF							OFFLINE	
Septimization System Subslab System Subslab System Subslab System Inspected Subslab System	AOC65-VEW12	-									
Maniforing Vac Flow Temp VOC O2 CO2 Analytical Sample Collected Vac Vac Flow Temp Vol Vol Vol Time Summa Canister # (In. H20) Comments	B90-INTAKE-SS	4									
Monitoring								erior Wells		T.W-05	
Point (in. H ₂ O) fpm F ppm vol % vol % Time Summa Canister # (in. H ₂ O) Comments	Monitorina	Vac	Flow	Temn	The second secon			Analytic	al Sample Collected		
AOC65-VEW18	Point										Comments
AOC65-VEW28A	AOC65-VEW15	-								gi.	
AOC65-VEW28B - - - - - - - - - -	AOC65-VEW16	-								÷.	
BIOWER Information Blower Information Moisture Separator Information Subslab V / N Y /	AOC65-VEW18	-								-	
B90-INTAKE-EX - B90-EXHAUST + Blower Information	AOC65-VEW28A	-	*							-	
Blower Information System Blower On Intake Pressure Gauge Adjusted Pressure Check Lube Hours Meter Subslab (Y / N Y /	AOC65-VEW28B	_								-	
Blower Information System Blower On Intake Pressure Gauge Adjusted Pressure Check Lube Hours Meter Subslab (Y / N Y /	B90-INTAKE-EX	-									
Blower Information System Blower On Intake Pressure Gauge Adjusted Pressure Check Lube Hours Meter Subslab (Y / N Y /	B90-EXHAUST	+									
Blower On Intake Pressure Gauge Adjusted Pressure Check Lube Hours Meter Check Subslab (Y / N Y / N 115 30 4 NO Y / N Y / N 115 30 4 NO Y / N Y / N 115 30 4 NO Y / N Y / N 115 30 4 NO Y / N Y / N 115 30 4 NO Y / N Y / N 115 30 4 NO Y / N Y / N 115 30 4 NO Y / N Y / N 115 30 4 NO Y / N Y / N 115 30 4 NO Y / N Y / N Y / N 115 30 4 NO Y / N Y		D-1			Pre Adj	ustment			Vacuum	Relief Valve	
Moisture Separator Subslab Sub	Blower	System	Blov	ver On	Intake Pres	ssure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter
Moisture Separator Subslab Sub	Information	Subslab	(y)	/ N	78		NO		(Y/N		115 30 -4
Moisture Separator Subslab Sub		Exterior			37						7012.7
Separator Subsiab (Y/N) (Y/N)	Moisture	System	Iner	hetted					Observations/Note		
	Separator	Subslab	77.5				Ø	10)	Tilters We	rary	
	Information						0.75	Gallons		/	

Date/Time	11.3.09	/0900 M	onitorina	Event (cir	Operato	r: SEllic Biweeklv	HAMONES	Bosch Quarterly (C	Other	Amt	oient T (°F)
			<u> </u>		fold Read		-600		Wellhead		
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	O ₂	CO ₂	Analytica Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments
					15.170-25.170-25.	Shallow	Wells				
AOC65-VEW19	-								-	WL=9.	85
AOC65-VEW20	-								_	WL=	14.55
AOC65-VEW21	- 1 50	(face	completion	in damag	ed, look	like S	oneone	van inb it	-	WL=	12.82
AOC65-VEW23	-		·						-	WL=	7.15
AOC65-VEW25	-								-	WL=	18.22
AOC65-VEW27	-								-	int=	
AOC65-INTAKE-SW	-:									intake flo	w meter (SCFM)= 40
					T	Deep W	/ells		T		
AOC65-VEW13	-								-	WL= "	32.05
AOC65-VEW14	ь:								-		I THE WAY
AOC65-VEW17	-								-	WL= 4	19.96
AOC65-VEW22	-								_	WL=4	17.62
AOC65-VEW24	-								-	WL=1	
AOC65-VEW26	3)								-	WL=41.	53, TO=50'
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)= 20
AOC65-EXHAUST	+										
					ustment	A Callin		Vacuum	Relief Valve)	
Blower	System	Blow	er On		ressure uae		isted ssure	Check	Lut	ре	Hours Meter
Information	Shallow	(Ý)	/ N	38	uuo	10	Journ	Ø/N	Y /	N	NA
	Deep		7 N	50	3	No		(Y)/ N	Y /	(N)	NA
Moisture	System	lnen	ected	Fmi	otied		Xfered als)	Observations/No		1 7	
Separator	Shallow		/ N		/ N		gallons	* Shallow side	e would n	lot fur	00
Information	Deep	(Y)	/ N		/ N	Ne go					

Date/	Time : 11 · 3	.09/0900) Monit	toring Event (Operato	or: S.Ellis; Biweekly D	HOTHING!	Bosch Quarterly Other	>		Ambient T (°	F)
					ad Readings							
Monitoring	Vac in.H ₂ O	Flow	Temp °F	VOC	O ₂	CO 2 vol %	Analytic Time	Summa Canister #	4		Comments	.
Point	In.H 2 O	fpm		ppm	VOI 76	160,500,100,01	slab Wells				Comments	·
OC65-VEW1												
Foreign Charles (America)												
OC65-VEW2									OFFLINE			THE WAR STOWNS
									OFFLINE			
OC65-VEW4							Cart		OFFLINE			
OC65-VEW5									OFFLINE			
OC65-VEW6						151/1			OFFLINE	THE REAL PROPERTY.		
OC65-VEW8	The state of the s								OI I EINE			
AOC65-VEW8	2											
AOC65-VEW9 AOC65-VEW10												
AOC65-VEW11			N. P. Str.			te sur			OFFLINE	11 . 23		
AOC65-VEW12	Ā.								OTTENE			
390-INTAKE-SS	2											
390-1141AINE-30							terior Wells					
				The second secon	old Readings				Wellhead			
Monitoring Point	Vac (in. H₂O)	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂ vol %	Analyti Time	Summa Canister #	Vac (in. H ₂ O)			ments
AOC65-VEW15									-	WL=7	7.2.TD=12.5	removed 7.5 sallons, We=
AOC65-VEW16	-								-	w(=)	998 . Th=	removed 7.5 gallons, WL=1 40.7, removed 14 gal, WL
AOC65-VEW18	-								-	1011 - L	13 TN=	61 (7) removed loga WL
AOC65-VEW28A									_	W/1 = 1	13.15, TD=	120 0
CONTRACTOR AND ADDRESS											118.48 TD	
AOC65-VEW28B B90-INTAKE-EX										WL	110.10,10	- 1951. 0
		l I										
390-EXHAUST	+			Pre Adju	etmont			Vacuum	Relief Valve			
				rie Adju			D	vacuum				
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Luk	oe e	Hours Meter	
Blower Information	System Subslab		ver On	Intake Pres		Adjusted		Check Y / N	Lub Y /		Hours Meter	
ALL AND THE PROPERTY OF THE PARTY OF THE PAR		Q	ver On / N	The state of the s				Check Y / N Y / N	Y /	N	Hours Meter	
Information Moisture	Subslab	Q	/ N	78		NO Amount		Y / N Y / N	Y /	N N		drain on exteriorside
Information	Subslab Exterior	Insp	/ N	78	otied	NO Amount	Xfered	Y / N Y / N	Y / Y / s:	N N Vblve	at k0 pot	drain on exteriorside

New VEW Construction Summary - AOC-65 SVE System Expansion 2007

										Borehole Field s	creening w	ith packer a	apparatus
	VEW	Completed Date(s) 2007	total depth (fbgs)	/	screen (fbgs)	sand (fbgs)	bent seal (fbgs)	grout (fbgs)	open hole DTW after drilling (fbgs)	Vacuum Pressure inches H2O (approx. screen interval)	PID VOCs (ppm)	O2 %	CO2 %
	VEW 20	4/10	27		10 - 25	8 - 27	5 - 8	2 - 5	dry	65	>2000	21	0.05
	VEW 21	4/19	27		12 - 27	10 - 27	8 - 10	2 - 8	dry	106	1	18.9	0.3
	VEW 22	4/9	51		25 - 50	23 - 51	20 - 23	2 - 20	dry	62	0	19.5	1.8
	VEW 23	4/10	21		6 - 21	4 - 21	2 - 4	n/a	dry	78	0	21	0.05
	VEW 24	4/11	50		25 - 50	23 - 50	20 - 23	2 - 20	dry	61	0	21	0.05
	VEW 25	4/11	21		6 - 21	4 - 21	2 - 4	n/a	20.5	78	0	21	0.05
	VEW 26	4/12	50		25 - 50	23 - 50	20 - 23	2 - 20	dry	67	0	21	0.05
	VEW 27	4/12-13	21		6 - 21	4 - 21	2 - 4	n/a	dry	71	0	19.8	0.9
Nested	VEW 28a	4/26	120		80 - 120	78 - 120	75 - 78	2 - 75	106.35	see note *	*	*	*
	VEW 28b	4/27	179.3	1	139.3 - 179.3	137.3- 179.3	135.3 - 137.3	120 - 135.3		submerged	no samp.	no samp.	no samp
								*	discrete interval				
									25-37'	60	0	17.5	2.0
									53-65'	124	0	19	1.5
									77-89'	80	0	18.5	2.2
									101 106	60	0	101	27

Well ID	Date Completed	Depth Cored, fbgs	Depth Reamed, fbgs	Screened Intervals, fbgs
AOC65-VEW 13-LGR	6/25/2002	43.8	41	15-40
AOC65-VEW 14-LGR	7/9/2002	59.2	61	40-60
AOC65-VEW 15-UGR	8/6/2002	NC	13	5-12
AOC65-VEW 16-UGR	8/6/2002	NC	41	15-40
AOC65-VEW 17-LGR	8/25/2002	53.5	52.5	/\ 22-52
AOC65-VEW 18-LGR	8/22/2002	79	81	15.5-55.5
AOC65-VEW 19-UGR	8/9/2002	NC	26	5-25
NC - Borehole not cored				

Date/Time	12.11.0	3 /900	onitoring	Event (cir		r: J. Bono		nly / Quarterly /	Other	Amb	nient T (°F) 45°-55°		
	<u> </u>	1 1/1	onitoring i		fold Read		World	ily / Quarterly /	Wellhead	1			
Monitoring	Vac	Flow	Temp	VOC	02	CO ₂		cal Sample Collected	Vac				
Point	in.H ₂ O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H ₂ O		Comments		
	1 1					Shallow	vveiis		1	T .			
AOC65-VEW19	-								-	* blo	ner has been		
AOC65-VEW20	-		The second second	er/deningage					-	ren	noved for		
AOC65-VEW21	-		100						-	merin	stanence of		
AOC65-VEW23	-		Constitute and						-				
AOC65-VEW25	-					discission of the contract of	a principal de la companya de la com		- 1				
AOC65-VEW27	-			The second secon				Application of the state of the	-				
AOC65-INTAKE-SW	- (\					- 1			intake flo	w meter (SCFM)=		
Deep Wells													
AOC65-VEW13	-39.8	9072	146.2	=,					1.6	* Swi	typed filter		
AOC65-VEW14	-39.1	2053	44.0						21.8	from	shallow into		
AOC65-VEW17	-384	3199	41.4						17,1	deep			
AOC65-VEW22	-38.4	3062	40.1						24.8	tilter	was with		
AOC65-VEW24	-39.7	1424	49					<u>'</u>	0.2				
AOC65-VEW26	-38.3	905	54.4						33.1				
AOC65-INTAKE-DW	-44.1	2234	47.8							intake flo	w meter (SCFM)=		
AOC65-EXHAUST	+ %6.	1486	86.1										
	Custom				ustment ressure	Adii	usted	Vacuum	Relief Valve	9			
Blower	System	Blow	er On		uge		ssure	Check	Lul	be	Hours Meter		
Information	Shallow	Y	/ N /	green and a second	and the last of the last of	- parameter recorder	STATE STATE STATE AND AN ADDRESS OF	Y / N	I XI				
	Deep	Y	(N)	5	5		70	(Y) / N	Y)/	N			
Moisture	System	Insp	ected	Emi	otied	Amount (g	Xfered	Observations/No	relief v	alve (closed in and them out		
Separator Information	Shallow	-X	LN_	X	/ N -	2		deep Side	X Ken	switch	ed them out		
IIIIOIIIIauoii	Deep	fom: feet no	The second second	Y	N nnm: narts	1:40	901.		uum relief valve		psi: pounds per square inch		

Date/1	ime : 12.	11.09 09	0 0 Monito	oring Event (circle one):	or: J Bonc Biweekly /(Monthly)	Quarterly / Other_		Ambient T (°F) 45°-55°
			-		ad Reading		A 1 -41	- I O I - O- U t- d		
lonitoring oint	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO 2 vol %	Time	Summa Canister #		Comments
Sinc	111.1120	TPIII		ppiii	10.70	The state of the s	slab Wells			
OC65-VEW1	TAK SEV						1024			
OC65-VEW2										
OC65-VEW3 -					Re to		Y. T.		OFFLINE	
OC65-VEW4									OFFLINE	
OC65-VEW5	7.250								OFFLINE	
OC65-VEW6									OFFLINE	
OC65-VEW7									OFFLINE	
OC65-VEW8			F-11-6-12							
OC65-VEW9										
AOC65-VEW10										
OC65-VEW11									OFFLINE	
OC65-VEW12										
390-INTAKE-SS		7,								
	No.						erior Wells		T.101-448	1 %
	Mary 4	Florin	Taman	Wanife VOC	old Reading	CO ₂	Ameliati	cal Sample Collected	- Wetthead Vac	
Monitoring Point Wulhud	Vac _(in. H ₂ O)	Flow fpm	Temp °F	ppm	O ₂ vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Comments
AOC65-VEW15	0.0	514	43.1			1			-33.8	PID is in for maintanence
AOC65-VEW16	71	1093	48.5		The state of the s				-33.3	and CO2/O2 meter is
AOC65-VEW18	3,3	1011	47.5		- Indiana				-33.5	broken
763 - 100 - 100 - 1	30.0	2411	46.3						- 32.0	on veer
AOC65-VEW28A	- 50.0									
AOC65-VEW28B	- 00	643	48.0				- 12		-32.7	
390-INTAKE-EX	- 33.7	2879	48.7							
390-EXHAUST	4.01+	6334	112.4	d 1.39						
	0 4	P. P. S.		Pre Adju	72 1 2 2 2			Vacuum	Relief Valve	
Blower	System	Blov	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	
Information	Subslab	(Y))/ N	.+6	5	NO		YIN	Y /(N 7012.7
	Exterior	Y	/ (N)	44.		NO	Iran Lah	(Y) N	Y /	N) 12070.4
Moisture	System	Insr	ected	Emi	otied	Amount (ga	Xfered	Observations/Note	s: xterior f	filter container -
Separator	Subslab	-	/ N	V	100	\$2.0)	emptial w	ate/	
Information	Exterior		/ N	(Y		: 34		1.200	V V	
n.H ₂ O: inches of water		fpm: feet per m	the same of the sa		ppm: parts per	NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED IN		VRV: vacuun	n relief valve	psi: pounds per square inch

Date	Time : 12.	23.09	Monit	toring Event (circle one):	or: bo		Quarterly / Other		Ambient T (°	F) 55°-65°
					ead Reading						
Monitoring	Vac in.H ₂ O	Flow fpm	Temp °F	VOC	O ₂ vol %	CO ₂ vol %	Analytic Time	Summa Canister #		Comments	
Point	III.H 2 O	ipiii	-	ppm	VOI 76		slab Wells	Summa Canister #		Comments	
AOC65-VEW1		1									
AOC65-VEW2											
AOC65-VEW3				NSIGNAL STATE					OFFLINE		
AOC65-VEW4									OFFLINE		
AOC65-VEW5									OFFLINE		
AOC65-VEW6									OFFLINE		
AOC65-VEW7			TO BE I						OFFLINE		
AOC65-VEW8	_									A SACRETON OF THE SACRETON OF THE	
AOC65-VEW9	-										/
AOC65-VEW10											
AOC65-VEW11									OFFLINE		
AOC65-VEW12	-										
B90-INTAKE-SS	-										
Α,				Manif	ald Daadina		erior Wells		I Wallhand I		
Monitoring	Vac	Flow	Temp	VOC	old Readings O 2	CO ₂	Analytic	cal Sample Collected	Wellhead Vac		
Point	(in. H ₂ O)	fpm	°F	ррт	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Com	ments
AOC65-VEW15	-								-		
AOC65-VEW16	-	c							-		
AOC65-VEW18	_										,
AOC65-VEW28A	_								_		
AOC65-VEW28B											
B90-INTAKE-EX											
BOO INTIVINE EX											
B90-EXHAUST	+			Pre Adju	tmant			Vaauum	Relief Valve		
Blower	System	Blov	ver On		sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	Y)/ N	98		NO		(Y) / N	YNY	7012.7	1
	Exterior	Y	(N)	42		NO		(Ŷ) / N	Y /(N)	12272.9	/
Moisture	System	Iner	ected	Emi	otied	Amount (ga	Xfered	Observations/Note	s:		
Separator	Subslab		/ N	()		÷ .5					
Information	Exterior	-	/ N	(Y)		= 40		1			
in H. O: inches of water		form: foot pose			nom: narte nor i	And the second s		VPV: vacuum	and of color	nei: nounde ner equare	To all

Date/Time :	: 12.23.	09		_	Operato	: JB	ouch	 		Amb	ient T (°F) <u>55°</u> -	65°
ā.		М	onitoring		cle one): fold Readi		/ Month	ly / Quarterly / C	Other	1		
Monitoring Point	Vac in.H ₂ O	Flow	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments	
	-					Shallow	Wells					
AOC65-VEW19	_								-	XBlow	ver still	
AOC65-VEW20	-								-		19 repaired	LX-
AOC65-VEW21	-								-			
AOC65-VEW23	-								-			
AOC65-VEW25	-				· · ·							
AOC65-VEW27	/				. /				-			
AOC65-INTAKE-SW	-									intake flo	w meter (SCFM)=	
						Deep W	/ells					
AOC65-VEW13	-								-			
AOC65-VEW14	-	<		1					-			
AOC65-VEW17	-					3			-			
AOC65-VEW22	- ' 9								-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								-			
AOC65-INTAKE-DW	-			F						intake flo	w meter (SCFM)=	
AOC65-EXHAUST	+			-								
				Pre Adj	ustment			Vacuum	Relief Valve	Э		
Blower	System	Blow	er On		Pressure uae		isted ssure	Check	Lui	ое	Hours Meter	
Information	Shallow	Y	/N		иче		70410	YIN	Y /	N		
	Deep	Y	(N)	51)	NO		(Y /) N	Y /	(N,)]
Moisture	System	Insp	ected	Em	ptied		Xfered	Observations/No	tes:			
Separator Information	Shallow	-X	TN	6	/N							
in H.O: inches of water	Deep	fom: feet-ri	N	(Y	N N	£35	cal	11511	ıum relief valve		psi: pounds per square	

Date/Time	. 1.5.10	/0930 M	onitorina	Event (cir	Operato	r: 5.Ell. Biweekh	oft /7	South Bouch	Other	An	nbient T (°F) <u>25-5 </u>	- -
			<u></u>		old Read		7 11101111	y quarterly / c	Wellhead			
Monitoring	Vac	Flow	Temp	VOC	0,	CO ₂	Analytic	al Sample Collected	Vac			
Point	in.H ₂O	fpm	" F	ppm	vol %	vol %	Time	Summa Canister #	in. H₂O		Comments	
						Shallow	Wells					
AOC65-VEW19	-			-					_			
AOC65-VEW20	-	۸۸		1	r be	1/2			-			
AOC65-VEW21	-	7/1	1	000 8					-			
AOC65-VEW23)			. 00							
AOC65-VEW25				(6ba	A FAI				-		·	
AOC65-VEW27	-								-			
AOC65-INTAKE-SW	-									intake f	low meter (SCFM)=	
						Deep V	/ells					
AOC65-VE <u>W13</u>	- 34.7	4981	43.6	4.1	/	/	0946		- 1,6			
AOC65-VEW14	- 38 9	698	44.2	15,6			0948		- 26.0			
AOC65-VEW17	- 34.0	4852	44.0	39.			0944		- 16,4			
AOC65-VEW22	- 363	462	44.4	Water-no	simp/		0953		- 21.1	(417	hear water when	sump
AOC65-VEW24	- 36.3	2988	44.2	3.7			0954	/	<u>- 0,2</u>			
AOC65-VEW26	37.6	645	44.0	6.8			0956	_/	- 33.5			
AOC65-INTAKE-DW	37.6	4682	50.8	16,2	1		0944			intake f	flow meter (SCFM)=	
AOC65-EXHAUST	+ 1.9	5833	102.9	15.9	/	/	1000	_				
	04			Pre Adj	ustment ressure		.otod	Vacuum	Relief Valve	•		
Blower	System	Blow	er On	-	ressure uae		usted ssure	Check	Lut	e	Hours Meter	
Information	Shallow	Y	(N)					XLH	¥.	N	NA	
	Deep	Y	/(N).¥-	5	4	NO		(Y) / N	<u>₩</u>	N	NA	ļ
Moisture Separator	System		ected		otied	Amount (g	Xfered	Observations/Not A blown off up FID just bu	tes: oin arriva	l, Ko	pot full	
Information	Shallow		<i>F</i> N		<u> </u>			PID just be	ck from	being	repaired	ا
in H ₂ O: inches of water	Deep	form: feet no	/ N	(7)	opm: parts :		961	<u> </u>	um relief valve		psi: nounds per square incl	

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/	Time : 1.5	10/10/5		oring Event (Operato circle one):	or: 5.Elli Biweekly /	Monthly)	Bouch Quarterly / Other_			Ambient T (°	F) 25-51°
					ad Reading:					_		
Monitoring	Vac	Flow	Temp	voc	02	CO 2		al Sample Collected				
Point	in.H ₂ O	fpm	<u></u>	ppm	vol %	vol %	Time slab Wells	Summa Canister#			Comment	
						300	SIAD WEIIS					
AOC65-VEW1	<u>- </u>			-								
AOC65-VEW2	• •	**************************************	Era de Caración de	Market And Albert	Post Debugger		Dis-REDIONATO DON			erazione ace a rec	resta New Constitution (Cons	
AOG88-VEWS	建设设 设	11.	Property (1)	15	Was all the seal	6. 公验书			OFFLINE	194	44	\$ 50 med 20 4 4 5
Alotenia Vie Wasa		* * * * * * * * * * * * * * * * * * * *					2.6	Marin Carl	DAPLINE	主導者等		and the second second
AOCBRIVAVI			Trible Comme					T.	OHIO) I PA			
Acceptaviving.				11.5					61.001.7			
Acie. (. V): (V)		d d					7.0		or englass			
AOC65-VEW8	-				10.000	1.5.12.5.28.28.28.28.28.28.28.28.28.28.28.28.28.			2.8.3.11) 1.72.33			
AOC65-VEW9	-									_		
AOC65-VEW10												
AOC65-VEW11	Andriz ()		PAGES INC.	36.7			4.34	3. 4 N	OFFI INF		13.4.3	
AOC65-VEW12	CANADA Z CARACO	3 7 , Aut. 8 (2007)		3/ - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 1		9000 - 12 × 177400	500 MB 100 MB	A CONTRACTOR OF THE PARTY OF TH		ere valeriore	Maria de la compania	
B90-INTAKE-SS	- 44.4	3195	51.4	8.7			103/2					
Dan-IMITAINE-00	* 7717	7173	7117	<u> 1 Di 7 </u>		Ext	erior Wells		1	_		
				Manife	old Readings				Wellhead			
Monitoring	Vac	Flow	Temp "F	voc	02	CO ₂		al Sample Collected	Vac			
Point	(in. H ₂ O)	fpm		ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)		Com	ments
AOC65-VEW15	- 35.6	4276	36.2	4,3			1024		-0.2			
AOC65-VEW16	- 34.1	2214	39.5	4,9			1622		- 2,5			
AOC65-VEW18	- 34.6	1083	46.0	water-n	o sump.	/	1020	· /	- 3.1	can how	w valor a	st sump. port
AOC65-VEW28A	33.3	1498	46.5	4,5	/' _		1019	7	- 29.8			7
				9.0		7						-
AOC65-VEW28B	- 33.4	593	41.5	1 5.9	<i> </i>	/	1017	/	2.9			
AOC65-VEW28B B90-INTAKE-EX	- 33,4 - 34,1	1041	41.5 50.1	3.9			1027		. 2.9			
B90-INTAKE-EX	- 34.1	1041	50.1	5.3			1027		_ 3.9			
B90-INTAKE-EX	- 34.1 + 10.2				Istment		_	Vacuum F	2,9			
B90-INTAKE-EX	- 34.1	8917	50.1 118.2	7.0 Pre Adju	istment sure Gauge	Adjusted	1027		Relief Valve		Hours Meter	
B90-INTAKE-EX	- 34.1 + 10.2	1041 8917 Blow	50.1 118.2 er On	7.0 Pre Adju	sure Gauge		1027	Check	Relief Valve		Hours Meter	
B90-INTAKE-EX B90-EXHAUST Blower	- 39.1 + 10.2 System	104 8917- Blow	50.1 118.2 er On	7.0 Pre Adju	sure Gauge	CN	1027 1039 Pressure		Relief Valve	D	70127	
B90-INTAKE-EX B90-EXHAUST Blower Information	+ 10,2 System Subslab Exterior	104 8917- Blow 9	50.1 118.2 er On (N	7.0 Pre Adju Intake Pres	sure Gauge	GV) NO InuomA	1027 1029 Pressure	Check (Y)/ N (Y) / N Observations/Notes	Lube	9	70127 124580	
B90-INTAKE-EX B90-EXHAUST Blower Information Moisture	- 34.1 + 10.2 System Subslab Exterior System	104 8917- Blow O Y	50.1 118.2 er On (N	7.0 Pre Adju	sure Gauge	いる いる Amount (gs	1027 1029 Pressure	Check (V)/ N (Y) / N	Lube	9	70127 124580	
B90-INTAKE-EX B90-EXHAUST Blower Information	+ 10,2 System Subslab Exterior	104 8917- Blow 9	50.1 118.2 er On / N	7.0 Pre Adju Intake Pres	sure Gauge	GV) NO InuomA	1027 1029 Pressure	Check (Y)/ N (Y) / N Observations/Notes	Lube	9	70127 124580	

Date/Time	1.22.10/	0830			Operato	r. 5, El	1.014 +	B. Martin		Amb	ient T (°F) <u>5</u> 4-7	3° sunny
		Mc	onitoring				/ Month	ly / Quarterly / C				
					fold Read				Wellhead			
Monitoring Point	Vac in.H₂O	Flow	Temp °F	VOC	O ₂ vol %	CO ₂ vol %	Analytica Time	al Sample Collected	Vac		0	
Point	III.H 2 U	fpm		ppm	VOI %	Shallow		Summa Canister #	<u>in.</u> H ₂ O		Comments	
				<u> </u>		Silaliow	vens		T			
AOC65-VEW19			_									
AOC65-VEW20	-								-			
AOC65-VEW21	-											
AOC65-VEW23	-											
AOC65-VEW25												
AOC65-VEW27									_			
AOC65-INTAKE-SW										intake flo	w meter (SCFM)=	
						Deep W	'ells					
ACC65-VEW13	-											
AOC65-VEW14									-			
AOC65-VEW17												
AOC65-VEW22	-								-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								_			
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)=	
AOC65-EXHAUST	+					_						
					ustment			Vacuum	Relief Valve			
Blower	System	Blow	er On	1	ressure		sted	Check	Lub		Hours Meter	ļ
Information	Shallow	Y /		Ga	uqe	- 165	sure	Y / N	Y /	_	Tiodis Meter	ļ
	Deep		NY	50		νŌ		(Ŷ)/ N	Y 7	(V)		
Moisture	System	Inspe	ected	Emr	otied	Amount (ga		Observations/Not	tes:	Jul-dee	4	
Separator Information	Shallow	Y /			/ N			* blower off blower be	21011	11 - 1	Mari	
miorination	Deep	(3)	N	(Y)	/ N	31,5		pièmes pe	ing vebu	14 - 51	U10~	

Date/	Time : 1 · 3 i	10/0830) Monit	oring Event ((circle one)	or: S.Ellio Biweekly	4 + B.M. Monthly /	Quarterly / Other_		Ambient T (°	F) 54-73° SUMNY
					ead Reading				L		
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂	CO₂ vol %	Time	al Sample Collected Summa Canister#	4	Comments	•
1 0				PP	10170	_	slab Wells	ounnia ouniotei ii		- John Charles	
AOC65-VEW1	-										
AOC65-VEW2	-										
AOC65-VEW3									OFFLINE		
AOC65-VEW4									OFFLINE		
AOC65-VEW5									OFFLINE		
AOC65-VEW6									OFFLINE		
AOC65-VEW7									OFFLINE		
AOC65-VEW8	-										
AOC65-VEW9	-										
AOC65-VEW10	-										
AOC65-VEW11									OFFLINE		
AOC65-VEW12											
B90-INTAKE-SS											
				Manif	old Readings		erior Wells		Wellhead		
Monitoring	Vac	Flow	Temp	VOC	O 2	CO ₂	Analytic	al Sample Collected	Vac		
Point_	(in. H 2 O)	fpm	₽F'	ррт	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Com	ments
AOC65-VEW15									-		
AOC65-VEW16									-		
AOC65-VEW18									-		
AOC65-VEW28A											
AOC65-VEW28B									_		
B90-INTAKE-EX	-										
B90-EXHAUST	+										
				Pre Adju	stment			Vacuum I	Relief Valve		
Blower	System		er On		sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	0	/ N	84		no		<u>Ø</u> /N	Y W	70117	
	Exterior	Y	(N)	44		ND	Vicand	<u></u>	Y (1)	125946	
Moisture	System	Insp	ected	Emi	ptied	Amount (ga		Oxform of	- upon arrival		
Separator Information	Subsiab	0	/ N	Q	/ N	0					
	Exterior	(y)	/ N	(Y)	/ N	34					

Date/Time	2.9.10	10900			Operato	r: S.Ellie	H + 0	Bouch		Amb	ient T (°F) <u>29-47</u> °	·
		M	onitoring		cle one): fold Read		Month	y / Quarterly / (Other Wellhead			
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂	CO ₂ vol %	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments	
						Shallow	Wells		<u>'-</u>			
AOC65-VEW19									-			
AOC65-VEW20									-			
AOC65-VEW21	-			,	i	,	1/		-			
AOC65-VEW23	-	(FL-7	blower	661	y re	ov. t		-			
AOC65-VEW25	-	Ì .										
AOC65-VEW27	_								-			
AOC65-INTAKE-SW	-									intake flo	w meter (SCFM)=	
						Deep W	/ells					
AOC65-VEW13	- 38,6	5 231	41.5	10.1	\				- <u>2</u> , u			
AOC65-VEW14	- 403	1403	41.8			_/_	0029		- 12.4	polling in	rater from port	
AOC65-VEW17	-37.1	1821	42.4	98.1					-18.4		_	
AOC65-VEW22	-37.6	13/2	519			\bigvee			- 22.4	pulling 1	anter from port	
AOC65-VEW24	- 37.5	636	42.2	8,2					- 0.4	<u> </u>		
AOC65-VEW26	-37.8	754	43.5	16.2					- 30,6			
AOC65-INTAKE-DW	- 43.9	2284	44.0	28,2	7	1				intake flo	w meter (SCFM)=	
AOC65-EXHAUST	+1.5	2078	88.3	36.0								
					ustment			Vacuum	Relief Valve			
Blower	System	Blow	er On		ressure uae		isted sure	Check	Luk	e	Hours Meter	
Information	Shallow		/ (N)	00	<u>uue</u>		<u> </u>	Y/W	Y //			
	Deep	Y	7(N)	(2.2	5	/		(Y)/N	Y /(N)		
Moisture	System	Insp	ected	Emp	otięd		Xfered als)	Observations/No				
Separator Information	Shallow	Y	/(N)		/(N)			1 4 4 50	1.00			
	Deep	(Y)	/ N	(Y).	/ N	40						

Date	/Time : 🖟 🌖	10/0900	Monit	oring Event		or: 5 E Lo		Bach Quarterly / Other_		Ambient T (F) 19-47°
					ead Reading	s					
Monitoring	Vac	Flow	Temp	voc	0,2	CO ₂		cal Sample Collected			
Point	in.H₂O	fpm	°F	ppm	vol %	vol %	Time oslab Wells	Summa Canister#		Comment	<u> </u>
100051/51/4						301	SIAD WEIIS				
AOC65-VEW1	-								 	400	E M
AOC65-VEW2	-									Koley C	
AOC65-VEW3	-								OFFLINE		
AOC65-VEW4	-								OFFLINE		
AOC65-VEW5	-								OFFLINE		
AOC65-VEW6									OFFLINE		
AOC65-VEW7									OFFLINE		
AOC65-VEW8	-										
AOC65-VEW9											
AOC65-VEW10											
AOC65-VEW11						*			OFFLINE		
AOC65-VEW12	-										-
B90-INTAKE-SS	- 44.3	2501	47.8	5,4							
							erior Wells				
Monitoring	Vac	Flow	Temp	VOC	old Readings	CO ₂	Applydia	al Sample Collected	Wellhead Vac		
Point	(in. H ₂ O)	fpm	"F	ppm	vol %	vol %	Time	Summa Canister #	(in. H ₂ O)	Com	ments
AOC65-VEW15	- 44.1	710	39.1	3,8	1				- 0.4		
AOC65-VEW16	44.1	925	92442			/			3.6		
AOC65-VEW18	- 44,1	610	39.0	4.8		/			- 0.5		
AOC65-VEW28A	- 43.0	637	46.7	5,1					- 42.6		
AOC65-VEW28B	41.9	2021	42.7	2.9					- 4.7		
B90-INTAKE-EX	- 44.3	1108	44.7	6.4	(1					
B90-EXHAUST	+ 8,2	9085	116.7	6.6		,					
				Pre Adju	stment			Vacuum F	Relief Valve		
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	0	/ N	80				Y/N	YLN	70127	
	Exterior		(N)	50				YTN	Y/N	130165	
Moisture	System				At a al	Amount		Observations/Notes	s:		1
Separator	Subslab	Inspe	ected	Emp	otied	(ga	IS)				
Information	Exterior	(x)		(3)		72	1A				
in H-O: inches of water		form: feet per min			N N		40	VPV vacuum	soliof value	nel' Pounde per aquare	

Date/Time	: 2.22.1	0/0900			Operato	or: 5.El	liott			Amb	ient T (°F) 58°	
		M	onitoring		cle one)¿ fold Read		Month	ly / Quarterly / 0	Wellhead			
Monitoring	Vac	Flow	Temp	VOC	O ₂	CO2	Analytic	al Sample Collected	Vac			
Point	in.H 2 O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #	in. H 2 O		Comments	
						Shallow	Wells					
AOC65-VEW19	-								_			
AOC65-VEW20	-								-			
AOC65-VEW21	-											
AOC65-VEW23	-		_						-			_
AOC65-VEW25									_			
AOC65-VEW27	-											
AOC65-INTAKE-SW										intake flo	w meter (SCFM)=	
						Deep W	<u>'ells</u>	<u> </u>				_
AOC65-VEW13	-								-			
AOC65-VEW14	-	_					_					
AOC65-VEW17												
AOC65-VEW22	-								_			
AOC65-VEW24	-								-			
AOC65-VEW26	-								-			
AOC65-INTAKE-DW	-	_								intake flo	w meter (SCFM)=	
AOC65-EXHAUST	+											
Blower	System	Plow	er On	Intake F	ustment ressure		sted	Vacuum Check	Relief Valve		Hours Meter	
Information	Shallow		/ N	Ga	uae	(adjust to 75" H ₂	sure	Y / N	<u> </u>		NA NA	
	Deep	(3)		51		(adjust to 75" H ₂		(Ŷ/ N	(Ŷ)/		NA NA	
Moisture	System		ected	Emp	otied	1	Xfered	Observations/Not	tes:	to a high	er pressure	
Separator Information	Shallow		/ N		/ N	off			,		·	
	Deep	(Y)	/ N	(Y)	/ N	30						

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date	/Time :_ 2 · i	22.10/096	X) Moni		(circle one):		l.z++ Monthly /	Quarterly / Other_		Ambient T (°F)58°
				_	ead Reading					
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O₂ vol%	CO ₂	Time	cal Sample Collected Summa Canister #	-	Comments
							bslab Wells			
AOC65-VEW1										
AOC65-VEW2					_					
AOC65-VEW3									OFFLINE	
AOC65-VEW4									OFFLINE	
AOC65-VEW5									OFFLINE	
AOC65-VEW6									OFFLINE	
AOC65-VEW7	-								OFFLINE	
AOC65-VEW8	-									
AOC65-VEW9	-									
AOC65-VEW10	-									
AOC65-VEW11	-								OFFLINE	
AOC65-VEW12	-									
B90-INTAKE-SS	-									
				11	I-I D I'		erior Wells		10/-01	
Monitoring	Vac	Flow	Temp	VOC	old Reading O ₂	CO ₂	Analyti	cal Sample Collected	Wellhead Vac	
Point	(in. H ₂ O)	fpm	°F	ррт	vol %	vol %	Time	Summa Canister#	(in. H ₂ O)	Comments
AOC65-VEW15									-	
AOC65-VEW16	-								-	
AOC65-VEW18									-	
AOC65-VEW28A	_								_	
AOC65-VEW28B									-	
B90-INTAKE-EX					_					
B90-EXHAUST	+									
	0 1			Pre Adju	stment			Vacuum	Relief Valve	
Blower	System	Blow	rer On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter
Information	Subslab	(A)		63		(adjust to 65" H	20) (Y) N	⊘ / N	(Y)/N	
	Exterior	(9)	/ N		55	(adjust to 50" H	20) ()/ N	(X/N	(Y) N (N) N	133 ld5 70127
Moisture	System	Insp	ected	Emp	otied	Amount (ga	Xfered	Observations/Note:	s: aced mufflers	with VRVS, adjusted pressure I could get pressure &
Separator	Subslab		/ N	Y		0		55" H_0	us has larger	I T could get pressure 10
Information	Exterior		/ N	(Y)		25		1 9) 170 0	ns the looses	,
in.H ₂ O: inches of water		fpm feet per mi			ppm: parts per r			VRV: vacuum	relief valve	psi pounds per square inch

Date/Time	3.19.1	0/0900			Operato	r: 5.E	11.041	- J. Borch	24	Amb	ient T (°F)
		<i>N</i>	onitoring		rcie one): fold Read		/ /(Month	(IV) Quarterly /	Wellhead	<u> </u>	
Monitoring Point	Vac in.H ₂ O	Flow	Temp °F	VOC ppm	O ₂	CO ₂	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments
						Shallow	Wells				
AOC65-VEW19	-								-		
AOC65-VEW20	-	/		1	ook	VRV					
AOC65-VEW21	- 4	oyster	UT	1 11	(00)	VIC					
AOC65-VEW23	-										
AOC65-VEW25	-										
AOC65-VEW27	-								-		
AOC65-INTAKE-SW	-	5. F760								intake flo	w meter (SCFM)=
						Deep V	T-2.7				
AOC65-VEW13	- 34.9	4824	57.3	2.2	/	/	0905	/	- 15		
AOC65-VEW14	- 34.6	10540	58.0	2.3			0907		- D		
AOC65-VEW17	- 33.4	1158	58.8	4.0			0909		- 15.7		
AOC65-VEW22	- 34.1	8808	57.0	0.9			0911		- 27.9		
AOC65-VEW24	- 34.6	640	57.0	1.7			0913		-0,1		
AOC65-VEW26	- 32.6	4570	57.3	2.3			0915		- 25.3		
AOC65-INTAKE-DW	- 39.5	4041	59.7	2.8			0902			intake flo	w meter (SCFM)=
AOC65-EXHAUST	+1.9	2702	99.4	1.4	/_	/	0917	/			
	04				ustment ressure		usted	Vacuum	Relief Valve		
Blower	System	Blow	er On		uge uge		sure	Check	Luk	e	Hours Meter
Information	Shallow	Y	/(N)			(adjust to 75" H	20) Y/N	Y/N	Y /	N	NA_
	Deep	(Y)	/ Yi	50		(adjust to 75" H		(Y)/ N	Y /(N)	NA
Moisture	System	Insp	ected	Em	otied	1	Xfered	Observations/No	es:	-	
Separator Information	Shallow		/ N_		/ N	400	lack	c			
	Deep	(Y)	/ N	(Y)	<u>N</u> N		109 500	V			

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date	Time : 3 -	19.10/09	(00 Moni	toring Event	Operat (circle one):	or: 5.Ellir Biweekly (H + J.	Baich Quarterly / Other_		Ambient T (°	F) 54°
					ead Reading						
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂	CO ₂ vol %	Analytic Time	al Sample Collected Summa Canister #	_	Comments	
rome	20			ppin	VOI 78		slab Wells	Summa Camster #		Comments	<u> </u>
AOC65-VEW1											
AOC65-VEW2	_										
AOC65-VEW3									OFFLINE		
AOC65-VEW4									OFFLINE		
AOC65-VEW5									OFFLINE		
AOC65-VEW6									OFFLINE		
AOC65-VEW7									OFFLINE		
AOC65-VEW8	-										
AOC65-VEW9	-										
AOC65-VEW10											
AOC65-VEW11	-								OFFLINE		
AOC65-VEW12											
B90-INTAKE-SS	42.3	9544	67.8	0			0944				
			* 7				erior Wells				
				- 11					141.711		
Monitoring	Vac	Flow	Temp		old Readings		Analytic	al Sample Collected	Wellhead		
Monitoring Point	Vac (in. H ₂ O)	Flow fpm	Temp °F	Wanif VOC ppm	old Readings O ₂ vol %	CO ₂	Analytic Time	al Sample Collected Summa Canister #	Vac (in. H ₂ O)	Comi	ments
Point	(in. H ₂ O)	fpm	°F	VOC	0,	CO ₂	Time		Vac (in_ H ₂ O)	Comi	ments
AOC65-VEW15	(in. H ₂ O)	fpm 585	59.3	VOC ppm	0,	CO ₂	7ime		Vac (in. H ₂ O)	Comi	ments
AOC65-VEW16	(in. H ₂ O) - 44.1 - 44.1	585 1389	59.3 (60.2	VOC ppm	0,	CO ₂	0937 0935		Vac (in, H ₂ O) - 0 1	Comi	ments
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW18	(in. H ₂ O) - 44.1 - 44.1 - 44.1	585 1389 (al7	59.3 (60.2 58.2	VOC ppm	0,	CO ₂	0937 0935 0934		Vac (in. H ₂ O) - O 1 - 2.5 - O 2	Comi	ments
AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A	(in. H ₂ O) - YY.1 - YY.1 - YY.1 - YY.1	585 1389 617 690	59.3 (60.2 58.7 58.4	VOC ppm	0,	CO ₂	0937 0935 0934 0934		Vac (in. H ₂ O) - 0 1 - 2.5 - 0 2 - 39.5		
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A AOC65-VEW28B	(in. H ₂ O) - 44.1 - 44.1 - 44.1 - 44.1	585 1389 617 690	59.3 (20.2 58.7 58.4 59.3	VOC ppm	0,	CO ₂	0937 0937 0937 0937 0930		Vac (in. H ₂ O) - 0 1 - 2.5 - 0 2 - 39.5	comi	
AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A	(in. H ₂ O) - 44.1 - 44.1 - 44.1 - 44.1 - 44.1 - 44.1	585 1389 617 617 690 663	59.3 (20.2 58.4 58.4 59.3 (11.3	VOC ppm	0,	CO ₂	0937 0937 0939 0934 0930 0940		Vac (in. H ₂ O) - 0 1 - 2.5 - 0 2 - 39.5		
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A AOC65-VEW28B	(in. H ₂ O) - 44.1 - 44.1 - 44.1 - 44.1	585 1389 617 690	59.3 (20.2 58.7 58.4 59.3	VOC ppm	O ₂ vol %	CO ₂	0937 0937 0937 0937 0930	Summa Canister #	Vac (in. H ₂ O) - 0.1 - 2.5 - 0.2 - 39.5 - 0 - 7(u		
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX	(in. H ₂ O) - 44.1 - 44.1 - 44.1 - 44.1 - 44.1 - 44.1 - 44.1 - 44.1	585 1389 617 617 690 663	59.3 (20.2 58.4 58.4 59.3 (11.3	VOC ppm O O O O O Pre Adju	O ₂ vol %	CO ₂ vol %	0937 0935 0939 0931 0932 0940	Summa Canister #	Vac (in. H ₂ O) - 0 1 - 2.5 - 0 2 - 39.5		
Point AOC65-VEW15 AOC65-VEW18 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX B90-EXHAUST	(in. H_2O) - 44.1 -	585 1389 617 690 663 1510	59.3 (20.2 58.3 58.4 59.3 (11.3	VOC ppm O O O O O Pre Adju	O 2 vol %	CO 2 vol %	7ime 0937 0937 0939 0930 0930 0940	Vacuum F	Vac (in. H ₂ O) - 0 - 2.5 - 0 - 39.5 - 0 - 7(u) Relief Valve	e may be le	
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX B90-EXHAUST	(in. H_2O) $\begin{array}{cccc} & & & & & & & & & & & \\ & & & & & & & &$	585 1389 617 690 663 1510	59.3 (20.2 58.7 58.4 59.3 (11.3 124.1	VOC ppm O O O O O Pre Adju	O 2 vol %	Adjusted (adjust to 65" H	7ime 0937 0935 0939 0930 0940 0940 0940	Vacuum F	Vac (in. H ₂ O) - 0 . 1 - 2 . 5 - 0 . 2 - 39.5 - 0 - 7(u Relief Valve Lube Y /(N)	e may be le	
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX B90-EXHAUST	(in. H_2O) - 44.1 -	585 1389 617 690 663 1510	59.3 (20.2 58.3 58.4 59.3 (11.3	VOC ppm O O O O O Pre Adju	O 2 vol %	Adjusted (adjust to 65" H;	7ime 0937 0937 0938 0938 0930 0940 0940 0947	Vacuum F Check (Y) / N	Vac (in. H ₂ O) - 0 . 1 - 2 . 5 - 0 . 2 - 39.5 - 0 - 7 (u) Relief Valve Lube Y / N Y / N	e may be le	
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX B90-EXHAUST	(in. H_2O) $\begin{array}{cccc} & & & & & & & & & & & \\ & & & & & & & &$	585 1389 617 690 663 650 10913	59.3 (20.2 58.7 58.4 59.3 (11.3 124.1	VOC ppm O O O O O Pre Adji	O 2 vol %	Adjusted (adjust to 65" H; (adjust to 50" H;	7ime 0937 0937 0938 0938 0930 0940 0940 0940 0940 Nover (Y) N	Vacuum F	Vac (in. H ₂ O) - 0 . 1 - 2 . 5 - 0 . 2 - 39.5 - 0 - 7 (u) Relief Valve Lube Y / N Y / N	e may be le	
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX B90-EXHAUST Blower Information	(in. H ₂ O) - 44.1 - 44.1 - 44.1 - 44.1 - 44.1 - 44.1 - 59.2 System Subslab Exterior	fpm 585 1389 (117 G90 (163 15 10 10913 Blow (17) (17	59.3 (40.2 58.4 59.3 (41.3 (41.3	VOC ppm O O O O O Pre Adji Intake Pres	vol %	Adjusted (adjust to 65" H;	7ime 0937 0937 0938 0938 0930 0940 0940 0940 0940 Nover (Y) N	Vacuum F Check (Y) / N	Vac (in. H ₂ O) - 0 . 1 - 2 . 5 - 0 . 2 - 39.5 - 0 - 7 (u) Relief Valve Lube Y / N Y / N	e may be le	

Date/Time	: 3.30	10/0900			Operato	r: S.E	11.0+1			Amb	ient T (°F)	
		<i>M</i>	lonitoring		rcle one): fold Read		>/ Month	nly / Quarterly / C	Other Wellhead			
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂	CO ₂	Analytic Time	al Sample Collected	Vac in. H ₂ O		Comments	
	2	.,		PP···	10.70	Shallow	Wells				••••••	
AOC65-VEW19	-								-		-	
AOC65-VEW20	- "	/		/	/		ì	1				
AOC65-VEW21	-	VKV	repla	Ced	and	542	tm	turned	OV			
AOC65-VEW23	-		,			· 			-			
AOC65-VEW25	-											
AOC65-VEW27	-								-	_		
AOC65-INTAK ::- SW	-									intake flo	w meter (SCFM)=	
	1	r -				Deep V	<u>/ells</u>					
AOC65-VEW13	-								-			
AOC65-VEW14	-								-			
AOC65-VEW17	-								-			
AOC65-VEW22	-								-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								-			
AOC65-INTAKE-DW	_									intake flo	w meter (SCFM)=	
B90-EXHAUST	+										,	
Blower	System	Blow	er On	Intake F	ustment Pressure	_	sted sure	Vacuum Check	Relief Valve Lub		Hours Meter	
Information	Shallow		/ N	40	uge	Couldn't	sure	(Ý/N	Y /(Flours Weter	
	Deep		/ N	45		couldnit		(Y) / N	(3)			ĺ
Moisture	System	Insp	ected		otied	Amount		Observations/Not	es:			
Separator Information	Shallow	\bigcirc	/ N	Ø	i N	0						
	Deep	()	/ N	\Diamond	/ N	28		1		,		

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date	e/Time :_3 +3	10/01/01	OO Moni	itoring Event	(circle one).	or: S.El Biweekly)	Nonthly / C	Quarterly / Other		Ambient T (°	70°
					ead Reading			1 300 AV 14 A			
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O 2 vo/ %	CO ₂	Analytic Time	al Sample Collected Summa Canister #	-{	Comments	8
r omt	20	τριιι		ppm	10/70		slab Wells	Summa Campton #		Comments	
AOC65-VEW1								-	1		
AOC65-VEW2	-							1			
AOC65-VEW3							THE REAL PROPERTY.		OFFLINE		2
AOC65-VEV:4	-		1000000					TO BE TO THE	OFFLINE	1944	CULTURAL TOTAL STATE
AOC65-VEW5	A CONTRACTOR OF THE PARTY OF TH	THE RES		PIN NO.		-			OFFLINE		
AOC65-VEW6			000	53 S Ad	De la latin			PER CHEAT	OFFLINE	Contract of	ON THE WAY
AOC65-VEW7		TO DE LA		TA POLI					OFFLINE		
AOC65-VEW8	-							,			
AOC65-VEW9					_	i					
AOC65-VEW10	-									.	
AOC65-VEV/11	-		Bassass						OFFLINE		
AOC65-VEVv i2	_										
B90-INTAKE-SS	-									-	
				· .			erior Wells				
Monitoring	1/00	Elow	Tomp		old Reading:		Analysis	al Samula Callested	Wellhead		
Monitoring Point	Vac (in. H ₂ O)	Flow fpm	Temp °F	Manif VOC ppm	old Readings O ₂ vol %	CO ₂	Analytic Time	al Sample Collected Summa Canister #	Vac (in. H ₂ O)	Com	nments
Point			Temp °F	voc	0 2	CO ₂			Vac	Com	nments
AOC65-VEW15			Temp °F	voc	0 2	CO ₂			Vac	Com	ments
AOC65-VEW15 AOC65-VEW16			Temp °F	voc	0 2	CO ₂			Vac	Com	nments
AOC65-VEW15 AOC65-VEW16 AOC65-VEW18			Temp °F	voc	0 2	CO ₂			Vac	Com	nments
AOC65-VEW15 AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A			Temp °F	voc	0 2	CO ₂			Vac	Com	nments
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A AOC65-VEW28B			Temp °F	voc	0 2	CO ₂			Vac	Com	nments
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX			Temp °F	voc	0 2	CO ₂			Vac	Com	nments
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A AOC65-VEW28B			Temp °F	VOC ppm	O ₂ vol %	CO ₂		Summa Canister #	Vac (in. H 2 O)	Com	nments
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW18 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX		fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂	Time	Summa Canister #	Vac	Com	nments
Point AOC65-VEW15 AOC65-VEW18 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX	(in. H ₂ O)	fpm	°F	VOC ppm	O 2 vol %	CO ₂ vol %	Time	Summa Canister # Vacuum F	Vac (in. H 2 O) Lube		nments
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX B90-EXHAUST	(in. H ₂ O)	fpm	°F	Pre Adju	O 2 vol %	CO 2 vol %	Time	Vacuum F Check	Vac (in. H ₂ O)		nments
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX B90-EXHAUST Blower Information Moisture	(in. H ₂ O) System Subslab	Blow	ver On // N // N pected	Pre Adju	O 2 vol %	CO ₂ vol % Adjusted	Time	Vacuum F	Vac (in. H ₂ O)		nments
Point AOC65-VEW15 AOC65-VEW16 AOC65-VEW28A AOC65-VEW28B B90-INTAKE-EX B90-EXHAUST Blower Information	(in. H ₂ O) System Subslab Exterior	Blow Insp	ver On // N	Pre Adju	O 2 vol % streent sure Gauge	CO ₂ vol % Adjusted 50	Time	Vacuum F Check	Vac (in. H ₂ O)		nments

V	1/00			Manif	old Read	ings			Wellhead	ri Sam	
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂	Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments
	And the second	7		PP		Shallow	Wells				
AOC65-VEW19	-34.9	780	69.2	4.5	\		1317	1 34204	- 30.7		
AOC65-VEW20	- 35,9	807	69.2	0			1324	V 33322	- 36.3		
AOC65-VEW21	- 35.4	453	69.7	0			1330	V33652	- 34.6		
AOC65-VEW23	- 36.1	434	69.2	0			1338.	V 4189	- 36.3		
AOC65-VEW25	- 35.4	482	70.3	0			1345	V 35/61	- 36.9		
AOC65-VEW27	- 35.4	473	70.1	17.7	_		1351	V 2472	- 36.5	_	
AOC65-INTAKE-SW	- 345	.555	67.8	4.6	\		1311	1 34467		intake flo	ow meter (SCFM)=
						Deep W	ell s				
AOC65-VEW13	- 34.3	5618	47.9	0	\	Δ		X	- 1.6		
AOC65-VEW14	- 34.6	304	45.6	0	_			χ	- 2.1		
AOC65-VEW17	- 32.2	1206	67.0	0			1243	V 35254	- 15.4		
AOC65-VEW22	- 34,3	4140	58.9	Ŏ			1250	V 3085	- 29.0	7	
AOC65-VEW24	- 33.7	335	60.6	0	7			X	- 0.2		
OC65-VEW26	- 32.6	1243	60.2	0			1360	12987	- 23.6		
OC65-INTAKE-DW	- 38,3	4347	46.5	0			1233	V 12672		intake flo	ow meter (SCFM)=
OC65-EXHAUST	+ 2.4	1044	121.2	0				Х	NEW YORK		
	,			Pre Adju	stment			\(\text{Vacuum} \)	Relief Valve		
Blower	System	Blowe	er On	Intake P Gaเ		Adju	sted sure	Check	Luk	ne.	Hours Meter
Information	Shallow	(D)	ELSE 1 1 1 1 1 1 1 1.	45		(adjust to 75" Hz	o) Y (N)	/8 / N	Y /(~	NA NA
	Deep	(A)	N	50		(adjust to 75" H ₂		(Ý)/ N	Y //		NA NA
Moisture	System	Inspe	ected	Emp	tied	Amount (ga		Observations/Not	es:		
Separator Information	Shallow	(3)		(9)		B					
o.mation	Deep	<u>(Y)</u> /	N	(P)/	N	10					

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/	Time : 4/8	110	Monit	toring Event	(circle one):	or: 5 Ellis Biweekly /	H +J. Monthly /	Quarterly Other	Annual San	Ambient T (°F)
_,		,		Wellh	ead Reading	S				<u> </u>	
Monitoring Point	Vac in.H₂O	Flow fpm	Temp °F	VOC ppm	O₂ vol%	CO ₂ vol %	Analytic Time	cal Sample Collected Summa Canister #	4	Comment	e
Point	111.1120	ipin		ppiii	VOI 78		slab Wells	Summa Camator #		Comment	
AOC65-VEW1											
AOC65-VEW2		-7.4								-	
AOC65-VEW3	TENIE I	14-12-2							OFFLINE		personal in the state of the contents,
AOC65-VEW4		Riche V						Mary Control of	OFFLINE	MINISTER NO.	
AOC65-VEW5		N. C. L.	THE LOW	1 THE				- 16 - A - 7	OFFLINE		***
AOC65-VEW6		1211111			THE STATE OF	TO BE		HA BIR SHA	OFFLINE		
AOC65-VEW7									OFFLINE		
AOC65-VEW8	-										· ·
AOC65-VEW9	-			· ——							
AOC65-VEW10	-										
AOC65-VEW11	_	ROSCOT PARK					The late		OFFLINE		
AOC65-VEW12	-										CONTRACTOR DESCRIPTION OF THE PERSON OF THE
B90-INTAKE-SS	- 37.2	3441	(20.)	\circ			113.0	V 34423			
		,,,,,					erior Wells				
Monitoring	Vac	Flow	Temp	Manif VOC	old Reading	CO ₂	Analidi	cal Sample Collected	Wellhead		
Point	(in. H ₂ O)	fpm	"F	ppm	O₂ vol%	vol %	Time	Summa Canister #	(in. H ₂ O)	Com	ments
AOC65-VEW15	- 443	715	58.6	0	\	\		X	-0.1		
AOC65-VEW16	- 44.1	1404	59.3	D				MX	- 3/	5	
AOC65-VEW18	- 44.3	710	58.0	0				X	- Ox 0.	2	
AOC65-VEW28A	- 44.1	744	57.9	Ô			1050	V 11879	- 44.1		
AOC65-VEW28B	- 44. 3	591	58.9	Ō	\		1057	12938	3# 4.	a	
B90-INTAKE-EX	- 43.4	1507	120.4	0			1105	1 34348	ASSESSED.		
B90-EXHAUST	+10,2	485	147.8	0				X			· -
AOC65-POSTGAC	+	2133	74.1	Ö			1113	V 12338			
- HAVE TO BE	7			Pre Adju	stment				Relief Valve		·
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab		/ N	50)	(adjust to 65" H	20) (N (Y /Q	70127	
	Exterior		/ N	55			I ₂ O)(Y)/N ≪	(Y)/N	Y /(N)	134 296	
Moisture	System	The same				Amount	Xfered	Observations/Note	s:		
Separator	Subslab		ected		otied	(ga	als)	1			
Information	Subslab Q / N Q / N Exterior (Y) / N (Y) / N					~		1			
in.H ₂ O inches of water	24.000	fnm: feet ner mi		<u> </u>	IN			\/P\/: \/201111		nei: nounde per equare	

Date/Time	: 4.22.10	10430			Operato	or: S.Ell	off	- / -		Am	bient T (°F)	
	·	<u> </u>	onitoring		rcle one): fold Read		Month	nly / Quarterly / (Wellhead			
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC	O ₂	CO ₂	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments	
(A)		50 3 70 60 60 60 60 60 60 60 60 60 60 60 60 60			electropiestes (describe)	Shallow	Wells	[10.640] TAKEN ELLOSSE 20.660 (2000) 70.			po-to control entrole ou entrole en esta en esta entrole en esta en esta entrole en esta en esta entrole en esta entrole en esta entrole en esta entrole en esta en entrole en	
AOC65-VEW19	-	201							-			
AOC65-VEW20									-			
AOC65-VEW21	-	Ÿ							-			
AOC65-VEW23									-			
AOC65-VEW25	-						1		-			
AOC65-VEW27	=								-			
AOC65-INTAKE-SW										intake flo	ow meter (SCFM)=	
						Deep W	ells					
AOC65-VEW13	-								-			
AOC65-VEW14	-								-			
AOC65-VEW17	-								-			
AOC65-VEW22	-								-			
AOC65-VEW24	-								-			
AOC65-VEW26	-								_			
AOC65-INTAKE-DW	-									intake flo	ow meter (SCFM)=	
AOC65-EXHAUST	+										(= = :::)	
Blower	System	Blow	er On	Intake F	ustment Pressure uge		sted sure	Vacuum Çheck	Relief Valve		Hours Meter	
Information	Shallow	(2)		30		(adjust to 75" H ₂	0) Y (N)*	(Ý) / N	Lub	N	NA	
	Deep	(Ŷ)	/ N	4		(adjust to 75" H ₂	0) Y 10 a	n+ (Y)/N	Υ (N)	NA	
Moisture Separator	System		ected		otied	(ga	Xfered	Observations/Not	es:	cont	increase pressure	e
Separator =	Shallow	$ \bigcirc$			/ N	0		ŕ	r			
× 5 78 7 5 5	Deep	(Y)	N	(Y)	/ N	8						

in.H2O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/	Time : 4.23	1.10 /0831) Moni		(circle one)		Nonthly /	 Quarterly / Other	-	Ambient T (°	°F)				
A # waste # reads	N. Calanti				ead Reading										
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol%	CO ₂ vol %	Analytic Time	al Sample Collected Summa Canister #	-	Comments	e				
rom	20	· ipiii		μριιι	10770	90 30000 00 10	slab Wells	Cannia Camster #		Comments	•				
AOC65-VEW1	-														
AOC65-VEW2	_														
AOC65-VEW3	and the same			RECEIVE.	hay de c	MI PALL			OFFLINE	2374, 219	THE RESERVE OF THE PARTY.				
AOC65-VEW4				PER S	Barrian.				OFFLINE	THE REAL PROPERTY.					
AOC65-VEW5		***			MILL VALUE		70.		OFFLINE	911					
AOC65-VEW6					Ley CULTY	to the			OFFLINE	THE RESERVE					
AOC65-VEW7						MESS			OFFLINE						
AOC65-VEW8	-														
AOC65-VEW9	-							¥ 1 <u>-2</u>							
AOC65-VEW10															
AOC65-VEW11				3 5 5 5 5		H THE			OFFLINE	***					
AOC65-VEW12	-										TO SECULIAR				
B90-INTAKE-SS	-	•					<i>'</i>			,					
			<u>'</u>				rio. v 'ells								
	200				old Reading				Wellhead						
Monitoring Point	Vac (in. H₂O)	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂ vol %	Analytic Time	al Sample Collected Summa Canister #	Vac (in. H₂O)	Com	ments				
AOC65-VEW15	-														
AOC65-VEW16									-1	,					
AOC65-VEW18	_								-	8					
AOC65-VEW28A	-								-1		*				
AOC65-VEW28B	_														
B90-INTAKE-EX	-								WERE	*					
B90-EXHAUST	+									·					
AOC65-POSTGAC	+														
			Į.	Pre Adju	stment	1	I.	Vacuum F	Relief Valve						
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter					
Information	Subslab	Υ	(W) T		40	(adjust to 65" H	2O) (Y) N	(∕) N	(Y)/ N	70127					
	Exterior	Y	1 M 19	80/5	V	(adjust to 50" H		(Y) / N	Ø N	139177					
Moisture	System	Inch	ected	I Em	otied	Amount (ga		Observations/Notes	ers off upon URV needs m	arrival					
Separator	Subslab	(Ý)		_ ^	/ N	099	13)	TOOM BILL	امران و الم	he sanca					
Information	Exterior	Ø			/ N	0		- Substab	IRV needs m	um renunce					
in H.O: inches of water			0.40	<u> </u>		L.		MDM.	and pounds not square inch						

in.H₂O: inches of wate

fprq: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/Time : 5 1/1.	10 0	83 <u>0</u>	Operator	: <u>1.Boi</u>	nch;	S.EI	Liott	Monitoring Event:	Biweekly (N	onthly Quarterly / Ot	ther
				Manif	old Readi	ings	_		Wellhead		
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analyti Time	cal Sample Collected Summa Canister #	Vac in. H ₂ O	C	omments
							Shallo	w Wells			
AOC65-VEW19	26	5-25	-35,2	540	71.9	8.5	0724		- 34.1		
AOC65-VEW20	27	10-25	_ 35,3	354	76.9	0	0925	,	33.3		
AOC65-VEW21	27	12-27	_35.7	544	76.9	0	0927		- 33.2		
AOC65-VEW23	21	6-21	_ 35, 3	1910	76.8	C	0930		34.4	_	
AOC65-VEW25	21	6-21	_35.0	· · · · ·	77.3		6932		- 34.8		
AOC65-VEW27	21	6-21	_ 35,2	618	77,3		0434		34,2		
AOC65-INTAKE-SW		ij as tati	_ 35,1	1918 1917	79.5	7.2	0921 Deep	Wells			
	20 7 20 10 10 10 10 10 10 10 10 10 10 10 10 10								1 1 11		
AOC65-VEW13	41	15-40	-30.5	2441	76.0	0	0907		1.4		<u> </u>
AOC65-VEW14	61	40-60	_ 30:3	541	71.2	0	0903		_ 0		
AOC65-VEW17	52.5	22-52	-24.5	1703	76.0	0	0910		16.5		·
AOC65-VEW22	51	25-56	245	1033	75.9	0	0912		28.1		
AOC65-VEW24	50	25-50	_29.5	440	76.4	Ò	0914	`	- 0.1		
AOC65-VEW26	50	25-50	24.4	1006	76.0	Ò	0914		-26.7		
AOC65-INTAKE-DW			-34.8	6436	75.3	0,2	0904				
AOC65-EXHAUST		74 HR H	£. (+	5144	121.2	0	0914				
	System			Initial	Pre Adj Intake	ustment Adii	usted	Final Intake	Vacu	um Relief Valve	
Blower		Blowe	er On		sure		ssure	Pressure	Check	Lube	Hours Meter
Information	Shallow	O	N	34		(adjust to 75" F	l₂0) Y (N)	35		Y (N	NA
	Deep	0)/	N	40			_{l₂O)} Y (N)	K 44	(₹) / N	Y /(N)	NA
Moisture	System	Inspe	cted	Emp	otied		Xfered	Observations/Note	es:	impletely shut,	enn't get pressure
Separator Information	Shallow	(A)	N	\bigcirc)	any higher		. ,	•
,,,,o,,,,auon	Deep	(§/	N	(Ŷ)	/ N		$\overline{\mathcal{O}}$	a.yner	, 		

Date/Time : 5 ·	1-10	0831	2	Operator: \(\sqrt{2} \)	Bonch	S.EI	iott	Monitorin	ng Event: Biweekly	Monthly Qu	uarterly / Other	
					Wellhead	Readings				7		
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analytica Time	Sample Collected Summa Canister #		Comments	
						Subs	lab Wells					
AOC65-VEW1	_									ļ		
AOC65-VEW2				<u>-</u>								
AOC65-VEW3				- 11 47 11.						OFFLINE		Help
AOC65-VEW4										OFFLINE		
AOC65-VEW5										OFFLINE		
AOC65-VEW6										OFFLINE		4458
AOC65-VEW7	POLICE IN									OFFLINE		i i
AOC65-VEW8				_								
AOC65-VEW9												
AOC65-VEW10				-								
AOC65-VEW11										OFFLINE		Marie
AOC65-VEW12			100 5 20 7 300 00 1	_								
B90-INTAKE-SS				- 35.4	12904	50.7	0	COD				
						<u>Exte</u>	rior Wells					
Monitoring	Total Depth	Screened	Water Level	Vac	Manifold F		voc	Amalidical	I Sample Collected	Wellhead Vac		
Point	ft. BTOC	Interval	ft. BTOC	(in. H ₂ O)	fpm	Temp °F	ppm	Time	Summa Canister #	(in. H ₂ O)	Comments	
AOC65-VEW15	13	5-12		44.1	615	78.2	0	0451		. 0		
AOC65-VEW16	41	15-40		-44.1	2314	77.8	Q	0950		- 3,3		
AOC65-VEW18	56	15.5-55.5		44.1	771	77.5	0	0946		<u>0</u> , 3		
AOC65-VEW28A	120	80-120		44.1	664	77.3	0	0945		41.9		
AOC65-VEW28B	179	139.3-179.3		- 44.1	754	77.3	0	0943		. 0		
390-INTAKE-EX				- 44.1	2215	75.2		0954		104 147 19		
B90-EXHAUST	e 744th As			+ 9.6	1446	131.8	0_	0956				
AOC65-POSTGAC				+								
	System				Pre Adjustme	ent	Pressure	Final Intake	Vacuum	Relief Valve		
Blower	System	Blov	ver On		sure Gauge			Pressure	Check	Lube	Hours Meter	
Information	Subslab	Y	/(N)	5	<u> </u>	(adjust to 65" H₂O) (y)/ N	56	⊘ /N	Y /(N)	70127	
	Exterior	ΥΥ	(B)	_		(adjust to 50" H₂O) (Y) N	58	Ø N	Y / [N]	139 358	
Moisture	System Inspected Em	Emp	otied	Amount Tran	sferred (gals)	Observations/	/Notes:					
Separator Information	Subslab	Ø	,/ N	(<u>Q</u>)		Õ						
	Exterior	<u></u>	/ N		/ N	\square						

Date/Time : 5 , 2	7.10	0830		Operator:	S.EllioH	+ B. Mar	fin	Monitorin	g Event: Biweekly	Monthly / Qu	uarterly / Other
					Wellhead I	Readings					
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analytica Time	Sample Collected Summa Canister #		Comments
Point	n. BIOC	Interval	n. BIOC	111.1120			slab Wells	11	Summa Canister #		Comments
AOC65-VEW1				-							
AOC65-VEW2											
AOC65-VEW3		V 11180 C				Andrew St.				OFFLINE	
AOC65-VEW4			ne in a	Length partition.	Transfer and					OFFLINE	
AOC65-VEW5		E terior				80 - C 198 340				OFFLINE	
AOC65-VEW6		Au mire cultu				11 11 11 11 11 10 10 10 (e.u.) 9				OFFLINE	
AOC65-VEW7	E e de But									OFFLINE	
AOC65-VEW8				Linking or Control (v. 1 WE)	(a.b.()4000)	C Palmulin Philippide Daggi (Sci. 4 Million)	1000 1444-00-241-12 (3) (30)	THE PROPERTY OF THE PROPERTY O	20 (Construction of 1 1003 or from a 12 (1004) 10 (1004)		
AOC65-VEW9				-							
AOC65-VEW10				-							
AOC65-VEW11										OFFLINE	
AOC65-VEW12	BC444511 (14145 - 2014 - 5 - 201		gazzet Maria de la compania	industrial of an and and agency	day gadase renasis virilago (10. 1999)	<u>pjesjandikasettase ogs</u> sisk (<u> en Blade de la la la companya de l</u>		e e e mante en antique <u>també tales a transport a partir de co</u>		ONE SET OF THE POST OF THE POS
B90-INTAKE-SS				-							
_				<u> </u>			rior Wells				
Monitoring	Total Depth	Screened	Water Level	Vac	Manifold F	Readings Temp	voc	Analytical	Sample Collected	Wellhead Vac	,
Point	ft. BTOC	Interval	ft. BTOC	vac (in. H₂O)	fpm	°F	ppm	Time	Summa Canister #	(in. H₂O)	Comments
A OCCE VENALE	42	E 40									
AOC65-VEW15	13	5-12								-	· · · · · · · · · · · · · · · · · · ·
AOC65-VEW16	41	15-40		-	<u>_</u>					-	
AOC65-VEW18	56	15.5-55.5		<u>-</u>						-	
AOC65-VEW28A	120	80-120		-							
AUC05-VEVV26A	120	00-120		<u>- </u>							
AOC65-VEW28B	179	139.3-179.3		-						-	
B90-INTAKE-EX		CES (MIS)		-							
B90-EXHAUST				+							
								_			
AOC65-POSTGAC				+	Pre Adjustme	ent			Vacuum R	lelief Valve	
	System		_	Intake Pres	sure Gauge		Pressure	Final Intake			
Blower Information		_	wer On			(adjust to 65" H ₂ C	_	Pressure	Check	Lube	Hours Meter
momation	Subslab		<u> </u>		_	62	Q/N	Ø/ N	70127		
	Exterior Y (N) (N)		(adjust to 50" H₂C		50	(Ŷ) N	N (Š)	140563			
Moisture	System	Insp	pected	Emp	otied	Amount Tran	sferred (gals)	Observations/	Notes:		
Separator	Subsiab	a		(3	/ N	0					
Information	Exterior	()	$\overline{}$		<u>/ N</u> / N	Ň					
in.H ₂ O: inches of water			N fpm: feet per min		N N	ppm: parts per mi	flion		VRV: vacuum	relief valve	psi: pounds per square inch

Spanner wrench

Date/Time : <u>5</u> ・27・	10 /08	30	Operator	: S.Ella	H+.	B. Mwt.	n	Monitoring Event:	Biweekly /	Monthly	/ Quarterly / O	ther
				Manif	old Readi	ngs			Wellhead			
Monitoring	Total Depth			Flow	Temp	voc		al Sample Collected	Vac			
Point	ft BTOC	Interval	in.H₂O	fpm	°F	ppm	Time	Summa Canister #	in. H ₂ O			Comments
						r	Shallo	w Wells				
AOC65-VEW19	26	5-25	-						-			
AOC65-VEW20	27	10-25	-				1		-			
AOC65-VEW21	27	12-27	-						-			
AOC65-VEW23	21	6-21	-						_			
AOC65-VEW25	21	6-21	_						-			
AOC65-VEW27	21	6-21	-						-			
AOC65-INTAKE-SW			_				Doon	Wells				
								TTEIIS	T 1		_	
AOC65-VEW13	41	15-40	-						-			
AOC65-VEW14	61	40-60	_						-			
AOC65-VEW17	52.5	22-52	-						-			
AOC65-VEW22	51	25-56	-						-			
AOC65-VEW24	50	25-50	-						-			
AOC65-VEW26	50	25-50	-						_			
AOC65-INTAKE-DW			-									
AOC65-EXHAUST			+		Dun Adi				V	Da	liaf Value	· · · · · · · · · · · · · · · · · · ·
	System		_	Initial	Pre Adji Intake	ustment Adiu	sted	Final Intake	va.	caum Ke T	lief Valve	
Blower	0,000,,	Blowe	er On		sure	Pres		Pressure	Chec	ck	Lube	Hours Meter
Information	Shallow	0 1		36		(adjust to 75" H ₂	o) Y (N)	valve shut	(Q)	N I	(Ŷ)/ N	NA NA
	Deep	(Y)/		50		(adjust to 75" H ₂		no VRV	Y //		Y /(N)	NA NA
Moisture	System	Inspe		-	tied		Xfered	Observations/Note				
Separator	Shallow	(Ŷ)/	N	8	/ N	C)					
Information	Deep	(Y)		\sim		(

Montroling Total Dupith Screened Water Level Nat Vac Figm Total Dupith Screened Nat Vac Figm Total Dupith Screened Nat Vac Figm Total Dupith Screened Nat Vac Figm Nat Vac F	Date/Time : 6 · 1 ¹	5.10 /	0400		Operator:	Ellott	+A.L.nd	ley	Monitorin	g Event: Biweekly (Monthly /	Quarterly / Other
Point						Wellhead	Readings					
Substate Welfs							Temp °F					Comments
ACC65-VEW2 ACC65-VEW3 ACC65-VEW4 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW6 ACC65-VEW7	- Gint	12700	interval.			·p	Subs			Carrier Carrier II		
ACC65-VEWS	AOC65-VEW1				-							
AOC65-VEW9 AOC65-VEW112 BO-INTAKE-SS BO-INTAKE-SS I J J4 J D13	AOC65-VEW2				_							
ACC65-VEVW5 ACC65-VEVW6	AOC65-VEW3										OFFLINE	
AOC65-VEW9	AOC65-VEW4										OFFLINE	
ACC65-VEW/9 BO-INTAKE-EX BO-EXHAUST ACC65-VEW/2 BO-ONTAKE-EX BO-ONTAKE	AOC65-VEW5										OFFLINE	
AOC65-VEW9 AOC65-VEW9 AOC65-VEW10 AOC65-VEW11 AOC65-VEW12 AOC65-VEW12 AOC65-VEW12 AOC65-VEW12 AOC65-VEW12 AOC65-VEW12 AOC65-VEW13 AOC65-VEW13 AOC65-VEW13 AOC65-VEW13 AOC65-VEW13 AOC65-VEW13 AOC65-VEW15 AOC65-VEW16 AOC65-VEW16 AOC65-VEW16 BOOK17AKE-EX B	AOC65-VEW6	The bush								电影	OFFLINE	
ACC65-VEW104 ACC65-VEW112 ACC65-VEW12 BDO-INTAKE-SS BO-INTAKE-SS BO-IN	AOC65-VEW7										OFFLINE	
ACC65-VEW12	AOC65-VEW8				-							
AOC65-VEW12 AOC65-VEW12 BOO-INTAKE-SS -34.4 1043 & \$3.6 \ C 103 BOO-INTAKE-SS -34.4 1043 & \$3.6 \ C 104 C 104	AOC65-VEW9				-					٠		
ACC65-VEW12	AOC65-VEW10				-							
B90-INTAKE-SS B B B B B B B B B	AOC65-VEW11										OFFLINE	
	AOC65-VEW12				-							
Manifold Readings	B90-INTAKE-SS				- 34.4	10426			1031			
Monitoring Point						Manifold I		rior Wells			Wellhead	
AOC65-VEW15 13 5-12	Monitoring	Total Depth	Screened	Water Level	Vac		Temp	voc		Sample Collected		
AOC65-VEW16 41 15-40 - 40.5 2555 85.4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Point	ft. BTOC	Interval	ft. BTOC		fpm	-			Summa Canister #		Comments
AOC65-VEW18 56 15.5-5.5	AOC65-VEW15	13	5-12		_ 40.6	886	86.1	L Ô	1015		_ 0	
AOC65-VEW18	AOC65-VEW16	41	15-40		- 40.5	2555	85.4	0	1018		3.9	
AOC65-VEW28A 120 80-120		56	15.5-55.5		- 40.9	888	85.2	0	1020		_ 0,2	
AOC65-VEW28B 179 139.3-179.3		120	80-120		- 40.9	741	83.2	0	1022		39.1	
B90-INTAKE-EX B90-EXHAUST		470	400 0 470 0		40.7	723	829	Δ	1024			
Boundary Blower Blower On Blower On Substab Dispersion D	AUC65-VEVV28B	179	139.3-179.3									
ACC65-POSTGAC Blower Intake Pre Adjustment Adjusted Pressure Check Lube Hours Meter	B90-INTAKE-EX		Marie Miller (Bro									
Blower On Intake Pressure Gauge Adjusted Pressure Final Intake Pressure Check Lube Hours Meter	B90-EXHAUST				+ 1.4	15,00	1981d		1037			
Blower On Intake Pressure Gauge Adjusted Pressure Final Intake Pressure Check Lube Hours Meter	AOC65-POSTGAC		galler di Asi		+		<u></u>					
Substab Substab System Inspected Emptied Emptied Emptied Exterior Substab System Inspected Emptied Emptied Exterior System Inspected Emptied Emptied Emptied Emptied Emptied Emptied Emptied Exterior Substab System		System			Intako Pros			Prossuro				
Exterior	· ·							_		_		
Moisture Separator Information System Inspected Emptied Amount Transferred (gals) Subslab O / N O Exterior O / N O	information	Subslab					(adjust to 65" H ₂ 0	D)(Y) N				
Moisture Separator Information Subslab Subslab Subslab Subslab Subslab Subslab N Exterior N N M N M M M M M M M M M		Exterior	U	/ N	44	<u>, </u>	(adjust to 50" H₂0	D) (Y) / N			<u> </u>	N 140977
Information Exterior (Y) / N (Y) / N	Moisture	System	insp	ected	Em	ptied	Amount Tran	sferred (gals)	Observations	/Notes:		
Exterior (y) / N (y) / N		Subslab	Q	/ N	75.	_	0					
		Exterior				/ N		101		\/D\/		

Month 2

						+ A. Liha	<u> </u>	monitoring Event.	- Biweekiy	Monthly / Quarterly	/ Otner
					old Read	,			Wellhead		
Monitoring Point	Total Depth	Screened Interval	Vac in.H₂O	Flow fpm	Temp °F	VOC	Analyt Time	cal Sample Collected Summa Canister #	Vac in. H ₂ O		Comments
							Shallo	w Wells	20	<u> </u>	Comments
AOC65-VEW19	26	5-25	- 35.3	815	82.7	27.0	0927	/	. 33.8		
AOC65-VEW20	27	10-25	35.6	717	92.2	1,2	0930		. 33.9	-	
AOC65-VEW21	27	12-27	-35,2	691	91.3	0	0934		- 33.9		
AOC65-VEW23	21	6-21	_ 34.6	641	91,3	0	0436		-33.8		
AOC65-VEW25	21	6-21	-34.5	699	91.7	5,0	0434		34.0		
AOC65-VEW27	21	6-21	- 34.4	711	92.	18.4	0439		34,0		
AOC65-INTAKE-SW			_ 34.le	772	89,5	14.4	0942	Wells			
						T	Deep	vvens			
AOC65-VEW13	41	15-40	- 283	4310	45.4	0	0944		- 1.3		_
AOC65-VEW14	61	40-60	27.9		89.9	0	0448		. 0		
AOC65-VEW17	52.5	22-52	-27.5	2389	46.5	0	0950		- 15.7		
AOC65-VEW22	51	25-56	- 26.8	1818	88,W	0	0952		26.4		
AOC65-VEW24	50	25-50	26.5	455	84.1	0	0454		-0.1		
AOC65-VEW26	50	25-50	27,2	1571	672	Ò	0956		. 25.3		
AOC65-INTAKE-DW			-31.8	7527	83.8	٥	0958				
AOC65-EXHAUST			+2.0	10800	1444	0	1000	1			
	System			Initial I	Pre Adju		etod	Final lutete	Vac	uum Relief Valve	
Blower	- Jacon	Blowe	r On	Pres		Adju Pres		Final Intake Pressure	Chec	k Lube	Hours Meter
Information	Shallow	(Ý)		HIM	136	(adjust to 75" H₂	₀(Ŷ)/ N	14/13 36	(2/1		NA
	Deep	(Y)/	N	Ÿ		(adjust to 75" H ₂	∘ (∀)/N	43	(Ý) / I		NA NA
Moisture	System	Inspec		Emp		Amount (ga		Observations/Notes	:		
Separator Information	Shallow	<u>Q</u> ,	N	(3)	N	٥					
	Deep	(Y)/	N	(F)	N	Ò					

in. 1120. In ches of water

Date/Time :	19.10 /	1000		Operator:		J. Ba		Monitorii	ng Event: Biweekly	Monthly /	Quarterly / Other
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac in.H,O	Wellhead Flow fpm	Readings Temp °F	VOC ppm	Analytica	al Sample Collected Summa Canister #		Comments
				2		Sub	slab Wells		Summa Camster #		Comments
AOC65-VEW1				-							
AOC65-VEW2				-							
AOC65-VEW3					i enterior d					OFFLINE	
AOC65-VEW4	i krije. Triže. Historije							HARRY		OFFLINE	
AOC65-VEW5		4961		29 May 2015			alik mj			OFFLINE	
AOC65-VEW6				1648600				55.4 Sips. 3	interentation	OFFLINE	
AOC65-VEW7	ruitan iare	e Hodalby	Achonoli	. Cribadii	gridgener ich			eugas John		OFFLINE	
AOC65-VEW8				_							The state of the s
AOC65-VEW9				-							
AOC65-VEW10				-					-		
AQC65-VEW11	planta de la composición della	Theras							engel (v. 1948-1941) juliju	OFFLINE	
AOC65-VEW12			S 1802 17 2013, 11827	-		7,000	12	re calling for high	Safety Control of the	OTT LINE	
B90-INTAKE-SS	-			-	_ _						
			<u> </u>				rior Wells	.	_		
Monitoring	Total Depth	Comeanad	Mater Lavel	l vaa	Manifold I					Wellhead	
Point	ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac (in. H ₂ O)	Flow fpm	Temp °F	VOC ppm	Analytica Time	Sample Collected Summa Canister #	Vac (in. H₂O)	Comments
AOC65-VEW15	13	5-12		-	-					-	;
AOC65-VEW16	41	15-40								_	,
AOC65-VEW18	56	15.5-55.5			_					-	
AOC65-VEW28A	120	80-120		-	_					-	
AOC65-VEW28B	179	139.3-179.3								-	
B90-INTAKE-EX				-							
B90-EXHAUST				+			_				
AOC65-POSTGAC				+							
	System				Pre Adjustm	ent		Final Intake	Vacuum F	elief Valve	
Blower	System	Blov	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Pressure	Check	Lub	e Hours Meter
Blower Information	Subslab	G) _{/ N}	65	-	(adjust to 65" H₂C	Y)N	56	(v)/ N	(\$),	1 3 3 3 3
	Exterior	Y	(N)	ร์วิ	·	(adjust to 50" H₂C	NYN	50	(V) N	(Y)/	
Moisture	System	Insp	ected	Emp	tied	Amount Tran		Observations	/Notes:		
Separator Information	Subslab	<u> </u>	/ N	Q,	'_N	8					
mormation	Exterior	\bigcirc)/ N	\bigcirc	<u>_</u> N	δ			<u> </u>		

Date/Time : 6 · 24	10/10	ov	Operator	5.Ell	1.04/	J. bax	h	Monitoring Event	Biweekly	Monthly	/ Quarterly / Ot	her		
				Manif	old Readi	ngs			Wellhead					
Monitoring	Total Depth		Vac	Flow	Temp	voc		cal Sample Collected	Vac					
Point	ft BTOC	Interval	in.H ₂ O	fpm	°F′	ppm	Time	Summa Canister #	in. H₂O		Co	omments		
					1		Shallo	w Wells						
		- 0-						ı						
AOC65-VEW19	26	5-25	-						-					
AOC65-VEW20	27	10-25	-						-	ı				
AOC65-VEW21	27	12-27	-						-					
AOC65-VEW23	21	6-21	-						-					
AOC65-VEW25	21	6-21	-						_					
AOC65-VEW27	21	6-21	-					·	-					
AOC65-INTAKE-SW		11140 1300 1100 1300 11140 1300 1100 1300 1110 1300 100	-						1 60 to 10 to	1				
	Deep Wells													
AOC65-VEW13	41	15-40	-						-					
AOC65-VEW14	61	40-60	-						-					
AOC65-VEW17	52.5	22-52	-						-			_		
AOC65-VEW22	51	25-56							-					
AOC65-VEW24	50	25-50	-						-					
AOC65-VEW26	50	25-50	-						_					
AOC65-INTAKE-DW			-											
AOC65-EXHAUST	Carlotte Car		+						a dicarii 197					
	Curata m			Initial		ustment Adju	etod	Einel Intels	Va	acuum Rel	ief Valve			
Blower	System	Blowe	er On	Initial Pres	sure	Pres		Final Intake Pressure	Che	ck	Lube	Hours Meter		
Information	Shallow	(S)		34	F	(adjust to 75" H ₂		34	(Q)		(2) / N	NA		
	Deep	(Y)		48	<u> </u>	(adjust to 75" H ₂	√y)/N	44	(Y)/		(Y)/ N	NA		
Moisture	System	Inspe	cted	Emp			Xfered	Observations/Note	s:	L				
Separator	Shallow	(?)/		O	/ N									
Information	Deep	(Y)/	N	(P)	N		<u> </u>							

Date/Time : 7-	6-2010	/33	0_	Operator:		(Bouch	- Monitorin	g Event: Biweekly	Monthly Quar	terly / Other	_
##				1 1/	Wellhead I		1/00	7500				
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	Time	Sample Collected Summa Canister #	-	Comments	
						Subs	slab Wells					
AOC65-VEW1				_								
AOC65-VEW2				-				Carried Comme				
AOC65-VFW3										OFFLINE		
AOC65-VEW4				_						OFFLINE		
AOC65-VE\V5				-						OFFLINE		
AOC65-VEW6										OFFLINE		
AOC65-VEW7				-						OFFLINE		
AOC65-VEW8				2								
AOC65-VEW9				-					*			
AOC65-VEW10			-	_								
AOC65-VEW11										OFFLINE		
AOC65-VEW12				_								
B90-INTAKE -SS	* ***			- 315	14864	90.3	1.3			1		
(2572) 43					10	Exte	rior Wells		(Mrs. stand			
Monitoring	Total Depth	Screened	Water Level	Vac	Manifold F Flow		VOC	Analytical	Sample Collected	Wellhead Vac		
Point	ft. BTOC	Interval	ft. BTOC	(in. H ₂ O)	fpm	Temp °F	ppm	Time	Summa Canister #	(in. H ₂ O)	Comments	
AOCSE VEW15	13	5-12		41.1	223	93.1	0.0			- 0.9		
AOC65-VEW15		15-40		46.7	3830	91.0	0.0				Water in Will her	1
AOC65-VEW16	41	15-40		11,1						1		u cure
AOC65-VEW18	56	15.5-55.5		- 411	1547	93-1	0,0			- 0.0	11	
AOC65-VEW28A	120	80-120		- 41.3	590	92.2	0.0			-39.1		
AOC65-VEW28B	179	139.3-179.3	9c - 1	-41.2	631	89.9	0.0			-6.6	8 = "	
B90-INTAKE-EX				-41.6	3556	92.4	0.0	*				
B90-EXHAUST				+10.0	14946	154.2	0.0					
AOC65-POSTGAC				+ 0.1	9220	123.2	0.0					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Pre Adjustme	ent			Vacuum I	Relief Valve		
Blower	System	Blov	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Final Intake Pressure	Check	Lube	Hours Meter	
Information	Subslab	Υ	/ N	756)	(adjust to 65" H ₂ 0	O) Y (N	5%	(V) N	YIN	07012.7	
	Exterior	Υ	/ N	-50		(adjust to 50" H ₂ 0	O) Y N	50	⟨Ŷ/ N	Y / (N)	14117.4	
Moisture	System	Insp	ected		otied		nsferred (gals)	Observations/	Notes:			
Separator Information	Subslab	(Y))/ N	Y	(N)		,					
momation	Exterior		/ N		(N)	1 7.		, , , , , , , , , , , , , , , , , , ,				
in H.O: inches of water			fnm: feet per min			nnm: narts ner m	illiaa		V/RV/: vacuum	astisf caling	nei: nounde per equare inch	-

			-	Manif	old Readii	nas			Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp	VOC ppm	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments	
Foint	RBIOC	interval	III.II 2 O			ppiii	Shallov		111.1120		Comments	
				614					11 1			
AOC65-VEW19	26	5-25	-33,2	13219	2 90.8	20,6			32.3	*	, , , , , , , , , , , , , , , , , , ,	
AOC65-VEW20	27	10-25	-33.1	545	89.7	2.6			- 31.3			
AOC65-VEW21	27	12-27	- 33.2	460	90.1	0.0			32.4			
AOC65-VEW23	21	6-21	33.3	909	90.3	0.0			32.6			
AOC65-VEW25	21	6-21	- 33,2	629	90.6	69.2			32.8			
AOC65-VEW27	21	6-21	-33-3	632	90.1	27.3			. 32.6		0	
AOC65-INTAKE-SW			33,1	1321	94.2	26.6	Å			*. *. #	- al	
		,	-				Deep	Wells				-:
AOC65-VEW13	41	15-40	- 28.7	4289	89.2	0.2			- 1.3			
AOC65-VEW14	61	40-60	-284	401	91.5	0.0			- 0.0			
AOC65-VEW17	52.5	22-52	- 21.5	2175	88,6	7.4			- 15.1			
AOC65-VEW22	51	25-56	- 27.1	1803	89.2	0.0			- 25.7			
AOC65-VEW24	50	25-50	-27.1	372	903	0.0			- 0,1			
AOC65-VEW26	50	25-50	16.9	1276	89.2	0.0			- 24,9			
AOC65-INTAKE-DW			- 33.1	8943	87.9	2.0		*				<u> </u>
AOC65-EXHAUST			+2.4	7942		3:1				D. II. (1) ()		
Blower	System	Blowe	er On		Pre Adju Intake ssure	Adju Pres		Final Intake Pressure	Chec	k Lube	Ho	urs Meter
Information	Shallow	(Ŷ)	N	3	3	(adjust to 75" H ₂	o) Y (N)	33	(Y)	Y //N)	NA
	Deep	(Y)1	N	4		(adjust to 75" H ₂	0) Y / N	42	(Ŷ)/ I	V Y/N		NA
Moisture	System	Inspe	cted		otied	Amount (ga	Xfered	Observations/Note				
Separator Information	Shallow	(Ŷ)			(W)			VEVS C	10sea			
	Deep	(Y)1	N	Y	(N)	7312319	370					

Date/Time : 7.1	6.10	1300		Operator:			·	Monitorir	ng Event: Biweekly	Monthly / Qua	rterly / Other	
					Wellhead I		1/00					
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analytica Time	Summa Canister #	-	Comments	
					,	Sub	slab Wells					
AOC65-VEW1				-								
AOC65-VEW2				-								
AOC65-VEW3										OFFLINE		
AOC65-VEW4										OFFLINE		
AOC65-VEW5										OFFLINE		
AOC65-VEW6										OFFLINE		
AOC65-VEW7										OFFLINE		
AOC65-VEW8												
AOC65-VEW9												
AOC65-VEW10				-								
AOC65-VEW11										OFFLINE		
AOC65-VEW12				-								
B90-INTAKE-SS		- •	•		,	20	N .	•	c • «			
					Manifold F		rior Wells			Wellhead		
Monitoring	Total Depth	Screened	Water Level	Vac	Flow	Temp	VOC	Analytica	I Sample Collected	Vac		
Point	ft. BTOC	Interval	ft. BTOC	(in. H ₂ O)	fpm	°F [′]	ppm	Time	Summa Canister #	(in. H ₂ O)	Comments	
AOC65-VEW15	13	5-12		_						_		
AOC65-VEW16	41	15-40		-						-		
AOC65-VEW18	56	15.5-55.5		-						-		
AOC65-VEW28A	120	80-120		-						-		
AOC65-VEW28B	179	139.3-179.3		-						-		
B90-INTAKE-EX				-								
B90-EXHAUST				+								
AOC65-POSTGAC				+							1	
		Alexandra de la compania			Pre Adjustme	ent			Vacuum F	Relief Valve		
Blower	System	Blov	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Final Intake Pressure	Check	Lube	Hours Meter	
Information	Subslab		/ N	50	!	(adjust to 65" H ₂ 0	O) Ø / N	45	(P) / N	A/N	408.0	
	Exterior		(N)	0		(adjust to 50" H ₂ 0	N/N	50	(Y) N	YUN	93.3	
	System		ected	Emp	tied		sferred (gals)	Observations	/Notes:		13.3	
Moisture Separator	Subslab)/ N	(9)	N	0	,					
Information	Exterior		y N	(Y)		0						
			J IN		19							

Date/Time : 7.26	10/130	٥	Operator	S.El	liott		-	Monitoring Event:	Biweekly	/ Monthly	/ Quarterly / 0	Other
				Manif	old Readi	ngs			Wellhead	1		
Monitoring	Total Depth		Vac	Flow	Temp	voc		cal Sample Collected	Vac			-
Point	ft BTOC	Interval	in.H ₂ O	fpm	°F	ppm	Time	Summa Canister #	in. H ₂ O			Comments
						T	Shallo	w Wells				
AOC65-VEW19	26	5-25	-						-			
AOC65-VEW20	27	10-25	-						-			
AOC65-VEW21	27	12-27	-						-			
AOC65 \ FV:23	21	6-21	-						-			
AOC65-VEW25	21	6-21	-			Ì			_			
AOC65-VEW27	21	6-21	-						-			
AC065-INTAKE-SW			-7				Doon	Wells				
					 	Г	Беер	VVEIIS	Т			
AOC65-VEW13	41	15-40	-						-			
AOC65-VEW14	61	40-60	-						-			
AOC65-VEW17	52.5	22-52	-						-			
AOC65-VEW22	51	25-56	-						-			
AOC65-VEW24	50	25-50	-						-			,
AOC65-VEW26	50	25-50	-						-			
AOC65-INTAKE-DW			-									
AOC65-EXHAUST			+									
	System			Initial	Pre Adji Intake		ısted	Final Intake	Va	cuum Rel	iet valve	-
Blower	Gystein	Blowe	er On		sure		sure	Pressure	Che	ck	Lube	Hours Meter
Information	Shallow	(3)		34		(adjust to 75" H ₂	3750	34	(Ŷ)/		Q/N	NA NA
	Deep	(Y)/		ul		(adjust to 75" H ₂		42	(P)	N	Ý N	NA NA
	System			4		Amount	Xfered	Observations/Note				
Moisture Separator	Shallow	Inspe (Ŷ)/			otied / N	(gs	als)					
Information	Deep	(Y)/			/ N	0						
	Беер	(1)/	IN	(Y)	/ IN							

Date/Time : 8.10	10/100	70	Operator	5.E	lev H	J. 600	rch	Monitoring Event:	Biweekly	Monthly / Quarterly	/ Other
				Manife	old Readi	ngs		,	Wellhead		
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analytic Time	al Sample Collected Summa Canister #	Vac in. H₂O		Comments
							Shallov	w Wells			· · · · · · · · · · · · · · · · · · ·
40C <u>6</u> 5-VEW19	26	5-25	-32.8	590	95,3	0	1021		30.9		
AOC65-VEW20	27	10-25	-32.8	543	95.1	0	1022		- 31.3		
AOC65-VEW21	27	12-27	- 329	1714	94.6	0	1024		-31,2		
AOC65-VEW23	21	3-21	. 32.8	446	94.2	Ó	1026	/	- 32.0		
40C65-VEW25	21	6-21	- 32.9	451	94.6	4.2	1028		- 31.8		
AOC65-VEW27	21	6-21	-33, D	1549	43,7	2.0	1029		-		
AOC65-INTAKE-SW			-32.9	1438	99.3	0.	1019.	/			•
T					Ι .	T	Deep	vells			
AOC65-VEW13	41	15-40	- 28.3	3704	92.4	Ő	1008		- 1.4		
AOC65-VEW14	61	40-60	- 28.1	370	92.1	0	1009	. /	-0.8		
AOC65-VEW17	52.5	22-52	-27.2	2195	92.1	0	1011		-15.3		
AOC65-VEW22	51	25-56	-27.0	1398	92.2	0	1012		-26.3		
AOC65-VEW24	50	25-50	-27.1	365	93.0	0	1014		-0,2		
AOC65-VEW26	50	25-50	-26.9	1065	93.0	6	1015		25.1		
AOC65-INTAKE-DW			-32.7	7051	99.4	0	1066				
AOC65-EXHAUST			+2.4	8188		0	1017	J		Delia Value	
	System			Initial	Intake	ustment Adj	usted	Final Intake	Va	cuum Relief Valve	
Blower Information		Blowe			sure	Pre	ssure	Pressure	Chec	ATT ATT	Hours Meter
miorination	Shallow	(V)		34		(adjust to 75" H		33	(Ý)/		NA NA
	Deep	(Y)/	N	4	3	(adjust to 75" H		42	(Y)/	N (Ŷ)/ N	NA
Moisture	System	Inspe	cted	Emr	otied	1	t Xfered	Observations/Note	95:		
Separator	Shallow	(8)/		0		0					
Information	Deep	(Ý)/			/ N	_ A					

Date/Time : 8 · / 4	10/10/1	0>8		Operator:	S.Elliott	+ T. 6	Bouch	Monitorin	g Event: Biweekly /	Monthly / Quarte	erly / Other
					Wellhead F						
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analytical Time	Sample Collected Summa Canister #		Comments
i ome	n. Broc	IIItervar	n. Broc	111.1720	ipin	Subs	slab Wells		Gamma Gamster #		Comments
AOC65-VEW1				-							
AOC65-VEW2				-							
AOC65-VEW3										OFFLINE	
AOC65-VEW4										OFFLINE	
AOC68-VEW5										OFFLINE	
AOC65-VEW6				-						OFFLINE	
ACC65-VEW7										OFFLINE	
\OC65-VEW8				-							
AC C65-VEW9				-							
AOC65-VEW10				-							
AOC65-VEW11				-						OFFLINE	
AOC65-VEW12											
B90-INTAKE-SS		95		42.1	215,000	90.3	0	1055.		*	
					,	Exte	rior Wells			I Mallhood I	(2)
Monitoring	Total Depth	Screened	Water Level	Vac	Manifold R	Temp	VOC	Analytical	Sample Collected	Wellhead Vac	
Point	ft. BTOC	Interval	ft. BTOC	(in. H 2 O)	fpm	°F	ррт	Time	Summa Canister #	(in. H ₂ O)	Comments
AOC65-VEW15	13	5-12		-38,2	530	88.8	0	1046		.0.5	
AOC65-VEW16	41	15-40		- 37.9	2069	89.2	0	1044		- 2.4	
AOC65-VEW18	56	15.5-55.5		- 38.2	1404	89.7	0	1042		-0.2	
AOC65-VEW28A	120	80-120		- 37.6	556	90.3	0	1041		. 33.0	
AOC65-VEW28B	179	139.3-179.3		- 37.6	1206	90.1	0	1038		- 0	
B90-INTAKE-EX				- 38,4	2030	89,7	٥	ious			
B90-EXHAUST				+ 11.2	14307	152.2	C	1050			
AOC65-POSTGAC				+ 7,0	9433	104.1	0	1052	/		
Blauer	System	Blov	wer On	Intake Pres	Pre Adjustme sure Gauge	1	Pressure	Final Intake Pressure	Check	telief Valve Lube	Hours Meter
Blower Information	Subslab	R) N	(00		(adjust to 65" H ₂ 0	D) (V / N	45	(ŷ/N	() / N	7649
	Exterior	Y	/(N)	0		(adjust to 50" H ₂ 0	D) (Y) N	50	(Y) N	(Ŷ)/ N	143,0
Moisture	System	Insp	pected	Em	otied	Amount Tran	sferred (gals)	Observations	Notes:		
Separator Information	Subslab	(3)	/ N		/ N	Ô					
	Exterior	(Y)/ N	0	/ N	Ö					

Date/Time : 8,24	10		Operator	5.E	11:01+		-	Monitoring Evente	Biweekly	Monthly / G	uarterly /	Other		_
			.,	Manife	old Readi	ngs			Wellhead	1				
Monitoring	Total Depth	Screened	Vac	Flow	Temp	voc		al Sample Collected	Vac					
Point	ft BTOC	Interval	in.H 2 O	fpm	°F	ppm	Time	Summa Canister #	in. H ₂ O			Comment	s	
					``		Shallo	w Wells		1				
AOC65-VEW19	26	5-25	_						-					
AOC65-VEW20	27	10-25	_						_					
A0003-VLVV20	21	10-23								×				
A O C G E \ \ (\(\tau \) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	27	10.07												
AOC65-VEW21	27	12-27	-						-					
										i				}
AOC65-VEW23	21	6-21							-	į				_ {
										1				!
AOC65-VEW25	21	6-21	-						-					
AOC65-VEW27	21	6-21	-						-					
AOC65-INTAKE-SW			-					*					•	
							Deep	Wells						
AOC65-VEW13	41	15-40	-											
								3						
AOC65-VEW14	61	40-60	-						-					
			160					*						- 1
AOC65-VEW17	52.5	22-52	-						-					
AOC65-VEW22	51	25-56	-						-					
4.0.005.1/514/04	50	05.50												
AOC65-VEW24	50	25-50	-						-				~~~	
4.0.00E MEMOS	50	25.50												
AOC65-VEW26	50	25-50	-						-					
AOC65-INTAKE-DW														- 1
ACCOS-IIVIAINE-DVV														-
AOC65-EXHAUST			+											ļ
7.0000 EXTINOUT					Pre Adji	ıstment			Va	acuum Relief \	/alve			
	System			Initial	Intake		sted	Final Intake				\dashv		
Blower		Blowe	er On	Pres	sure	Pres	sure	Pressure	Che	ck	Lube		Hours Meter	
Information	Shallow	Y /	N			(adjust to 75" H ₂	O) Y / N		Y /	N	Y / N		NA	
	Deep	Y /					- V / N		Y /		Y / N		NA	
	Беер	1 /	14			(adjust to 75" H ₂		Observations/Note		14	1 / IN		INA	
Moisture	System	Inspe	cted	Emr	otied		als)	Justivations/Note	10.0	1	all	for	110001	
Separator	Shallow					196		V_ 545	tem -	The state of	017	10	Valion	
Information		Y /			/ N			1 inte	15:10	Sampli	1/-			i
	Deep	Y /	N	Y	/ N			11.11	V 3 (U/)	Surafilli	7			

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/Time : _ 🖁 ເ 🖟	14.10			Operator:	5. Elliot	+		Monitoring	g Event. Biweekly	Monthly / Qua	arterly / Other
					Wellhead	Readings				1	
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac in.H ₂ O	F!ow fpm	Temp °F	VOC ppm	Analytical Time	Sample Collected Summa Canister #		Comments
4.0.005.1/514/4					,	Subs	slab Wells				
AOC65-VEW1				-						-	
AOC65-VEW2				-							
AOC65-VEW3										OFFLINE	
AOC65-VEW4				-						OFFLINE	
AOC65-VEW5										OFFL!ME	
AOC65-VEW6										OFFLINE	
AOC65-VEW7				-						OFFLINE	
AOC65-VEW8	-			-						-	
AOC65-VEW9				-			-				
AOC65-VEW10				-							
AOC65-VEW11				- (1)						OFFLINE	
AOC65-VEW12				-					w v .		
B90-INTAKE-SS	L			-			rior Wells				
	Γ				Manifold I		rior vvens			Wellhead	
Monitoring	Total Depth	Screened	Water Level	Vac	Flow	Temp °F	voc		Sample Collected	Vac	
Point	ft. BTOC	Interval	ft. BTOC	(in. H ₂ O)	fpm	7	ppm	Time	Summa Canister #	(in. H ₂ O)	Comments
AOC65-VEW15	13	5-12		-						-	
AOC65-VEW16	41	15-40		-						-	
AOC65-VEW18	56	15.5-55.5		-						-	
AOC65-VEW28A	120	80-120		-						-	
AOC65-VEW28B	179	139.3-179.3		-						-	
B90-INTAKE-EX				-							
B90-EXHAUST				+							
AOC65-POSTGAC				+ .							
	Cuctom				Pre Adjustm	ent		Final Intake	Vacuum R	Relief Valve	
Blower	System	Blov	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Pressure	Check	Lube	Hours Meter
Information	Subslab	Υ	/ N			(adjust to 65" H ₂ 0	O) Y/N		Y / N	Y / N	
	Exterior	Y	/ N			(adjust to 50" H ₂ 0	D) Y/N		Y / N	Y / N	
Moisture	System	Insp	ected	Emp	otied		sferred (gals)	Observations/	Notes:		
Separator Information	Subslab	Y	/ N	Y	/ N			X 37	stem \$ 500 Sa	1	(or ord)
	Exterior	Υ	/ N	Y	/ N		۸	1, 1011	vion Su	mpling	
in.H ₂ O: inches of water			fpm: feet per minu	ute		ppm: parts per m	illion		VRV: vacuum	relief valve	psi: pounds per square inch

Date/Time : 9/ 3	1/10		Operator.	5.	Elliot	+	-	Monitoring Event:	Biweekly	Monthly / Quarterly / Other	r_Month 5
				Manif	old Readi	ngs		,-	Wellhead		
Monitoring	Total Depth ft BTOC		Vac in.H ₂ O	Flow	Temp °F	VOC	Analytic Time	Summa Canister #	Vac in. H₂O	Com	nments
Point	πвіос	Interval	III.H 2 U	fpm		ppm		w Wells	III. H ₂ O	Con	iments
					I	Ι		- Vicino			
AOC65-VEW19	26	5-25	-						-		
AOC65-VEW20	27	10-25	-						-		
AOC65-VEW21	27	12-27	-						-		
AOC65-VEW23	_21	6-21	-						_		
AOC65-VEW25	21	6-21	-						-		
AOC65-VEW27	21	6-21	_						-		
AOC65-INTAKE SW	•		Ξ				Doon	Wells			
					T		Беер	VVEIIS	T		
AOC65-VEW13	41	15-40	-						-		
AOC65-VEW14	61	40-60	-		,				-		
AOC65-VEW17	52.5	22-52	-						-		
AOC65-VEW22	51	25-56	-						-		
AOC65-VEW24	50	25-50	-						-		
AOC65-VEW26	50	25-50	-						-		
AOC65-INTAKE-DW			-								
AOC65-EXHAUST			+								
						ustment			Va	cuum Relief Valve	
Blower	System	Blowe	er On		Intake sure		sted sure	Final Intake Pressure	Che	ck Lube	Hours Meter
Information	Shallow	Y /	N			(adjust to 75" H	₂ O) Y / N		Y /	N Y/N	NA
	Deep	Y /				(adjust to 75" H	₂ O) Y / N		Y /		NA
Moisture	System	Inspe	cted	Emp	otied	Amount	Xfered als)	Observations/Note	n of	f for vapor	in trusion
Separator Information	Shallow	Y /	N	Y	/ N			*	1:	. 10	
	Deep	Υ /		Υ	/ N			1" Sump	ring		
in.H ₂ O: inches of water		fpm: feet per i	minute		ppm: parts p	per million		VRV: vacuun	m relief valve	psi: pounds per square inc	h

Date/Time :	7/10			Operator:	S.Ell.o	++		Monitorin	g Event: Biweekly	Monthly/ Quar	terly / Other Mor	HL 5
					Wellhead I							
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Water Level ft. BTOC	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analytical Time	Sample Collected Summa Canister #		Comments	
`		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	72700		.,,	Subs	slab Wells				Comments	
AOC65-VEW1	1			-		1						
AOC65-VEW2				-								
AOC65-VEW3										OFFLINE		
AOC65-VEW4										OFFLINE		
AOC65-VEW5										OFFLINE		
AOC65-VEW6										OFFLINE		
AOC65-VEW7										OFFLINE		
AOC65-VEW8				-								
AOC65-VEW9				-								
AOC65-VEW10				-							_	
AOC65-VEW11				-						OFFLINE		
AOC65-VEW12				-								
B90-INTAKE-SS	•			-		•				•		-
					Manifold F	AND THE PERSON NAMED IN COLUMN	rior Wells			Wellhead		
Monitoring	Total Depth	Screened	Water Level	Vac	Flow	Temp	VOC	Analytical	Sample Collected	Vac		
Point	ft. BTOC	Interval	ft. BTOC	(in. H ₂ O)	fpm	°F	ррт	Time	Summa Canister #	(in. H ₂ O)	Comments	5
AOC65-VEW15	13	5-12		-						-		
AOC65-VEW16	41	15-40		-						-		
AOC65-VEW18	56	15.5-55.5		-						-		
AOC65-VEW28A	120	80-120		-						-		
AOC65-VEW28B	179	139.3-179.3		- "						-		
B90-INTAKE-EX				-								
B90-EXHAUST				+								
AOC65-POSTGAC				+								
	0				Pre Adjustme	ent		Final Intalia	Vacuum R	elief Valve		T
Blower	System	Blov	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Final Intake Pressure	Check	Lube	Hours Meter	
Information	Subslab	Y	/ N			(adjust to 65" H₂0) Y/N		Y / N	Y / N]
	Exterior	Υ	/ N			(adjust to 50" H ₂ 0	D) Y/N		Y / N	Y / N]
Moisture	System	Insp	ected	Emp	otied	Amount Tran	sferred (gals)	Observations	Y/N Y/N Notes: YStem Of Sumpling	f for	Vapor in	trusion
Separator Information	Subslab	Y	/ N	Y	/ N			14 3	ystum.	1 (0)	• /	
	Exterior	Y	/ N	Y	/ N			1	sampling			

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV. vacuum relief valve

Date/Time : 10//	8/10	1500		Operator:	S.E11.0H			Monitorin	g Event: Biweekly	Monthly / Quart	erly / Other	
					Wellhead						_	
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analyt Time	ical Sample Collect		Com	ments	
r ome	n. Droc	Interval	70	Ipili			b Wells	Janina Gan	ioter #	Com	nents	
AOC65-VEW1			-									
AOC65-VEW2			_									
AOC65-VEW3				Marie Walt					OFFLINE			
AOC65-VEW4								MINE REPORT	OFFLINE			
AOC65-VEW5									OFFLINE			
AOC65-VEW6									OFFLINE			
AOC65-VEW7									OFFLINE			
AOC65-VEW8			-							w	The second secon	
AOC65-VEW9			-									
AOC65-VEW10												
AOC65-VEW11					100 Con 200				OFFLINE			
AOC65-VEW12			-									
B90-INTAKE-SS			-									
				** ** ** **		Exterio	or Wells					
Monitoring	Total Depth	Screened	Vac	Manifold Re		VOC	Δnalvt	ical Sample Collect	Wellhead Vac			
Point	ft. BTOC	Interval	(in. H ₂ O)	fpm	Temp °F	ррт	Time	Summa Can			Comments	
AOC65-VEW15	13	5-12	-						-		_	
AOC65-VEW16	41	15-40	-						-			
AOC65-VEW18	56	15.5-55.5	-						-			
AOC65-VEW28A	120	80-120	-						-			
AOC65-VEW28B	179	139.3-179.3	-						-			
B90-INTAKE-EX			-								_	
B90-EXHAUST			+								_	
AOC65-POSTGAC			+									
	Suctom				Pre Adjustm	ent		Final Intake	Vacuum Re	lief Valve		
Blower	System	Blov	ver On	Intake Pres	sure Gauge		d Pressure	Pressure	Check	Lube	Hours Met	
Information	Subslab	Υ	/(N	/		(adjust to 65" H ₂	o) (§/ N	62	(8)/ N	(V) N	1081,9	
	Exterior	Υ	/N			(adjust to 50" H ₂	0) (Y) N	50	(Y) N	CAN N	147.2	
Moisture	System	Insp	ected	Em	ptied	Amount 1	ransferred als)	Observations	Notes:			1/4
Separator	Subslab	(x	/ N	(X	/ N	0		system	resturted aft	ter being	off for	1000
Information	Exterior		/ N	9	/ N	Ò		testing				
in H.O. inches of water			fnm: feet per min		,	nnm: narte ner m	-illian		V/PV: vacuum ro	liefelue	noi: nounde net S	guara inah

Date/Time : 10/18	1/10 1	155	Operator	5,0	Hirt			Monitoring Even	Biweekly / Mon	thly / Quarterly / Ot	her
				Manif	old Read	ings			Wellhead		
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analyti Time	Summa Canister #	Vac in. H₂O	C	omments
			_				Shallo	w Wells			
AOC65-VEW19	26	5-25	-						-		
AOC65-VEW20	27	10-25	-						_	,	
AOC65-VEW21	27	12-27	-						_		
AOC65-VEW23	21	6-21	-						-		
AOC65-VEW25	21	6-21	-						_		
AOC65-VEW27	21	6-21	-						-		
AOC65-INTAKE-SW			-								
	1				1	T	Deep	Wells			
AOC65-VEW13	41	15-40	-						-		
AOC65-VEW14	61	40-60	-					,	-		
AOC65-VEW17	52.5	22-52	-						-		
AOC65-VEW22	51	25-56	-						-		
AOC65-VEW24	50	25-50	-						-		
AOC65-VEW26	50	25-50	-		,				-		
AOC65-INTAKE-DW			-								
AOC65-EXHAUST			+								
				1. 141 .		ustment	-11	Final Intelia	Vacuun	Relief Valve	
Blower	System	Blowe	er On		Intake sure		sted sure	Final Intake Pressure	Check	Lube	Hours Meter
Information	Shallow	Y /			_	(adjust to 75" H	₂ O) Y / N	40	(Y/N	Q/N	NA
	Deep	Υ (N)			(adjust to 75" H	₂ O) Y / N	45/	(Y)/ N	(Y) N	NA
Moisture	System	Inspe		-	otied	Amount (ga	Xfered als)	Observations/Note	s: Jount a	testia sta	rted but up taly
Separator Information	Shallow	(Ý)/			/ N / N	0		יושו דיף כי	tu pun	190119 / 5/11	
in.H ₂ O: inches of water	Deep	fpm: feet per i		_	/ N ppm: parts	per million		VRV: vacuur	m relief valve	psi: pounds per square	inch

					Wellhead I	Readings	_			1			
Monitoring	Total Depth	Screened	Vac	Flow	Temp	VOC		cal Sample Collecte					
Point	ft. BTOC	interval	in.H₂O	fpm	°F	ppm Substat	Time	Summa Canis	ster#	Сол	nments		
A O C O C A 1/5/A 1/4						<u> วูนบรเลเ</u>		Τ	_				
AOC65-VEW1	_	_					_						
AOC65-VEW2			-			100 PM 1940.				A Second Second			
evillandinger			:		1								
· (010(3)()AN (3AA) 	4								28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
King the second									11003875				
Most a way									dental (1812)				
AOC65-VEW8			-										
AQC65-VEW9	_												
AOC65-VEW10			-		_								
a : takweywini						1. 1. 4. 4. 1.			1000000000	34.50 f S		·	
AOC65-VEW12													
B90-INTAKE-SS			- 38.6	7540	68.9	1.1	1050	* 2695					
		•		Manifold Re	adinas	<u>Exterio</u>	r Wells		Wellhead				
Monitoring	Total Depth	Screened	Vac	Flow	Temp °F	voc		cal Sample Collecte	d Vac	1	_		
<u>Point</u>	ft. BTOC	interval	(In. H ₂ O)	fpm		_ ppm	Time	Summa Canis	_	<u></u>	Comments		
AOC65-VEW15	13	5-12	- 41.6	614	49.4	0.7	1031		- 0.5				
AOC65-VEW16	41	15-40	43.3	2400	(04.4	1,7	1033		- 3,5				
AOC65-VEW18	56	15.5-55.5	- 44.1	751	109.9	0.7	1035		_ 0.3				
AOC65-VEW28A	120	80-120	44.1	556	70.1	1.9	10346	* 22943	. 44./				
AOC65-VEW28B	179	139.3-179.3	- 44.1	2032	70.1	10	1042	¥ 1202	7 . 7.0		~		
B90-INTAKE-EX			- 44.	4480	64.4	1.9	1046	* 34420					
B90-EXHAUST			+ 8,9	5478	135.6	1.3	1049						
AOC65-POSTGAC	:		+ 4 2	5212	95.1	6.6	1052	* 2129					
	Pre Adjustme					· · ·		Vacuum F	Vacuum Relief Valve				
Blower	System	Blower On		Intake Pressure Gauge		Adjusted Pressure		Final Intake Pressure	Check	Lube	Hours Meter		
Information	Subsiab	(3/N		40		(adjust to 65" H₂O) (Y)/ N		62	() / N	(A/N	1606.0		
	Exterior	(∀)/ N		50		(adjust to 50" H ₂ O) YN		50	(¥)/ N	Ŷ\ N	3132.0	4	
Malatina	System Inspected		Emptied		Amount Transferred		Observations/		<u></u>	213.9	_		
Moisture Separator	Subslab	(A/N		(A) N		(gals)		* Chan	gel filters				
Information	Exterior		<u> И</u>		/ N	 		1 ′	•				

	Date/Time :	/ 043	0	Operator: Elliott + Beach				Monitoring Event: Biweekly / Monthly / Quarterly Other Semi - CANNUA								
1				Manifold Readings					Wellhead						· ·	
	Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Analytic Time	Summa Canister #	Vac in. H₂O		С	omments			
		=	·		`			Shallo	w Wells							
	AOC65-VEW19	26	5-25	- 36.1	863	64.2	8.9	0915	¥ 1455	20.1	pullary	up water	, well head	/ Vac	fluctuating	Significant
	AOC65-VEW20	27	10-25_	_35,7	1312	723	1.0	0973	¥ 36455	33.7						
	AOC65-VEW21	27	12-27	_35.4	1440	75.3	0.9	0929	¥ 36530	. 34.3		_	_			,
	<u>A</u> OC65-VEW <u>23</u>	21	6-21	.35,2	836	71.3	1.1	0934	¥ 33397	34.8						
١	AOC65-VEW25	21	6-21	_35,6	2391	77.5	g7.0	0937	* 36405	. 3 5 .4				-		
	AOC65-VEW27	21	6-21	_35,9	633_	72.4	10.1	0941	¥ 34113	34.8		_				
	AOC65-INTAKE-SW		2	-37.1	623	68.5	6.7	0 10 1	¥ 35558							
١			т	<u> </u>	27.59		1 .	<u>Deep</u>	Wells	 						
	AOC65-VEW13	41	15-40		2749	69.9	2.5	0453		- 1.4				_		
I	AOC65-VEW14	61	<u>40-6</u> 0	-31.8	637	70.8	 -	0954	. 0.116	. 19,2						
	AOC65-VEW17	52.5	22-52	-31.5	1385	70,3		6459		. 14.5						
I	AOC65-VEW22	51	25-56	- 31.1	1161	69.6			+34169	28.3			_			
	AOC65-VEW24	50	25-50	-30.6	582	71.4_	0.7	0956		.011						,
I	AOC65-VEW26	50	25-50	.30.6	1941	70.1	2.2	1005	* 34102	.27.2						
١	AOC65-INTAKE-DW			-35.9	5234	71.2	2.5	8949	* 36405							
	AOC65-EXHAUST_			٠2.0	6327	124.1	2.7	1010	#	A property of the second						
1		System		Pre Adjus		stment Adjusted		Final Intake	Va	cuum Relief Valve						
	Blower Information	<u> </u>		Blower On Pressure		sure	Pressure		Pressure	Chec		Lube		Hours Meter		
١	momation	Shallow	<u> </u>		30		(edjust to 75" H		40	(Ý)/		(N/ N	<u> </u>	<u>NA</u>		
		Deep	(Y) N		<u> 45</u>		(adjust to 75" H ₂ O) Y /N		45 Observations/Note		Į V	(Y)/ N	<u> </u>	NA		
	Moisture Separator	System	Inspected		Emptied		(gals) A(han		Achanged filters							
	Information	Shallow		M/N WN		The Course of the			4.116. >							
	in.H ₂ O: inches of water	Deep	fpm: feet per i			/ N ppm: parts (gullors	VRV: vacuun			pounds per square				