2012 UPDATE TO AOC-65 SOIL VAPOR EXTRACTION OPERATIONS AND MAINTENANCE ASSESSMENT REPORT



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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 Sub-slab, 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 4-year period between April 2008 and May 2012 with a focus on the period of November 9, 2010 through May 8, 2012. This report presents the results associated with system operation, and, based on those results, presents recommendations for cessation of SVE operations within AOC-65.

Over the four years covered by this O&M period, approximately 140 pounds (lb) (10 gal) 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 134.6 lb/yr (approximately 10 gal/yr) the first year (April 2008 to April 2009); 13.7 lb/yr (approximately 1 gal/yr) the second year (April 2009 to April 2010); 12.1 lb/yr (approximately 0.9 gal/yr) the third year (April 2010 to April 2011); and 11.95 lb/yr (approximately 0.9 gal/yr) the fourth year of SVE operation (April 2011 to April 2012). The significantly different values between year one and subsequent years 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 2012, weather conditions also affected VOC recovery rates.

Each subsystem contributed the following to the total mass removed during the four year O&M period:

- Sub-slab VEWs accounted for the removal of 5.92 gallons of PCE;
- AOC-65 Shallow VEWs accounted for the removal of 2.56 gallons of PCE;
- AOC-65 Deep VEWs accounted for the removal of 1.39 gallons of PCE; and
- Exterior Building 90 VEWs accounted for the removal of 0.49 gallons of PCE.

Recommendations for SVE pilot study activities at AOC-65 following four years of operation include:

- Deactivation of both Eastern and Western SVE systems,
- Plugging and abandoning of Building 90 Sub-Slab VEWs, and
- Re-purposing external VEWs for future treatability studies.

Overall system inefficiency during the last three years is the main reason for recommending a discontinuation of SVE treatability study activities and the cessation of SVE operations at AOC-65. During the 18-month focus period (November 2010 through May 2012), 0.83 gallons of PCE was removed from the contaminated soils and bedrock at AOC-65 via SVE. These 0.83 gallons removed represents less than 8% of the total volume of PCE removed since SVE

operations resumed in 2008. Additionally, CSSA is in the planning stages for the renovation of Building 90. Building 90 sub-slab VEWs are 1-inch diameter wells that are between 5 and 10 feet deep and are not likely to intercept the shallow groundwater at AOC-65, thus, are not useful for monitoring groundwater, nor are they useful as injection points because the volume within the casing and screen area is small owing to their shallow depth and small diameter. Removal of these sub-slab VEWs would allow CSSA to renovate Building 90 without impediments associated with preserving functionality and accessibility. Unlike the sub-slab VEWs, the VEWs outside Building 90 may be used as groundwater monitoring or injection wells in future iterations of ISCO or other treatability studies. Many of these wells encounter shallow groundwater, and those that do not are 4-inch diameter wells with a minimum of 10-foot screens.

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ACRONYMS AND ABBREVIATIONS

A C C
Area of Concern
below ground surface
Carbon Dioxide
Camp Stanley Storage Activity
feet
Granular activated carbon
In-situ chemical oxidation
pounds
pounds per hour
pounds per year
operation and maintenance
Oxygen
Parsons Infrastructure and Technology, Inc.
permit by rule
tetrachloroethene
photoionization detector
parts per billion by volume
Soil Vapor Extraction
Texas Commission on Environmental Quality
Total Volatile Hydrocarbon
U.S. Environmental Protection Agency
vapor extraction well
vapor monitoring point
volatile organic compounds

CHAPTER 1 INTRODUCTION

This report summarizes operations and results for 18 months of operation and maintenance (O&M) activities 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 November 9, 2010 and performed through May 8, 2012. 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 addition of five wells on the eastern Building 90 exterior portion of the system and a determination if thermal enhancement of the system potentially increases the annual tetrachloroethene (PCE) removal rate (AOC-65 Steam Enhanced SVE Treatability Study Report (September 2011)). Recommendations for additional groundwater source treatment applications at the AOC-65 site (e.g., trench installation and ISCO injection) were developed based on observations made during the O&M activities described in this report.

1.1 REPORT ORGANIZATION

This report is an update to the AOC-65 Soil Vapor Extraction O&M Assessment report completed in January 2011. The January 2011 report covered the period from April 8, 2010 through November 9, 2010. This update adds the period from November 9, 2010 through May 8, 2012.

This assessment report covers one and a half years of operation (November 2010 through May 2012) following the addition of Building 90 exterior wells. 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 studies at AOC-65. References are included in Chapter 5.

1.2 DESCRIPTION OF AOC-65 SVE SYSTEM

The current SVE system at AOC-65 is organized into two separate sub-systems: 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, 28B, 29, 30, 31, 32, and 33. 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 current SVE system is shown in Figure 1.1 through Figure 1.3.

1.3 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).

In 2011, prior to the AOC-65 Thermally Enhanced SVE Treatability Study, 2 steam injection wells (SIW01 and SIW02) and 5 VEWs (29-33) were installed and connected to the Building 90 exterior side of the SVE system. The thermally enhanced treatability study ran for a period of approximately one month between August 8, 2011 and August 30, 2011. Details and results of this study are presented in *AOC-65 Steam Enhanced SVE Treatability Study Report* (September 2011).

In 2012 several additional wells were installed following an Interim Removal Action (IRA) in which contaminated soils and bedrock beneath a concrete-lined drainage ditch were removed. The resultant trench (approximately 4 feet wide, 12 to 15 feet deep and 300 feet long) was converted into an infiltration gallery to facilitate an *in-situ* chemical oxidant (ISCO) treatability study. Seven treatability study wells were installed to monitor groundwater during and after the ISCO solution application. Both steam injection wells (TSW-01 and -02) and three vapor monitoring points (VMP-03, -04A, and -04B) were plugged and abandoned to accommodate this treatability study (report forthcoming).

A chronology of activities associated with VOC treatment at AOC-65 and corresponding documentation is presented in **Table 1.1**.

Table 1.1 AOC-65 Treatability Activities and Associated Reports

Activity	Report	Report Date
SVE Operations	Area of Concern 65 Soil Vapor Extraction Operations & Maintenance Report	August 2003
IRA	Area of Concern 65 Interim Removal Action	August 2003
SVE Operations	AOC-65SVE Interim Treatability Study Test Report	March 2005
SVE O&M Activities	AOC-65 Soil Vapor Extraction Operations and Maintenance Report	April 2005
AOC-65 Groundwater Recharge Study	Treatment Evaluation Report for AOC-65 SVE	December 2005

Activity	Report	Report Date
SVE Expansion	Final AOC-65 Vapor Extraction Operations and Assessment Report (CDRL A001G)	April 2008
Permit Application	Area of Concern-65 Permit By Rule Application for Removal Action	January 2008
SVE Operations	2010 Update to AOC-65 Soil Vapor Extraction Operations And Maintenance Assessment Report	July 2010
SVE Operations	2011 Update to AOC-65 Soil Vapor Extraction Operations And Maintenance Assessment Report	January 2011
SVE System Expansion and Thermal Enhancement	Final Work Plan Addendum for the Installation of LGR Monitoring Wells and AOC-65 SVE Enhancement Wells	March 2011
Thermally Enhanced SVE Treatability Study - Well Installation	Final Steam Enhanced Vapor Extraction Treatability Study Work Plan	July 2011
Thermally Enhanced SVE Treatability Study Results	AOC-65 Steam Enhanced Soil Vapor Extraction Treatability Study	September 2011
IRA - Well Installation	Final Addendum Work Plan for AOC-65 Interim Removal Action	January 2012
ISCO Treatability study	Draft Work Plan for AOC-65 ISCO Treatability Study	July 2012

1.4 SCOPE OF OPERATIONS & MAINTENANCE

This document was prepared as an assessment of the AOC-65 SVE operations. The purpose of this assessment is to evaluate and assess 18 months of system monitoring.

Activities performed during the operations and monitoring included:

- Monthly determination of soil vapor/emissions for the Building 90 Sub-slab and Building 90 Exterior systems on the eastern SVE side of the site including:
 - Ten exterior Building 90 VEWs (VEWs 15, 16, 18, 28A, 28B, 29, 30, 31, 32, 33), and
 - o Both Building 90 blowers.
- Monthly determination of soil vapor emissions for the AOC65 Shallow and AOC65 Deep systems on the western SVE 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;

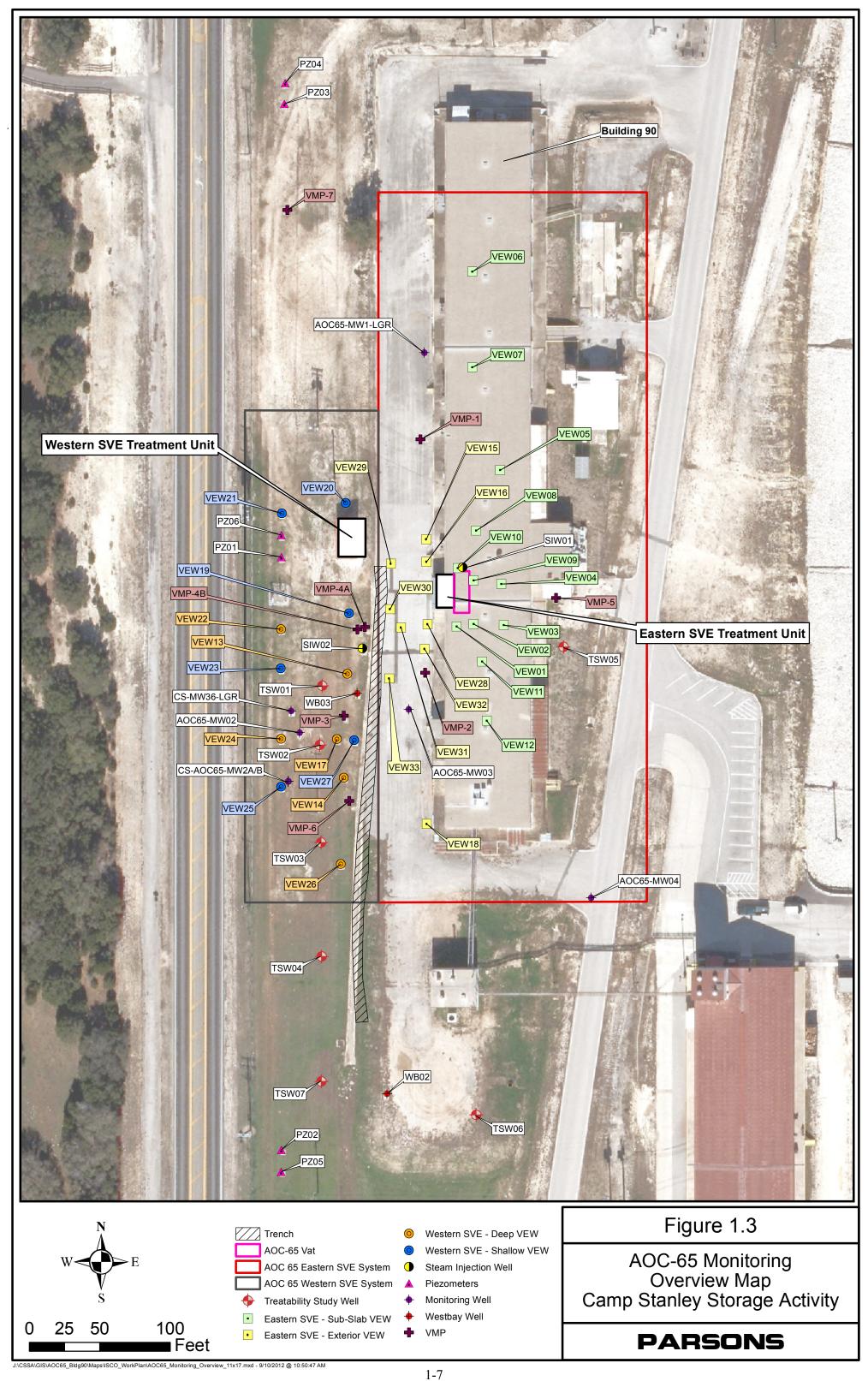
- Twice monthly system checks of the equipment and piping network to adjust, repair, and replace components as needed to maintain the systems in good operating condition.
- Semi-annual collection of vapor samples from individual VEWs, blower intakes, and system exhausts.

Not To Scale

Camp Stanley Storage Activity

PARSONS

Vacuum Relief Valve



CHAPTER 2 OPERATIONS AND MAINTENANCE TESTING PROTOCOLS

2.1 OVERVIEW

This chapter summarizes the SVE monitoring activities, before and after the steam enhanced SVE treatability study in August 2011. The primary activities associated with the O&M included bi-weekly and monthly monitoring of system performance, and semi-annual sampling and analysis of extracted soil gas. In addition to these regularly scheduled activities, periodic gauging of VEW water levels was performed and groundwater extraction was completed as needed. SVE condensate and purge water was managed as authorized by Texas Commission on Environmental Quality (TCEQ) Underground Injection Control permit, authorization number 5X2600431. Results from monitoring events are presented in Chapter 3.

2.2 INITIAL SOIL GAS AND FLOW ADJUSTMENTS

Initial monitoring was performed on December 9, 2010. The system was shut down April 2011 through July 2011 for the drilling and installation of 2 SIWs, 5 VEWs, and plug and abandonment of VMPs. From August 8 through August 30, 2011 a steam enhanced treatability study was performed. Routine monitoring was resumed in October 2011. Field screening was performed at all VEWs using a 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 wells outside Building 90 (VEWs 15, 16, 18, 28B and new wells 29 through 33), wells inside Building 90 (VEWs 01, 02, 09, 10, 12, 13, 15), deep wells (VEWs 24 and 26), shallow wells (VEWs 19, 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 as well as water evacuation from VEWs and managed as authorized by CSSA's 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 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 18-month 0&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					
December 9, 2010	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes					
December 16, 2010	Vapor Intrusion Sampling	Samples collected from VIP-12 through VIP-14					
January 5, 2011	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes					
February 8, 2011	Monthly monitoring	Field readings from VEWs 13-28B, and all four intakes; SVE shut down for Noblis testing 2/8/11 – 2/11/11					
March 10, 2011	Monthly monitoring, semi-annual sampling	Field readings and soil vapor sampling from VEWs 13-28B and all four intakes					
March 23, 2011	SIW-01 drilling	Turned off western side of system for SIW drilling					
April 8, 2011	Monthly monitoring, SIW & VEW drilling	Field readings from VEWs 13,14,17,19-27; and two intakes; Eastern system shut down for drilling					
April 18-27, 2011	Noblis sampling for carbon stable isotope analysis	System shut down for Noblis sampling					
May 4, 2011	SIW & VEW drilling	Both sides of SVE system shut down for drilling of SIWs and VEWs.					
June 2, 2011	Water line investigation	SVE system remains off to check for leaks in water line around building 90					
June 5, 2011	Monthly monitoring	Field readings from VEWs 13,14,17,19-27; and two intakes; eastern side of system remains off for SIW & VEWs installation					
August 4, 2011	Treatability Study	Steam injected into wells within AOC-65					
August 9, 2011	Maintenance	Eastern side exterior blower replaced					
October 13, 2011	Monthly monitoring	Field readings from VEWs 13-33, and all four intakes					
October 25, 2011	System maintenance	GAC used on the western side during the treatability study moved to eastern side just before existing GAC					
November 9, 2011	Monthly monitoring, VEW purging	Field readings from VEWs 13-33, and all four intakes; VEWs purged and water levels in VEWs gauged					
December 7, 2011	Monthly monitoring, VEW purging	Field readings from VEWs 13-33, and all four intakes; VEWs purged and water levels in VEWs gauged					
January 6, 2012	Monthly monitoring, VEW purging	Field readings from VEWs 13-33, and all four intakes; VEWs purged and water levels in VEWs gauged					
February 6, 2012	Sampling	Composite sample collected from KO pots					

Date	Activity	Samples/Comments
February 7, 2012	Monthly monitoring, VEW purging	Western deep side shut down due to ineffectiveness; field readings from VEWs 15,16,18-21,23,25,27-33, and the three active intakes; VEWs purged and water levels in VEWs gauged
February 9-13, 2012	Plug and abandon VMPs	Plug and abandon SIW02, VMP-4a, & VMP-6 prior to trench installation
February 29 – May 3, 2012	Trench installation	Trench installed on the western side of building 90 along ditch; trench then filled with alternating layers of gravel and clay
March 9, 2012	Monthly monitoring	Field readings from VEWs 15,16,18-21,23,25,27-33, and the three active intakes; water levels in VEWs gauged
March 19-23, 2012	Power line work	SVE system shut down to move power lines from the west side of Bldg. 90 to the east side
March 20, 2012	Sampling	A sample was collected from water that accumulated in open trench
April 2012	Trench filling	Trench filled with gravel/clay layers and shallow, middle, and deep lines installed
April 2-3, 2012	Monthly monitoring, semi-annual sampling	Field readings and soil vapor sampling from VEWs 15,16,18-21,23,25,27-33 and the three active intakes
April 26, 2012	Plug and abandon VMP-3	Plug and abandon VMP-3 due to damage sustained from heavy equipment during trench installation
May 7, 2012	Trench concrete completion	Concrete ditch installed on top of trench
May 8, 2012	Monthly monitoring	Field readings from VEWs 15,16,18-21,23,25,27-33 and the three active intakes

Note: Biweekly monitoring events are not included in this table. Biweekly system checks included emptying of water accumulated in knock out pots, system pressure adjustments, and system maintenance as needed.

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 March 2011, August 2011, and April 2012. The second semi-annual sampling event for 2011 was performed during the steam injection study (August) and a more detailed account of those activities and results can be found in AOC-65 Steam Enhanced Soil Vapor Extraction Treatability Study Report (Parsons, 2011). Samples were collected from the selected sampling points (VEWs 01 through 33), and all four intakes during each sampling event to allow for direct comparison of results. 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 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 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. On January 12, 2010, the GAC was replenished with 1,500 pounds of fresh carbon. The spent carbon was recycled through Calgon Carbon.

2.6 VEW WATER EVACUATION

During significant rain events and when the water table is elevated, the VEW screened intervals fill with water. In order to keep the system running as effectively as possible the water in these VEWs are purged or evacuated. The purge water from these wells is managed within the Bioreactor located at SWMU B-3 under TCEQ UIC authorization number 5X2600431. In January 2012 system checks were performed before and after purging the VEWs for comparison.

CHAPTER 3 SYSTEM OPERATIONAL MEASUREMENTS

This section summarizes results of 18 months of monthly monitoring and soil gas sampling during the O&M period (November 9, 2010 through May 8, 2012). Results were evaluated, along with other periodic sample results, from this O&M task 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 November 9, 2010, with the semiannual 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 18 month period, 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 Underground Injection Control Permit at SWMU B-3 Bioreactor.

Extraction pressure and airflow velocity measurements at each VEW and blower were collected as specified in the *AOC-65 SVE Systems O&M Plan* (Parsons, 2010) 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. During months 36 through 39 (April through July, 2011) both sides of the system were shut down for the drilling of SIW-01, SIW-02, and VEWs 29-33. During months 40 and 41 (August and September, 2011) a steam injection treatability study was conducted, details from this study were reported in the *AOC-65 Steam Enhanced SVE Treatability Study Report* (Parsons, 2011). In February 2012 it was determined from VOC analysis that the AOC-65 deep wells were not contributing to the removal of significant amounts of VOCs, therefore the deep side was turned off for the remaining 4 months.

Intake pressures at 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

Building 90	Month 31	Month 32	Month 33	Month 34	Month 35	Month 36	Month 37	Month 38	Month 39	Month 40	Month 41	Month 42	Month 43	Month 44	Mon	th 45	Month 46	Month 47	Month 48	Month 49
exterior	11/9/10	12/9/10	1/5/11	2/8/11	3/10/11	4/8/11	May-11	Jun-11	7/5/11	8/18/11	9/1/11	10/13/11	11/9/11	12/7/11	1/4/12	1/6/12	2/7/12	3/9/12	4/3/12	5/8/2012
Building 90 Intake-EX	-44.1	-42.1	-41.6	-39.1	-38.7		-			-70.0		-12.4	-14.6	-20.3	-21.1	-20.3	-17.7	-17.2	-15.5	-12.1
VEW 15	-41.6	-39.3	-39.8	-35.6	-36.9							-8.6	-11.6	-17.3	-18.3	-17.4	-15.4	-14.6	-12.8	-8.5
VEW 16	-43.3	-39.2	-39.6	-35.2	-33.4							-8.7	-11.2	-17.3	-17.6	-17.1	-15.8	-14.3	-12.8	-8.7
VEW 18	-44.1	-38.8	-39.8	-35.6	-36.5							-9.1	-12.7	-17.5	-18.4	-16.4	-15.5	-14.3	-12.7	-8.5
VEW 28A	-44.1	-37.6	-39.3	-34.1	-36.1							-8.9	-11.5	-14.9	-17.9	-17.9	-15.3	-14.7	-13.6	-7.9
VEW 28B	-44.1	-36.7	-42.3	-34.1	-30.3							-8.5	-10.8	-16.5	-18.7	-17.7	-15.5	-15.4	-13.5	-8.2
VEW 29							system off	for drilling				-8.1	-11.2	-16.2	-16.7	-14.7	-14.1	-14.4	-11.5	-7.8
VEW 30												-8.1	-11.9	-16.2	-18.3	-16.2	-14.7	-13.8	-11.8	-7.9
VEW 31												-8.0	-10.8	-16.3	-16.9	-15.8	-13.6	-13.4	-11.1	-7.9
VEW 32												-8.2	-10.9	-16.1	-17.1	-15.6	-14.9	-14.1	-12.2	-7.9
VEW 33												-8.1	-11.1	-15.4	-17.3	-16.4	-14.7	-13.6	-11.9	-8.2
interior																				
Building 90 Intake-SS	-38.6		-38.5	-35.6	-36.1					-62		-34.2	-30.8	-30.2	-32.8	-32.8	-32.2	-34.2	-44.0	-44.0
AOC-65	Month 31	Month 32	Month 33	Month 34	Month 35	Month 36	Month 37	Month 38	Month 39	Month 40	Month 41	Month 42	Month 43	Month 44		th 45	Month 46	Month 47	Month 48	Month 49
shallow wells	11/9/10	12/9/10	1/5/11	2/8/11	3/10/11	4/8/11	May-11	Jun-11	7/5/11	8/18/11	9/1/11	10/13/11	11/9/11	12/7/11	1/4/12	1/6/12	2/7/12	3/9/12	4/3/12	5/8/2012
AOC-65-Intake-SW	-37.1	-39.7	-38.0	-39.0	-35.6	-34.4			-25.3	-22.0		-14.5	-25.5	-27.5	-33.4	-31.1	-37.3	-43.8	-40.2	-40.6
VEW 19	-36.1	-38.6	-37.1	-38.3	-34.4	-33.8			-24.9			-14.1	-24.8	-28.1	-32.8	-29.8	-36.7	-44.1	-40.9	-40.2
VEW 20	-35.7	-37.5	-36.8	-36.5	-36.1	-33.7			-24.6			-13.9	-24.9	-27.7	-32.5	-31.1	-36.4	-42.6	-41.3	-39.8
VEW 21	-35.4	-37.8	-36.3	-37.6	-36.1	-34.5			-24.5			-13.9	-24.6	-26.8	-32.8	-31.9	-37.1	-42.9	-40.3	-40.2
VEW 23	-35.7	-37.1	-37.1	-36.3	-35.1	-33.8			-24.4			-14.0	-24.6	-27.5	-32.6	-31.5	-36.7	-42.3	-40.5	-30.2
VEW 25	-35.6	-37.2	-36.1	-37.3	-34.8	-34.2			-24.2			-14.3	-24.5	-26.5	-33.4	-32.2	-36.5	-43.6	-40.3	-40.4
VEW 27	-35.9	-37.2	-35.9	-36.3	-35.6	-33.6			-24.4			-14.0	-24.9	-26.7	-32.9	-31.5	-36.9	-26.4	-40.5	-39.8
deep wells							system off	for drilling												
AOC-65-Intake-DW	-35.9	-38.4	-38.4	-39.0	-38.6	-35.7			-32.0	-46		-26.4	-32.7	-34.8	-36.1	-35.9				
VEW 13	-32.1	-33.5	-33.7	-34.6	-33.3	-30.7			-27.9			-23.3	-29.8	-31.1	-34.8	-30.3				
VEW 14	-31.8	-34.1	-33.6	-33.7	-32.9	-31.1			-27.7			-23.1	-28.5	-31.1	-32.6	-31.5				
VEW 17	-31.5	-32.6	-33.3	-33.7	-33.1	-31.1			-27.7			-22.7	-27.7	-41.5	-33.3	-30.4	system shut	down due to	minimal VO	C detections
VEW 22	-31.1	-32.6	-32.2	-34.3	-33.3	-30.2			-27.2			-22.5	-27.9	-30.7	-32.1	-30.2				
VEW 24	-30.6	-34.2	-32.2	-33.7	-32.8	-30.7			-27.2			-22.4	-27.9	-31.0	-33.3	-30.5				
VEW 26	-30.6	-32.4	-32.3	-33.1	-32.9	-30.8			-26.8			-22.3	-28.4	-30.3	-32.3	-30.4				

Note: - The system was turned off for vapor intrusion and pulse testing from August 23 through October 15, 2010 * - No readings were collected following the conclusion of steam injection

^{** -} Readings were collected prior to purging VEWs on 1/4/12 and after purging VEWs on 1/6/12

Table 3.2

Building 90	Month 31	Month 32	Month 33	Month 34	Month 35	Month 36	Month 37	Month 38	Month 39	Month 40	Month 41*	Month 42	Month 43	Month 44	Montl	h 45**	Month 46	Month 47	Month 48
exterior	11/9/10	12/9/10	1/5/11	2/8/11	3/10/11	4/8/11	May-11	Jun-11	7/5/11	8/18/11	9/1/11	10/13/11	11/9/11	12/7/11	1/4/12	1/6/12	2/7/12	3/9/12	4/3/12
Building 90 Intake-EX	4,480	3,312	3,611	2,149	6,990					5,212		>15000	3,720	3,285	2,384	>15000	2,341	1,378	4,917
VEW 15	614	7,078	667	525	686					71		92	243	226	230	8,424	272	285	230
VEW 16	2,806	1,771	3,764	1,851	2,901					701		821	234	300	210	8,019	290	309	246
VEW 18	751	2,253	668	667	662					797		103	251	464	279	217	279	264	254
VEW 28A	556	3,182	1,371	2,418	4,532					677		949	1,604	277	372	516	279	273	229
VEW 28B	2,032	671	708	610	1,471					79		115	250	466	410	370	284	279	250
VEW 29							system off	for drilling		500		445	236	345	178	180	1,392	174	773
VEW 30										64		170	229	420	160	183	1,390	115	221
VEW 31										1584		2,181	1,640	2,790	1,347	3,172	1,420	3,675	3,136
VEW 32										82		174	237	445	2,751	183	434	101	224
VEW 33										270		282	224	384	1,830	210	736	173	283
interior																			
Building 90 Intake-SS	7,540		9,112	6,608	4,153					2592			11,131	4,234	6,832	>15000	6,428	5,677	12,201
AOC-65	Month 31	Month 32	Month 33	Month 34	Month 35	Month 36	Month 37	Month 38	Month 39	Month 40	Month 41*	Month 42	Month 43	Month 44	Montl	h 45**	Month 46	Month 47	Month 48
shallow wells	11/9/10	12/9/10	1/5/11	2/8/11	3/10/11	4/8/11	May-11	Jun-11	7/5/11	8/18/11	9/1/11	10/13/11	11/9/11	12/7/11	1/4/12	1/6/12	2/7/12	3/9/12	4/3/12
AOC-65-Intake-SW	623	703	934	1,487	921	1,405			1,820	1905		1,760	1,553	1,523	1,204	>15000	1,381	901	829
VEW 19	863	2,304	904	3,009	725	748			1,244	1092		656	722	440	637	311	687	504	622
VEW 20	1,312	1,478	772	701	777	686			449	300		196	512	438	631	443	656	602	601
VEW 21	1,860	440	751	418	748	662			497	342		181	481	621	637	615	633	704	622
VEW 23	836	637	759	474	763	620			1,431	1436		733	734	1,334	1,206	1,315	856	384	561
VEW 25	2,391	1,573	817	371	743	717			546	485		172	456	607	587	501	646	581	590
VEW 27	533	545	800	617	822	713			567	515		170	457	597	645	611	631	516	622
deep wells							system off	for drilling											
AOC-65-Intake-DW	5,234	5,221	6,996	5,140	7,555	7,661			8,550	6629		6,318	5,572	4,907	6,537	4,804			
VEW 13	2,789	8,167	10,135	7,713	2,133	2,755			4,175	2945		2,737	2,718	3,856	7,828	8,100			
VEW 14	637	1,655	566	605	641	517			550	497		466	565	688	7,171	413	system shi	ıt down due	to minimal
VEW 17	1,385	1,546	1,226	3,503	1,716	2,069			2,680	1694		1,686	1,270	955	1,110	1,604		OC detection	
VEW 22	1,161	7,032	1,510	915	1,343	1,550			2,114	1306		914	859	961	1,708	11,817	'		
VEW 24	582	354	645	1,788	689	620			495	494		438	555	929	386	273			
VEW 26	1,941	1,906	1,364	753	900	1,523			1,864	1223		1,086	858	799	1,011	751			

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

^{* -} No readings were collected following the conclusion of steam injection

^{** -} Readings were collected prior to purging VEWs on 1/4/12 and after purging VEWs on 1/6/12

		WESTERN AOC-65 SVE SYSTEM												
		AOC65-IN	TAKE-SV	W			AOC65-II	NTAKE-D'	AOC65-EXHAUST					
Date	Vacuum Pump Inlet (in. H2O)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	Vacuum Pump Inlet (in. H2O)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)
11/9/2010	40	-37.1	623	68.5	6.7	45	-35.9	5,234	71.2	2.5	2.0	6,327	126.1	2.7
12/9/2010	40	-39.7	703	64.5	0.0	51	-38.4	5,221	65.1	0.0	2.0	1,366	101.2	0.0
1/5/2011	42	-38.0	934	69.0	15.9	50	-38.4	6,996	65.2	6.6	2.1	5,330	121.2	5.6
2/8/2011	40	-39.0	1487	55.9	7.3	50	-39.0	5,140	53.0	5.2	2.3	5,210	110.6	5.4
3/10/2011	40	-35.6	921	75.5	5.2	50	-38.6	7,555	71.4	1.9	2.0	8,400	130.8	0.1
4/8/2011	35	-34.4	1405	79.8	2.4	45	-35.7	7,661	77.1	2.6	2.5	8,900	136.5	3.7
5/4/2011	System off for Drilling													
6/1/2011						Буяк	om on for D	Tilling						
7/5/2011	27	-25.3	1820	88.5	6.7	42	-32.0	8,550	90.6	4.8	3.0	14,500	152.9	2.4
8/18/2011	22		1905	89.7		46		6,629	93.0					
9/1/2011														
10/13/2011	15	-14.5	1760	82.3	1.2	40	-26.4	6,318	78.6	0.1				
11/9/2011	30	-25.5	1553	64.2	6.1	42	-32.7	5,572	69.0	5.8	3.4	12,508	120.3	6.6
12/7/2011	30	-27.5	1523	58.0	3.9	40	-34.8	4,907	59.3	4.3	3.5	9,579	122.5	4.6
1/4/2012	33	-33.4	1204	64.5	0.0	43	-36.1	6,537	62.9	4.7	2.4	10,341	106.5	4.1
1/6/2012	33	-31.1	>15000	58.6	11.2	40	-35.9	4,804	59.5	6.2	4.2	10,782	126.8	3.9
2/7/2012	39	-37.3	1381	57.1	2.6		0.2	1,047	104.3	3.3				
3/9/2012	42	-43.8	901	51.7	4.1	Deep B	lower off d	ess	0.1	986	110.2	4.1		
4/3/2012	40	-40.2	829	80.7	7.3					0.0	772	1448.0	1.1	

		EASTERN AOC-65 SVE SYSTEM												
		B90-IN7	AKE-EX				B90-EXHAUST							
Date	Vacuum Pump Inlet (in. H2O)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	Vacuum Pump Inlet (in. H2O)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)	Vac. @ Manifold (in.H ₂ O)	Flow (fpm)	Temp. (deg. F)	TVH (ppm)
11/9/2010	50	-44.1	4,480	69.4	1.9	62	-38.6	7,540	68.9	1.1	8.9	5,478	135.6	1.3
12/9/2010	38	-42.1	3,312	69.0	0.0	60					37.8	5,415	68.7	0.0
1/5/2011	50	-41.6	3,611	69.6	5.3	65	-38.5	9,112	71.4	4.0	10.8	8,513	132.7	1.5
2/8/2011	48	-39.1	2,149	57.1	4.3	64	-35.6	6,608	57.1	2.5	12.2	10,739	117.3	3.5
3/10/2011	48	-38.7	6,990	81.1	0.0	65	-36.1	4,153	86.3	0.0	12.6	>15000	150.2	0.0
4/8/2011 5/4/2011 6/1/2011 7/5/2011	System off for Drilling													
8/18/2011	70		5,212	87.2		62		2,592	86.3					
9/1/2011														
10/13/2011	75	-12.4	>15000	74.2	1.9	69	-34.2	>15000	87.4	1.2	20.7	>15000	144.1	1.3
11/9/2011		-14.6	3,720	65.2	6.8	75	-30.8	11,131	67.4	5.5	21.1	>15000	134.4	6.1
12/7/2011	17	-20.3	3,285	62.2	8.3	72	-30.2	4,234	48.7	4.3	20.6	14,613	135.3	7.4
1/4/2012	35	-21.1	2,384	60.7	3.5	65	-32.8	6,832	62.8	2.0	20.4	>15000	137.1	2.7
1/6/2012	38	-20.3	1,919	60.7	5.1	64	-29.8	>15000	73.5	1.9	21.0	>15000	139.8	3.2
2/7/2012	30	-17.7	2,341	62.7	3.4	55	-32.2	6,428	65.1	2.0	33.6	>15000	136.2	3.4
3/9/2012	30	-17.2	1,378	55.5	2.1	66	-34.2	5,677	54.1	0.9	32.2	>15000	134.8	1.8
4/3/2012	33	-15.5	4,917	77.1	2.2	56	-44.0	12,201	78.7	0.0	28.1	>15000	164.8	0.0

3.2 Soil Gas Screening Results

Soil gas concentrations in each of the VEW monitoring points were measured using field instruments during the monthly monitoring events. 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. Additionally, the PID is susceptible to errors associated with temperature fluctuations and soil vapor moisture content.

TVH readings are screening data collected to assess the operational performance of each vapor extraction well or blower. The TVH field screening results indicate a slight increase in VOCs after the thermal enhancement study in both the western and eastern sides of the system. On the Western AOC-65 (deep and shallow) side of the system the TVH readings spiked in the same month, January 2012. On the Eastern Building 90 side of the system TVH readings spiked earlier, the Sub-slab in November and the exterior wells in December 2012.

Analysis of soil vapor samples over the entire 18 months of the O&M period are slightly dissimilar than the TVH readings, though both indicate a peak in TVH or VOC concentrations around the time of the steam injection treatability study. The TVH readings indicate stable or slightly increasing concentrations over the 18 month O&M period, while a VOC analysis of soil vapors indicate a moderate reduction in VOC concentrations in Western AOC-65 (deep and shallow) VEWs and blower intakes and a slight reduction in VOC concentrations in the Building 90 sub-slab intake.

3.3 SOIL GAS ANALYTICAL RESULTS

3.3.1 Soil Vapor Summary

Soil vapor samples were collected for analytical testing during the eighteen months of O&M at AOC-65. Samples were collected on November 9, 2010, March 10, 2011; August 18, 2011; and April 3, 2012. Emission samples results are included in Table 3.4. Results from the Treatability Study sampling (August, 2011) are included in Table 3.4 and discussed briefly to provide context for overall removal trends (specifically, orders of magnitude increases in PCE concentrations in VEWs and blower intakes), however, these data are not included in calculations for the determination of PCE removal rates and quantities as they represent anomalous conditions. Results from the thermal enhancement treatability study performed during this O&M period are discussed in further detail in AOC-65 Steam Enhanced SVE Treatability Study Report (September 2011).

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. SVE sampling results collected during the monitoring period indicated that tetrachloroethylene (PCE) emissions constituted over 97% of the total VOC emitted from the AOC-65 SVE system. Therefore, discussions regarding contaminant removal rates are associated with PCE concentrations, however, trichloroethene and *cis*-1,2-dichloroethene results are also included in Table 3.4.

Initial sample results showed higher concentrations of VOC removed from the bedrock during the thermal enhancement study. Just before this study began the system was shut down

for 3-4 months in order to install wells on the Building 90 exterior side of the system. This likely contributed to VOC accumulation in the soil gas within the underlying bedrock formation. PCE concentrations measured over the O&M period indicate increasing trends at some VEWs and at the Building 90 Exterior system exhaust (blower intake). Increases in PCE concentrations were detected following steam injection in three of the SVE system blower intakes followed by a decrease in PCE concentrations during final sampling event. The western deep wells were off during the final sampling event.

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 3.5** 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 over the 48-month lifespan of SVE operations at AOC-65. **Table 3.6** further separates the estimated mass removed per sub system on a semi-annual basis for this 18-month O&M period.

All calculated removal rates are below the allowable levels specified by TCEQ PBR Number 71208 (Parsons, 2008a).

The estimated sustainable removal rates for the AOC-65 systems in tables 3.5 and 3.6 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, and slow volatilization rates within the bedrock formation. The combined calculated PCE removed from all four sub-systems during the most recent 18-month O&M period in Table 3.6 (11.18 lbs) is less than the calculated mass removed in year 2 of resumed SVE operations in Table 3.5 (12.1 lbs) and less than one-tenth of the calculated mass removed during the first year of resumed SVE operations (113.1 lbs), indicating diminishing returns. Though the operational run-times vary from year to year, the yearly PCE removal rates (i.e. lb/hr) are estimated independently of operational time. The estimated PCE removal rates through four years of operation indicate a significant reduction from year one to year two and continued reductions through year 4 as shown in Table 3.5. During the fourth year of operation, the Western system deep well blower was shut down for the last four months due to ineffectiveness. Decreases in annualized removal rates are seen in each of the other systems with the exception of Eastern Sub-slab which showed a slight increase. This could be attributed to the steam injection during month 40. 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.

3.3.3 Air Emissions Summary

The total mass of contaminants removed by the SVE system during the O&M period (18 months) was estimated using the average removal rates from the intakes at each blower and system operational running times (see Table 3.6). The annualized mass removal rate by the AOC-65 SVE system during the O&M period is estimated to be 12.09 lbs/year (~0.9 gallons/yr) following the first semi-annual event and 11.95 lbs/yr (~0.9 gallons/yr) during the second and third semi-annual events in this O&M period, which are well below the permitted limit of 0.268 lb/hr or 2,347.68 lb/year.

			Tetrachle	oroethene			Trichlo	roethene			cis -1,2-Dic	hloroethene	
	Building 90	Month 31	Month 35	Month 40	Month 48	Month 31	Month 35	Month 40	Month 48	Month 31	Month 35	Month 40	Month 48
	exterior	11/9/10	3/10/11	8/18/11	4/3/12	11/9/10	3/10/11	8/18/11	4/3/12	11/9/10	3/10/11	8/18/11	4/3/12
	Building 90 Intake-EX	31 B	65 B	570	310	8.3 B	22 B	7.9	9.2	ND	ND	1.8	2.4
	VEW 15	NS	2.6 B	340	180	NS	0.88 FB	20	5.7	NS	ND	26	1.3
	VEW 16	NS	11 B	4.4	220	NS	2.6 B	ND	6.3	NS	0.28 F	ND	1.5
В	VEW 18	NS	NS	NS	23	NS	NS	NS	1.2	NS	NS	NS	ND
System	VEW 28A	170 B	NS	16	NS	2.5 B	NS	7.8	NS	0.96 F	NS	ND	NS
S	VEW 28B	9.6 B	42 B	36	240	51 B	3.5 B	3.7	12	ND	ND	ND	0.85
SVE	VEW 29	NS	NS	14	22	NS	NS	ND	2.1	NS	NS	ND	1.0
55 S	VEW 30	NS	NS	7,200	2,900	NS	NS	26	11.0	NS	NS	12	5.9 F
AOC-65	VEW 31	NS	NS	430	170	NS	NS	ND	9.3	NS	NS	ND	2.2
AO	VEW 32	NS	NS	3,400	2,200	NS	NS	17	12.0	NS	NS	ND	ND
E,	VEW 33	NS	NS	NS	530	NS	NS	NS	24.0	NS	NS	NS	3.2
Eastern	interior												
斑	VEW 01	NS	1.0 FB	NS	NS	NS	0.74 FB	NS	NS	NS	ND	NS	NS
	VEW 02	NS	56 B	NS	NS	NS	0.50 FB	NS	NS	NS	ND	NS	NS
	VEW 09	NS	1500 B	2,700	NS	NS	3.0 FB	6.1	NS	NS	2.7 F	ND	NS
	VEW 10	NS	6.8 B	920	NS	NS	0.66 FB	1.6	NS	NS	0.38 FB	ND	NS
	VEW 12	NS	480 B	NS	NS	NS	0.79 FB	NS	NS	NS	ND	NS	NS
	Building 90 Intake-SS	210 B	180 B	650	86	1.1 B	1.1 B	2.8	0.49 F	0.73 F	0.89 F	2.6	0.70 F
	AOC-65 Western	Month 31	Month 35	Month 40	Month 48	Month 31	Month 35	Month 40	Month 48	Month 31	Month 35	Month 40	Month 48
	shallow wells	11/9/10	3/10/11	8/18/11	4/3/12	11/9/10	3/10/11	8/18/11	4/3/12	11/9/10	3/10/11	8/18/11	4/3/12
	AOC-65-Intake-SW	1,900	890 B	970	520	56	26 B	12	24	60	37 B	10	23
Ε	VEW 19	1,800	680 B	190	330	80	26 B	20	44	100	43	60	46
System	VEW 20	210	NS	ND	87	28	NS	190	1.2	19	NS	70	0.81
	VEW 21	12	NS	1.9	16	5	NS	3.4	5	0.87 F	NS	ND	0.82
SVE	VEW 23	73	NS	7.8	23	9.4	NS	4.0	3.8	3	NS	ND	1.8
	VEW 25	6,200	2500 B	24	690	150	62 B	2.6	21	100	33	0.62	8.9
-6.	VEW 27	2,400	1100 B	3,000	1,000	20	12 B	18	6.1	11	6.8	ND	3.4
AOC-65	deep wells												
n A	AOC-65-Intake-DW	69 B	37 B	14	NS	11 B	8.7 B	4.1	NS	0.45 F	0.51 FB	ND	NS
ster	VEW 13	NS	34 B	8.2	NS	NS	3.4 B	0.33	NS	NS	ND	ND	NS
Western	VEW 14	NS	8.7 B	1.6	NS	NS	2.9 B	ND	NS	NS	ND	ND	NS
1	VEW 17	78 B	NS	ND	NS	13 B	NS	ND	NS	0.50 F	NS	ND	NS
	VEW 22	28 B	NS	NS	NS	4.0 B	NS	NS	NS	ND	NS	NS	NS
	VEW 24	NS	24 B	NS	NS	NS	11 B	NS	NS	NS	0.60 FB	NS	NS
	VEW 26	100 B	34 B	0.79	NS	31 B	16 B	2	NS	2.5	0.73 F	ND	NS

^{*} 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

Estimated Yearly PCE Removal Rates and Mass/Volume Removed

		yrl	yr2	yr3	yr4
		Apr-09	Apr-10	Apr-11	Apr-12
	B 90 EX	0.31	0.10	0.11	0.19
wer	B 90 SS	5.95	0.48	0.35	0.28
Blower	Shallow	2.42	0.18	0.30	0.29
П	Deep	1.26	0.24	0.13	0.13
	Yearly total	9.94	1.01	0.89	0.88

Blower operational time (per year)

		yr1	yr2	yr3	yr4
	_	Apr-09	Apr-10	Apr-11	Apr-12
	B 90 EX	0.84	0.77	0.56	0.47
wer	B 90 SS	0.84	1.00	0.76	0.64
Blo	Shallow	0.84	0.71	0.76	0.55
	Deep	0.84	0.83	0.76	0.30

^{*} one year = May through April

Calculated volume removed (gal)

		yr1	yr2	yr3	yr4	
	_	Apr-09	Apr-10	Apr-11	Apr-12	Blower total
•	B 90 EX	0.26	0.08	0.06	0.09	0.490
ower	B 90 SS	5.00	0.48	0.27	0.18	5.921
Blo	Shallow	2.04	0.13	0.23	0.16	2.556
	Deep	1.06	0.20	0.10	0.04	1.392
	Yearly total	8.35	0.89	0.66	0.46	10.36

Calculated mass removed (lb)

		yr1	yr2	yr3	yr4	
		Apr-09	Apr-10	Apr-11	Apr-12	Blower total
	B 90 EX	3.5	1.1	0.8	1.2	6.63
wer	B 90 SS	67.7	6.5	3.6	2.4	80.20
Blo	Shallow	27.6	1.8	3.1	2.1	34.63
	Deep	14.3	2.7	1.3	0.5	18.86
	Yearly total	113.1	12.1	8.9	6.3	140.31

Estimated Semi-Annual PCE Removal Rates and Mass/Volume Removed for 18 month O&M period

Blower Operational Run-Time (year)

Blower

Semi-	annual	Nov 2010 -	Apr 2011 -	Nov 2011 -
	Event	Apr 2011	Nov 2011	Apr 2012
B 90 EX		0.232	0.05	0.42
B 90 SS		0.43	0.15	0.49
Shallow		0.43	0.1	0.45
Deep		0.43	0.1	0.2

Estimated Removal Rates (gal/yr)

WAT

Semi-annual	Nov 2010 -	Apr 2011 -	Nov 2011 -
Event	Apr 2011	Nov 2011	Apr 2012
B 90 EX	0.11	0.19	0.19
B 90 SS	0.35	0.28	0.28
Shallow	0.30	0.29	0.29
Deep	0.13	0.13	0.13
Semi-annual event total	0.89	0.88	0.88

Calculated Mass Removed (gal)

TAM

Semi-annual	Nov 2010 -	Apr 2011 -	Nov 2011 -	
Event	Apr 2011	Nov 2011	Apr 2012	Blower Total
B 90 EX	0.03	0.01	0.08	0.12
B 90 SS	0.15	0.04	0.13	0.33
Shallow	0.13	0.03	0.13	0.29
Deep	0.06	0.01	0.03	0.09
Total by semi-				
annual event	0.36	0.09	0.37	0.83

Calculated Mass Removed (lbs) per Semi-annual Event

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	F	
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	`	

Semi-annual	Nov 2010 -	Apr 2011 -	Nov 2011 -	
Event	Apr 2011	Nov 2011	Apr 2012	Blower Total
B 90 EX	0.34	0.13	1.10	1.57
B 90 SS	2.04	0.56	1.83	4.43
Shallow	1.78	0.39	1.76	3.92
Deep	0.75	0.17	0.34	1.26
Total by semi-				
annual event	4.91	1.25	5.02	11.18

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 does remove VOC contamination present in the area, but its effectiveness is limited. Thermally enhancing the system through steam injection did show an increase in PCE levels within individual VEWs as well as the intakes with the exception of the western deep wells. Purging the VEW's improves flow rates as more available screen is exposed. 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 48 months of resumed O&M operation of the SVE system at AOC-65, the removal of approximately ~10.4 gallons of PCE was achieved. Mass removal estimates are based on the yearly average removal rates and operational times for the individual blowers. Observations of the overall performance of the SVE system during the four-year operational period at AOC-65 include:

- 80% of the estimated mass removed via the SVE system at AOC-65 occurred during the first year of resumed operation.
- The last three years of SVE operation at AOC-65 have collectively contributed a total of ~2 gallons of PCE removed, or 19.5% of the total PCE removed since 2008.
- Although thermal enhancement activities successfully increased volatilization of VOCs, secondary affects (e.g. increased condensate generation) limited system recovery effectiveness (reduced flow).

The overall conclusions for this 18-month AOC-65 SVE assessment period include:

- Approximately ~0.83 gallons (11.18 lb) of PCE has been removed from underlying limestone at AOC-65 since November 2010;
 - o Sub-slab VEWs accounted for 0.33 gallons of removed mass;
 - o AOC-65 shallow VEWs accounted for 0.29 gallons of removed mass;
 - o Exterior Building 90 VEWs accounted for 0.12 gallons of removed mass;
 - o AOC-65 deep VEWs accounted for 0.09 gallons of removed mass.
- During the last 18 months, the SVE system at AOC-65 has contributed less than 8% of the total PCE removed since operations resumed in 2008.
- The Western shallow system was more effective at removing PCE than the Western deep system when groundwater levels were not affecting screen intervals.

Although SVE has proven to be an effective approach for the removal of VOCs vapors in the shallow subsurface at AOC-65 in the past (~14.77 gallons removed in 2002 during initial SVE operations at AOC-65 and ~8.34 gallons removed during year one of this O&M (2009)); in its current configuration, the system is neither effective nor efficient and further modifications to the system to improve system effectiveness are impractical. Based on the observations of SVE system performance and overall conclusions stemming from these observations, Parsons

recommends the discontinuation of SVE operations at AOC-65 and repurposing VEWs as monitoring or injection points for future treatability studies.

CHAPTER 5 REFERENCES

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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.

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APPENDIX A

MONITORING AND PERFORMANCE FIELD DATA SHEETS

Building 90 SVE Inspection and Monitoring Form Camp Stanley Storage Activity, Texas

					Wellhead i	Doadinge				7			
Monitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Analyti	ical Sample Collecte	I Sample Collected				
Point	ft. BTOC	Interval	in.H₂O	fpm	°F	ppm	Time	Summa Cani	ster#		omments		
AOC65-VEW1			i		Γ	<u>Subslat</u>	<u>vveus</u>	Τ					
AOC65-VEW2								 					
GUICEL WEW									013411121				
ENTERNATIVE							· · · · · · · · · · · · · · · · · · ·						
(1				with the late of the control of the				
inggata va ear.									Letter beliebelen				
Averege Netherland									enature.		Salahan salah		
AOC65-VEW8			-										
AOC65-VEW9			-										
AOC65-VEW10					10.00.00		1,000	27. #117	979,				
Manight Managhan (1974)			[243				1201,000	100			
AOC65-VEW12													
B90-INTAKE-SS			- 38.6	7540	68.9	Exterior	1050	* 2695					
				Manifold Re	adings	Exterior	VI 8115		Wellhead	T .			
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac (In. H₂O)	Flow fpm	Temp °F	VOC	Analyti Time	cal Sample Collecte		1	Comments		
AOC65-VEW15	13	5-12	- 41.6	614	49.4	0.7	1031	- Committee Committee	- 0.5	†	Comments		
AOC65-VEW16	41	15-40	43.3	2406	(64.4	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	19	1034	* 2296					
			142/ 1	2032	70.1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1042	* 1202		†			
AOC65-VEW28B	179	139.3-179.3	 			()	- 	1000	111-23				
B90-INTAKE-EX		143	- 44,	4480	69.4	1.9	1046	* 34420					
B90-EXHAUST			+ 8.9	5478	135.6	1.3	1049						
AOC65-POSTGAC		200.00	+ 4.7	5212	95.1	6.4	1052	* 2129					
	System		,	Intela Dras	Pre Adjustme		Broser	Final Intake	Vacuum	Relief Valve			
Blower			ver On		sure Gauge	<u> </u>	Pressure	Pressure	Check /3	Lube	Hours Meter	-	
Information	Subsiab		/ N	60		(adjust to 65" H ₂ C		62	(y / N	O/N	1606.0	-	
	Exterior	V)/ N	50		(adjust to 50° H ₂ C		50	Y/N	<u></u>	<u>0.58-0</u>	+	
Moisture	System	Insp	ected	Em	ptied		ransferred als)	Observations/			313.9		
Separator	Subslab	(3)	/ N	(9)	/ N	0		TX Chan	yel filters				
Information	Exterior	$\overline{}$	γ N		/ N	$\overline{}$		1 '					

AOC-65 SVE Inspection and Monitoring Form Camp Stanley Storage Activity, Texas

Date/Time :	10 / 043	0	Operator	. Elliotl	+ Bev	rch	_	Monitoring Event:		Monthly A	Quarterly Ot	her Semi- annua	.1
					old Read				Wellhead				
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H₂O	Flow fpm	Temp °F	VOC ppm	Analyti Time	cal Sample Collected Summa Canister #	Vac in. H₂O		C	omments	
						1,7	Shallo	w Wells					
AOC65-VEW19	26	5-25	- 36.1	863	64.2	8.9	0915	¥ 1455	20.1	pulling	up water	, wellhoud Vac	fluctu
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-VEW23	21	6-21	. 35,7	836	71.3	<u> </u>	0934	¥ 33397	. 34.8		_		
AOC65-VEW25	21	6-21	ىا،35	2391	71.5	g7.0	0937	* 36405	. 35.4				
AOC65-VEW27	21	6-21	-35,9	633	72.4	10.1	0941	¥ 34113	_ 34.8		_		
AOC65-INTAKE-	sw		-37.1	623	68.5	6.7	0909	¥ 35558	(April 1995) K				
				27.59		,	Deep	Wells	<u> </u>		-	·	
AOC65-VEW13	41	15-40	-32.1	2349	69.9	2.5	0453		- 1.4				
AOC65-VEW14	61	40-60	-31.8	637	70.8	1.2	0954		. 19,2				
AOC65-VEW17	52.5	22-52	-31.5	1385	70.3	2.1	6459		1415				
AOC65-VEW22	51	25-56	- 31.1	illel	69.6	2.0		+34169	28.3				
AOC65-VEW24	50	25-50	-30.6	582	71.4	0.7	0956		-011				
AOC65-VEW26	50	25-50	0.08 ـ	1941	70.1	2.2	1005	* 34102	.27.2				
AOC65-INTAKE-I	ow		-35,9	5234	71.2	2.5	6949	* 36465					
AOC65-EXHAUS	т	The state of the s	±2.0	6327	124.1	2.7	1010	1	The state of the s				
	System			Initial		ustment Adiu	ısted	Final Intake	VaVa	cuum Relie	t Valve		
Blower		Blowe		Pres	sure	Pres	sure	Pressure	Che		Lube	Hours Met	er
Information	Shallow	(Q)	_	3°		(adjust to 75" H		40	(Y)/		(<u>N</u> /N	NA_	
	Deep	(Y)	N	ų	5	(adjust to 75" H	₂o) Y / (N)	45	(Y)/	N	(Y)/ N	NA NA	
Moisture Separator	System	Inspe		Emp		(ga	_	Hunged for					
Information	Shallow	<u>⊗</u> /		8		C		Trumper to	1107)				
	Deep	_ (Y)/	N	\sum_{i}	/ N	3	gallons						

Building 90 SVE Inspection and Monitoring Form Camp Stanley Storage Activity, Texas

Date/Time : 1.7	1.10	1400		Operator:	1 Bone	10		Monitoring	Event: Biweekly /	Monthly / Quarte	erly / Other	
					Wellhead	Pandings				- The second		
Monitoring	Total Depth	Screened	Vac	Flow								
Point	ft. BTOC	Interval	in.H 2 O	fpm	Temp °F	VOC ppm	Time	Summa Canis		Comr	ments	
						Subsla	b Wells					
AOC65-VEW1							1					
AOC65-VEW2			-					To the state of th				
AOC65-VEW3									OFFLINE			
AOC65-VEW4			-	Way no to					OFFLINE			
AOC65-VEW5		E1 .00							OFFLINE			
AOC65-VEW6									OFFLINE			
AOC65-VEW7			-						OFFLINE			
AOC65-VEW8			-									
AOC65-VEW9		i	-									
AOC65-VEW10			-									
AOC65-VEW11			-						OFFLINE		Manager of the	
AOC65-VEW12			-		-					•		
B90-INTAKE-SS	•		-			•						
						Exterio	r Wells					
Monitoring	Total Depth	Screened	Vac	Manifold Rea		Voc	Analysis	al Sample Collected	Wellhead vac			
Point	ft. BTOC	Interval	(in. H₂O)	fpm	Temp °F	ppm	Time	Summa Canis	THE PERSON NAMED IN COLUMN 1		Comments	
AOC65-VEW15	12	E 40										
	13	5-12	-									
AOC65-VEW16	41	15-40							-			
AOC65-VEW18	56	15.5-55.5	-			20)			-			
AOC65-VEW28A	120	80-120						1000	_			
AOC65-VEW28B	179	139.3-179.3	-						_			
B90-INTAKE-EX								41	2000			
B90-EXHAUST		I SHEET A	+									
AOC65-POSTGAC		1 1 1 1	+					_				
			Pre Adjustme			ent	ent			Vacuum Relief Valve		
Blower	System	Blov	ver On		sure Gauge	Adjusted	l Pressure	Final Intake Pressure	Check	Lube	Hours Meter	
Information	Subslab	(<u>y</u>), N	58	<u> </u>	(adjust to 65" H ₂ 0	O)(Y) N	Le5	9 /N	· (Y) N	1791.2	
	Exterior	(Y) N	57)	(adjust to 50" H₂0	O) Y (N)	50	N	(Y) N	240.8	
Moisture	System	Insp	ected	Emptied		Amount Tran	Amount Transferred (gals)		lotes:			
Separator Information	Subslab		/ N	0		0						
	Exterior) N	(Y)) N)					
in.H ₂ O: inches of water			fpm; feet per minu			ppm; parts per m	illion		VRV: vacuum rel	ief valve	osi: pounds per square inch	

AOC-65 SVE Inspection and Monitoring Form Camp Stanley Storage Activity, Texas

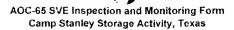
Date/Time : 11-24		310	Operator:		which/			monitoring Event		hly / Quarterly / Othe	
Manifestore	Total Depth	Careenad	Vac	Flow	old Read	ings VOC		al Sample Collected	Wellhead Vac		
Monitoring Point	ft BTOC	Interval	in.H ₂ O	fpm	Temp °F	ppm	Time	Summa Canister #	in. H₂O	Con	nments
							Shallo	w Wells			
The same of											
AOC65-VEW19	26	5-25	-						-		
AOC65-VEW20	27	10-25	_						-		
10000 721.2											
AOC65-VEW21	27	12-27	~						-		
ACCES VEINOS	21	6-21					2				
AOC65-VEW23	,21	0-21	-			 			-		
AOC65-VEW25	21	6-21	-						-		
- Laure											
AOC65-VEW27	21	6-21	-		_	<u>_</u> ,			-		
AOC65-INT/SKE-SW		13.4	_						100000	•	
		PIN I					Deep	Wells			
AOC65-VE'/V13	41	15-40									
AOC03-VE7V13	71	13-40	-						-		
AOC65-VEW14	61	40-60									
AOC65-VEW17	52.5	22-52	_						_		
10000 121111	02.0	0-									
AOC65-VEW22	51	25-56	-						-		
AOC65-VEW24	50	25-50	_						-		
AOC65-VEW26	50	25-50	-		-				-		
AOC65-INTAKE-DW			-						W 57.65)		
AOC65-EXHAUST			+								
		Pre Adj				ustment			Vacuum	Relief Valve	
Blower	System	Blowe	er On		Intake sure		sted sure	Final Intake Pressure	Check	Lube	Hours Meter
Information	Shallow	(Y)		36	Special Company of the Company of th	(adjust to 75° H		Pressure	Y/N	(Y)/ N	NA
	Deep	(Y)		41		(adjust to 75" H		40	(Ý) / N	(§ / N	NA
Moisture	System				,	Amount	Xfered	Observations/Note	es:		
Separator	Shallow	Inspe			otied	(ga	als)				
		17 /	IN I								

AOC-65 SVE Inspection and Monitoring Form Camp Stanley Storage Activity, Texas

10-1	1700	Operator	: J. Ku	nch; E	Junn	ison	Monitoring Event:	Biweekly	/ Month	ly / Quarterly / Ot	ther
			Manif	old Read	ings		***************************************	Wellhead	1		
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. H ₂ O		Co	omments
						Shallo	w Wells				
26	5-25				\$			- 11.1			
27	10-25	. 375			Ø		- Land	34,9			
27	12-27	37.8					WATER TO THE TOTAL THE TOT	-33.3		······································	
21	6-21				\$			35.2		**************************************	
21	6-21				Ø		managa da sensaga da da da de	. 35.9			
21	6-21			65:1	Ø			32.7			
	77	39,7	763	64.5	.Ø	Doon	Wolle			A	
			T 2.	7	T	Оеер	vvens		T		
41	15-40	. 33 .5	8167	598	\$		***************************************		ļ		
61	40-60	34,1	1655	63.1	Ø			Ø			
52.5	22-52			65,2	ø			- 14,7			
51	25-56	32.6	7032	56.1	Ø			- 29.0			·········
50	25-50	- 34.2	354	582	2			-0,2			······································
50	25-50	-324	1906					26.E	,		
	ar A.	38.4	5221	65,1	\$					······································	
		+2	1366	1012							·····
System	Blowe	r On	Initial Intake		Adjusted		Final Intake Pressure			Lube	Hours Meter
Shallow	Y /	N	38		(adjust to 75" H ₂	0)(Y)/N	90	(1)	N	(Ý/ N	NA
Deep	Y /	N	517)	(adjust to 75" H ₂	JY/N	51	(Y)	N	(Y)/ N	NA
System	Inspe	cted			Amount	Xfered	Observations/Note	es:			
Shallow											
Deep				/ N	7.2						
	26 27 27 21 21 21 21 41 61 52.5 51 50 50 System Shallow Deep System Shallow	Total Depth Screened Interval	Total Depth RETOC Interval In.H ₂ O 26 5-25 38.6 27 10-25 37.5 27 12-27 37.8 21 6-21 37.2 21 6-21 37.2 21 6-21 37.2 21 6-21 37.2 21 6-21 37.2 21 6-21 37.2 21 6-21 37.2 21 6-21 37.2 21 6-21 37.2 38.6 50 25-50 32.6 50 25-50 32.6 50 25-50 32.6 System Blower On Shallow Y/N System Inspected Shallow Y/N	Total Depth Screened Vac Flow fpm	Total Depth Screened Nac Flow Temp Flow Temp Flow Temp Flow Temp Flow Flow	Total Depth Screened Nac Flow Temp VOC ppm	Total Depth Screened Nac Interval Intital Intake System Inspected System Inspected System Inspected System Inspected System Inspected Shallow Y / N System Inspected Smallow Y / N	Nanifold Readings Flow F	Manifold Readings	Manifold Readings	

Building 90 SVE Inspection and Monitoring Form Camp Stanley Storage Activity, Texas

9.10	1530		Operator:	1. Bong	h, E.T	ennyson	Monitoring	Event: Biweekly	Monthly / Quart	erly / Other	
<i>_</i>				Wellhead) Readings				7		
Total Depth	Screened	Vac	Flow	Temp	VOC						
n. BTOC	Interval	III.H 2 O	трті				Summa Canis	iter#	Com	ments	
		-									
										The second secon	
198 184	11 July 18 1				to Carre		The arms of the	OFFLINE			
	7									- 1	
								OFFLINE			
				75 V 14414	ALC: U			A THE PROPERTY OF SOME PARTY OF SOME PARTY OF THE PARTY.	A CAR	Control of the Control	10.00
1-1119-			C	197 7 X S		10.00		C. A. Lider Co. Company of the San San San San San San	Control Control Van why are 180 and a Control Control of the	STATE OF STA	
		-									
1		-									
		-									
# W							1. 特别的	OFFLINE			
		-									
•		-			·						
			Manifold Re	adinas	Exterior	Wells		Wellhoa	d I		
Total Depth	Screened	Vac	Flow	Temp	VOC		al Sample Collecte	d Vac			
ft. BTOC	Interval				ppm	Time	Summa Canis	ter# (in. H ₂ O	<u> </u>	Comments	
13	5-12		2028		Ø			-0.1			
41	15-40	39,2	1771	58-0	\$			- 2.7	,		
56	15.5-55.5	. 38 .8	CT	72.3	Ø			-0.0			
120	80-120	- 37.6	3182	73.2	\$			- 39.5	<u> </u>		
179	139 3-179.3	. 36.7	P2/	76.8	6			7.9			
***		- 42.1	33/2	69.0				* 2 V			
100	10	+ 37.8	5415	68.7	8						
11.70		+ 9.1	626	79.8	Ø						
System							Final Intake	Vacuum	Relief Valve		
	Bley	ver On		sure Gauge			Pressure	Check	Lube	Hours Meter	
Subslab	(<u>y</u>)	/ N			(adjust to 65" H ₂ C) ⊘ (N	60	(Y) N	Q/N	2122.2	ĺ
Exterior	Ÿ	/(N)	30		(adjust to 50" H ₂ C) Y/(N)	38	M (X)	(Y) N	481.7	ĺ
System	Insp	ected	Emp	otied	Amount Tran	sferred (gals)	Observations/N	lotes:	(2)		
Substab	(B	/ N	0	N		<u> </u>	oiled !	+1. 1	J. 10 - X	. \	
T		/ N	(Ý		85		1116116	and monder	LOWAL PUBLI	Comments Hours Meter Z1222 481.9	
The same of the sa	Total Depth ft. Broc 13 41 56 120 179 System Subslab Exterior System System	Total Depth Screened Interval	Total Depth Screened Interval Interv	Total Depth Screened Interval Interv	Vac Flow Temp T	Total Depth Screened Nac Flow Temp Pre Popm Substate	Total Depth Screened Nac Flow Temp Popm Substab Wells	Wellhead Readings Total Depth Screened Interval Interval	Total Depth Screened Vac Flow Temp Pop Time Sunsite Sample Collected Minterval M	Total Depth Screened Name Na	Welfhood Readings Final Depth Screened No. Final Final Final Depth Screened No. Final Depth Screened Screened

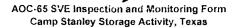


		·····		Manif	old Read	ngs			Wellhead		
Monitoring	Total Depth		Vac	Flow	Temp	voc		al Sample Collected	Vac	·	
Point	ft BTOC	Interval	in.H₂O	fpm	"F"	ppm	Time	Summa Canister #	In. H ₂ O	Co	mments
	 	7					Shallo	w Wells			A A STATE OF THE S
AOC65-VEW19	26	5-25									
ACCOS-VEVVIS	20	3-23				 					***************************************
AOC65-VEW20	27	10-25	_						-		
AOC65-VEW21	27	12-27								A MORE	
**************************************]										, .
AOC65-VEW23	21	6-21				<u> </u>			<u> </u>		
AOC65-VEW25	21	6-21	_								
Jour Letter		021				l					
AOC65-VEW/27	21	6-21	-								
	17.00	45 (2.3)									
AOC65-INT, KE-SW							<u> </u>	14/-//-		· · · · · · · · · · · · · · · · · · ·	
					may ma	<u> </u>	Deep	Wells			
AOC65-VE'W13	41	15-40	-						.		

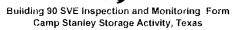
AOC65-VEW14	61	40-60							-		
AOC65-VEW17	52.5	22-52	_						_		
AOC65-VEW22	51	25-56	-					A TOTAL COLOR OF THE COLOR OF T	-	······································	
AOC65-VEW24	50	25-50									
10003-VEVV24	30	23-50							-	1114 A.	***************************************
AOC65-VEW26	50	25-50	_						-		
OCEE INTENET DIST											
AOC65-INTAKE-DW			· 								
OC65 EXHAUST		10 m	+								
	Cuet			In terms		ustment		F111	Vacuun	n Relief Valve	
Blower	System	Blowe	r On	Initial Pres		Adju Pres		Final Intake Pressure	Check	Lube	Hours Meter
Information	Shallow	3 ,		- 36	-717	(adjust to 75'11,4		-46	(V) N	(D) N	NA
	Deep	(N)		- 48		(adjust to 75" H _a		-48	Ø/ N	T AS N	NA
	System					Amount	Xfered	Observations/Note			,
Moisture Separator	F	Inspected		Emp		(ga	ls)				
Information	Shallow	<u> </u>	N	<u> </u>	N	21					
	Decp	(Ŷ)/	N	(₹)/	N	= 25					



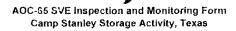
	72/10				Wellhead I	, A. Liv	2			7	rly / Other	
Monitoring	Total Depth	Screened	Vac	Flow	Temp	voc		al Sample Collected				
Point	ft. BTOC	Interval	in.H₂O	fpm	°F'	ppm Subslat	Time	Summa Caniste	r#	Comm	nents	
AOC65-VEW1	<u> </u>		-			Subsidi	Wens .	I				
AOC65-VEW2												
AOC65-VEW3	100	. * P#	144	and the second					OFFLINE	•		
		7,5	M .,	W				eres.		and the second	4 10 2.4	
AOC65-VEW5	and the second	A4.	104221575	aria A		April			** OFFLINE			7
AOC65-VEW6				***	arau un	46.488.3		Water to the second	OFFLINE		Jan Park	100
AOC65-VEW7		100	- 10	11, 45		20.00		part that was				
AOC65-VEW8			-									
AOC65-VEW9			-									
AOC65-VEW10			-								Types	
AOC65-VEW11	4, f 2.00s.	1000					5 M 10 10 10 10 10 10 10 10 10 10 10 10 10	The State of	OFFLINE	Carry Ass	7 1 6 6 W	
AOC65-VEW12												
B90-INTAKE-SS	·		-			<u> </u>				*		
				Manifold Rea	adinas	Exterio	r Wells		Wellhead	Т		
Monitoring	Total Depth	Screened	Vac	Flow	Temp °F	voc		al Sample Collected	Vac	1		
Point	ft. BTOC	Interval	(in. H ₂ O)	fpm	*F	ppm	Time	Summa Caniste	r# (in. H ₂ O)	}	Comments	
AOC65-VEW15	13	5-12	-									
AOC65-VEW16	41	15-40	•					<u> </u>	_			
AOC65-VEW18	56	15.5-55.5										101000
AOC65-VEW28A	120	80-120	-						-			
AOC65-VEW28B	179	139 3-179.3							-			
B90 INTAKE-EX	52.7	a with	-									
DOO EVIIALIET	¥ .	1.0					-	***************************************				
B90-EXHAUST			+									
AOC65-POSTGAC			+		Due Adhieter				Van-	Deliaf Value		
	System			Intake Pres	Pre Adjustme	1	Pressure	Final Intake		Relief Valve		
Blower Information			rer On					Pressure	Check	Lube	Hours Meter	2428
information	Subslab		/ N	-G8		(adjust to 65" H ₂ C		-cele	Ø/ N	(X) N	786. CH	100
	Exterior		/ N	- 60		(adjust to 50" H ₂ C		-50	Ø/N	T Q N	+2458:3	1 +00
Moisture	System	Insp	ected	Emp	tied	Amount Tran	sferred (gals)	Observations/No	otes:			
		^		1		dry						
Separator Information	Subslab	\bigcirc	/ N	V /	©	I OVECU		1				



Date/Time : 1.5	11 1	230	Operatoi		GWC 1	, A. Lind	Monitoring Even	L. DIWEEKIY	Monthly /) Quarterly / Othe	· · · · · · · · · · · · · · · · · · ·
_				Manif	old Readi	ngs		Wellhead		
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp "F	VOC ppm	Analytical Sample Collected Time Summa Canister #	Vac in. H ₂ O	Con	nments
							Shallow Wells			
AOC65-VEW19	26	5-25	371	904	687	9.5	WALLES CONTROL OF THE PROPERTY	.24.2	Xslugof water	
AOC65-VEW20	27	10-25	-36-8	772	69.9	76		-0.1)	
AOC65-VEW21	27	12-27	- 34.3	751	70.1	5.9		_34,3	AAAAA	
AOC65-VEW23	21	6-21	-37.1	759	70.3	48		34.3		
AOC65-VEW25	21	6-21	-36.\	817	69.9	11.4		-34.1		
AOC65-VEW/27	21	6-21	-35.9	3	49.6	8.4		32.4		
AOC65-INT/ KE-SW			-38.0	934	690	15.9	Deep Wells			
444				, , , , , ,	۵ سرسر	T, 7 T		T	A A A A A A A A A A A A A A A A A A A	
AOC65-VE'/V13	41	15-40	-33: K	10135	35,9	6.9		-1.4		
AOC65-VEW14	61	40-60	-33.6			5.2		-11.7	1111	
AOC65-VEW17	52.5	22-52	-33.3	1226		6.2		- 14,7		
AOC65-VEW22	51	25-56	- 32.2	. /	58.0			-28.1		
AOC65-VEW24	50	25-50	-32.2	1645	62.2	14.8		-0.2	**************************************	*** ADDRESSAFFE VA
AOC65-VEW26	50	25-50	-32.3	1364	1849	5.6		- 26.8		
AOC65-INTAKE-DW			-38.4	6996	652	6.6				
AOC65-EXHAUS1			+3.1	5330		5.6				
	System			Initial	Pre Adji Intake	ustment Adjus	ted Final Intake	Vac	uum Relief Valve	
Blower	~y~16	Blowe		Pres	sure	Press	ure Pressure	Chec		Hours Meter
Information	Shallow	الآ		47		(adjust to 75° H ₂ O	Y(N) 42			NA
·····	Двер	Υ (Ń)	48	3	(adjust to 75" H ₂ O		(A)	1 Ø N	NA NA
Moisture	System	Inspe		Emţ	otied	Amount (gal		tes:		
Separator Information	Shallow	<u> </u>	N		N		1/2 sallon			
	Deep	(Y)	N	(4)) N	30	1			

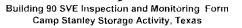


					Wellhead I	Readings					
Monitoring	Total Depth	Screened	Vac	Flow	Temp °F	voc	Analytic Time	al Sample Collected			
Point	ft. BTOC	Interval	in.H ₂ O	fpm		ppm Substat	<u> </u>	Summa Caniste	er#	Comi	ments
AOC65-VEW1											
AOC65-VEW2			-					VALUE			
OC65-VEW3	e valta.	7.4		100	10.00	2.57672	- 10 (a)	18 8	OFFLINE A	ra _s ara.	
OC65-VEW4			7.00		and the second			i dia	OFFLINE 3		and the second
OC65-VEW5					7777			A STATE OF	OFFLINE		
OC65-VEW6	3.4			Table 18	11 The 12		100				
DC65-VEW7			12.44	100	7.46 % - 11.48	3 () A			OFFLINE		
OC65-VEW8	ļ'		-								
OC65-VEW9			-								LUCUSTANIA LA CONTRACTOR DE LA CONTRACTO
OC65-VEW10		on a state of the second of the		A 19-20-20 11-20-20	Landing of the contraction	A CONTRACTOR OF THE PARTY OF TH	Same the factor of the order of their	recome dialementario esta d'un		Contracting the Contracting	and the second s
OC65-VEW11		17,200	in y the Paris	to the se			er e		OFFLINE ;	And the second	
OC65-VEW12						ļ.,					
00-INTAKE-SS			-38.5	9112	71.4	4,0	100.00				
				Manifold Re	adings	Exterio	r weiis		Wellhead	debr dellegge	
onitoring	Total Depth	Screened	Vac	Flow	Temp °F	voc	Analytic Time	al Sample Collected	Vac		_
oint	ft. BTOC	Interval	(in. H ₂ O)	fpm		ppm	ime	Summa Caniste	er# (in, H ₂ O)		Comments
DC65-VEW15	13	5-12	. 39.8	667	68.8	4.0			-011		
DC65-VEW16	41	15-40	. 39.6	3764	68.7	5.0			3.1		
DC65-VEW18	56	15 5-55.5	39.8	668	57.9	3.1			0.2	Marian Control of the	
			39.3	1371		4.7			39.1		
DC65-VEW28A	120	80-120			68.5	ļ					
DC65-VEW28B	179	139 3-179.3	-12.3	708	68.5	2.6			. 5.8		
00-INTAKE-EX	2 m / 1	<u> </u>	41.6	3611	69.60	5.3			30 - 15 April 1995		
O EVILLET	94,30	(AU)	+38.5	9119	71.4	1.5			8513	fpn, 132:	7°C .+10.8
00-EXHAUST				TIPE	20.11	 				m, 132.	16,1010
OC65-POSTGAC	7.7 M. 1. M.		+10.6	5132	Pre Adjustme	1.8			Vacuum Re	Gof Makes	
	System			Intake Pres	Pre Adjustme sure Gauge		Pressure	Final Intake			
Blower Information			ver On			(adjust to 65" H ₂ C		Pressure	Check	Lube	2769.7
momadon	Subslab		/ N	48				65	Ø/ N Ø/ N	(D) N	
	Exterior	$ \overset{\circ}{}$	/ N	55	hua saasaa	(adjust to 50" H ₂ C)(Y)(N	4550	· ·	₽ / N	1129.4
Moisture	System	Insp	ected	Emp	ptied	Amount Tran	sferred (gals)	ations/No	otes:		
Separator	Subslab	(3)	/ N	(3)	/ N	Ø					
Information	Exterior	×			yn Yn	1 -		l			



Date/Time : - 17	-1(100	<u> </u>	Operator	<u>: H. Ci</u>	rolly	<i>t</i>	-	Monitoring Event	Biweekly /	Monthly	/ / 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	cal Sample Collected Summa Canister #	Vac in. H₂O		Ce	omments
							Shallo	w Wells				
AOC65-VEW19	26	5-25							_		***************************************	
				:								
AOC65-VEW20	27	10-25				<u> </u>			-			
40000 NEW 101		40.07										
AOC65-VEW21	27	12-27	-			 	-	<u> </u>	ļ			
ACCES VEWOS	21	6.21										
AOC65-VEW23		0.21	-			 			 			
AOC65-VEW25	21	6-21	_	•			i					
TOOUTY LAAFO		0-21										
AOC65-VEW/27	21	6-21		:			i i		_			
	18 - 1 4	North Sign					İ		and the second			***************************************
AOC65-INT/ KE-SW	A. Section	4 4	-			•					4	
							Deep	Wells				
AOC65-VE':V13	41	15-40	-									
AOC65-VEW14	61	40-60										
AOCOJ-VEVV14	01	40-00	-						Ī			Marry
AOC65 VEW17	52.5	22-52	-						-			
AOC65-VEW22	51	25-56	-						-			
A CO C E 1 0 - 1 A FO 4		25.50										
AOC65-VEW24	50	25-50				 	ļ		<u> </u>			
AOC65-VEW26	50	25-50	_						-			
	200	en Visio									ATTACA AT	
AOC65-INTAKE-DW			-									
ACOCCE EXHAUST			.						0.00			
AOC65-EXHAUST	-07: 10 :00:00:00	PARTY METER	T		Pre Adi	ustment	<u> </u>	<u> </u>	Va	cuum Re	lief Valve	
	System			Initial	Intake		sted	Final Intake	1	- Caurir IV		
Blower		Blowe		Pres	sure	Pres	sure	Pressure	Che	ck	Lube	Hours Meter
Information	Shallow	(D)	N	42		(adjust to 75°11)	,o) Y / N	39	1 10/	N	Y /(10)	NA NA S an both good
	Deep	Y /(D	52		(adjust to 75° H;	OBN N	57	1 8	N	Y / 🔃 .	NA _
44-7-	System	······				Amount	Xfered	Observations/Not	es:		LOVRY	s on both good
Moisture Separator		Inspe			tied	<u> </u>	als)					•
Information	Shallow	Ø /	N		®	1	A	Employ - won't com				
	Deep	03/	N	0	N	34		L won't com	- oh in	Auto	, lesto mone	d off kicked knock

Auto,



			~		Wellhead I) Readings				7		
Monitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Analytic	al Sample Collected		1		
Point	ft. BTOC	Interval	in.H 2 O	fpm	°F'	ppm	Time	Summa Canist	er#	Com	nents	
	-	T			<u> </u>	Substat	Wells					
AOC65-VEW1	ļ		-									
AOC65-VEW2		na raelko ka		***	100 T (\$40 to 100 to	CAN LEGISLA AND A	Programme Company		1000000		(AND THE STATE OF	E-94-0-1759
AOC65-VEW3 🕌	Liberal .	1000 C	2845				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	95.76	OFFLINE			1.0
AOC65-VEW4, ST	1000	2 A 10 A 10	\$\$ =4.48°.44°	3.	400			#4.1.4.	OFFCINES			
AOC65 VEWS:			The state of			(1) April 1	74		OFFLINE			
AOC65-VEW6								444	Said OFFLINE		$\mathcal{F}_{i,j} = \mathcal{F}_{i,j} \mathcal{F}_{i,j}$	
AOC65-VEW7	Mr. W.		335		100		5- T 9-T		OFFLINE	and the second		
AOC65-VEW8												
AOC65-VEW9			-									
AOC65-VEW10												
AOC65-VEW11/***	1. Mari							****	OFFLINE			are in
AOC65-VEW12												
B90-INTAKE-SS	•		-			•						
				1436-1-15		Exterio	r Wells		[\4/-10/	7		
Monitoring	Total Depth	Screened	Vac	Manifold Re-		voc	Analydic	al Sample Collected	Wellhead Vac	-		
Point	н. втос	Interval	(in. H ₂ O)	fpm	Temp °F	ppm	Time	Summa Canist			Comments	
AOC65-VEW15	13	5-12										
							<u> </u>					
AOC65-VEW16	41	15-40										
AOC65-VEW18	56	15.5-55.5	-									
AQC65-VEW28A	120	80-120										
AQC03-VEVV20A	120	80-120										
AOC65 VEW28B	179	139.3-179.3	-									
B90-INTAKE-EX			_									
DOO EVILATION	199-	April 1974		***************************************						•		-
B90-EXHAUST			*									
AOC65-POSTGAC	44-90-7-2		+									
	System				Pre Adjustme	1		Final Intake	Vacuum F	Relief Valve		
Blower		Blow	ver On		sure Gauge	l	Pressure	Pressure	Check	Lube	Hours Meter	_
Information	Subslab	P	V N	54		(adjust to 65" H ₂ C	O) (O) / N	64	$Q_{/N}$	Y / 🚳	3052.4	
	Exterior	Q	/ N	54		(adjust to 50" H _z C	N (C)	50	Ø N	Y /60	1412.2	
`	System	Insn	ected	Em	atied	Amount Tran		Observations/N		VRVs 300	X	J
Moisture		·					(gais)			J		
Separator Information	Subslab		/ N	Ø		5						
	Exterior	(a)	/ N	\bigcirc	/ NI	32						

Date/Time : 3 · 8 · 1	1/090	00	Operator	SE.	+ JB		_	Monitoring Event:	Biweekly	Monthly Quarterl	y / Other	
				Manif	old Readi	ngs			Wellhead	l		
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		Comments	
							Shallo	w Wells				
AOC65-VEW19	26	5-25	-34,3	3009	53.2	3.5	1000		_ 32.2			
AOC65-VEW20	27	10-25	- 34.5	701	47.4	3.0	1005		- 3,0			
AOC65-VEW21	27	12-27	37.6	418	48.9	1.1	1007		32.9			
AOC65-VEW23	21	6-21	-36.3	474	48.3	1.6	1009		34.9			
AOC65-VEW25	21_	6-21		371	49.0	11.6	1012		35.7			
AOC65-VEW27	21	6-21	36.3	617	49.9	9.7	1015	/	. 30,0			
AOC65-INTAKE-SW			. 39	1487	55.9	7.3	0954	Wells	REA	L		
								Vens	V -	T		
AOC65-VEW13	41	15-40	-34.6	7713	0.84	4.5	1024	/	- 1.5			
OC65-VEW14	61	40-60	33.7	605	50.7	4,4	1028		- 10.8			
AOC65-VEW17	52.5	22-52	33.7	3503	50,5	7.4	1001		- 14.7			
AOC65-VEW22	51	25-56	- 34.3	915	52.3	4.4	1034		- 28.4			
AOC65-VEW24	50_	25-50	- 33.7	1748	52.5	6.8	1034		2.1			
AOC65-VEW26	50	25-50	- 33.1	753	53.5	5.9	1038		-26.6			
OC65-INTAKE-DW			-39,0	5140	53.0	5,2	1021	/				
AOC65-EXHAUST		WAR.	+ 2.3	5210	-	5.4						
	System			Initial	Pre Adju		sted	Final Intake	Va	cuum Relief Valve		
Blower	- System	Blowe	r On_	Pres	1		sure	Pressure	Che			Meter
Information	Shallow	(V)		40		(adjust to 75" H	20) Y (N)	Чc	(8)			
	Deep	Υ /	N)	5	0	(adjust to 75" H		20	(9)	N (A) V	NA NA	
Moisture	System	Inspe		Emp		(ga	Xfered	Observations/Note	s:			
Separator Information	Shallow	(y)		(Ý)		10		l.				
n.H ₂ O: inches of water	Deep	fpm: feet per r		(3)	N ppm: parts p	35		VRV: vacuum		psi: pounds pe		

					Wellhead	Readings					
Monitoring	Total Depth	Screened	Vac	Flow	Temp	VOC		ical Sample Collected		_	
Point	ft. BTOC	Interval	in.H ₂ O	fpm	°F	ppm Subsla	Time b Wells	Summa Canis	ter#	Comme	nts
AOC65-VEW1	I					Cubsia	I I				
AOC65-VEW2									Andrew In		
AOC65-VEW3							No. of the local division in the local divis		OFFLINE		PER PERSONAL
AOC65-VEW4									OFFLINE		
AOC65-VEW5							1		OFFLINE		
OC65-VEW6									OFFLINE	TO MENTE	
AOC65-VEW7				A PER PER					OFFLINE		
AOC65-VEW8			-								7
AOC65-VEW9			-								
AOC65-VEW10							la seco	1			
AOC65-VEW11									OFFLINE		
AOC65-VEW12			•								
890-INTAKE-SS			- 35.6	6608	57.1	2.5	1143				
				44		Exterio	r Wells		Mallisand		
fonitoring	Total Depth	Screened	Vac	Manifold Rea	adings Temp	Voc	Analyt	ical Sample Collected	Wellhead Vac		
Point	ft. BTOC	Interval	(in. H 2 0)	fpm	°F	ppm	Time	Summa Canis		Co	omments
OC65-VEW15	13	5-12	- 35.6	525	54.1	3.4	1132		1-0.2		
AOC65-VEW16	41	15-40	- 35.2	1851	52.3	4.2	1130		- 2.60		
AOC65-VEW18	56	15.5-55.5	35.6	647	37.1	3.3	1129	7	. 0.1		
AOC65-VEW28A	120	80-120	- 34.1	2418	60.4	3.5	1124		- 33.7		
OC65-VEW28B	179	139.3-179.3	- 34.1	610	55.2	6.3	1126		- 8.3		
	179	139.5-179.5	- 39.1	2149	57.1	4.3	1135	 / 	013		
390-INTAKE-EX			+ 12.2	10 739	117.3	3.5	1134	 /			
390-EXHAUST AOC65-POSTGAC		To the	+ 17-1	6774	77.1	0.4	1140	/	-		
0003-F031GAC			1 7.1	0111	Pre Adjustm				Vacuum Rel	ef Valve	
Diamer	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	f Pressure	Final Intake Pressure	Check	Lube	Hours Meter
Blower Information	Subslab	(P)				(adjust to 65" H ₂	0)(Y)N	64	QIN	(X) N X	3580.6
	Exterior		/(N)			 	~	44	(Y/N	(Y) N	14470
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Moisture Separator	Subslab		7,5	als)	* MUST	always lul	e this vo	ilve, or will			
Information —	Exterior	<u>&</u>		74	/ N	1 3,3		Stuck			

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Point	ft. BTOC	Interval	in.H 2 O	<u>fpm</u>) ° F	ppm Substa	Time b Wells	Summa Canis	ter#	Con	nments	
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AOC65-VEW2			_		·			///			999111	
40C65-VEW3									OFFLINE			
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AOC65-VEW9	***************************************	i	-					,		i · v macrament		
40C65-VEW10							-					
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	Nettra - Grant 7 - Grantentinanani-webb			The second secon		Exterio	r Wells		o die saktivitää keistä esi onisistatava siili sootatoi on onaattiri vahikka tuotaataat osa suussi. Maatti on onisistä suussa suussa suussa sii onisistä onisistiin suussa talaataataa talaataataa.	reference service securities entre et autorities et autorities et autorities et autorities autorities et autoritie	Minister de melio de primeiro e perportante de medicio una los eleferar provis por compresentante de menero los pad Primeiros la filosoficia de depresentante de manero de mesponente menor de mesponente de mesponente de mesponen	
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40C00-VEVV10	4-1	15-40				***************************************						
AOC65-VEW18	56	15.5-55.5	-						14			
AOC65-VEW28A	120	80-120	-									
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AOC65-VEW20	. 27	.10-25	-						-			
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AOC65-VEW21	27	12-27					-		ļ-		•	
AOC65-VEW23	21	6-21	1000						and the same of th			
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AOC65-INTAKE-SW			-	eri erre suddictiva begandliker miller	NAME OF THE PROPERTY OF THE PR	at many management was written		On control of the Con	1900	de Antonia do modo si consistente els produmentacions e una escri e monomenta su de destri	ectivisms are extensive to the control of the contr	
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	1 1	10 10										
AOC65-VEW14	61	40-60	-				-					
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AOC65-VEW17	52.5	22-52	-					and the state of t	-			
AOC65-VEW22	51	25-56							-			
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AOC65-VEW24	50	25-50	_						-		NOTICE TO SERVICE THE PROPERTY AND ASSESSMENT ASSESSMEN	
0005 151100	F.0	05.50							ary a manager			
AOC65-VEW26	50	25-50							-			
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	System			Initial	Pre Adj Intake	ustment Adju	stad	Final Intake	Vacı	um Relief Valve		
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700	mer et di alli vener is an all'illebel i kan eminensi seminangalan nagala maja manamanya aya ven genda panan testin qual cira ve _{ner} an				34178	1336	0.1	61.7	1753	- 1.4			NOC65-VEW1 •
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		Although a	OFFLINE	ag in war a gan	Law Pilitin		195	100		-15-15-15-15-15-15-15-15-15-15-15-15-15-		1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	OC65-VEW3
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WAS TO SHARE					(2.2.X	1309	2.1	69.7	588	- 10.9			OC65-VEW8
				21/ -	9330	1317	8.7	70.1	1623	- 11.3			OC65-VEW9 1
				. 34/3	76434	1323	1.5	68.8	3904	10.5			OC65-VEW10
			OFFLINE		2/11/1	1345	5.2	69.4	339	· 4,2			OC65-VEW11 ***
		•			34/14	1552	· Q	86.3	4153	- 34.1		,	890-INTAKE-SS
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- 104	Comments		Vac (in. H ₂ O)		cal Sample Collect	Analyt Time	VOC ppm	Temp °F	Flow fpm	Vac (in. H₂O)	Interval	ft. BTOC	Point
0.10	erencement in a material de la company de	andrelle: With all feelings of reduction and electrical pulphical pulphic control of the expenses,		4	3/79	140%	0	87.0	686	- 36.9	5-12	13	OC65-VEW15
8-10 Pal	2('BTOC), purged 8 purged 15-20 gal.	WC = TIS	0.1	'A	0.11		T	-					
1, 401	purgod 15-20 gal.	= 29.98	- 2.6	1	945	1612	0	79.5	2901	33.4	15-40	41	OC65-VEW16
and a second			-0.5	1	X	1605	0	85.4	663	- 36.5	15.5-55.5	56	OC65-VEW18 •
- Control			- 36.4		+	1604	0	81.3	4532	34.1	80-120	120	OC65-VEW28A X
POLICE DE LA COLONIA DE LA COL			0.1		9350	1544	O	91.7	1471	- 30.3	139.3-179 3	179	.OC65-VEW28B
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A PREMISER OF				a An Albania wa ebo	X	1420	0	125.2	12,508	÷Ó			OC65-POSTGAC
	R MINISTER (CARPER) (Carpet Minister (CARPER) (CARPER) (CARPER) (CARPER) (CARPER) (CARPER) (CARPET) (C	elief Valve	Vacuum Re	Tonas con constitution and	Final Intake		ent	Pre Adjustme				System	
The bis income	Hours Meter	Lube	heck	C	Pressure	d Pressure	Adjuste	sure Gauge	Intake Pres	er On	Blow	System	Blower
OF CINCENSTALL	4099,0	(3/N) / N	(3)	65	O) (Y) N	(adjust to 65" H ₂		96	/ N	(Y)	Subslab	Information
a conflict poor	1560.9	(A) N) / N		48	O) Y/N	(adjust to 50" H ₂	F	0	(N)		Exterior	hatterer
TO THE PERSON NAMED IN COLUMN	33211	**************************************	electropetics (1964), these entitles and its Lindon	Notes:	Observations	nsferred (gals)	A TOTAL CONTRACTOR OF THE STATE	itled	Emp	ected	Insp	System	
e money end					Article Comments	· · · · · · · (3 · · · · ·)						Substab	Moisture Separator
Politicas							0	N	<u> </u>	/ N	<u> </u>	Exterior Exterior	Information

Date/Time : 3/1			operator	7-110-40	1/-			momenty Event.	willy . I	ionany / addardeny / Ca	Bi-Annual Say
	and distribution of the state o	Name and the contract of the c		Manif	old Readi				Wellhead		Eind abhlioch debhallan Makken geiste dem Eili Mellengen deb von onstanzen von von von dem Eili Mellengen deb von der de dem Eili Mellengen deb von deb von deb von deb von deb von der deb von deb von de deb von deb vo
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. H , O	Co	mments
	- Commence of the Commence of		2	de successive manage	Action and a second	Lanca and a second		w Wells	2	keyt kulus kalanda kekin keli (1888-1880 erin, kelembakki kelemberak kelembakki erindak kelembakki kelembakki Kunga Palanda kelembakki keli (1888-1880 erin, kelembakki kelembaka kelembakki kelembakki kelembakki kelembak	FEEEER N. C.
AOC65-VEW19 *	26	5-25	34.4	725	67.0	4.9	1435	37366	-30.1		
AOC65-VEW20	27	10-25	34.1	777	73.2	3.9	1439	X	0.1		
AOC65-VEW21	27	12-27	36.	748	73.3	0.7	1441	X	30.3	nodow proprio process spiri magazingga spirago populari populari populari spirago spirago spirago spirago populari	
AOC65-VEW23	21	6-21	-35,1	763	73.3	6.9	1443	X	_ 35.1		-
AOC65-VEW25	21	6-21	34.8	743	73.5	10.8	1446	37332	34.8		
AOC65-VEW27	21	6-21	35.6	822		5.9	1452	11827	23.8	agrade e construir e const	
AOC65-INTS KE-SW			35.6	921	75.5	· 5.2	1427 Deep	35547 Wells		#	THE ARROSS HE STORY STREET IN THE RESTORY AND THE STREET WAS ARROSS AS A CHARLEST THE RESTORY AN
AOC65-VE'W13 *	41	15-40	- 33.3	2133	60.0	1.4	1505	36442	[.4		
AOC65-VEW14 •	61	40-60	32,9	641	lele.1	0	15/0	35657	3.1		
AOC65-VEW17	52.5	22-52	- 33.1	1716	68.8	0	1513	X	15.2		
AOC65-VEW22	51	25-56	- 33.3	1343	70.6	0_	1516	X	29.1		
AOC65-VEW24	50	25-50	32.8	689	72.6	D	1520	34585	0.2		
AOC65-VEW26 •	50	25-50	-32.9	900	61.1	0.	1526	3010	- 24.2		
AOC65-INTAKE-DW			-38,6	7555	71.4	1.7	1459	33712		ned et live en in en en la litte de la litte et la	17. Mar I - men Curi Managaman kangga kangga mahanda "Managa kangga da kangga da kangga kangga kangga kangga k
AOC65-EXHAUST			,2.0	8400	130.8		1529			urbendrelle belande lande van de Marie voor de	
Blower	System	Blowe	er On		Pre Adju Intake sure	Adju	sted	Final Intake Pressure	Vacu Check	um Relief Valve	Hours Meter
Information	Shallow	\bigcirc	Ν	38	う	(adjust to 75° H	,ο, Υ / N	40	Ø/N	1 O/N	NA
Propriosidades sustificialmente su, unudo ciscossico combinacione su productiva considerativo considerativo con	Deep		Ν	48	3	(adjust to 75" H	PARKET CHARTER DUTCH CONTRACTOR DANS CONTRACTOR	50	Ø/N	Ø/ N	NA
Moisture Separator	System	Inspe		Emp	itied	(9)	Xfered	Observations/Note	The second secon	The state of the s	common tempor manage common com to 1 of DE (Black America) (a) (b) (b) (c) (a) (b) (c) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Information	Shallow	Q'				0.	<u> </u>				
Making kilah Cilin Maraka, akar salah Ali Marana an anaka kinamanji kanaka, ana ana asara asara a	Deep	(V)	N		N	13			tomaka 17.00 o o o o o o o o o o o o o o o o o o		AND THE PROPERTY OF THE PROPER

Date/	Time : 4.%	!(Monit	oring Event	Operat (circle one):	or:_5.Ellio Biweekly K	+} + /- Monthly /	Lindley Quarterly / Other_		Ambient T (°	F)
		_			ead Reading						
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂	Analytic Time	cal Sample Collected Summa Canister #	-	Comments	s
I OIII	12			L PP.	1	The second secon	slab Wells				
AOC65-VEW1	-										
AOC65-VEW2	_										
AOC65-VEW3	_18000000000000000000000000000000000000					31.000.00000000000000000000000000000000		The State of	OFFLINE		
AOC65-VEW4	-							and the Male and American States	OFFLINE		
AOC65-VEW5	-	100							OFFLINE		
AOC65-VEW6	-	and de		T. Participant	and the second second		And the second s		OFFLINE		
AOC65-VEW7	-		100000000000000000000000000000000000000					and garden and the same	OFFLINE	4.00	
AOC65-VEW8	_										
AOC65-VEW9	-										
AOC65-VEW10	-										
AOC65-VEW11	-		and a control of		1940				OFFLINE		
AOC65-VEW12	-										
B90-INTAKE-SS	_										Manual Company of the
	r			Manif	old Reading		erior Wells		Wellhead		
Monitoring	Vac	Flow	Temp	voc	02	CO ₂		cal 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	_		NOTE OF THE PARTY						-		
AOC65-VEW18	_								_		
AOC65-VEW28A	_								-		
AOC65-VEW28B	_								-		
B90-INTAKE-EX	_										
B90-EXHAUST	+						<u> </u>				
AOC65-POSTGAC	_										
A0003-1 0310A0				Pre Adju	ıstment	<u>.</u>		Vacuum	Relief Valve		
Blower	System	Blov	ver On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab		/N			(adjust to 65" H	2O) Y/N	Y/N	Ø/N	4479.9	
	Exterior		(N)	AMBINE		(adjust to 50" H	₂ O) Y/N	Y / N	(Y)/ N	1579,1	
Moisture	System	I		F	ation	Amount		Observations/Note	s:		-
Separator	Subslab		ected / N	Emp	otied / N	(ga		V Alda 90 2	il. off	for drilling	
Information	Exterior		/ N / N	8		C		7 00000		- J	
			, 14			L		I			

Date/Time :	4.8.11	/ ₁₀₀₀	onitoring	Event (cii	Operato	or: 5 : Elle Biweekly	off +	A. Lindly Dy / Quarterly / G	Other	Aml	bient T (°F)	_		
•					fold Read				Wellhead					
Monitoring	Vac	Flow	Temp °F	VOC	O ₂ vol%	CO ₂	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		Comments			
Point	in.H ₂ O	fpm		ppm	VOI 76	Shallow	<u> </u>	Jumma Camster #	111.1120	<u></u>	Comments			
					T ,		1			V. ar	0 4 1			
AOC65-VEW19	- 33.\$	748	81.6	3.1		 - /	1016		- 31,6	XM		<u>;</u>		
AOC65-VEW20	- 33,7	686	82.2	0			1019		- 0.2	Cor	rectly, put on	***************************************		
AOC65-VEW21	- 34.5	662	81.1	6			1021		- 29.6	Cal	rectly put on gus and reads	100		
AOC65-VEW23	- 33.5	620	82.2	0			1022		- 32.6					
AOC65-VEW25	- 34.2	717	82.2	10.2			1028		- 32.9					
AOC65-VEW27	- 33.4	713	90.5	5,2		And the contract of	1030		- 22.7					
AOC65-INTAKE-SW														
Deep Wells														
AOC65-VEW13	- 30.7	2755	76.9	2.4	/	/	1034		- 1.3	packe	in test being ru	n		
AOC65-VEW14	- 31.1	517	80.0	1.7			1036		- 8.5	on ,	mwsb-LBR at to	ifare		
AOC65-VEW17	- 31.1	2069	79.1	2.6			1039		- 15.1	of ve	MW36-LGR at to			
AOC65-VEW22	- 30.2	1550	78.7	2.1			1040		- 27.6		V			
AOC65-VEW24	- 30,7	620	80.0	0.8			1042		- 0.1					
AOC65-VEW26	- 36.8	1523	79.3	3.0			1044		- 23.9					
AOC65-INTAKE-DW	- 35,2	7661	77.1	2.6	/		/033	/		intake flo	ow meter (SCFM)=			
AOC65-EXHAUST	+ 2.5	8900	136.5	3.7	1	7	1047				`			
					ustment			Vacuum	Relief Valve)				
Blower	System	Blow	er On	l .	Pressure		usted	can't Check	Luk		Hours Meter			
Information	Shallow		/ N		<u>5</u>	(adjust to 75" H	20) Y (N 🗸	(Y / N	(Y)/		NA NA			
	Deep	(Y)	/ N	4	5	(adjust to 75" H		(Y) / N	(Y)	N] NA			
Moisture	System	Insp	ected	Ęmi	ptied	1	Xfered als)	Observations/No	tes:					
Separator Information	Shallow	(2)			/ N	0								
miumauun	Deep	(Y)	/ N	(Y)	/ N ppm: parts	. 6.	5		um relief valve		psi: pounds per square inch	<u> Danis de la compansión d</u>		

in.H2O: inches of water

fpm: feet per minute

ppm: parts per million

Date/Time	4.21.11	/1050 M	onitorina	Event (cir	Operato	r: 5 E	Month	ly / Quarterly / C	Other	Amb	ient T (°F)
		199	omcomg		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
	7		4400		1	Shallow	Wells				
AOC65-VEW19	-								-		
AOC65-VEW20									_		
AOC65-VEW21	-		-2001						-		No. of the Control of
AOC65-VEW23	_								-		
AOC65-VEW25	-	- Long Cold Deveron				·			_		
AOC65-VEW27	_								-		
AOC65-INTAKE-SW	_									intake flo	w meter (SCFM)=
						Deep W	eiis		1		
AOC65-VEW13	-					ļ			-		
AOC65-VEW14	-										
AOC65-VEW17	-										- WALLESS CO.
AOC65-VEW22	-								_		
AOC65-VEW24	_								_		
AOC65-VEW26	_								-		
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)=
AOC65-EXHAUST	+										
				Pre Adj	ustment			Vacuum	Relief Valve)	
Blower	System	Blow	er On	1	Pressure	1 -	sted	Check	Lub	е	Hours Meter
Information	Shallow		/ N	3		(adjust to 75" H ₂	,O) Y (N	(Y/N	(<u>Y</u>)/		NA
	Deep	W.	/ N	Ч	}	(adjust to 75" H ₂		Ŷ/N	(Y)/	N	NA
Moisture	System	Inspe	ected	Ęm	otied	1	Aterea (als.)	Observations/Not			
Separator Information	Shallow	<u>V</u>			/ N	L	<u> </u>	*55ten Shut	down at	1100 for	Noblis Sampling Monda
	Deep	(Y)	/ N	(Y)	/ N	<u> </u>					

in.H2O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/	Time : 412	1.11/1050) Monis		(circle one){		n ++ Monthly /	Quarterly / Other_		Ambient T (°	F)
		T =.	T -		ead Reading	,	T	-1 01- 0-114-4			
Monitoring Point	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	O ₂ vol %	CO ₂	Time	al Sample Collected Summa Canister#	-	Comments	s
rom	111.1120	1 1911		<u> </u>	10170		slab Wells				
AOC65-VEW1	_										
AOC65-VEW2	_									d.	
AOC65-VEW3	_							Plant Company	OFFLINE		
AOC65-VEW4	- A - A - A - A - A - A - A - A - A - A								OFFLINE	enter the control of the	
AOC65-VEW5	<u>.</u>						100000		OFFLINE		
AOC65-VEW6	_					1000000	1000	and the second	OFFLINE	(New York)	
AOC65-VEW7	_								OFFLINE		
AOC65-VEW8	_										
AOC65-VEW9	_							-			
AOC65-VEW10	-										
AOC65-VEW11	guerri et le		Sanga e neres en				10000000		OFFLINE	ALL SECTION	
AOC65-VEW12	-										
B90-INTAKE-SS	-										
					edd Deedies		erior Wells		Wellhead		
Monitoring	Vac	Flow	Temp	VOC	old Reading: 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)	Com	ments
AOC65-VEW15	_								-		
AOC65-VEW16	_								_		
AOC65-VEW18	-										
AOC65-VEW28A	-	<u> </u>				 			-		
AOC65-VEW28B	-									4444	,
B90-INTAKE-EX	-						and the second second				
B90-EXHAUST	+	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
AOC65-POSTGAC	+	7.									
7.000010070				Pre Adju	ıstment	THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO	A mon management on 24 mar	Vacuum	Relief Valve		
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab		/ N	42		(adjust to 65" H	20) Y/N	- (D) N	Ø/ N	4650.2	
SAME AND	Exterior		(Ñ)	40	ATT	(adjust to 50" H	20) Y (N) A	N (Y)		1590,0	
Maich	System			_	- 4! - J	Amount	Xfered	Observations/Note	s:		· An lat
Moisture Separator	Subslab	100	ected / N	Em	otied	(ga		546 Low 61	lut down for	Poblis sa	nyling or Monday
Information	Exterior		/ N / N		/ N / N	8		- (/(\" /"	1.00		€
in.H ₂ O: inches of water	Laterior	fpm: feet per mi	BINEWANISH CANDON CONTRACTOR CONTRACTOR		ppm: parts per i	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		VRV: vacuum	relief valve	psi: pounds per square	inch

Date	Time : 5 .4	11/1200			Operate	or: 5.Elki	++			Ambient T (°	F)
_ 400			Monit		(circle one):	Biweekly /	Monthly /	Quarterly / Other_			·
88 ita viva		Flour	Temp	Wellh VOC	ead Reading	CO ₂	Analyti	cal Sample Collected			
Monitoring Point	Vac in.H ₂ O	Flow fpm	°F	ppm	O ₂	vol %	Time	Summa Canister #		Comments	5
						Sub	slab Wells				
AOC65-VEW1	-										
AOC65-VEW2	-										
AOC65-VEW3									OFFLINE		
AOC65-VEW4	≟ 10 € 10 € 10 €								OFFLINE		
AOC65-VEW5	_						100000	alia Company	OFFLINE		
AOC65-VEW6	-				10.75		0.00		OFFLINE		
AOC65-VEW7	-								OFFLINE		46.60.400.00
AOC65-VEW8									,		
AOC65-VEW9	-										
AOC65-VEW10	-										
AOC65-VEW11	- 1990								OFFLINE		
AOC65-VEW12	-						ļ				
B90-INTAKE-SS	-		-				1 146-16-				
				Mani	fold Reading:		erior Wells		Wellhead		
Monitoring	Vac	Flow	Temp °F	VOC	0 2	CO ₂		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									<u>_</u>		
B90-INTAKE-EX	-						***************************************				
B90-EXHAUST	+							*			
AOC65-POSTGAC	+								<u> </u>		
	System	-		T	ustment	l		Vacuum F	Relief Valve		
Blower		Blov	ver On	Intake Pres	ssure Gauge	Adjusted		Check	Lube	Hours Meter	
Information	Subslab		/ N			(adjust to 65" H		Y / N	Y/N		
	Exterior	Y	/ N	***************************************		(adjust to 50" H		Y / N	Y/N		
Moisture	System	Insp	ected	Em	ptied	Amount (ga		Observations/Notes			
Separator	Subslab	 	/ N	 	/ N			X system	off f	or drolling	
Information	Exterior	1	/ N	Y	/ N		***************************************		* *	- \$	

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/Time	: 5.4.11	/1100			Operato	or: S.E.	11.vt+			Aml	oient T (°F)		
		M	onitoring		rcle one): fold Read		/ Month	ly / Quarterly / C	Other Wellhead				
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	Herman	
FOIIL	1,,,,,,			ppiii	1 00,70	Shallow	Wells		<u> </u>				
AOC65-VEW19	_								-				
AOC65-VEW20	-	No.							_				
AOC65-VEW21	-	***************************************							-		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		
AOC65-VEW23	-		- Anna						-				
AOC65-VEW25	-							-	_				
AOC65-VEW27	_								-				
AOC65-INTAKE-SW	-									intake flo	w meter (SCFM)=		
Deep Wells													
AOC65-VEW13	-								_				
AOC65-VEW14	_								_				
AOC65-VEW17	_								-				
AOC65-VEW22									-				
AOC65-VEW24	_								-				
AOC65-VEW26									_				
AOC65-INTAKE-DW	 	***************************************								intake flo	w meter (SCFM)=		
AOC65-EXHAUST	+												
				Pre Adj	ustment		dammining and a second	Vacuum	Relief Valve)			
Blower	System	Blow	er On	l	Pressure		isted	Check	Lub		Hours Meter		
Information	Shallow		/ N			(adjust to 75" H	₂ O) Y / N	Y/N	Y /		NA		
	Deep	Y	/ N			(adjust to 75" H		Y/N	Y /	N	NA		
Moisture Separator = Information =	System		ected		otied	1	Afered als)	Observations/Not	ies: oll fr	dal	ling		
	Shallow		/ N		/ N			7 7731611	11 10	<i>U I</i>	J		
	Deep	Y	/ N	<u>Y</u>	/ N								

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/Time : 5 · 18	11/091	45	Operator	Ell	is th			Monitoring Ever	Biweekly	Month	ly / Quarterly /	Other
	granerationarico, si announavello aminum	contractions of the second contraction of th	eri Marke (disensi di menungan Kalabasa da da	Manii	old Read	ngs	Ohouseandellhickssigheis F.Verseblisti	· · · · · · · · · · · · · · · · · · ·	Wellhea	d		
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp	VOC ppm	Time	cal Sample Collected Summa Canister#	Vac in. H ₂ O	the contract of the contract o		Comments
				processing a series of the ser	p. 100	7	Shallo	w Wells				
AOC65-VEW19	26	5-25	*						_			
AOC65-VEW20	27	10-25	_						-		adaya ari dada 1989 M. Sala ari ara di sala da da da ari aya da da ari aya da ara ari ari ari ari ari ari ari a	
AOC65-VEW21	27	12-27								ar entre de la compansa de la compa		
AOC65-VEW23	21	6-21		- Control of the Cont	man and a second a					the committee of the control of the	and the second s	
AOC65-VEW25	21	6-21							-			
AOC65-VEW27	21	6-21				The state of the s	-		-			
AOC65-INT%KE-SW		Commission of Management	-re LL convernos injulies de silita, nomen any	Storansky - occurrientikum co osobanjanja		annual constitution and when	Deen	Wells	eno, selectronos aprinsos de cencesar escritor.	transfer law on a law or the planester that a superior superior	Serry Contraction (Contraction (Contraction)	amajari kan isti dadar salapat tikudaki ilmadik inkuda inkuda i tolopa adalaba dada aran isti dada biran idahai I
POPURATE PROGRAMMENT PROGRAMMENT CONTROL TO A STATE OF THE POPURATE PROGRAMMENT AND A STATE OF THE POPURATE PROGRAMMENT PROGRA	general and a second second second		Parent of Parent State of the Control of the Contro	l .		1		27010			Angel Transport Charles - Market Andrews (Angel Angel	
40C65-VEVV13	41	15-40	-	- Control of the Cont					-			
40C65-VEW14	61	40-60	-									
AOC65-VEW17	52.5	22-52			The state of the s						eranda karantarian kan salah s	
AOC65-VEW22	51	25-56	mu					Makada da 1970 da 1971 da 1981	-		ere men er	
AOC65-VEW24	50	25-50				THE PERSON AND THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDR			-			
AOC65-VEW26	50	25-50	_							765		
AOC65-INTAKE-DW					na noodalah isosoo na Salakian nisosain a	an the control of the Control of State (State (State (Control of Control of C	and and the latest an	geni valonna krez na kalifojila uzefelojika na kana na "Appri valokozolikaji krezista kateroska			el effennn græði fill skræðinin skræðin skræðin er fill skræðin í rekksjock hill skræðin skræðin skræðin skræð	мдомм - этом вет маней достиго поменя м могам вірай та 10,00° часька на веторати падам, та сеть на поменя пада
AOC65-EXHAUST			······································		mengalisaninan rangalis receiver	in an annual region and the second and an annual region and an annual region and an annual region and an annual		CONTROL PROPERTY CO-COMPANIES AND		Martin Martin Control of Marti	Bok al de legit kistolyssinend i alleksempon kuluk sajakka "vezi yeyn sistemu u u u u u	
	System			Initial	Pre Adji Intake	ıstment Adjı	sted	Final Intake		/acuum R	elief Valve	name of the second
Blower		Blowe		i	sure	Pres	sure	Pressure		eck	Lube	Hours Meter
Information	Shallow	Y /(/.	(adjust to 75" H		31		/ N	QIN	NA
o interfacional determination (como con constitución con constitución con constitución con constitución con co	Deep	Y (N)			(adjust to 75" H	0) Y /WX	45		/ N	(A/N	NA
Moisture Separator	System	Inspe	automotive and remarks to the contraction of		otied	(98	als)	Resoure V	ulvos ar	e closs	ed, conit as	ljust prossure
Information	Shallow	<u></u>		8	The second secon	The second secon	٥٠	8			1	v
n.H ₂ O: inches of water	Deep	fpm: feet per r	Secretarion and the second secretarion and the second second	Annual Company of the	/ N ppm: parts p	ALLEGO MARIE CONTRACTOR OF THE PARTY OF THE	2	engangangangan pangangangangangangangan 	ım relief valve	PONICO AND COMPANY OF THE PORT	psi: pounds per squar	nicidaturasi kanada konada ninguyana ananyaliyyana nicionay iliya gana sunana dilikino yanyanganyanayona anangan Construction of the Construction

		nardým placiny fyligino přílý do o mistorio ambite 272 de 17 de 18	ritor y to 7 th Third Dayson (Ca ri ll Charles And Lands	More III II The pMAN III III CATEGORIA I SANTONIO MA	n-sunovanos varionis de la companione de			POOL THE WAS THE SECTION ASSESSMENT OF THE S	increased transfer province and an interest and a second			
Monitoring	Total Depth	Screened	Vac	Flow	Wellhead I	Readings VOC	Anatori	cal Sample Collected	The second secon	e-sulates emercinas de acesta de calendar de como de c	PROPERTY with transfer in the control and th	njeritikanibilinjeli desililile
Point	ft. BTOC	Interval	in.H 2 O	fpm	Temp °F	ppm	Time	Summa Canis	THE CONTRACT OF THE PARTY OF TH	Comr	nents	
entrikan kalan kalan kilan keperapan katalah kalan terlebih birak birak terlebih beranda sebah terlebih birak Pangan terlebih birak penggunyak penggunyak penggunya penggunyah pangan kepenggunyak panggunyak penggunyak pen		la en acceptatorio de la companio del la companio de la companio de la companio de la companio				Substat	b Wells				n ni katika jalki. Angala (Palakina), angiyan ya falaki isilaman katika ini katika atau katika ini ja jan, yai Majirilamahnya nye yana hanno umagaman pamahni umaki isilah ini katika ya umagama sa naka kat	
AOC65-VEW1			-							÷.		
AOC65-VEW2					The state of the s							000 PHILOMETRIC TO.
AOC65-VEW3		46					40.4	100	OFFLINE			
AOC65-VEW4						10 mm		4.0	OFFLINE	100		
AOC65-VEW5									OFFLINE			
AOC65-VEW6			200						OFFLINE	A STATE OF THE STA		
AOC65-VEW7			4						OFFLINE			
AOC65-VEVV8												
AOC65-VEW9			-								,	
AOC65-VEW10						Mary 27 (Salate Daylor) (Salate Daylor)		A CHIEF C A COLUMN SECURE				
AOC65-VEW11					and the second				OFFLINE	a new Array		
AOC65-VEW12												
B90-INTAKE-SS	de Company de la		···		en y administrativa de la cincia perso, los que personal es Personal acusada de						etti viikkittää oli valituusittiinuujinykytymissi viitiituuksi Volvoosiainuunpooleitiimtähtiityyykykyttiitii	ESSESSED AND AND AND AND AND AND AND AND AND AN
	silmanum nyrolin / silmananapophismismismismi	egikan diskliriyya iyoladir oond madhaaqingi firaliya kiloonda	nd makayanjish asis ad infallifikasiya masa carbayan kiyayan esangibikin	Manifold Rea	idinas	<u>Exterio</u>	rvvells	romonos describirans no describirans no commence debuncario communicación.	Weilhead I	ored / 15d метарыяльного формация (предоставления подательного предоставления подательного предоставления подательного под	rest tit til medle til til fra sjerregnings om en ståde men ståde en en stop sellen gitte en åre medlete.	Bloody John - April Addition of
Monitoring	Total Depth	Screened	Vac	Flow	Temp °F	voc		cal Sample Collected	Vac			
Point	ft. BTQC	Interval	(in. H ₂ 0)	fpm	o fi	ppm 	Time	Summa Canisi	ler# (in. H ₂ O)		Comments	CONTRACTOR OF ORGANIZATION
AOC65-VEW15 -	13	5-12	-						_			
AOC65-VEW16	41	15-40	TO.						-			
40C65-VEW18	56	15.5-55.5										
AOC65-VEW28A	120	80-120	-						-			
AOC65-VEW28B	179	139.3-179.3	_						Ma Ma			
B90-INTAKE-EX				Product CNR Strate (new years Million to the country of the countr	tiss to the state of the state	Tiplishelanining-popujujusininin tidas (1996-1996)				olidari asundo noster por llos seros en altre si un l'american morgonimas, republicable		documentar and form
B90-EXHAUST			+							The second of the second secon		
AOC65-POSTGAC			+			-						
ACTIONNAL CONTRACTOR C	Proposition demonstration of the contract of the	nes standare de la companya de la co		to the second	Pre Adjustme	nt		Final Intake	Vacuum Reli	ef Valve		minute
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Pressure	Check	Lube	Hours Meter	and consistent
Information	Subslab	and the second s	(A)			(adjust to 65" H ₂ C) (Y)/ N	65	(D) N	. Ø/ N	48722	
	Exterior	Y	300	-		(adjust to 50" H ₂ C	N Y AN	40	AV N	M) N	4872.2	Topic Control
pinnindhaharu nyani qifan sanusaqoni lana unuqiya fahiha saqoqla diqermatu ilisabinsur i		anisminė filmigiskėji papimos nais suma pyrolykinimė yrismėkinė.		P	tiod	1		₩ Observations/N	otes:			
Moisture	System		ected ————	Emp			sferred (gals)	V pressure	value shut,	no adjustme	nt can be i	m uds
Separator Information	Subslab	\bigcirc	/ N	0/	N	Ô		an-statements		. ,		
THE SECTION STATES	Exterior) N	6	N	6		Particular de la constante de				

Date/	Time : 7 - 5	5-/1					Ambient T (°F) <u>h</u> ŏ†			
			Monit		(circle one): ead Reading:		Monthly/	Quarterly / Other	1	
Monitoring	Vac	Flow	Temp	VOC	O ₂	CO ₂	Analyti	cal Sample Collected	Annual Control of Cont	·
Point	in.H ₂ O	fpm	°F	ppm	vol %	vol %	Time	Summa Canister #		Comments
						<u>Sub</u>	slab Wells	<u> </u>	7	
AOC65-VEW1	-									
AOC65-VEW2	-									
AOC65-VEW3		42			Sec. 2	L. M. Water		Selection of the select	OFFLINE	
AOC65-VEW4					E 25		The state of	The second secon	OFFLINE	
AOC65-VEW5	-				A STATE OF THE STATE OF		Suite No.		OFFLINE	
AOC65-VEW6				10.00			1 Supplement		OFFLINE	
AOC65-VEW7	100 150 PM 100 PM -					200	100		OFFLINE	
AOC65-VEW8	-									
AOC65-VEW9	-									
AOC65-VEW10	-									
AOC65-VEW11	-			A Comment	100 miles				OFFLINE	
AOC65-VEW12	-									
B90-INTAKE-SS	-									
				84 - w i 6	ald Doodings	3502/8000000 Astronomic - 7 (000) S	erior Wells		Wellhead	
Monitoring	Vac	Flow	Temp	VOC	old Readings	CO ₂	Analyti	cal Sample Collected	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										
					- I in the				4,000,000,000	
B90-EXHAUST	+						 			
AOC65-POSTGAC	+			Pre Adju	lotmont.			Vacuum F	Relief Valve	
	System				sure Gauge	Adjusted	Proceuro			
Blower		1	er On	illiane Fies				Check	Lub	
Information	Subslab		/ N			(adjust to 65" H		(Y)/ N (Y)/ N	(X)	N # 5325.1 N 1854.8
	Exterior	Y	/ N			(adjust to 50" H	Zfered			
Moisture	System	System Inspected		Emp	otied	(ga		System off	for SIW	'install upside down and added minual oil to soak
Separator Information	Subslab		/ N	Y	/ N			1/2 101/11	tarrel	in its days and alled mineral oil to sout
,,,,o,,,,auo,,	Exterior	Y	/ N	Υ	/ N		***************************************	IX VKU STUCK	-) INV VEV	About one water the a 10 year

Date/Time	: 7.5.1	1/132c	onitoring	Event (cii	Operato	r: <u>E/læ</u> Biweekly	+ Month	ly Quarterly / C	Other	Amb	ient T (°F) <u>ho</u> ł
					fold Read				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				
AOC65-VEW19	- 24.9	1244	9 2 .3	9.2	·	/	1334		- 21,5		
AOC65-VEW20	- 24.6	449	93.5	4.9					- 0		
AOC65-VEW21	- 24.5	497	93.7	5.7		/			- 24.3		
AOC65-VEW23	- 24.4	1431	93.0	4.7			1342		- 23.1	g. wyg	
AOC65-VEW25	- 24.2	546	93.3	6.6		·			- 24.3		
AOC65-VEW27	- 24.4	567	93.5	7.6					- 24.1		
AOC65-INTAKE-SW	- 1838	1820	88.5	6,7	/		1329	<u> </u>		intake flo	w meter (SCFM)=
	1				1	Deep W	reiis				
40C65-VEW13	- 27.9	4175	91.7	4,5				/		* cun he	ar cup leaking
AOC65-VEW14	- 27.7	650	94.8	2.5			1357		- 18,7		
AOC65-VEW17	-27.2	2680	93.5	1.9					- 15.1		
4OC65-VEW22	- 17.2	2114	94.8	0					- 26.1	W	
40C65-VEW24	-27.2	495	95,5	0					- 001		
AOC65-VEW26	- 26.8	1864	95.7	0		-	1406		- 24.3		
AOC65-INTAKE-DW	- 32.0	8550	90.6	4.8	/		1351			intake flo	w meter (SCFM)=
AOC65-EXHAUST	+ 3,0	14500	152.9	2.4	1						
				Pre Adj	ustment		4	Vacuum	Relief Valve		
Blower	System	Blow	er On		Pressure		isted	Check	Lub		Hours Meter
Information	Shallow	(X)		27		(adjust to 75" H	₂ O) Y /())	(X/N	(Y)/		NA
	Deep	(Y)	/ N	<u>43</u>	WASANIA DALAM SANIA MANAGAMANA MANAGAMANA MANAGAMANA MANAGAMANA MANAGAMANA MANAGAMANA MANAGAMANA MANAGAMANA MA	(adjust to 75" H		Ø/N	(Y)/	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	NA
Moisture	System	Inspe	ected	Emi	otied	Amount (ga	Xfered ajs)	Observations/Not	es: of syst	en off	for SIW install
Separator	Shallow	(Ý)			/ N	8					
Information	Deep	(Y)	/ N	(Y)	/ N	Q Y					

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

Date/Time	: 7.22.1	11/1000			Operato	or: 5 E	Lig H			Amb	ient T (°F)	
		M	onitoring	Event (ci	rcle one):	Biweekly	✓ Month	nly / Quarterly / C	Other		A CONTRACTOR OF THE PROPERTY O	
					fold Read			.10	Wellhead Vac			Mesumonius proposition
Monitoring Point	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	O ₂	CO ₂	Time	al Sample Collected Summa Canister #	in. H ₂ O		Comments	
I VIIIC	2	i piii		John.		Shallow	Wells					
AOC65-VEW19	-								_			
AOC65-VEW20	_		- 14 PORTO						_			
AOC65-VEW21	-								-			
AOC65-VEW23	-								_			
AOC65-VEW25	_				- Allentin				_			***************************************
AOC65-VEW27	-								-			
AOC65-INTAKE-SW	_									intake flo	w meter (SCFM)=	- Karangan Managan and
						<i>Deep</i> И	/ells					
AOC65-VEW13	-								-			
AOC65-VEW14	-								_		West 2	
AOC65-VEW17	-								_			
AOC65-VEW22	_								-			
AOC65-VEW24	-											
AOC65-VEW26	-								_			
AOC65-INTAKE-DW	-									intake flo	w meter (SCFM)=	
AOC65-EXHAUST	+											
				Pre Adj	ustment			Vacuum	Relief Valve)		
Blower	System	Blow	er On		Pressure	Dros	isted	Check	Lut		Hours Meter	
Information	Shallow	l Ø		au		(adjust to 75" H		Q/N	<u> </u>		NA NA	
	Deep	(Y)	/ N	42		(adjust to 75" H	Xfered	(Y) / N Observations/No	(Y)/	IN	NA	J
Moisture Separator	System		ected		ptied	1	als)	Doei valions/No				
Separator Information	Shallow		/ N		/ N	1	<u> </u>	_				
.H ₂ O: inches of water	Deep	fpm: feet pe	nama militar da Maranca a manana ayan m	<u>(Y)</u>	/ N ppm: parts	nor million	7	\/P\/: voou	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

Date/	Time : 7.23	1.11/1000			Operate	Occupants / Other		Ambient T (°	F)		
B00000		f	Monit	oring Event Wellh	(circle one)¿ ead Reading:	BIWEEKIY Y	wontniy /	Quarterly / Other_	1		
Monitoring	Vac	Flow	Temp	VOC	0 2	CO ₂		cal Sample Collected		_	
Point	in.H ₂ O	fpm	°F	ррт	vol %	vol %	Time	Summa Canister #	A STATE OF THE STA	Comments	
		<u> </u>				Sub	slab Wells				
AOC65-VEW1	-										
AOC65-VEW2	-										
AOC65-VEW3	2		and the second						OFFLINE		
AOC65-VEW4	-	9 (8)							OFFLINE		A CONTRACTOR OF THE CONTRACTOR
AOC65-VEW5	-								OFFLINE		
AOC65-VEW6	-	200							OFFLINE		
AOC65-VEW7	<u>.</u>								OFFLINE		
AOC65-VEW8	-						ļ				
AOC65-VEW9									1		
AOC65-VEW10	-										
AOC65-VEW11		100000		100				200	OFFLINE		A STATE OF THE STA
AOC65-VEW12	-										
B90-INTAKE-SS	-									CONCRETE DESCRIPTION OF THE PROPERTY OF THE PR	
				Manif	old Readings		erior Wells		Wellhead		
Monitoring	Vac	Flow	Temp	voc	O ₂	CO ₂		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	_								_		
B90-INTAKE-EX	-										
B90-EXHAUST	+										
AOC65-POSTGAC	+										
A0003-1 0010/10	WANTE DE LE CONTROLLE DE LE CO	The second contract of	deporter de la companya de la compa	Pre Adju	ustment			Vacuum	Relief Valve		
Blower	System	Blow	er On	Intake Pres	sure Gauge	Adjusted	Pressure	Check	Lube	Hours Meter	
Information	Subslab	Y	1(N) 1/4			(adjust to 65" H	₂ O) Y/N	Y/N	(A)/N	5325.1	
Keconstruction	Exterior		/(N) *			(adjust to 50" H		Y/N	(Y) N	1854.8	
Moisture	System	lnsp	ected	Emi	otied	Amount (ga		Observations/Note: * System Terroved Sub	off for 5Th	1 install	
Separator	Subslab		/ N		/ N	1		1 1	71 (0	ط ا ا ا ا ا	
Information	Exterior		/ N		/ N			cernoved sub	sury VKV, 5	JUCK SWI	

in.H₂O: inches of water

fpm: feet per minute

ppm: parts per million

VRV: vacuum relief valve

Date/Time : 10 1 / 3 - 1	1 0400		Operator	s:	}	Bouch			Monitoring Event:	Biweekly (Monthly	Quarterly / O	ther
					Manifold	Reading	ıs		<u> </u>	Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytic Time	al Sample Collected Summa Canister#	Vac in. H₂O		Co	omments
							Shai	llow Well:	3				
AOC65-VEW19	26	5-25	_ 14.1	656	80.9	3.3	9.68			- 12.3		\$.	
4OC65-VEW20	27	10-25	- 13.9	196	80.4	0	13.42			- 1994	0.1		
4OC65-VEW21	27	12-27	- 13.9	181	80.5	0	12.6			- 14.3		and the second s	
AOC65-VEW23	21	6-21	- 14.0	733	80.2	0,3	14.95			- 13.4		A STATE OF THE STA	
AOC65-VEW25	21	6-21	- 14.3	172	80.5	0,4	18,43			_ 138			
AOC65-VEW27	21	6-21	- 14.0	170	40.5	2.6	10.12		· <u>*</u>	_ 13.6			
AOC65-INTAKE-SW			- MS	1760	<i>હ</i> ર.3	1.2	De	ep Wells		Care Care States			
	-,	1				~~~	T	Cp Wene					
AOC65-VEW13	41	15-40		2737			35.67			- 1:1		. Levillando such de l'	
AOC65-VEW14	61	40-60	_ 23.1	466	28.9	0	57.5			_ 23.1			
AOC65-VEW17	52.5	22-52	- 22.7				50.65	-		- 12.8	-11-17		
AOC65-VEW22	(51)	25-66	-225	914	76.9	0	44.12			- 21.4			
AOC65-VEW24	50	25-50	224	438	79.5	0	50.0			- 0.1			
AOC65-VEW26	. 50	25-50	- 22,3	1086	79.3	0	47,78	Q		_ 20.3			
AOC65-INTAKE-DW			- 26.4	6318	76.6	0.1		en e					
AOC65-EXHAUST			+		en szerven nyenkéssen meg							port	
	System Initial Intake						tment		Final Intake	Va	cuum Re	elief Valve	
Blower	System	Blowe		Pres	sure	L	djusted Pressu	ıre	Pressure	Che		Lube	Hours Meter
Information	Shallow	(Y)		15		(adjust to 75" H			15 X		N	(X / N	NA
	Deep	(9)	N	4	0	(adjust to 75" H	1₂o/(Y) / N		40 /	<u> </u>	N	W/N	NA
Moisture	System	Inspe			otied	Amo	ount Xfered (gals)	Observations/Note # /elief 1 (an hear	plues si	nut , a	ant increas	se pressures
Separator Information	Shallow	(<u>)</u>					<u> </u>		(an hear	leuks	ever	ywaere	
	Deep	(Ý)/	N	(Y)	/ N		<u> </u>						

Date/Time : 10 . 13	3.11 /04	00		Operators:	Elliott t	Bouch		М	onitoring Event: I	Biweekky / Monthly	Quarterly / Othe	r	
					И	/ellhead Read							
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac in.H , O	Flow fpm	Temp °F	VOC ppm	Water Level ft. BTOC	Analyt <i>Tim</i> e	ical Sample Collected Summa Canist		Comme	ents	
- OIII	1. Dicc	mervar	20			I PP	Subslab Well	<u>s</u>					
AOC65-VEW1 AOC65-VEW2	10 10	2.5 - 10.5 2.5 - 10	-										
AOC65-VEW3	9.8	2.5 - 9.8	William Company			eng land and the				OFFLINE		ones of the state of	
AOC65-VEW4 AOC65-VEW5	6.7 9.1	2.5 - 6.6 2.5 - 9	• Salah	Comments of the Comments of th	STATE OF STATE					OFFLINE OFFLINE			
AOC65-VEW6 AOC65-VEW7	5 5.25	2.5 - 5 2.5 - 5	-3 10 0 0	Series Control	E. C. Sandon		25			OFFLINE OFFLINE		Secretary Secretary Communication	
AOC65-VEW8	9.7	2.5 - 9.7	-							01.1=0.1=			
AOC65-VEW9 AOC65-VEW10	9.75 5.4	2.5 - 9.75 2.5 - 5.1											
AOC65-VEW11	9.33 9.7	2.5 - 9.3 2.5 - 9.4		100000000000000000000000000000000000000	550000	150 Med 160 Med 150 Me				OFFLINE		COLUMN TO SERVICE ST. 1875	
AOC65-VEW12	9.7	2.5 - 9.4	- 34.2	>15,000	87.4	1.2							
B90-INTAKE-SS	CANADA CANADA		- 21.0		01.7	110	Exterior Well	<u>s</u>	I				
					ifold Reading		14/2422/		in I Samula Orlina	Wellhead Vac			
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac (in. H ₂ O)	Flow fpm	Temp °F	VOC ppm	Water Level ft. BTOC	Analyt Time	ical Sample Collected Summa Canist		C	Comments	
AOC65-VEW15	13	5-12	- 8,6	92	72.4	3.1	6.45			_ 9.0			
AOC65-VEW16	41	15-40	- 8.7	821	74,2	1.4	29,97			- 0.8			
AOC65-VEW18	56	15.5-55.5	- 9.1	103	72.4	0.4	50,86			- 0.1	value on mans	fold broke of	f, open W
AOC65-VEW28A	120	80-120	8.9	949	73,9	1.1	113,81			- 8.9			
AOC65-VEW28B	179	139.3-179.3	- 8,5	115	73.3	0	153,28			- 1.2		- WARREN	
AOC65-VEW29	40	5-39.5	- 8.1	445	73.5	0	32.86			- 10.8		7	
AOC65-VEW30	25	5-24.5	- 8.1	170	73.9	11.2	24.25			- 7.8	- '		on these
AOC65-VEW31	40	5-39.5	- 8.0	2181	77.5	2.1	30.04			- 5.5			on these
AOC65-VEW32	25	5-24.5	- 8,2	174	74.6	0,2	*			- 7.8	* can't get	lid off	need to
AOC65-VEW33	25	5-24.5	- 8.1	282	74.2	1.2	24.28			- 7.5		<u> </u>	poper
B90-INTAKE-EX			- 12.4	>15000	74.2	1.9							
B90-EXHAUST			+ 20.7	715000	144.1	1.3				. 112	A A	- ^	
AOC65-POSTGAC			+								and fuc w/ pe	ort piece	
	System			1		Adjustment I			Final Intake	Vacuum F	Relief Valve	-	THE PERSONNEL PROPERTY OF THE PERSONNEL PROP
Blower	System	Blo	wer On		sure Gauge		djusted Pressu	re	Pressure	Check	Lube	Hours Meter	_
Information	Subslab	<u> </u>)/ N	79		(adjust to 65" H ₂			69	(<u>y</u>)/ N	Q/N	6671.4	
William Control	Exterior	() / N	75		(adjust to 50" H ₂	0) () / N		25*	(Ŷ) / N	(V) N	2790.9	
Moisture	System	Ins	pected	Emp	otied	Amou	unt Transferred	(gals)	Observations/No * relief	Value won't	adjust, nee	eds maint	
Separator Information	parator _{Subslab}		<u>)</u> / N	()	/ N	Q			- on sub	slab side k	y filter, ca	n hear ar	i air lea
	Exterior	-{	/)/ N	(Ŷ)	N	٥				VRV: vacuum		psi: pounds per squ	

						Camp Sta	nley Storage Act	<u>tivity, Texas</u>				
ate/Time :_ 10-1	5.11/0	9930		Operators:	Ell.ot.			М	onitoring Event:	Biweekly / Mont	thly / Quarterly / Oth	ner
	- 3					Vellhead Read						
lonitoring oint	Total Depth ft. BTOC	Screened	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level	Analyt Time	Summa Cani		Comi	nents
ome	n. Broc	intervar	m.rr ₂ O	ipin		ррш	Subslab Wells		Gamma Gam	ALC: W	Com	
OC65-VEW1	10	2.5 - 10.5	-									
DC65-VEW2	10	2.5 - 10	-							OFFLIN		
OC65-VEW3 OC65-VEW4	9.8	2.5 - 9.8								OFFLIN		
OC65-VEW5	9.1	2.5 - 9				No. 1				OFFLIN		
DC65-VEW6	5	2.5 - 5	•		1					OFFLIN		
OC65-VEW7 OC65-VEW8	5.25 9.7	2.5 - 5 2.5 - 9.7	-							OFFLIN		
DC65-VEW9	9.75	2.5 - 9.75										
DC65-VEW10 DC65-VEW11	5.4	2.5 - 5.1	-							OFFLIN	-	
OC65-VEW12	9.33	2.5 - 9.3 2.5 - 9.4	-		. HW			AND RESIDENCE TO		OFFLIN	Signatura de Universidado personal.	
		15 20 27 3										
90-INTAKE-SS							Exterior Wells		3.3			
				Ma	nifold Readin	as	<u>Exterior vvens</u>			Wellhe	ad I	
onitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Water Level		ical Sample Collecte	d Vac		
oint	ft. BTOC	Interval	(in. H ₂ O)	fpm	°F	ppm	ft. BTOC	Time	Summa Cani	ster# (in. H ₂	0)	Comments
OC65-VEW15	13	5-12									* with	15/46 on o
OC65-VEW16	41	15-40									exterior	Off pross
OC65-VEW18	56	15.5-55.5									Still re	ding 52 0
											ov. Louina	cilo nel 1
OC65-VEW28A	120	80-120	-							 	CAN LAND	SIDE NEW TO
OC65-VEW28B	179	139.3-179.3	<u>- </u>								Culch	Check value
OC65-VEW29	40	5-39.5	-						,		5065166	5:48 (90)
OC65-VEW30	25	5-24.5										
OC65-VEW31	40	5-39.5										
OC65-VEW32	25	5-24.5										
OC65-VEW33	25	5-24.5	-		*					- 2017		
90-INTAKE-EX			-		<u> </u>							
90-EXHAUST			+									
OC65-POSTGAC			+		Bro	Adjustment				Vacuus	n Relief Valve	
Blower	System	Blo	wer On	Intake Pres	sure Gauge		djusted Pressure	9	Final Intake Pressure	Check	Lube	Hours Meter
Information	Subslab	G	/ N	. 64		(adjust to 65" H ₂ 0	O) Y / N			(8/ N	Y / (N)	
	Exterior	(Y)/ N	# 76		(adjust to 50" H ₂ 0	O) Y / N			(Y) / N	Y (N)	
Moisture Separator	System	Ins	pected	Emp	otied	Amount Transferred (qals)	Canister Filte		Observations/N	otes:	exterior a	side stuck inshilled a sa
Information	Subslab	Y	′ / N	(Y)	/ N	0	Y (1	9	7 110	.1	0 (10/21)	A. J. H. J. A. A.
	Exterior		/ / N		/ N	0	Y (1	_	40, 1er	noved gave	e (10/31) and	installed a sa
120: inches of water			fpm: feet per minu	ite O		ppm: parts per m			0.4 1	VRV: vacu	um relief valve	psi: pounds per square inc

post to use wy manometer until new gurge is

Date/Time : 10-25	1		Operator.	s	.01)				Montoring Event		wontniy	/ / Quarterly / C	other
					Manifo	ld Readings				Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytic Time	Summa Canister #	Vac in. H ₂ O		Co	omments
							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							Door	Wells					
						Τ	Беер	vveiis		T			4.1
AOC65-VEW13	41	15-40	-							-	X with	h blower	off pressure
AOC65-VEW14	61	40-60	-							-	stil	I reading of	I, check value
AOC65-VEW17	52.5	22-52								-	probe	ably bad	influence from
AOC65-VEW22	51	25-50	-							-	Shall	ow side	
AOC65-VEW24	50	25-50								-	10/31	-> replace	d deep side ck val
AOC65-VEW26	50	25-50	-							_			plumbing back to
AOC65-INTAKE-DW			-								orig	nul floor (onfig.; turned buck
AOC65-EXHAUST			+			Dro Adius 4	mant				ouum D-	lief Valve	
Blower	System	Blowe	r On	Initial		Pre Adjusti	justed Pressure	е	Final Intake Pressure	Che	sk	Lube	Hours Meter
Information	Shallow	(X)	N	1	8	(adjust to 75" H ₂ O)	Y/N			(V)16		Y /(N)	NA
	Deep	(Y)	N	4	0	(adjust to 75" H ₂ O)		1		Wi		Y /(N)	NA
Moisture	System	Inspe	cted	Emp		Amt Xfered	Canister Filter (last changed	8/2011)	Observations/Note	GAC to	move	to other 51	de, connected deep valve for shallow s
Separator Information	Shallow	Y /	N	(Ŷ)		0	YIN		side, need	to order	1 ne	w chart	valve for shallow
	Deep	Y /	N	(Y)	N	0	YIN		Jie / Mech	5. 1/1			deep

	-					Camp Star	nley Storage Ac	tivity, Texas				
Date/Time : 1	1-11	1450		Operators:	bouch	ellhead Read	() inas	Мо	onitoring Event:	Biweekly Monthly	Quarteriy / Oth	er
Monitoring	Total Depth	Screened	Vac	Flow		VOC	Water Level	Analyti	cal Sample Collected			
Point	ft. BTOC		n.H 2 O	fpm	Temp °F	ррт	ft. BTOC	Time	Summa Canist		Comm	ents
							Subslab Wells	5				
OC65-VEW1 OC65-VEW2	10	2.5 - 10.5 -										
OC65-VEW3	9.8	2.5 - 9.8 -	GORE THE							OFFLINE		
OC65-VEW4	6.7	2.5 - 6.6 -								OFFLINE	有种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种	
OC65-VEW5	9.1	2.5 - 9 -								OFFLINE		
AOC65-VEW7	5.25	2.5 - 5 -	THE R. LEWIS							OFFLINE		
AOC65-VEW8	9.7	2.5 - 9.7 -										
AOC65-VEW9 AOC65-VEW10	9.75 5.4	2.5 - 9.75 -	_									
AGC65-VEW11	9.33	2.5 - 9.3 -		Na Republic						OFFLINE		
AOC65-VEW12	9.7	2.5 - 9.4 -			11	6 5	>					
390-INTAKE-SS		- 5	30.8	11.131	67.4	5.5						
				7			Exterior Wells	3				
Annitovina	Total Double	Command	Man	Flow	nifold Reading Temp	VOC	Water Level	Analysis	cal Sample Collected	Wellhead Vac		
Monitoring Point	Total Depth ft. BTOC		Vac n. H ₂ O)	fpm	°F	ppm	ft. BTOC	Time	Summa Canist			Comments
AOC65-VEW15	13	5-12 - //	16	243	55.7	6.3	7.13			- 0 . [
AOC65-VEW16	41	15-40 -	1.2	234	54.4	6.1	30.0	4		- 0.3		
AOC65-VEW18	56	15.5-55.5 - /	2.7	251.	54.8	5.0	52.68			- 0.1		
AOC65-VEW28A	120	80-120 -	15	1604	64.9	61	113.8	-		-10.4		
AOC65-VEW28B	179	139.3-179.3	9.8	250	61.3	6.5	153.28			- 0.1		
AOC65-VEW29	40	5-39.5 -	1.2	236	58.0	6.1	31.24	-		- 4.9		
AOC65-VEW30	25	5-24.5 -	1.9	229	58.8	36.9	24.20			-4-1		·
AOC65-VEW31	40	5-39.5 - /0	0.B	1640	64.9	6.0	30.04			-5.0		
AOC65-VEW32	25	5-24.5 -	0.9	237	5B.4	8.2	15.30		conied ove	- 11.		
AOC65-VEW33	25	5-24.5 -	1. 1	224	59.5	5.8	(9.23))243-	MONNY	-10.4		
B90-INTAKE-EX		- 1	4.6	3720	65.2	6.8						
390-EXHAUST)	+	8.8	10523	96.2	5,0	$\langle \rangle$					
AOC65-POSTGAC	SER.	+ 2	21.1	715,000	134.4	Adjustment				Vacuum Re	lief Valve	
Blower	System	Blower	On	Intake Pres			djusted Pressu	re	Final Intake Pressure	Check	Lube	Hours Meter
Information	Subslab	Q N		76		(adjust to 65" H₂0	O) Y N		75.	(X) / N	(Y) N	7323.5
	Exterior	(Y) N		- No c	X	(adjust to 50" H ₂ 0				YIN	(Y) N	3232.1
Moisture Separator	System	Emptie	ed	Amount J Transferred (gals)		Iter Change	Observations/	imple 1		s added, use		v closed, no
Information	Subslab	(Y) N		= 1.0		N	adjus	e cum	19/11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,) VK	V CW XOI, 110
	Exterior	(Y) N		0. Fa	Y	N		1.644	17/11 (79	Luci Comment		

Date/Time : 0930	11.9.	4	Operators	s: 1.100		ELICE			Monitoring Event:		othly / Quarterly / Othe	r
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	d Readings VOC ppm	Water Level	Analytic Time	al Sample Collected Summa Canister #	Vac	Com	ments
							Shallow	Wells				
AOC65-VEW19	26	5-25	24.8	722	64.7	8.4	10.35			20.3		
AOC65-VEW20	27	10-25	24.9	51Z	61.6	4.3	13.7			25.3	3	
- OC65-VEW21	27	12-27	24.6	481	61.6	4.7	13.7			25.2		
AOC65-VEW23	21	6-21	24.6	734	63.1	4.7	14.85	-		24.7		
AOC65-VEW25	21	6-21	24.5	456	62.2	11.4	18.59			24.6		
AOC65-VEW27	21	6-21	249	457	62.5	9.3	9.23			0.1		1
AOC65-INTAKE-SW			25.5	1553	64.2	6.1	Deep	A/a//a				
			0.	2010	11.7		Deep	veiis		T. T		
AOC65-VEW13	41	15-40	29.8	2/18	66.1	5.8	36.1	-prob	ally (h)	1.3		1.1 (1.3)
AOC65-VEW14	61	40-60	285	545	62.4	5.4	(47.45)	771	LIKONO)	-29.0	57.37 on	11/11 (30)
AOC65-VEW17	52.5	22-52	27.7	1270	67.2	5.9	50.58			. 15.4		
AOC65-VEW22	51	25-50	27.9	859	65.B	5.7	49.26			26.4		
AOC65-VEW24	50	25-50	21.9	555	62.0	4.8	DRY			0.1		
AOC65-VEW26	50	25-50	-28.4	828	65.4	6.4	46.75			- 24.6		
AOC65-INTAKE-DW			32.7	5572	69.0	5.8						
AOC65-EXHAUST			+ 3.4	12508	1203	6.6						
	System			Initial		Pre Adjust:			Final Intake	Vacuun	n Relief Valve	
Blower		Blowe		Pres		Ad	justed Pressure		Pressure	Check	Lube	Hours Meter
Information	Shallow	Y/		30		(adjust to 75" H ₃ O)	1110	tostil	st 30	(Y)/ N	Y / N	NÁ
Weistern	Deep System	(4)					Observations/N	otes.	Trand out	Y)/ N	Y / N	NA NA
Moisture Separator	Shallow	Empt (Y)		Xfered		ged 8/2011)	100	٨	on dego s	Pressure 1	racuum gange	
Information	Deep	1		5.25	Y	/(N)			· deep	side	0	

AOC-65/BUILDING 90 SVE WATER LEVELS AND PURGE FORM

Personnel: 1. Donah F. Rice

Date:

	Total Depth (ft.)	Screened Interval	Well ID	Initial Water Level (ft. BTOC)	(began	Amount Purged (gallons)	Time (end of purging)	Final Water Level (ft. BTOC)	Time (final water level)	
	41	15-40	VEW-13	36.1				1 %-		
	61	40-60	VEW-14	47.45						
AOC-65 Deep	52.5	22-52	VEW-17	50.58						
Wells	51	25-50	VEW-22	49.26						&
	50	25-50	VEW-24	DRY						
	50	25-50	VEW-26	46.75	4					
	13	5-12	VEW-15	7.13		4				neter in menhale
Building	41	15-40	VEW-16	30. D						Water in manhol
90 Exterior	81	15.5-55.5	VEW-18	52.68						Water in marko
Wells	129	80-120	VEW-28A	113.8					= 9	
	179.3	139.3-179.3	VEW-28B	153.28				1		
	26	5-25	VEW-19	475	10.35	lle .				
	27	10-25	VEW-20	13.7						
AOC-65 Shallow	27	12-27	VEW-21	13.7						
Wells	21	6-21	VEW-23	14.85				4		
	21	6-21	VEW-25	18.59						
	21	6-21	VEW-27	9.23				7		

VEW-29 31.24 VEW 30 24.2 VEW 31 30.04 VEW 32 15.3 VEW 32 15.3

32' Waterin manhale cover

AOC-65/BUILDING 90 SVE WATER LEVELS AND PURGE FORM

Personnel: Elliott / E. Rice / Bouch

Date: 11/10/11

	Total Depth (ft.)	Screened Interval	Well ID	Initial Water Level (ft. BTOC)	Time (began purging)	Amount Purged (gallons)	Time (end of purging)	Final Water Level (ft. BTOC)	Time (final water level)	Comments/Problems
	41	15-40	VEW-13	36.11		2		37.63		
	61	40-60	VEW-14	(57.34)		triad v	whing (ame up		
AOC-65 Deep	52.5	22-52	VEW-17	50.58		/				
Wells	51	25-50	VEW-22	49.45						
	50	25-50	VEW-24	DR						
	50	25-50	VEW-26	46.78		4,5		49.85		
	13	5-12	VEW-15	7.09		6.5		11.55		2" water around wellhead, removed
	41	15-40	VEW-16	30.0		14.0		14.0-1	10.0	no water around wellhead
	56	15.5-55.5	VEW-18	52.74		2.0		54.3		7" water around hellhead
Building	120	80-120	VEW-29A	114.11						,,,,
90	179.3	139.3-179.3	VEW-28B	163.5						
Exterior Wells	40	5-39.5	VEW-29	31.29		8.0		38.04	N-i	no unter avail wellhead
Wells	25	5-24.5	VEW-30	24.18				,	- Alexander	no water around wellhead
	40	5-39.5	VEW-31	30.15		9		34.6	70	no water around wellhood
	25	5-24.5	VEW-32	10.30		16.5		22.4		1,5" water around well heard
	25	5-24.5	VEW-33	(24.22)						
	26	5-25	VEW-19	10,35		17		23.91		
	27	10-25	VEW-20	13.61		12.5		23.82		
AOC-65 Shallow	27	12-27	VEW-21	13.65		14.0		25.93		
Wells	21	6-21	VEW-23	14.82		7.0		20.08		
	21	6-21	VEW-25	19.10		2_		20.10		
	21	6-21	VEW-27	9.14		15	7	20.51		rubunt on south

11/11/11 PYI t water on the west side of Bidg 90 turned buck on @0820, fire hydrunt on south end of site flushed for 2 hours

							nley Storage A	CLIVILY, TEXAS				
Date/Time :	12:11	103	0	Operators:	Johanne	Vellhead Read	ings	M	onitoring Event:	Biweekly Monthly	/ Quarterly / Oth	ner
Monitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Water Level	Analyi	ical Sample Collected			
Point	ft. BTOC	Interval	in.H ₂ O	fpm	°F	ppm	ft. BTOC	Time	Summa Canist		Com	nents
ACCRE VIEWA	1 70	TO E 40 EI					Substab Well	<u>s</u>				
AOC65-VEW1 AOC65-VEW2	10	2.5 - 10.5 2.5 - 10										
WILLIAM MARKET		P35 001	2.25					4.50		A COMPANY	3.43	
Konstevenati Konstevenati		- 1504 (16)(- 2504 (17)(1		74			
AST ALL MANAGER		120 6								"""阿雷图别"。		
AOC65-VEW8	9.7	2.5 - 9.7	2 - 1	.] : :"	4.4.4	16 co		1.13	Bar A. T. Bartai	· 对"一种的人"	1000 10 10 10 100 100 100 100 100 100 1	
AOC65-VEW9 AOC65-VEW10	9.75	2.5 - 9.75	•									
TOTAL TALES	5.4	2.5 - 5.1			F107	Barrer State		13.27 *** ******** T-1. 3.46		No. 1 Marining		
AOC65-VEW12	9.7	2.5 - 9.4										
390-INTAKE-SS		laa lii araad		<u></u>								
				Man	ifold Readin		Exterior Well	<u> </u>		Wellhead		
Monitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Water Level	Analyt	Ical Sample Collected		1	
Point	ft. BTOC	interval	(ln. H 10)	fpm	°F`	ррт	ft. BTOC	Time	Summa Canist			Comments
AOC65-VEW15	13	5-12	-				9.32			_	water in	manhold
			_				30.73				100000	
AOC65-VEW16	41	15-40		 						- + -		
AOC65-VEW18	56	15.5-55.5					54.04					
AOC65-VEW28A	120	80-120					1114,101			-		<i>}</i>
AOC65-VEW28B	179	139.3-179.3					152.96					
AOC65-VEW29	40	5-39.5					35.62					
AOC65-VEW30	25	5-24.5					74. 20					
AOC65-VEW31	40	5-39.5	•				30.12			-		
AOC65-VEW32	25	5-24.5					17.73				halater in	manhole
							24.22					· · · · · · · · · · · · · · · · · · ·
AOC65-VEW33	25	5-24.5		 			61.66			-	water in	manhole
390-INTAKE-EX												
390-EXHAUST			+				><					
AOC65-POSTGAC			<u> </u>									
10000-1 0010/10					Pre	Adjustment				Vacuum F	lelief Valve	
P/	System	Blov	ver On	Intake Press	ure Gauge	A	djusted Pressu	re	Final Intake Pressure	Chack	Luba	House Motor
Blower Information	Subsleb		/ N_	70		(adjust to 65″ H₂(2) (Y) / N		46	Check (7) / N	Lube	Hours Meter
	_		Y N			1	•		40	FY N	Y /(N)	3533
	Exterior	(') " · _ 	32. 6		(adjust to 50" H ₂ 0	Observations/	Notae:			<u> </u>	76312
Moisture	System	Em	ptled	Transferred (gals)		ilter Change ged 8/2011)	IODSEI VALIOISSI	110.63.				
Separator Information	Subslab	(J	/ N	0	_	(N)	1					
	Exterior) N	ž 5		/(N)	1					t
.H ₂ O: inches of water			pm: feet per min		<u> </u>	/(N) ppen: parts per m	l			VRV: vacuum	rollef valvo	psi; pounds per square inch

Date/Time : 11.22	- - 	1006	Operator	s: <u> </u>		ld Readings			fonitoring Event:	Biweekly /	Monthly / 6	Quarterly /	Other		
Monitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Water Level		Sample Collected	Vac					┪
Point	ft BTOC	Interval	in.H₂O	fpm	°F _	ppm	ft. btoc	Time	Summa Canister #	in. H ₂ O			Comments		4
		 -					Shallo	w Wells		- \					╡
AOC65-VEW19	26	5-25	<u> </u>			,	1625	22.88)	-					_
AOC65-VEW20	27	10-25					23.02								
AOC65-VEW21	27	12-27			,		24.75			-					
AOC65-VEW23	21	6-21					19.26			-					
AOC65-VEW25	21	6-21	. <u> </u>				19.32		·	-					
AOC65-VEW27	21	6-21	- <u> </u>		_		15.43			-					
AOC65-INTAKE-SW					_		Caan	Wells							
		_ _				Τ		TTENS					_		╡
AOC65-VEW13	41	15-40					36.96			-	looks	ike	there	is growton	water leve
AOC65-VEW14	61	40-60					57.64								
AOC65-VEW17	52.5	22-52		_		_	50.67			-					4
AOC65-VEW22	<u>5</u> 1	25-50					49.59			<u> -</u>					
AOC65-VEW24	50	25-50				_	DRY			-					
AOC65-VEW26	50	25-50					44.25			-					
AOC65-INTAKE-DW			-				><								
AOC65-EXHAUST			+				$\geq \leq$								
	System			Initial	Intake	Pre Adjusti			Final Intake	Va	cuum Relief	Valve		·	
Blower	System	Blowe			rniake Sure	Ad	Justed Pressure)	Pressure	Chec		Lube		Hours Meter	
Information	Shallow	(A)	N	79		(adjust to 75° H ₂ O)	Y/N		29	(V)		Y /(N)		NA	
	Deep	4)	N	40		(adjust to 75" H ₂ O)	Y/N		40	(1)	N	Y /(N)		NA NA	
Moisture	System	Empt		Amt Xfered		liter Change iged 8/2011)	Observations/	Notes:							
Separator Information	Shallow	(Q)		_0_		/ N									
	Deep	(7)	N	= lo	Y	(N)									

Date/Time : \ (2/7/11	(H)		Operators:	A. Lindh	, J. M	eQui	м	onitoring Event:	Biweekly / Monthl	/ Quarterly / Oth	ner
			<u> </u>	operatore.	V	Vellhead Read					1	
Monitoring	Total Depth		Vac	Flow	Temp	voc	Water Level		ical Sample Collected			
Point	ft. BTOC	interval	In.H 2 O	fpm	°F	ррт	ft. BTOC Subsiab Wells	Time	Summa Canist	er#	Comr	nents
AOC65-VEW1	10	2.5 - 10.5	-				Substati Vens	2	T			
AOC65-VEW2	10	2.5 - 10				3 3450		- 2001/03/2004/AV - 27 H- 27 H	\$ 4 11 1	v. va 1 444 400 000 1 1 1 1 1 1 1 1 1 1 1 1 1	angaty, 100, soft	
AOC65-VEW8	9.7	2.5 - 9.7										***************************************
AOC65-VEW9 AOC65-VEW10	9.75 5.4	2.5 - 9.75 2.5 - 5.1						~				· · · · · · · · · · · · · · · · · · ·
VOCES VENAMA	0.7	25 04				700000						
AOC65-VEW12	9.7	2.5 - 9.4		11221	21A	11 3			 			***************************************
B90-INTAKE-SS			<u>- 30.2</u>	4234	48.7	4.3	Exterior Wells					
				Mai	ifold Reading	gs	EAUGIOI ITEIIS	<u></u>		Wellhead	T	
Monitoring	Total Depth		Vac	Flow	Temp	voc	Water Level		ical Sample Collected			_
Point	ft. BTOC	Interval	(in. H ₂ O)	fpm	°F	ppm	ft. BTOC	Time	Summa Canist	er# (In. H ₂ O)		Comments
AOC65-VEW15	13	5-12	- 17.3	226	43.5	7.5	6.71			- 0.4	6 gel.	removed
ACCRE VEINIAR	44	45.40	- 17.3	300	45.1	7.2	29.93			.0.6		
AOC65-VEW16	41	15-40		 		 					10.90	1. removed
AOC65-VEW18	56	15.5-55.5	- 17.5	464	46.7	5.8	47.11			-0.4	6 520	1. removed
AOC65-VEW28A	120	80-120	14.9	277	47.6	4.7	114.27			2.8	didn't m	ora L
			14.5	466	49.4	6.3				. 2.9		
AOC65-VEW28B	179	139.3-179.3					151,90				didn't ?	intde .
AOC65-VEW29	40	5-39.5	- 16.2	345	49.4	5.0	34.13			1.8	(0. gal	. removed
AOC65-VEW30	25	5-24.5	- 16.2	420	45,8	22.7	24.19			. 7.0	16.5	
AUC65-VEVV30	25	0-24.5		 			 		-			· · · · · · · · · · · · · · · · · · ·
AOC65-VEW31	40	5-39.5	16.3	2790	100.2		30.09			- 7.0		pled due to water in w
AOC65-VEW32	25	5-24.5	- 1k · 1	445	44.0	4.0	7.25			14.5	14 gal 10	emoued.
AOC65-VEW33	26	5-24.5	- 15.4	384	46.3	4.8	24.12			-16.3	10.	
40C65-VEVV33	25	5-24.5		3785		 					wan to p	war
B90-INTAKE-EX			. 20.3	3600	62.2	8.3						
B90-EXHAUST			+20.6	14613	135.3	7.4						
			+ 6.2	6764	86.6	5.8						
AOC65-POSTGAC			+ 0.2	10101		Adjustment			<u> </u>	Vacuum	Relief Valve	
	System			Andake Pres		T	djusted Pressur	ъ	Final Intake			
Blower			wer On	K M(D)					Pressure	Check	Lube	Hours Meter 799 0.4
Information	Subsieb	<u> </u>		10 70	~	(adjust to 65" H ₂ 0	5) Y / (N)		72	Ø/ N Ø/ N	Φ/ N	
	Exterior	Ŷ)/ N	1 15		(adjust to 50" H₂0	D) Y / 8D		17	Ø/ N	Ø/ N	3892.4
				Amount	Canintas El	iter Change	Observations/	Notes:				
Moisture	System	En	nptied	Transferred (gals)	Carrister Fi	iter Change						
Separator					(last chang	ged 8/2011)						
Information	Subslab	R)/ N	3	Y	®						
	Exterior		y N	17		/(N)	1					
n.H₂O: inches of water			fpm: feet per min		<u>-</u>	ppm: parts per m	illion			VRV: vacuum	relief valve	psi; pounds per square inch

						í . M.Qu					
						d Readings			Wellhead		
Monitoring	Total Depth ft BTOC	Screened Interval	Vac in.H,O	Flow fpm	Temp °F	VOC ppm	Water Level	Analytical Sample Collected Time Summa Canister #	- Vac in. H ₂ O	C	omments
Point	RBIOC	mervar	11.1120	Ipiii		ррш		w Wells	111.1120		mments
			-					W Wens			
AOC65-VEW19	26	5-25	-28 .	440	50.1	5.4	9.01		20.1	2 gal remai	უს-იბ
10000-121110							0)				
AOC65-VEW20	27	10-25	.27.7	438	55.5	3.1	22.81		1.6	2 gai remoi	76 ¢
					: :		-0.11				_
AOC65-VEW21	27	12-27	. 26 .8	621	57.0	4.3	23.66		.21.0	did not purge	2 gal renewed
					1 1		ال م			• • •	1
AOC65-VEW23	21	6-21	.27.5	12 24	576.b	3.8	18.64		27.3	did not purge	
					i 1		17.68		100 0	4 10	oure A
AOC65-VEW25	21	6-21	-'46.5	601	20.1	7.	11.00		26.4	1 941 1011	
			24.7	597	55.9	5.4	7.81		.26.6	13 gal remo	X
AOC65-VEW27	21	6-21					1.01		. 20.0	12 gai remo	*************************************
AOC65-INTAKE-SW			27.5	1523	58.0	3.9	><)	
10000-1NTARE-3VV				.525			Deep	Wells			
			- 1	2001	CO 1	4.2					
AOC65-VEW13	41	15-40	-31.1	2000	54.1	李	36.67		- 1.8	2.5 gd remov	red
			21.1	160	(10)	3.4	50.19		0.1		
AOC65-VEW14	61	40-60					74.01		-0.1	12 gas remove	:c
AOC65-VEW17	52.5	22-52	.41.5	955	49.9	4.4	50.38		-14.2	did not purq	e
10000 121111	<u> </u>										
AOC65-VEW22	51	26-50	_30.1	761	51.4	3.4	48.7		-25.5	did not purgi	2
			21.0	929	48.3	21	dry		6 7	did not our	
AOC65-VEW24	50	25-50	-31.0	121	כ יפר	3.1	ary		-0.7	did not purge	
AOC65-VEW26	50	25-50	30.3	799	50.6	4.4	45.1		14.2	5 gal remove	d
10003-71775	30	20-00								17 16111000	
AOC65-INTAKE-DW			- 34.8	4907	59.3	<u>५. ५</u>				7	
			25	2579	122.5	u t					
AOC65-EXHAUST			+2.7	4311		Pre Adjustr				cuum Relief Valve	
	System			Initial	intake			Final Intake	Va	icuum Relief Valve	
Blower	,	Blowe	r On		sure	Ad	justed Pressure	Pressure	Che	ck Lube	Hours Meter
Information	Shallow	(Υ)	N	30		(adjust to 75° H ₂ O)	Y(N)	30	(%)	N (V)N	NA NA
	Deep	6 5	N	40)	(adjust to 75" H ₂ O)	Y(N)	40	87	N Y/N	NA NA
	System			Amt	Canister F	ilter Change	Observations/	Notes:			
Moisture		Emp		Xfered		ged 8/2011)					
Separator Information	Shallow	(S)	N	_	Y	(N)					
	Deep	PX	N	29	Y	(N)	l				

OC65-VEW1 OC65-VEW2 OC65-VEW9 OC65-VEW9 OC65-VEW9 OC65-VEW10 OC65-VEW10 OC65-VEW12 OC65-VEW16 OC65-VEW16 OC65-VEW18 OC65-VEW18	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Screened Interval 2.5 - 10.5 - 2.5 - 10 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	Vac in.H₂O	Operators:	CII.off V Temp °F	+ Boyl Vellhead Read VOC ppm		Analyti Time	cal Sample Collected Summa Canister #	Monthly	/ Quarterly / Oth	
OC65-VEW1 OC65-VEW2 OC65-VEW9 OC65-VEW9 OC65-VEW9 OC65-VEW10 OC65-VEW10 OC65-VEW12 OC65-VEW16 OC65-VEW16 OC65-VEW18 OC65-VEW18	10 10 10 (1)(3) (4),7 (7) (8) (9),7 9,75 5,4	2.5 - 10.5 - 2.5 - 10 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	in.H₂O			voc	Water Level ft. BTOC	T!me			Comm	ents
OC65-VEW16 OC65-VEW18 OC65-VEW18 OC65-VEW18 OC65-VEW18 OC65-VEW18 OC65-VEW18 OC65-VEW18	10 10 10 (1)(3) (4),7 (7) (8) (9),7 9,75 5,4	2.5 - 10.5 - 2.5 - 10 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	in.H₂O		*F	1	ft. BTOC	T!me			Comm	ents
OC65-VEW1 OC65-VEW9 OC65-VEW9 OC65-VEW10 OC65-VEW10 OC65-VEW12 90-INTAKE-SS Ionitoring Total ft. I	10 10 908 667 7 11 12 9.7 9.7 9.75 5.4	2.5 - 10.5 - 2.5 - 10 - 2.5 - 9.7 - 2.5 - 9.7 5 - 2.5 - 5.1 - 2.5 - 5.1	•		Salary Co.		Subslab Well	s				
OC65-VEW2 OC65-VEW9 OC65-VEW9 OC65-VEW10 OC65-VEW12 90-INTAKE-SS Ionitoring Ionitoring OC65-VEW15 OC65-VEW16 OC65-VEW18 OC65-VEW18 OC65-VEW18	10 (9) 3 (4) 4 (1) 4 (2) 3 (2) 4 (2) 3 (2) 4 (2) 5 (3) 7 (2) 7 (3) 7 (4) 8 (4) 8 (5) 8 (6) 8 (6) 8 (7)	2.5 - 10 2.5 - 9.7 2.5 - 9.75 2.5 - 5.1	•		Suppose one of	10,700	25					
Contoring	9.7 9.75 5.4	2.5 - 9.7 - 2.5 - 9.75 - 2.5 - 5.1			Section 1997	1						
OC65-VEW16 OC65-VEW16 OC65-VEW16 OC65-VEW16 OC65-VEW18 OC65-VEW18 OC65-VEW28A	9.7 9.75 5.4	2.5 - 9.7 - 2.5 - 9.75 - 2.5 - 5.1 -					10.70	VIII -	000000 P.00000	ojjednere vo	an Walian	778.) V v v v v v v v v v v v v v v v v v v v
OC65-VEW16 OC65-VEW18 OC65-VEW10 OC65-VEW12 90-INTAKE-SS Ionitoring Total ft. I	9.7 9.75 5.4	2.5 - 9.7 - 2.5 - 9.75 - 2.5 - 5.1 -				ji			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	TO 3 (#1) (#1(1) (*) **; ***		
OC65-VEW16 OC65-VEW10 OC65-VEW10 OC65-VEW12 90-INTAKE-SS Ionitoring	9.7 9.75 5.4	2.5 - 9.7 - 2.5 - 9.75 - 2.5 - 5.1 -								· ICHARRINA ·-ICHARRINA		
OC65-VEW10 OC65-VEW10 OC65-VEW12 90-INTAKE-SS Ionitoring Total ft. I	9.75 5.4 (*)/2(\$)	2.5 - 9.75 - 2.5 - 5.1 -										
OC65-VEW10 OC65-VEW12 90-INTAKE-SS Ionitoring	5.4 (*)/ ₂ (t)	2.5 - 5.1 -					$\geq \leq$					
OC65-VEW18 OC65-VEW28A	(*)/ ₂ (k) 1	2(45.42)(3)										
90-INTAKE-SS Onitoring	9.7	25 7 4		POLICE AND MAN	7754.7	Navan Tak	1		MARIE TO THE STATE OF THE STATE	THOUGHING TO		
Tota		2.5 - 9.4 -					>				_	
OC65-VEW16 OC65-VEW18 OC65-VEW28A	VI 11 11 13		,									
OC65-VEW18 OC65-VEW28A					Wold Doodle		Exterior Well:	<u> </u>		I Wallbaad I		
OC65-VEW16 OC65-VEW18 OC65-VEW28A	tal Depth	Screened	Vac	Flow	rifold Reading Temp	voc	Water Level	Analyti	cal Sample Collected	Wellhead Vac		
OC65-VEW18 OC65-VEW28A	BTOC	interval	(in. H ₂ O)	fpm	°F	ppm	ft. BTOC	Time	Summa Canister #	(in. H ₂ O)		Comments
OC65-VEW18 OC65-VEW28A	13	5-12 -					7.75	1428		_		
OC65-VEW28A	4 1	15-40 -					29.94			_		
	56	15.5-55.5 -					45,94			-		
OC65-VEW28B 1	120	80-120 -					114.48					
	179	139 <u>.3-179.3</u> -					150,29			-		
OC65-VEW29	40	5-39.5					35.5 5			-		
OC65-VEW30	25	5-24.5					24.19					
OC65-VEW31	40	5-39.5					30.10				_	
OC65-VEW32	25	5-24.5					7.49			-		-
OC65-VEW33	25	5-24.5					24.2			-		
90-INTAKE-EX							$\geq \leq$			100 mg		
90-EXHAUST			٢				\gg					
OC65-POSTGAC	1		+				\geq					_
					Pre.	Adjustment				Vacuum Re	lief Valve	
	ystem	Blov	ver On	Intake Press	sure Gauge	Ac	djusted Pressu	re	Final Intake Pressure	Check	Lube	Hours Meter
Blower su	balab			70		(adjust to 65" H. (0)() / N X / ()	ا فرط " ما ا	vst 70			8329.1
<u> </u>	Subslab Exterior		/N	36		(adjust to 50" H ₂ C	o) Y (N) V (R)	1 (hu)+	34 70 E	(9/ N	(Y) N	4231.1
				Amount		Manifest to on 1130	Observations/		⊕ ⊕	<u> </u>		1 [% 4]
Moisture	ystem	Em	ptied	Transferred (qals)	-	liter Change ged 8/2011)						
Separator Information su		(y))/ N	1		<u>(N</u>	1	,				
.H ₂ O: inches of water	Substab					_	->water		Her			

Date/Time: 12/21	111 / 13	15	Operator	s: 154		_			Monitoring Event		Monthly /	Quarterly / Oti	her
<u> </u>						ld Readings				Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H₃O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analyti Time	Summa Canister#	Vac In. H₂O		Co	mments
							Shallo	w Wells					
AOC65-VEW19	26	5-25	•				9.45			-			
AOC65-VEW20	27	10-25	-				23.74			-	valve	left open	n upon arrival
AOC65-VEW21	27	12-27	-				21.92			-			
AOC65-VEW23	21	6-21	-				16.80			_			
AOC65-VEW25	21	6-21	-				15.88			-			
AOC65-VEW27	21	6-21	-				8,62			-			
AOC65-INTAKE-SW			-					146 t-					
				1 1		ı	· · ·	Wells	I	1			
AOC65-VEW13	41	15-40	-				37.42			-			
AOC65-VEW14	61	40-60	-				51.22			-			
AOC65-VEW17	52.5	22-52	-				51.55			-			
AOC65-VEW22	51	25-50	-				50.38			-			
AOC65-VEW24	50	25-50	-				911			-			
AOC65-VEW26	50	25-50	-				46.03			-			
AOC65-INTAKE-DW													
AOC65-EXHAUST			+										_
	System	<u> </u>		Initial	Intake	Pre Adjust			Final Intake	Va	cuum Reli	et valve	1
Blower	- Joseph	Blowe		Pres	sure		justed Pressure	e	Pressure	Che		Lube	Hours Meter
Information	Shallow	(Y) ₁		35		(adjust to 75" H ₂ O			30	$\frac{1}{M}$	N	(§) N .	NA
	Deep	Y /	(N)	40		(adjust to 75" H ₂ O	Y (N)	Matan	46	(Ø/	N	(Y) N	NA NA
Moisture	System	Emp			(last cha	nged 8/2011)	Observations/	Notes:	vor sounds	bad, w	ator i	n cunister	filter prob getting
Separator Information	Shallow	<u> (3)</u>		13-	Y	(N)	to bloo	wev		. 1	1 .	· 1	u
in H Oringhas of water	Deep	frm: feet per s		30	nom: narts	<u>(N)</u>	- leak	at t	ob of Ko O	Ot, cun	neur	it on sha	HOW SIGIT

* readings taken before wells purged

Date/Time : 1.411	2/083	0	Operator	s:_E]]	off t	Bouch			Monitoring Event:	Biweekl _k /	Monthly Quarterly / Ot	her	
					Manifo	id Readings	S			Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytic Time	cal Sample Collected Summa Canister #	Vac in. H ₂ O	Ce	omments	
, ome	112700					PP···		w Wells					
AOC65-VEW19	26	5-25	32.8	637	41.3	0				- 184	_		
AOC65-VEW20	27	10-25	32.5	631	62.9	0				0	recall bated PIX	/was redling 82.7 W/N	ou spin
AOC65-VEW21	27	12-27	32.8	637	62.5	3.6				30.6			
AOC65-VEW23	21	6-21	- 32.6	1206	63.3	3.4	13.55			31.0	Hgal -	8.23	
AOC65-VEW25	21	6-21	- 33.4	587	67.0	5.7	18.79	,		31.8	3 gal - 3	20.90	
AOC65-VEW27	21	6-21	- 32.9	645	66.5	6.6	9.03			- 32.2	5 gal -	20.42	
AOC65-INTAKE-SW			33.4	1204	64.5	0	Door	Wells					
					T	Ι	T	, wens				- ,	
AOC65-VEW13	4 41	15-40	-34.8	7878	56.9	4.3	36.6		,	1,6	40.01 - 5	5015	
AOC65-VEW14	61	40-60	-32.6	7171	0,00	4.2	53.11			- 0	40.01 - 51	.05	
AOC65-VEW17	52.5	22-52	- 33,3	1110	58.8	4.5	50.64			14.7			
AOC65-VEW22	51	25-50	-32.1	1708	57.5	3,5	48.23			24.2			
AOC65-VEW24	50	25-50	-33.3	386	60.4	3.0	DRY			0,2			
AOC65-VEW26	50	25-50	_32.3	1011	59.7	4,2	41.78			- 36.8	12 991 - 49	.63	
AOC65-INTAKE-DW			-36.1	4537	62.9	4.7					•		
AOC65-EXHAUST			+2.4	10341	104.5	4.1							
	Curtair			lmi4!-!	Intoles	Pre Adjust	ment		Final Intake	Ve	cuum Relief Valve	-	
Blower	System	Blowe	er On	Pres	Intake sure	Ac	ljusted Pressur	e	Pressure	Che	ck Lube	Hours Meter	
Information	Shallow	31		33		(adjust to 75" H ₂ C) Y/N			(Y)		NA NA	
	Deep	(P)	N	4		(and the 75" H ₂ C		(h) ((Y)/		NA	
Moisture	System	Emp	tied	Amt Xfered		Filter Change nged 8/2011)	Observations/	Notes:	lown 1345 H	o picat	Wa far		
Separator Information	Shallow	(3)	N	O	Y	N	5AVT 5/5	tem o	(M). 12 13 (1	TEC FEEL		
	Deep	(N)	N	20	Y	N							

Date/Time : 1.4	12/092	0		Operators:	Elliott +	Bouch	and the second s	м	onitoring Event: E	Biweekly Monthly	Quarterly / Oth	er	
		1.	1		V	Vellhead Read							
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. BTOC	Analyt Time	ical Sample Collected Summa Caniste	er#	Comn	nents	
	74. 5700	mortan	2	.,,,,,,		pp	Subslab Wel	ls		A A A A A A A A A A A A A A A A A A A			
OC65-VEW1	10	2.5 - 10.5							TO COMPANY OF THE PARTY OF THE				
OC65-VEW2	9.8	2.5 - 10	-							OFFLINE			
OC65-VEW4	6.7	2.5 - 9.8	-							OFFLINE			
AOC65-VEW5	9.1	2.5 - 9								OFFLINE		IN PLANTAGE	
AOC65-VEW6	5	2.5 - 5								OFFLINE			
AOC65-VEW7 AOC65-VEW8	5.25 9.7	25-5	-							OFFLINE			
AOC65-VEW9	9.75	2.5 - 9.75	-								ya		
OC65-VEW10	5.4	2.5 - 5.1										*	
AOC65-VEW11 AOC65-VEW12	9.33	2.5 - 9.3 2.5 - 9.4		6832	62.8		>			OFFLINE			
	9.7	2.5 - 9.4				2.0	>						
390-INTAKE-SS			- 32.8	76,000	751	2,0							
				1/2	nifold Readin	~~	Exterior Wel	<u>Is</u>		Wellhead	T		
Monitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Water Level	Analyt	ical Sample Collected	Vveiineau			
Point	ft. BTOC	Interval	(in. H₂O)	fpm	°F	ppm	ft. BTOC	Time	Summa Caniste		001420	Comments	
AOC65-VEW15	13	5-12	18,3	230	50.1	3.9	7.03			-0.4	6 gal -	11,47 BTOL	
AOC65-VEW16	41	15-40	17.6	210	50.3	2.9	30.02			-0.3	9 gal -	36.45"	
AOC65-VEW18	56	15.5-55.5	- 18,4	379	49.2	1.8	50.70	11. 12.6	h	. 0.2	4 cal-	53.49	
OC65-VEW28A	120	80-120	17.9	372	49.7	pulling wat	11.47	41.23 (5	9	4. 2	can hour b	when the messing	
OC65-VEW28B	179	139.3-179.3	1. 1	178	42.0	3.0	149,24			- 1,4	-1 / -	38.53	
OC65-VEW29	40	5-39.5	16,7	140	50.8	12.4	32.7			- 17.2	+ 94/	30,05	
OC65-VEW30	25	5-24.5	- 18,3 - 16.9	1347	60.4	-					12	2020 201	
AOC65-VEW31	40	5-39.5	17.1	2751	49,0	5.9	3.05	~		7.6	14 941 -	22.56'	
AOC65-VEW32 AOC65-VEW33	25 25	5-24.5 5-24.5	17.3	1830	51.0	2.8	24.29			- 16.8	18 941 -	32130	
390-INTAKE-EX	20	0-24:0	- 21.1	2384	60.7	3.5							
390-EXHAUST			+ 20.4	715,000	137.1	2.7		-					
AOC65-POSTGAC			+ 7.8	7383	95	1.7		***					
					Pre	Adjustment				Vacuum I	Relief Valve		
Blower	System	_	wer On	Intake Pres			djusted Pressu	ire	Final Intake Pressure	Check	Lube	Hours Meter	
Information	Subslab	<u> </u>	1	71	*	(adjust to 65" H ₂ 0	O) Y / N			Y / N	Y / N	8643.6	
	Exterior	Y) N	34.(Q	(adjust to 50" H ₂ 0	O) Y / N			Y / N	Y / N	4545.6	
Moisture Separator	System	En	nptied	Amount Transferred (gals)	Canister F	ilter Change ged 8/2011)	Observations	yster do	un at 124	5 to purge	e_		
Information	Subslab	(2)) N	0		[N	*subslab	Vac gar	nge stuck o	in 6 when	system is o	†	
	Exterior	(v	A (7	~	(N)							

Date/Time : /	19.12/	0800		Operators:	Elliott			. Mo	nitoring Event:	Biweekly P Monthly	/ Quarterly / Oth	er
					V	Vellhead Read						
Monitoring	Total Depth		Vac	Flow	Temp °F	VOC	Water Level ft. BTOC	Analyti Time	cal Sample Collecte Summa Canis		Comm	anta
Point	ft. BTOC	Interval	in.H₂O	fpm		ppm	Subslab Wel		Summa Cams	ter#	Comm	lents
OC65-VEW1	10	2.5 - 10.5					Substitute 17 cm					
OC65-VEW2	10	2.5 - 10	-			article and the second				OFFLINE		
AOC65-VEW3 AOC65-VEW4	9.8	2.5 - 9.8 2.5 - 6.6				The State of				OFFLINE		
AOC65-VEW5	9.1	2.5 - 9								OFFLINE		
AOC65-VEW6 AOC65-VEW7	5.25	2.5 - 5	•							OFFLINE		
AOC65-VEW8	9.7	2.5 - 9.7	-							OFFERE		
AOC65-VEW9	9.75	2.5 - 9.75	•				$\geq \leq$					
AOC65-VEW10 AOC65-VEW11	5.4 9.33	2.5 - 5.1 2.5 - 9.3				100000000000000000000000000000000000000				OFFLINE		Yell The Reserve
OC65-VEW12	9.7	2.5 - 9.4	-	Was N. P. Norman	Licenses							and the second s
90-INTAKE-SS							><					
				1			Exterior Wel	ls				
					ifold Readin		Lister .			Wellhead		THE STATE OF
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac (in. H₂O)	Flow fpm	Temp °F	VOC ppm	Water Level ft. BTOC	Time	Summa Canis			Comments
AOC65-VEW15	13	5-12					7.07	97		-		
AOC65-VEW16	41	15-40					30,04			-	11.	
AOC65-VEW18	56	15.5-55.5					52.76			-		
AOC65-VEW28A	120	80-120			4		114.30			-		-
AOC65-VEW28B	179	139.3-179.3			\$H		149.31	1 (4)				
AOC65-VEW29	40	5-39.5	-	A			33.79	100				
AOC65-VEW30	25	5-24.5	-				24.33			-		- A M
AOC65-VEW31	40	5-39.5	-	6 Super			30,22	1				1000
AOC65-VEW32	25	5-24.5			200,00		8.88					
AOC65-VEW33	25	5-24.5					-	-> Screw	to well 1:	d bent by h	eny equipmen	t-can toper
390-INTAKE-EX							$\geq \leq$				C:	
390-EXHAUST			+				>					
AOC65-POSTGAC			+	1								
D/	System	Plo	wer On	Intake Press		Adjustment A	djusted Pressu	ıre	Final Intake Pressure	Vacuum R Check	elief Valve Lube	Hours Meter
Blower Information	Subslab	P)/ N	(0	2	(adjust to 65" H ₂	O) Y / (N)		64-6=58		(Y) N	8948.3
	Exterior	P	N	2.		(adjust to 50" H ₂	O) Y /(N)		31.3	(Ý)/ N	(Y) N	4850.2
Moisture Separator	System	En	nptied	Amount Transferred (aals)	Canister F	ilter Change ged 8/2011)	Observations	/Notes:				
Information	Subslab	C) N		Y	(N)	1					
	Exterior	A) / N	15		N						
n.H ₂ O: inches of water	LAGIO		fpm: feet per mir		Y	ppm: parts per n	-100			VRV: vacuum r	all of column	psi: pounds per square inch

	CORPORT TO				Manifo	ld Reading	ıs			Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytic Time	al Sample Collected	Vac in. H ₂ O		Con	nments
OIII.	11.5700	merra	2	15		Ppin		w Wells					
OC65-VEW19	26	5-25	-				20,02			-			
OC65-VEW20	27	10-25					24.19			-			
OC65-VEW21	27	12-27	-				23,70			-			
OC65-VEW23	21	6-21	-				16.14						
OC65-VEW25	21	6-21	-				20.09			-			
OC65-VEW27	21	6-21	-				10.51			_			
AOC65-INTAKE-SW							Deen	Wells					
							1	Viens					
OC65-VEW13	41	15-40	-				38.38			-			
OC65-VEW14	61	40-60	-				53.36			-			
OC65-VEW17	52.5	22-52					51.60			-			
AOC65-VEW22	51	25-50	-				dry			-			
AOC65-VEW24	50	25-50					dry			-			
AOC65-VEW26	50	25-50	-				48.68			-			
AOC65-INTAKE-DW			-									4	
AOC65-EXHAUST			+										
	System			Initial I	ntako	Pre Adjus			Final Intake	Va	cuum Re	lief Valve	
Blower	System	Blowe	Table 1	Pres			djusted Pressure	•	Pressure	Chec		Lube	Hours Meter
Information	Shallow	Y /				(adjust to 75" H ₂			43/38	(Y)/		Q/N	NA
Moisture	System System	Y /	~	Amt Xfered		Filter Chang	e Observations/		-	(Ŷ)/	V	(Y) N	NA
Separator Information	Shallow	(x)/		Aleieu		(N)	- Deep 4	ide o	ff				

						d Readings				Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytical Samp	le Collected na Canister#	Vac in. H₂O		Со	mments
							Shallov	w Wells		-			
AOC65-VEW19	26	5-25	-				9,94			-	punga	1 24.69	
AOC65-VEW20	27	10-25					23.57			-	Durge	1 24.7	7
AOC65-VEW21	27	12-27	-				20.40			-	Dura	ed 25	.85
AOC65-VEW23	21	6-21					14.02			-	pur	ged 2	3.D'
AOC65-VEW25	21	6-21	-				18.60			_	No	purge	
AOC65-VEW27	21	6-21	-				9.05			-	purge	d 19.96	-
AOC65-INTAKE-SW			-				Deep	Wolls		The state of			
	1						1	vveiis		1		1 -	
AOC65-VEW13	41	15-40		38.14						-	purge	d 38.91	
AOC65-VEW14	61	40-60	-				56.60			_	58.7	5. Dur	ged well
AOC65-VEW17	52.5	22-52		_			51.82			-	no pu	rge	
AOC65-VEW22	51	25-50					50.5			_	for ged	24.69	- no prye
AOC65-VEW24	50	25-50	-				DRY			-	_No	mee.	
AOC65-VEW26	50	25-50	-				49.35			-	no	purge	
AOC65-INTAKE-DW			-								N. C.	! 🥥	
AOC65-EXHAUST			+										
	System			Initial		Pre Adjusti		Eir	al Intake	Va	cuum Reli	ef Valve	
Blower	System	Blowe	r On		sure		justed Pressure		ressure	Chec	k	Lube	Hours Meter
Information	Shallow	Y /				(adjust to 75° H ₂ O				Y / I		Y / N	NA
	Deep	Υ /	N	Amt		(adjust to 75" H ₂ O)	Y / N Observations/N	lotes:		Y / I	N .	Y / N	NA
Moisture	System	Empt		Xfered		ged 8/2011)	City Union	arrival -	deep 5	de off			
Separator Information	Shallow	(Y)/		6.5	Y	/ N		side resta			1.1		
	Deep	Y /	N)		Υ	/ N	15/rallaw	Since LASA	neu at	enu ot	uny		

AOC65-VEW28A 120 80-120 - 114.5 Le		Comm	
Substate OFFLINE OFFLINE OFFLINE OFFLINE	Comm	ents	
Subslab Wells Subslab Well	OFFLINE OFFLINE OFFLINE OFFLINE	Comm	ents
OC65-VEW1	OFFLINE OFFLINE OFFLINE		
CC65-VEW2	OFFLINE OFFLINE OFFLINE		
CC65-VEW4	OFFLINE OFFLINE OFFLINE		
NOC65-VEW6 9.1 2.5 - 9	OFFLINE OFFLINE		
NOC65-VEW18 9.7 2.5 - 9.7	OFFLINE		
NOC65-VEW8 9.7 2.5 - 9.7 -			CONTRACTOR AND ADDRESS OF
AOC65-VEW10 5.4 2.5 - 5.1 -	OFFLINE		
Social Color Soci	OFFLINE		
Section Sect			OF THE PARTY OF TH
Exterior Wells Manifold Readings Mater Level Analytical Sample Collected Ppm F Ppm Mater Level Analytical Sample Collected Ppm Mater L			
Manifold Readings Mater Level Analytical Sample Collected Ppm F			
Total Depth Screened October Screened October Screened October October			
Point ft. BTOC Interval (in. H ₂ O) fpm °F ppm ft. BTOC Time Summa Canisters OC65-VEW15 13 5-12 - 39.96	Wellhead		
OC65-VEW16 41 15-40 - 39.96 OC65-VEW18 56 15.5-55.5 - 50.69 OC65-VEW28A 120 80-120 - 114.56	Vac (in. H ₂ O)	And the second s	Comments
10C65-VEW18 56 15.5-55.5 - 50 09 19 19 19 19 19 19 19 19 19 19 19 19 19	-	Purged 1	11.2 DTW
AOC65-VEW28A 120 80-120 - 114.54			1.95
	-	perged 53	3.72
	-	no prige	
OC65-VEW28B 179 139.3-179.3 - 150.13	-	# 1	
AOC65-VEW29 40 5-39.5 - 31 74		Purged 3	78.93 DTW
OC65-VEW30 25 5-24.5 - 34.35	-	no porge	
AOC65-VEW31 40 5-39.5 - 30.15	-	38.68' P	water
AOC65-VEW32 25 5-24.5 - 8.84	-	penged ,	22,36
OC65-VEW33 25 5-24.5 - 24.5 - 24.5	-	no ourge	
990-INTAKE-EX			
390-EXHAUST +			
OC65-POSTGAC +			
System Pre Adjustment Final Intake	Vacuum R	elief Valve	-
Blower On Intake Pressure Gauge Adjusted Pressure Pressure	Check	Lube	Hours Meter
Information Subslab Y / N (adjust to 65" H ₂ O) Y / N	Y / N	Y / N	
Exterior Y / N (adjust to 50" H ₂ O) Y / N	Y / N	Y / N	
Moisture Separator System System System System System Emptied Amount Transferred (qals) Canister Filter Change (last changed 8/2011) Observations/Notes: Off John William the System reserved at end of	100	buppy sm	tit down
Information Subslab () / N O Y / N	is weetend		
Exterior Q/N 2 Y/N	3 weekend		

Date/Time : 🔏 . 7 .	2		Operators	Ellia	H +	Bouch		Мо	nitoring Event:	Biweekly Mont	hly Quarterly / O	ther
					Manifol	d Readings	6			Wellhead		
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc		ample Collected Summa Canister#	Vac in. H₂O	C	Comments
					***************************************		Shallo	w Wells				
AOC65-VEW19	26	5-25	36.7	687	56.8	4.7	12.94			32.9		
AOC65-VEW20	27	10-25	36.4	654	56.2	2.2	24.62			0.1		
AOC65-VEW21	27	12-27	37.1	633	56.4	2.0	25.47			31.9		
AOC65-VEW23	21	6-21	36.7	854	57.1	1.6	19.77			34.5		
AOC65-VEW25	21	6-21	36.5	646	575	1,9	15.91			36.3		
AOC65-VEW27	21	6-21	36.9		57.3	6.4	14.85			35.3		
AOC65-INTAKE-SW			37.3	1381	57.1	2.6						
							1 7	Wells				
AOC65-VEW13	41	15-40	-	 			38.81			-0.1		
AOC65-VEW14	61	40-60	-				57.81			-0.1		
AOC65-VEW17	52.5	22-52	- 6	19			51.76			. 0		
AOC65-VEW22	51	25-50	- (14			dry			0		
AOC65-VEW24	50	25-50		J			dry			-0.1		
AOC65-VEW26	50	25-50	<u> </u>				49.35		· · ·	-0.1		
AOC65-INTAKE-DW			9						M AND REAL PROPERTY OF THE PRO		The same of the sa	
AOC65-EXHAUST			+0,2	1047	104.3						Dell'ef Velve	
	System			Initial	Intake	Pre Adjustr	-		Final Intake	vacuum	Relief Valve	-
Blower Information		Blowe		Pres	sure		justed Pressure	e	Pressure	Check	Lube	Hours Meter
	Shallow Deep	<u> </u>		3	9	(to 75" H ₂ O)			39	Y/N	Ø N	258.5 NA
Moisture	System	Empt		Amt Xfered		ilter Change ged 8/2011)	Y / N Observations/	/Notes:] I / IN	, , , , N	O NA
Separator Information	Shallow	Υ /	N		Y	/ N						
ormation	Deep	Υ /	N		Y	/ N						
.H ₂ O: inches of water		fpm: feet per m	nioude.		ppm parts p	or million			1/01/	relief valve	nsi: nounds ner duud	

Date/Time :_ 🚨 🗓	12			Operators:	E/1.077 +	13000		Mc	nitoring Event: E	Biweekly / Monthly	Quarterly / Other	r
B. B 14 - 1			ı ,,	T = F1		Vellhead Read				premium annum		
Monitoring Point	Total Depth ft. BTOC	Interval	Vac in.H₂O	Flow fpm	Temp °F	VOC ppm	Water Level ft. BTOC	Analyti Time	cal Sample Collected Summa Caniste	er#	Comm	ents
							Subslab Wells	DATE OF THE PARTY				
AOC65-VEW1 AOC65-VEW2	10	2.5 - 10.5	-									
AOC65-VEW3	9.8	2.5 - 10 2.5 - 9.8			100000000000000000000000000000000000000					OFFLINE		
AOC65-VEW4	6.7	2.5 - 6.6								OFFLINE		
AOC65-VEW5 AOC65-VEW6	9.1	2.5 - 9	*							OFFLINE OFFLINE		
OC65-VEW7	5.25	2.5 - 5	-							OFFLINE		
OC65-VEW8	9.7	2.5 - 9.7	-									
OC65-VEW9 OC65-VEW10	9.75 5.4	2.5 - 9.75 2.5 - 5.1	-									
AOC65-VEW11	9.33	2.5 - 9.3								OFFLINE		
OC65-VEW12	9.7	2.5 - 9.4	4. 2	11111		0.0						
90-INTAKE-SS			- 32,2	6428	65.1	2,0						
validadisəs, markati kəzərini				Mar	ifold Readin	ac	Exterior Wells			Wellhead		
fonitoring	Total Depth	Screened	Vac	Flow		VOC	Water Level	Analyti	cal Sample Collected	Veililead		
Point	ft. BTOC	Interval	(in. H ₂ O)	fpm	Temp °F	ррт	ft. BTOC	Time	Summa Caniste		C	comments
AOC65-VEW15	13	5-12	15.4	272	54.1	3.7	9.54			0.7		
AOC65-VEW16	41	15-40	15.8	290	53.1	3.2	37.51			- 0.1		
AOC65-VEW18	56	15.5-55.5	155	279	53.4	5.7	52.53			.0.1		
OC65-VEW28A	120	80-120	15.3	3.79	54.4	16.7	114.48			.0.7	3/8/2	
OC65-VEW28B	179	139.3-179.3	15.5	284	57.0	8.7	150.17			-0.5		
OC65-VEW29	40	5-39.5	- 14.1	1392	49.4	2.4	38,34			-0.9		
OC65-VEW30	25	5-24.5	14.7	1390	44.2	8,3	24.35			-14.9		
OC65-VEW31	40	5-39.5	13.6	1420	62.4	3.8	29.97			-5.9		
OC65-VEW32	25	5-24.5	14.9	434	49.2	6.7	14.85			- 14.3		
OC65-VEW33	25	5-24.5	14.7	736	48.4	4.6	24.33			-14.2		
90-INTAKE-EX			- 17.7	2341	62.7	3.4				(A) (B)		
90-EXHAUST			+ 33.60 =	>15,000	136.2	3.4	>					
OC65-POSTGAC			- 13.0	8904	90-1	1.9		5100,00014100111011110111111111111111111		Vasuum Ba	Haf Valvo	
	System			Intake Press		Adjustment Adjustment	djusted Pressure	9	Final Intake	Vacuum Re		1
Blower Information	Cubatat		wer On	63-8		(adjust to 65" H ₂ 0	^		Pressure	Check	Lube	Hours Meter
mormation	Subslab		/ N	100			1,	U	55	Ø/ N	(Y)/ N	9345,2
	Exterior	<u>(Y</u>)/ N	30.)	(adjust to 50° H ₂ 0			30.3	(₹/N	(Y)/ N	5347.3
Moisture Separator	System	Еп	nptied	Amount Transferred (gals)		ilter Change	Observations/N	lotes:				
Information	Subslab	Y	/ N			/ N						
	Exterior		/ N			/ N	ŀ					
H₂O: inches of water		The state of the s	fpm: feet per min	ute		ppm: parts per m	illion			VRV: vacuum re	lief valve	psi: pounds per square inc

ate/Time : 2 · 1	12/	1000		Operators: E	leatt +	- Bouch		Мо	nitoring Event: Biw	eekly / Monthly /	Quarterly / Other_	r Fee
te/Time : + + +	112/	1000		Operators:	W	ellhead Readi	ngs					
onitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Water Level		al Sample Collected Summa Canister #		Commen	ts
oint	ft. BTOC	Interval	in.H ₂ O	fpm	°F	ppm	ft. BTOC	Time	Summa Canister #		Common	
							Subslab Wells					
DC65-VEW1		2.5 - 10.5 - 2.5 - 10 -								CELLINE		
DC65-VEW2 DC65-VEW3	10 9.8	2.5 - 9.8 -								OFFLINE OFFLINE		
OC65-VEW4	6.7	2.5 - 6.6 -			WE WAR					OFFLINE		
OC65-VEW5	9.1	2.5 - 9 -							· 一种 · · · · · · · · · · · · · · · · · ·	OFFLINE	HA TEN	
OC65-VEW6 OC65-VEW7	5.25	2.5 - 5 -				100				OFFLINE		
OC65-VEW8	9.7	2.5 - 9.7 -										
OC65-VEW9	9.75	2.5 - 9.75 - 2.5 - 5.1 -								A SECURIT		
OC65-VEW10 OC65-VEW11	5.4 9.33	2.5 - 9.3			学			100	and the second second	OFFLINE		
OC65-VEW12	9.7	2.5 - 9.4	-									
90-INTAKE-SS												
30-INTARE GO							Exterior Wells	3		Wellhead		
					fold Reading	VOC	Water Level	Δnalvti	cal Sample Collected	Vac		
Monitoring	Total Depth		Vac (in. H ₂ O)	Flow fpm	Temp °F	ppm	ft. BTOC	Time	Summa Canister #	(in. H ₂ O)	Co	mments
Point	ft. BTOC	Interval	(111. 11 2 0)	Tpill		F P						
OC65-VEW15	13	5-12	-				7.26			-		
							30,02			-		
OC65-VEW16	41	15-40	-				-					
AOC65-VEW18	56	15.5-55.5	_		- V		47.70		1	-		
10000-121110							114.39			-		
AOC65-VEW28A	120	80-120	-									
A O O O C E VITINI 20 P	179	139.3-179.3					150.6			-		
AOC65-VEW28B	175	100.0-170.0				1	34.49			_		
AOC65-VEW29	40	5-39.5	-									
A 0005 VEW20	25	5-24.5					24.35			-		
AOC65-VEW30	25	3-24.0				2	39.45					
AOC65-VEW31	40	5-39.5										
	0.5	5-24.5					8.64			-		
AOC65-VEW32	25	5-24.5	-				24.38					
AOC65-VEW33	25	5-24.5	-				4 1.30					
									4			
B90-INTAKE-EX			-									
B90-EXHAUST			+				$\langle \rangle$					
AOC65-POSTGAC			1		Pre	Adjustment			L Final Intako	Vacuum Re	elief Valve	
	System			Intake Pres	sure Gauge		Adjusted Pressi	ure	Final Intake Pressure	Check	Lube	Hours Meter
Blower			ower On						* STEEN PE	Ø/N	Q/N	9729.6
Information	Subslab	(N/N	84-6	- 10	(adjust to 65" h	12U IN	40.0-01	9/10	Ø/N	Y/ N	
	Exterior		Y /(N)			(adjust to 50" h	H ₂ O) Y / N		28.4	₽ N	U/ N	5443.7
			mptied	Amount Transferred	Canister	Filter Change	Observations	s/Notes:				
Moisture Separator	System			(gals)		nged 8/2011)						
Information	Subslab	(X / N	Ö		((N)						
4			Y) N	10		(N)						

		-	_		Manifold	Readings				Wellhead		
onitoring	Total Depth	Screened	Vac	Flow	Temp	voc	Water Level ft. btoc	Analytic Time	al Sample Collected Summa Canister#	Vac in. H ₂ O	Comn	nents
oint	ft BTOC	Interval	in.H ₂ O	fpm	-	ppm		w Wells				
OC65-VEW19	26	5-25	_				8,51		-	-		
OC03-VEVV13							22 112					
OC65-VEW20	27	10-25	-				22,42			-		100
							17.33			-		
OC65-VEW21	27	12-27	-									
OC65-VEW23	21	6-21					14.67			-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
.OC65-VLVV25		02.					85 11E					
AOC65-VEW25	21	6-21	-				15.45			-		
							8.32			-		
AOC65-VEW27	21	6-21	-				V.70			15 (1)		
AOC65-INTAKE-SW			_									
COCOS-INTAINE-OVV	the second						-	Wells	1			
		15.10					38.35			-		
AOC65-VEW13	41	15-40					-					
AOC65-VEW14	61	40-60	-				59.10			-		
							51. lde			_		
AOC65-VEW17	52.5	22-52	-	-								
AOC65-VEW22	51	25-50	-				50.38			-		
ACCOC VEVVE							dry			-		
AOC65-VEW24	50	25-50	-		-							
AOC65-VEW26	50	25-50	-				47.83	- 1		-		
AOC65-INTAKE-DW		West of	-	-			$\langle \cdot \rangle$	-				
AOC65-EXHAUST			+								Delief Valve	
ACCOU-LATIACOT						Pre Adjus			Final Intake	Vacuum	Relief Valve	
Blower	System	Blow	ver On		al Intake essure	A	djusted Pressu	ire	Pressure	Check	Lube	Hours Meter
Information	Shallow		/ N		40	(adjust to 75" H	,o) Y (N)		40	(V) N	(Ý/N	643,7
	Deep		/(N)		10	(adjust to 75" H	20) Y/N			(Y) N	(Yy N	0
				Amt		ster Filter	Observation	s/Notes:				
Moisture	System	5111	ptied	Xfered		inged 8/2011						
Separator Information	Shallow) / N	2 54		(N) dr	4					
IIII OTTITALI STI	Deep	fpm: feet pe	(N)	off		y / N			VDV: vac	uum relief valve	psi: pounds per square i	nch

Date/Time : 3.9		1520		Operators:		Vellhead Read	lings		onitoring Event: Bi			
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac in.H₂O	Flow fpm	Temp °F	VOC ppm	Water Level ft. BTOC	Time	Summa Canister	#	Comi	ments
AOC65-VEW1	10	2.5 - 10.5 -		ALC: NO			Subslab Wells	A 10				
OC65-VEW2	10 9.8	2.5 - 10 - 2.5 - 9.8 -								OFFLINE	•	
OC65-VEW4 OC65-VEW5	6.7 9.1	2.5 - 6.6 - 2.5 - 9 -								OFFLINE		
AOC65-VEW6	5	2.5 - 5								OFFLINE		
AOC65-VEW7 AOC65-VEW8	5,25 9.7	2.5 - 5 - 2.5 - 9.7 -								DEFEINE		
AOC65-VEW9 AOC65-VEW10	9.75 5.4	2.5 - 9.75 - 2.5 - 5.1 -							15 15 10		Also .	
AOC65-VEW11 AOC65-VEW12	9.33 9.7	2.5 - 9.3 - 2.5 - 9.4 -							<u> </u>	OFFLINE		
B90-INTAKE-SS		_	34.2	5677	54.1	0.9		47-14			P. S.	
				Mari	offered December		Exterior Wells			. Wallboad I		
Monitoring	Total Depth	Screened	Vac	Flow	nifold Reading Temp	VOC	Water Level	Analyti	cal Sample Collected	Wellhead		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Point	ft. BTOC	Interval	(in. H ₂ O)	fpm	°F	ppm	ft. BTOC	Time	Summa Canister			Comments
AOC65-VEW15	13	5-12 -	14,6	285	44.9	2.1	7.1		1	.0.1	D-1175-	
AOC65-VEW16	41	15-40 -	14.3	309	44.9	2.4	29.99			-10.5		
AOC65-VEW18	56	15.5-55.5 -	14.3	264 4	5.1	1.7	51.87			.0.1		
	120	80-120 -	14.7	273	45.8	6.1	1141.3		. 100	1.8	BELLEVIN !	
AOC65-VEW28A			15.4	2799	46.9	17	150.62	7		126		
AOC65-VEW28B	179	139.3-179.3	1411	17/1	1121	1.2	22	13. 13.7	1 10	10		The second second
AOC65-VEW29	40	5-39.5 -	120	115	4),6	11 7	34.95		3 5 7 7	1. /		
AOC65-VEW30	25	5-24.5 -	13.8	115	44.0	10.7	24.35	11 11 11		15.8		
AOC65-VEW31	40	5-39.5 -	13.4	3615	61.6	2.2	29.96			5.9		
AOC65-VEW32	25	5-24.5 -	14.1	101	43.1	3.7	188.27	100		1.15.4		
AOC65-VEW33	25	5-24.5 -	13.6	173	43.8	2.0	24.29			.14.1		
B90-INTAKE-EX			17.2	1378	55.5	2.1		1 0.1			1.9	
B90-EXHAUST			32.7	> 15,000	134.8	1.8		35.5	o			
			701	1703	61.6	11			-		E-MINE	
AOC65-POSTGAC		7	-0.6	1105	. 1	Adjustment				Vacuum Re	elief Valve	
Blower	System	Blow	ver On	Intake Pres	sure Gauge	A	djusted Pressur	е	Pressure	Check	Lube	Hours Meter
Information	Subslab	(2)	/ N	66		(adjust to 65" H ₂	0(Y)/ N	100	66	Y/N	(V) N	10094.1
	Exterior	0	/ N	30.2	7	(adjust to 50" H ₂	0)(Y)N		30.7	(Y) N	YN	5808.2
Moisture Separator	System	Em	ptied	Amount Transferred (gals)	Canister Fi	ilter Change ged 8/2011)	Óbservations/I	Notes:				
Information	Subslab	(v)	/ N	0		NO.	140					
	Exterior		y N	.0		(N)						

					Manifal	d Readings			Wellhead		
Monitoring	Total Depth		Vac	Flow	Temp	voc	Water Level	Analytical Sample Collected	Vac		
Point	ft BTOC	Interval	in.H₂O	fpm	-F	ppm	ft. btoc	Time Summa Canister # w Wells	in. H ₂ O		Comments
	T	15-7-7-1	11.1		110.		100-	Witens	1200		
AOC65-VEW19	26	5-25	44.1	204	49.8	5.6	8,85		30.2		2
AOC65-VEW20	27	10-25	42.6	602	45.8	2.1	21.25	1 4	.0.1	11 /	Y
AOC65-VEW21	27	12-27	42.9	704	45.6	2.0	11.75		40.7	T.	1
AOC65-VEW23	21	6-21	42.3	384	48.7	1.6	14.65	let:	42.5		
AOC65-VEW25	21	6-21	43.6	581	47.1	7.3	16.88		.42.8		The American
AOC65-VEW27	21	6-21	26.4	516	48.3	5.3	8.74		.43.3	9-1	
AOC65-INTAKE-SW			43.8	901	51. 1	4.1	><	1 1			1
						1		Wells			
AOC65-VEW13	41	15-40	_				38.25		0.1		7 1 7 7 7
AOC65-VEW14	61	40-60	-	-	2+-		59.85		.0.0	Deep Sid	e Off
AOC65-VEW17	52.5	22-52					51.88		.0.0	1 1 1 1 1 1 1 1	-
AOC65-VEW22	51	25-50					DRY		6.1	and the same	
AOC65-VEW24	50	25-50					DRY	7 50	2.2		
AOC65-VEW26	50	25-50	_				48.7		.0.1		
AOC65-INTAKE-DW			_		10		>	3 2			
AOC65-EXHAUST			1.01	986	110,2	4.1				3	
						Pre Adjustn	nent		Vac	cuum Relief Valve	- Bris - 1
Blower	System	Blowe	r On	Initial Pres			justed Pressure	Pressure	Chec	k Lube	Hours Meter
Information	Shallow	(Ý)		42		(adjust to 75" H ₂ O)		42	()/1		1007.3
	Deep	Y /	N	A	Cariatan	(adjust to 75" H ₂ O)		Interior	Y / I	N Y/N	
Moisture	System	Empt		Amt Xfered	(last chan	ged 8/2011)	Observations/N	votes:			
Separator Information	Shallow	(Y)	N	1.594	Y/W						
	Deep	Y /	N		Y	/ N					

Date/Time: 3.2	6.12	0900		Operators:	Elliott			М	onitoring Event: B	iweekly Monthly	/ Quarterly / Othe	
ate/fille	6	0 100		Operators		Vellhead Read	dings		omtoring Every.	weekly g wonting	/ Quarterly / Othe	
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac in.H 2 O	Flow fpm	Temp °F	VOC ppm	Water Level	Analyt Time	ical Sample Collected Summa Caniste	*#	Comme	onte
- Omt	n. Broc	intervar	111.1720	i ipin		ppin	Subslab Wells		Gamma Gamste	"	Comme	ents
AOC65-VEW1	10	2.5 - 10.5					>					
AOC65-VEW2 AOC65-VEW3	10 9.8	2.5 - 10 2.5 - 9.8			A. TENER					OFFLINE		
AOC65-VEW4	6.7	2.5 - 6.6			10000000000000000000000000000000000000					OFFLINE		
AOC65-VEW5 AOC65-VEW6	9.1	2.5 - 9								OFFLINE OFFLINE		
AOC65-VEW7	5.25	2.5 - 5								OFFLINE		
AOC65-VEW8 AOC65-VEW9	9.7 9.75	2.5 - 9.7 2.5 - 9.75	-									
AOC65-VEW10	5.4	2.5 - 5.1	-									
AOC65-VEW11 AOC65-VEW12	9.33	2.5 - 9.3 2.5 - 9.4								OFFLINE		第二条件,通常产业的
	5.7	2.0 - 0.4						1-1-16	TO CONTRACT TO STATE OF THE STA			
390-INTAKE-SS							Exterior Wells					
				Man	ifold Readin					Wellhead		Alexander and a second
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac (in. H ₂ O)	Flow fpm	Temp °F	VOC ppm	ft. BTOC	Analyt Time	Summa Caniste	Vac (in. H ₂ O)	C	omments
AOC65-VEW15	13	5-12					7.33					
AOC65-VEW16	41	15-40	-				30.03					
AOC65-VEW18	56	15.5-55.5					32.28					
AOC65-VEW28A	120	80-120	-				114.24					
AOC65-VEW28B	179	139.3-179.3					150.3					
AOC65-VEW29	40	5-39.5					31.17	W-100				
AOC65-VEW30	25	5-24.5			150		24.37					
AOC65-VEW31	40	5-39.5				1 2 2	30.25					
AOC65-VEW32	25	5-24.5	-				9.38					
AOC65-VEW33	25	5-24.5					24.40					
390-INTAKE-EX							$\geq \leq$					3,
B90-EXHAUST			+								-	
AOC65-POSTGAC			+				\sim					
	System			Intake Press		Adjustment	djusted Pressure	9	Final Intake	Vacuum Re		
Blower Information	Subslab		wer On	intanto i rodo		(adjust to 65" H ₂			Pressure 65	Check N	Lube	10399,1
	Exterior		(N)			(adjust to 50" H ₂			37	(V) N	(Y)/ N	6113.2
Moisture Separator	System	Em	nptied	Amount Transferred (gals)		ilter Change ged 8/2011)	Observations/N	off y	pun arrival	, power line	work last	week
Information	Subslab (Y)/ N			0	Y	Q	- Kew VI	ic. gau	1 .	ed on both	Sives of	System
	Exterior	(Y)/ N	7.0		I(N)	- System	turned	buck on	@ 1030		

Date/Time : 3.24.			орегасог	s: Ellió				Monitoring E	-		ly / Quarterly / Oth	101
Monitoring	Total Depth	Screened	Vac	Flow	Manifo Temp	ld Reading VOC	Water Level	Analytical Sample Collec		Vellhead Vac	-	
Point	ft BTOC	Interval	in.H₂O	fpm	°F	ppm	ft. btoc	Time Summa Canis		in. H ₂ O	Co	mments
							Shallo	w Wells				
AOC65-VEW19	26	5-25	_				10.37		-			
AOC65-VEW20	27	10-25					18.66					
AOC65-VEW21	27	12-27					13.62		-			
AOC65-VEW23	21	6-21					10.80	9 66	-	a 18		
AOC65-VEW25	21	6-21					18.30	275	-			
AOC65-VEW27	21	6-21					10.17		-			
AOC65-INTAKE-SW							Deep	Welle				
				T		1	1	vvens				
AOC65-VEW13	41	15-40					38.06		1			
AOC65-VEW14	61	40-60					60.48					
AOC65-VEW17	52.5	22-52					51.65		-			
AOC65-VEW22	51	25-50					50.07					· · · · · · · · · · · · · · · · · · ·
AOC65-VEW24	50	25-50					DRY					
AOC65-VEW26	50	25-50				ļ	46.19		-			
AOC65-INTAKE-DW												
OC65-EXHAUST			+				><					
	Cuntari			L-161 - L-1	-4-1	Pre Adjust	ment	Final fata	Iva	Vacuum F	Relief Valve	
Blower	System	Blowe	r On	Initial I Press		A	djusted Pressure	Pressur		Check	Lube	Hours Meter
Information	Shallow	Y				(adjust to 75" H ₂ C	y Y/N	43		(3/N	(X) N	13/2.6
	Deep	Y /	N)			(adjust to 75" H ₃ C) Y/N			(Y)/ N	(Y)N	0
Moisture	System	Empt		Xfered	(last char	ilter Change nged 8/2011)	Dbservations/I	votes: off Jpin arr	ival de	ue to pour	ver line work	c lusk week
Separator Information	Shallow	(V)	N	2.0		/(N)	-Deep 50	la off				
	Deep	Y	(VI	off	Y	/(N)	- veep Si	NE UIT				

- system turned back on @ 1030

				188874	th + C						, ,	(Other Climiun Mill
						d Readings				Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytic Time	al Sample Collected Summa Canister #	Vac in. H ₂ O		C	comments
							Shallo	w Wells					
AOC65-VEW19	26	5-25	40.9	622	76.4	12.0	18.75	1102	3127	. 32.8			
AOC65-VEW20	27	10-25	-41.3	601	78.0	Ò	23.72	1108	37412	- 4.8			
AOC65-VEW21	27	12-27	403	427	79.3	Ò	23.03	1112	35547	- 37.8	Sample	f.me	1355
AOC65-VEW23	21	6-21	40,5	541	793	0	19.98	1115	12636	. 39.5			
AOC65-VEW25	21	6-21	40.3	590	80.2	2.3	14.70	1121	3690	. 39.2	3/75	9	
AOC65-VEW27	21	6-21	40.5	622	78.9	3.8	17,50	1126	37674	. 39.2			
AOC65-INTAKE-SW		**	40.2	829	40.7	7.3	Danie	1057 Wells	34 65				
								vvens					
AOC65-VEW13	41	15-40	-				39,29			25,2			
AOC65-VEW14	61	40-60	-				60,48			.0			
AOC65-VEW17	52.5	22-52	-	_			51,54			28.3		1	
AOC65-VEW22	51	25-50	-				50.21			0.1	~	X	
AOC65-VEW24	50	25-50	-				dry			- 0.1		1	
AOC65-VEW26	50	25-50					47.28			-0			
AOC65-INTAKE-DW			-				><						
AOC65-EXHAUST			+ 0	772	1448	1.1	><	1031					
	System		-	Initial	Intake	Pre Adjustr			Final Intake	Va	cuum Relief \	/alve	
Blower	System	Blowe		Pres	sure	Adj	usted Pressur	e	Pressure	Chec		Lube	Hours Meter
Information	Shallow	(<u>(</u>))		- 4	0	(adjust to 75" H ₂ O)				(Y)		Q/N	1499.7
Moisture	System System	Y /(Amt		(adjust to 75" H ₂ O)	Y / N Observations	/Notes:		(Y)/	N	(A), N	0
Separator	Shallow	Empt		Xfered		ged 8/2011)							
Information	Deep	YA				(N)							

Date/Time : 4		100		Operators:		ellhead Read	ings				Quarterly Oth	ner) <u>semi annu</u> a
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. BTOC	Time	Summa Canister #		Comn	ments
AOC65-VEW1	10	2.5 - 10.5	-				Subslab Well	15				
AOC65-VEW2 AOC65-VEW3	10 9.8	2.5 - 10				and the second				OFFLINE	Total Control W. Now.	
AOC65-VEVV4	6.7	2.5 - 6.6								OFFLINE		
AOC65-VEW5 AOC65-VEW6	9.1	2.5 - 9								OFFLINE OFFLINE		
AOC65-VEW7 AOC65-VEW8	5.25 9.7	2.5 - 5 2.5 - 9.7								OFFLINE		
AOC65-VEW9	9.75	2.5 - 9.75					\gg					
AOC65-VEVV11	5.4 9.33	2.5 - 5.1								OFFLINE		
AOC65-VEW12	9.7	2.5 - 9.4	- Ilila	12001	7~7	_	>	140-	171			
B90-INTAKE-SS			44.0	12201	78.7	0	Exterior Well	1035	1706			
				Man	ifold Reading		Exterior West	5		Wellhead		
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac (in. H₂O)	Flow fpm	Temp °F	VOC ppm	Water Level ft. BTOC	Analyt Time	ical Sample Collected Summa Canister #	Vac (in. H₂O)		Comments
AOC65-VEW15	13	5-12	-12.8	230	76.9	\$4.9	11.12	0441	37661	. 0		
AOC65-VEW16	41	15-40	- 12.8	246	77.1	6	36.85	0435	1354	-3.3		
AOC65-VEW18	56	15.5-55.5	12.7	254	76.2	0	49.65	6925	33443	-6.6	sample lin	1400
AOC65-VEW28A	120	80-120	13.6	229	75	2.5	114.18	0972		- 1.1		· _
AOC65-VEW28B	179	139.3-179.3	13.5	250	76.2	0	149.69	0929	1042	40		
AOC65-VEW29	40	5-39.5	- 11.5	773	77.5	6	37.88	1017	34654	9.8		
AOC65-VEW30	25	5-24.5	- 11,4	221	76.8	118	24.32	1010	34/11	13.2		
AOC65-VEW31	40	5-39.5	-11.1	3136	75.9	4.3	30.02	0951	2043	- 4.8		
AOC65-VEW32	25	5-24.5	12.2	224	76.0	11.2	20.36	0957	36438	-11,6		
AOC65-VEW33	25	5-24.5	-11.9	283	74.2	4.8	24.32	1004	12027	-19.9		
B90-INTAKE-EX			15.5	4917	77.1	2.2	$\geq \leq$	1024	35630			
B90-EXHAUST			+ 28.1	715,000	164.8	0	$\geq \leq$	1038			4	
AOC65-POSTGAC			+ 16	6811	108,6	0	><	1027				
	System					Adjustment			Final Intake	Vacuum F	Relief Valve	-
Blower			wer On	Intake Press	sure Gauge		djusted Pressu	ire	Pressure	Check	Lube	Hours Meter
Information	Subslab		/ N	56		(adjust to 65" H ₂ 0	×			M/N	()/N	10585.9
	Exterior	Y)/ N	33		(adjust to 50" H ₂ 0		(Notes:		<u>(Y)</u> / N	(Y) N	6300.1
Moisture Separator	System Emptied	Amount Transferred (gals)		ilter Change	Observations	ANOLES:						
Information	Subslab	Y	(N)			m]				-	
	Exterior		N		Y							

AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW	O fpm °F ppm ft. btoc SI 9. 9.7		Vac in. H ₂ O		
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-VEW17 52.5 22-52 - AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW24 50 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-EXHAUST System Blower Information Shallow Y/N	9. 9.7		in. H ₂ O		
AOC65-VEW21 27 10-25 - AOC65-VEW21 27 12-27 - AOC65-VEW23 21 6-21 - AOC65-VEW25 21 6-21 - AOC65-VEW27 21 6-21 - AOC65-VEW27 21 6-21 - AOC65-VEW13 41 15-40 - AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-EXHAUST + Blower Information Shallow Y/N	9.97	nallow vvens		Comments	
OC65-VEW20 27 10-25 - OC65-VEW21 27 12-27 - OC65-VEW23 21 6-21 - OC65-VEW25 21 6-21 - OC65-VEW27 21 6-21 - OC65-VEW27 21 6-21 - OC65-VEW13 41 15-40 - OC65-VEW14 61 40-60 - OC65-VEW17 52.5 22-52 - OC65-VEW22 51 25-50 - OC65-VEW24 50 25-50 - OC65-VEW26 50 25-50 - OC65-VEW26 50 25-50 - OC65-VEW26 50 25-50 - OC65-EXHAUST + Blower Information Shallow Y/N					
AOC65-VEW21 27 12-27 - AOC65-VEW23 21 6-21 - AOC65-VEW25 21 6-21 - AOC65-VEW27 21 6-21 - AOC65-INTAKE-SW - AOC65-VEW13 41 15-40 - AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - AOC65-EXHAUST System Blower On Shallow Y/N	1.019		- purged, W	1= 25.09	
AOC65-VEW25 21 6-21 - AOC65-VEW27 21 6-21 - AOC65-VEW27 21 6-21 - AOC65-INTAKE-SW - AOC65-VEW13 41 15-40 - AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-EXHAUST System Blower On Shallow Y/N	18.12	-	- purged, WL		
AOC65-VEW27 21 6-21 - AOC65-VEW27 21 6-21 - AOC65-INTAKE-SW - AOC65-VEW13 41 15-40 - AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-EXHAUST System Blower Information Shallow Y/N	13.02	L	- purged-WL		
AOC65-VEW27 21 6-21 - AOC65-INTAKE-SW - AOC65-VEW13 41 15-40 - AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - AOC65-EXHAUST + Blower Information Shallow (y) N	10,20	1	purged WL.		
AOC65-INTAKE-SW - AOC65-VEW13 41 15-40 - AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - Blower Information Shallow Y/N	14.92	L	- purged, WL	=20.80	
AOC65-VEW13 41 15-40 - AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW AOC65-EXHAUST + Blower Information Shallow Y/N	9.25		- purged - v	VL = 19.8	
AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - AOC65-EXHAUST + Blower Information Shallow Y/N		San Wells			
AOC65-VEW14 61 40-60 - AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - AOC65-EXHAUST + Blower Information Shallow Y/N		Deep Wells			
AOC65-VEW17 52.5 22-52 - AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - AOC65-EXHAUST + Blower Information Shallow Y/N	37.99	5	- purged, wi	= 39.9	
AOC65-VEW22 51 25-50 - AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - AOC65-EXHAUST + Blower Information Shallow Y/N	60.49	6			
AOC65-VEW24 50 25-50 - AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - AOC65-EXHAUST + Blower Information Shallow Y/N	51.8	3	- no purge	·	
AOC65-VEW26 50 25-50 - AOC65-INTAKE-DW - AOC65-EXHAUST + Blower Information Shallow (Y) N	dry		-		
AOC65-INTAKE-DW - AOC65-EXHAUST + Blower Information Shallow Y/N	dry				
AOC65-EXHAUST + Blower Information Shallow (Y) N	45.19	8	- Parged	N = 49.08	
Blower Blower On Shallow Y) N					
Blower On Shallow Y/N					
Blower Blower On Shallow Y/N	Pre Adjustment	Final Intake	Vacuum Relief Valve		
Shallow Y// N	Pressure Adjusted Pres	Pressure Pressure	Check Lube	Hours Meter	
Deep Y (N)	(adjust to 75" H ₂ O) Y / N	45	Y (N) Y (N		
0	(adjust to 75" H ₂ O) Y / N Amt Canister Filter Change Observation	ions/Notes:	Y (N) Y (N)	
Moisture System Emptied	and the second s	red (last changed 8/2011)			
Separator Shallow O / N	off Y(N)	in har	1 mond) lorned while	1700	

Date/Time : 7	12/12			Operators:	2-(1-0-1-)	- Bouch		M	onitoring Event: B	iweekly / Monthly	/ Quarterly Oth	ed Semi-annual
Monitoring	Total Depth	Screened	Vac	Flow		Vellhead Read	Water Level	Analyt	ical Sample Collected			
Point	ft. BTOC	Interval	in.H₂O	fpm	Temp °F	ppm	ft. BTOC	Time	Summa Caniste	r#	Comn	nents
OCCE VEWA	1 40 1	2.5 - 10.5 -					Subslab Wells					
OC65-VEW1 OC65-VEW2	10	2.5 - 10.5 -						- 01		ESTATE DESCRIPTION		
OC65-VEW3	9.8	2.5 - 9.8							The state of the state of	OFFLINE OFFLINE	STANS THE RESERVE	
AOC65-VEW4 AOC65-VEW5	6.7 9.1	2.5 - 6.6 - 2.5 - 9 -								OFFLINE		
AOC65-VEW6	5	2.5 - 5 -								OFFLINE		
AOC65-VEW7 AOC65-VEW8	5.25 9.7	2.5 - 5 - 2.5 - 9.7 -								OFFLINE		
AOC65-VEW9	9.75	2.5 - 9.75 -										
AOC65-VEW10 AOC65-VEW11	5.4 9.33	2.5 - 5.1 - 2.5 - 9.3 -	THE SHAPE							OFFLINE		
AOC65-VEW12	9.7	2.5 - 9.4 -		1						TABLE DE LA CONTRACTOR DE		
390-INTAKE-SS							><					-
							Exterior Wells	,		1		
Monitoring	Total Depth	Screened	Vac	Flow	ifold Reading Temp	VOC	Water Level	Analyt	ical Sample Collected	Wellhead	-	
Monitoring Point	ft. BTOC	Interval	(in. H ₂ O)	fpm	°F	ррт	ft. BTOC	Time	Summa Caniste			Comments
AOC65-VEW15	13	5-12					7.29		*	-	surged, WL	= 11.4
AOC65-VEW16	41	15-40					30.04		1	-	overed. WE	= 39.94
AOC65-VEW18	56	15.5-55.5					46.43				, , ,	1= 53,02
AOC65-VEW28A	120	80-120					114.12			-	no ovrne	
AOC65-VEW28B	179	139.3-179.3 -					149.82			_	no purge	
AOC65-VEW29	40	5-39.5					30.68			-	purged w	L= 39.08
AOC65-VEW30	25	5-24.5					24.32			-	no purse	
AOC65-VEW31	40	5-39.5					30.25			-	purged, v	VL= 36.78
AOC65-VEW32	25	5-24.5					8.84					= 22.64
AOC65-VEW33	25	5-24.5					24.32			-	no purge	
B90-INTAKE-EX						-						·
B90-EXHAUST			·				$\geq \leq$					
AOC65-POSTGAC							\sim					
	System			Intell Di		Adjustment	diveted Dress		Final Intake	Vacuum F	Relief Valve	
Blower Information			ver On	Intake Press	sure Gauge	(adjust to 65" H	djusted Pressur	-	Pressure (04)	Check	Lube	Hours Meter
mormation	Subslab		/ N Y N						35	Y (N)	Y (N)	
	Exterior	(4	J N	Amount		(adjust to 50" H	Observations/N	lotes:	לל	1,(1)	1 /(1)	0.0860
Moisture Separator	System	Em	ptied	Transferred (gals)		ilter Change ged 8/2011)		hut dow	n to puge,	wells, turned	buck on CI	500
Information	Subslab (Y) / N	/ N	0	Y	(N)							
	Exterior		/ N	0.2		N						

						Id Reading				Wellhead		
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytica Time	Summa Canister #	Vac in. H₂O	Con	nments
							Shallov	w Wells				
AOC65-VEW19	26	5-25								-		
ACCCE VEIMO	0.7	40.05					L.	1				
AOC65-VEW20	27	10-25								-		
AOC65-VEW21	27	12-27	_							-		
AOC65-VEW23	21	6-21								-		
10005 VEW05	0.4	0.04								-		
AOC65-VEW25	21	6-21								-		
AOC65-VEW27	21	6-21	_							_		
AOC65-INTAKE-SW			-									
						1	Deep	Wells				
AOC65-VEW13	41	15-40	-							_		
AOC65-VEW14	61	40-60								-		
AOC65-VEW17	52.5	22-52	_					ì		_		
10000 121111	02.0											
AOC65-VEW22	51	25-50	-							-		
AOC65-VEW24	50	25-50										
10003-7117724	30	23-30										
AOC65-VEW26	50	25-50	-							_		
AOC65-INTAKE-DW										Constitution of the last		
OCOS-INTARE-DVV												
AOC65-EXHAUST			+									
	System			Initial	Intoko	Pre Adjust			Final Intake	Vacuu	m Relief Valve	
Blower	System	Blowe	er On	Initial Pres		Ad	ljusted Pressure	•	Pressure	Check	_Lube	Hours Meter
Information	Shallow	(Y) 1,	N		1	(adjust to 75" H ₂ O	Y (N)		41	(Ŷ/ N	() / N	1813,8
	Deep	Y	N			(adjust to 75" H₂C) Y/N			(7) N	(Ÿ) / N	Q
Mointura	System	_	No. of	Amt		ster Filter	Observations/	Notes:				
Moisture Separator	Shallow	Empt		Xfered		nged 8/2011)	╡					
Information	Silaliow		N (N)			/(N)	4					

Date/Time : 4:10	11/2/1	300	1	Operators:	S.Elliut			Мо	onitoring Event: Biwe	ekly Monthly /	Quarterly / Oth	er
						Vellhead Read						
	Total Depth	Screened	Vac in.H ₂ O	Flow	Temp °F	VOC	Water Level	Analyti Time	cal Sample Collected Summa Canister #		Comn	nante
Point	ft. BTOC	Interval	III.H 2 U	fpm		ppm	Subslab Wells		Summa Camster #		Comm	Terits
AOC65-VEW1	10	2.5 - 10.5 -					Subside Wells					
AOC65-VEW2	10	2.5 - 10 -										
AOC85-VEW3 AOC85-VEW4	9.8	2.5 - 9.8 - 2.5 - 6.6 -								OFFLINE		
AOC85-VEW5	9.1	2.5 - 9								OFFLINE		
AOC65-VEW6	5	2.5 - 5 -								OFFLINE		
AOC65-VEW7	5.25	2,5 - 5							STATE OF STATE OF	OFFLINE		
AOC65-VEW8 AOC65-VEW9	9.7 9.75	2.5 - 9.7 - 2.5 - 9.75 -										
AOC65-VEW10	5.4	2.5 - 5.1 -										
40065-VEW11	9,33	2.5 - 9.3		19 m 3m 2m						OFFLINE		
AOC65-VEW12	9.7	2.5 - 9.4 -					>					
390-INTAKE-SS		-										
							Exterior Wells			Travelle - a F		
Mamita sin -	Total Daniel	Caracasal	Ver		ifold Readin	VOC	Water Level	Anal-4	cal Sample Collected	Wellhead Vac		
Monitoring Point	Total Depth ft. BTOC	Screened Interval	Vac (in. H₂O)	Flow fpm	Temp °F	ppm	ft. BTOC	Time	Summa Canister #	(in. H ₂ O)		Comments
Olik	10.0100	micor van	1	· ipas		FF						- The state of the
AOC65-VE <u>W</u> 15	13	5-12 -								-		
A C C C C V (T LA V C C	44	45.40										
AOC65-VE W 16	41	15-40 -					 			-		
AOC65-VE W 18	56	15.5-55.5					1			-		
AOC65-VE W 28A	120	80-120 -	·							-		
AOC65-VE W 28B	179	139.3-179.3					1 1			_		
A0000-VL • V20B	170	100.0 110.0										
AOC65-VE W 29	40	5-39.5					-			-	· _	
A O C G E N E M 20	25	5-24.5					1					
AOC65-VE W 30	20	5-24.5				-		_				
AOC65-VEW31	40	5-39.5								-	<u> </u>	
		5015					1					
AOC65-VEW32	25	5-24.5		-			+			-		
AOC65-VEW33	25	5-24.5					1 1			-		
B90-INTAKE-EX						-						
B90-EXHAUST			+	l 1			>>					
AOC65-POSTGAC			+		Des	Adimeteran				Vacuum Bal	inf Value	
	System					Adjustment			Final Intake	Vacuum Rel	let valve	\dashv
Blower	Cycle	Blov	wer On	Intake Pres	sure Gauge	A	djusted Pressur	e	Pressure	Check	Lube	Hours Meter
Information	Subslab		/(N)			(adjust to 65" H ₂ 0	O) Y (N)		39 44 65	(V) N	() N	10606.8
			N				<u> </u>		D2831	(Ŷ)/ N	M/N	
1	Exterior	Y	(N)			(adjust to 50" H ₂ 0			D28 31	()/ N	(1)/ N	6320.9
				Amount	Canister F	ilter Change	Observations/I	votes:				
Moisture	System	Em	ptied	Transferred (gals)	Canaster F	inter Change						
Separator				ludisi	(last chan	ged 8/2011)						
Information	Subslab	0) / N	8		N						
				,		Q	1					
	Exterior	1 (3)	/ N	8	V	(N)						

Date/Time :5	8.12/	0900		Operators:	Elliott	+ Bar			onitoring Event: E	Biweekly Monthly	Quarterly / Oth	er
						Vellhead Read						
Monitoring	Total Depth		Vac	Flow	Temp °F	voc	Water Level	Analyti Time	ical Sample Collected	- 4		4-
Point	ft. BTOC	Interval	in.H₂O	fpm	<i>F</i>	ρpm	ft. BTOC		Summa Caniste	er#	Comm	ents
OC65-VEW1	10	2.5 - 10.5	I			1	Subslab Wel	<u>ıs</u>	1			
OC65-VEW2	10	2.5 - 10.5	-					,-,				
OC65-VEW3	9.8	25-98			700					OFFLINE		
OC65-VEW4	6.7	25-66			STATE OF THE PARTY OF	The state of the state of				OFFLINE		
OC85-VEW5	9.1	25-9				198000			M-1101	OFFLINE		
OC65-VEW6	5	25-5	San Carlo							OFFLINE		
OC65-VEW8	5.25	25-5					100			OFFLINE		The state of the s
OC65-VEW9	9.7 9.75	2.5 - 9.7 2.5 - 9.75	-						_			
OC65-VEW10	5.4	2.5 - 5.1	-									
QC65-VEW11	9.33	25-93	-			0		~		OFFLINE	The same of the sa	
OC65-VEW12	9.7	2.5 - 9.4	-		-							
90-INTAKE-SS			- 44.1	5559	69.4	Ò		0450				
90-IN IANE-33			- 94.1	2221	OF IT I		Exterior Mol					
	_			Mai	nifold Readin	ue .	Exterior Well	<u> </u>		Wellhead	_	
onitoring	Total Depth	Screened	Vac	Flow		voc voc	Water Level	Anal-4	ical Sample Collected	Venneau		
oint	ft. BTOC	Interval	(in. H 2 O)	fpm	Temp °F	ppm	ft. BTOC	Time	Summa Caniste			Comments
	.2 5,00								oumma camote			Johnsteins
OC65-VEW15	13	5-12	- 8,5	80	68.3	3.3	9.78	0932		L U.3		
				-	_							
OC65-VEW16	41	15-40	-8,7	89	68.5	3.1	30.09	0930		- 0.[
			- 8.5	47	1.001	A 1	52,23	0427		0.1		
OC65-VEW18	56	15.5-55.5	- 70,7	17	69.4	6.1	ファルン	U7#7				
OCCE VENIONA	400	80.400	- 7.9	[W	73.2	0,2	150.41	0425		- 8.5		
OC65-VEW28A	120	80-120								- 0,5		
OC65-VEW28B	179	139.3-179.3	-8,2	104	68,7	2.5	146.28	0921		.0.1		
0000 12,1200	1,0	100.0-110.0										
OC65-VEW29	40	5-39.5	.7.8	664	72.3	1,0	29.99	0939		- 8,0		
			7.9	79		16.0	20144	_				
OC65-VEW30	25	5-24.5	- 7,9	1"	69.7	[6,0	24.38	0940		- 8.3		
0005 VEN404	40	5 00 5	7.9	1250	75.1	2.7	30.08	6435		3.8		
OC65-VEW31	40	5-39.5		447)0		7		0471		- 5,0		
OC65-VEW32	25	5-24.5	- 7.9	17	69.7	41.1	15.98	0936		- 8.1		
(OOOD-VLVV02	20	0-24.0		_								_
OC65-VEW33	25	5-24.5	8.2	163	70.	4.4_	24.34	0937		- 8.5		
				-						4 A		
90-INTAKE-EX			- 12.1	3905	73.5	1.7		0943				
						·						
90-EXHAUST			+				$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ $	- 4				
OC65-POSTGAC			+ /0.6	6187	93.7	0	\rightarrow	0947				
			. ,			Adjustment				Vacuum Re	lief Valve	
	System			Intoles Dec			diveted Descrip		Final Intake	- addam Ne		1
Blower		Blo	wer Ол	Intake Pres	sure Gauge	A	djusted Pressu	ite	Pressure	Check	Lube	Hours Meter
Information	Subslab	6)/ N	(20)	<u>-</u>	(adjust to 65" H ₂ (o) Y //N		(00)	(9/N	(Y)/N	11099.4
												
	Exterior	(Y)/ N	30		(adjust to 50" H ₂ 0	o) Y /(N)		38	(Y) N	(A) \ (A)	6812.8
		_		Amount			Observations	/Notes:		-		
	System	E-	nptied	Transferred	Canister F	ilter Change						
Moisture	- yatem		ptieu	(qals)								
Separator					(last chan	ged 8/2011)	J					
Information	Subslab) / N	6	~	(Ñ)						
				X		\wedge	1					
	Exterior	L (Y	γN		Y	<u>(n)</u>						
H ₂ O: inches of water			fpm: feet per min	ute		ppm: parts per m	nillion		· ·	VRV; vacuum re	lef valve	psi; pounds per square inch

AOC65-VEW14 61 40-60 - 61 40-60 - 70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Manifol	d Readings				Wellhead			
Shallow Wells Shallow Well						Temp								Comments
NOC65-VEW20 27 10-25 39.9 872 48.5 0 93.3 10.0 10.5 36.5 NOC65-VEW21 27 12-27 40.2 93.4 68.3 1.2 11.4 10.0 10.0 NOC65-VEW23 21 6-21 30.3 478 48.7 0 18.8 10.0 39.4 NOC65-VEW25 21 6-21 40.4 875 49.3 3.0 94.4 NOC65-VEW27 21 6-21 39.8 40.7 40.5 10.0 39.1 NOC65-VEW27 21 6-21 39.8 40.7 40.5 10.0 39.1 NOC65-VEW27 21 6-21 39.8 40.7 40.5 10.0 NOC65-VEW18 41 15-40 97.8 10.0 NOC65-VEW19 41 15-40 97.8 10.0 NOC65-VEW10 52.5 22.52 51.0 NOC65-VEW17 52.5 22.52 51.0 NOC65-VEW24 50 25-50 0 0.7 NOC65-VEW26 50 25-50 0 0.7 NOC65-VEW27 50 25-50 0 0.7 NOC65-VEW28 50 25-50 0 0.7 NOC65-VEW26 50 25-50 0 0.7 NOC65-VEW27 50 25-50 0 0.7 NOC65-VEW28 50 25-50 0 0.7 NOC65-VEW26 50 25-50 0 0.7 NOC65-VEW27 50 0.7 NOC65-VEW28 50 25-50 0 0.7 NOC65-VEW29 50 25-50 0 0.7 NOC65-VEW29 50 25-50 0 0.7 NOC65-VEW26 50 25-50 0 0.7 NOC65-VEW26 50 25-50 0.7 NOC65-VEW26 50 25-50 0 0.7 NOC65-VEW26 50 25-50 0.7 NOC	- Jine	RBJOC	intervar	.,2	.,,,,,,		ppm							
ACC65-VEW23 21 6-21 - 30.3	40C65-VEW19	26	5-25	40.2	632	70.3	2.8	8.2	1001		-37.6			
ACC65-VEW23 21 6-21 - 30.3 478 48.7 0 18.8 10.04 39.4 ACC65-VEW25 21 6-21 - 40.4 875 (49.3 3.0 34.4 10.06 3.91.1 ACC65-VEW27 21 6-21 - 39.8 44.7 (49.6 1.4 10.5 1.7 0.4 10.0 10.0 39.1 ACC65-VEW13 41 15-40 - 90.5 1.7 0.7 10.0 10.1 10.1 70.3 1.7 0.7 10.0 10.1 10.1 70.3 1.7 0.7 10.1 10.1 10.1 10.1 10.1 10.1 1	AOC65-VEW20	27	10-25	39.8	872	68.5	0	23,24	1003		1,3			
ACC65-VEW25 21 8-21 40.4 875 69.4 3.0 71.4 1008 39.1 ACC65-VEW27 21 8-21 39.6 60.7 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1	AOC65-VEW21	27	12-27	- 40,2	934	68.3	1.2	11.6	1005	-	-36.5			
ACC65-VEW27 21 6-21 39.5 UU7 (4.0 1.9 10.5) 1010 .39.1	4OC65-V <u>E</u> W23	21	6-21	<u> 3</u> 0.2	678	68.7	ð		1006		39,4			
ACC65-VEW13	AOC65-VEW25	21	6-21	- 40.4		69.2	3.0	-	1008		39.1			
ACC65-VEW14	AOC65-VEW27	21	6-21	<u>. 39.8</u>	lele 7	64.6		62,0)			39.1			
ACC65-VEW13	AOC65-INTAKE-SW	1811	44.44	_40.6	1161	70.3	1.7	Deer						
AOC65-VEW14 61 40-60 -									-		~ /			
AOC65-VEW17 52.5 22-52 - 51.U5 - 0.1 AOC65-VEW22 51 25-50 - 0.7 AOC65-VEW24 50 25-50 - 0.7 AOC65-VEW26 50 25-50 - 0.7 AOC65-INTAKE-DW AOC65-EXHAUST Blower Information Blower On Pressure Adjusted Pressure Pressure Shallow (2) / N (2	AOC65-VEW13	41	15-40					36 . 6g			-0:51			
ACC65-VEW22 51 25-50 - 0/7	10C <u>65-VE</u> W14	61	40-60	-				,	ĺ				A	
AOC65-VEW26 50 25-50 -	AOC <u>65-VEW17</u>	52.5	22-52	-								-(-)		<u> </u>
AOC65-VEW26 50 25-50 - 49.3 19.4 2.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0 2.0 4.0	AOC65-VEW22	51	25-50								-			
ACC65-EXHAUST ACC65-EXHAUST	AOC65-VEW24	50_	25-50								+		_	
ACC65-EXHAUST Pre Adjustment Pre Ad	AOC65-VEW26	50	25-50	-	-			44.2			-0.3			
Blower Information Shallow System Blower On Pressure Blower On Pressure Adjusted Pressure Adjusted Pressure Pressure Adjusted Pressure Pressure Check Lube Hours Meter Pressure Shallow Y / N (adjust to 75" H ₂ O) Y / N (adjust to 75" H ₂ O) Y / N Moisture Separator Shallow Shallow Y / N System Shallow Shallow Y / N Y / N Y / N Observations/Notes:	AOC65-INTAKE-DW													
Blower On Blower On Pressure Adjusted Pressure Final Intake Pressure Check Lube Hours Meter Shallow () / N () (saljust to 75° H ₂ O) Y (N) (Y) N	AOC65-EXHAUST			+ 0	923	121.9	L	$\geq \leq$				D.O.	Mahas	
Information	Blower	System	Blowe	er On	ì	Intake	Γ'		re	Pressure	Check		Lube	Hours Met
Moisture System Emptied Xfered (last changed 8/2011) Separator Shallow (Y) / N (Y) / (N)	Information	Shallow					(adjust to 75" H ₂ O)	Y(N)		40				2338.0
Moisture System Emptied Xfered (last changed 8/2011) Separator Shallow (Ŷ) / N (Ŷ) Y / (N)		Deep	Υ /	(N)	Amt	Capie			/Notes		(Y)/ N		(Y)/ N	0
Information Standard (1) N						(last char	ged 8/2011)	CD361 48110113	#11ULGS.					
	•				LU_									

Date/Time : 5(17)	12/10	20_	Operator	s:_ <i>El</i>	1.04		-		Monitoring Event:	Biweekly /	Monthly	y / Quarterly / Or	ther VEW purgo
					Manifol	d Readings	3			Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytic Time	al Sample Collected Summa Canister#	Vac in. H₂O		Col	mments
							Shallo	w Wells					
AOC65-VEW19	26	5-25	-				9.98			-	cwg	od, we = 25	5.77
OC65-VEW20	27	10-25	-				23.21			-	DUYGI	ed, $WL = 2$	5.33
OC65-VEW21	27	12-27	-				12.5			-		d, WL= &	
OC65-VEW23	21	6-21	-				18.51			-	pury	ed, WL= a	10.66
OC65-VEW25	21	6-21	_				18.42			_	purge	d, WL=21.	(g)
OC65-VEW27	21	6-21	-				9.62			-	avye	d, WL=2	10.77
AOC65-INTAKE-SW			-					147.17					
		1					T	Wells					
OC65-VEW13	41	15-40	-				38.57			-	purg	ed, WL = 4	0,11
OC65-VEW14	61	40-60	-				60.52			-	no p	vye	
AOC65-VEW17	52.5	22-52	-				51.73			-	no	nurge	
OC65-VEW22	51	25-50	_				50.50			_		ourge	
AOC65-VEW24	50	25-50	-				dry		14	-	no	purge	
AOC65-VEW26	50	25-50					49.14			_	no	purge	
AOC65-INTAKE-DW			-										
OC65-EXHAUST			+										
						Pre Adjust	ment		Final Intake	Va	cuum Re	elief Valve	
Blower	System	Blow		Initial Pres	Intake sure		ljusted Pressur	e .	Pressure	Che		Lube	Hours Meter
Information	Shallow	Υ /				(adjust to 75" H ₂ C				Y /		Y / N Y / N	
Moieture	Deep System	Y /		Amt		(adjust to 75" H ₂ C ter Filter nged 8/2011)	April 1980	/Notes					1 Class
Moisture Separator	Shallow	Emp		Xfered		/ N	System	shut	down for 1	15W Pu	irying	, VIII re	start after
Information	Deep	Y				/ N	when a	done	today				
n.H ₂ O: inches of water		fpm: feet per	minute		ppm: parts	per million			VRV: vacuu	m relief valve		psi: pounds per square	inch

ate/Time : 5 · 1	7.12/	0745	<u> </u>	Operators:	Ellott			Мо	nitoring Event: Bi	weekly / Monthly	/ Quarterly Other) VEW purge
						ellhead Read						
lonitoring	Total Depth		Vac	Flow	Temp	voc	Water Level	Analyti Time	cal Sample Collected		Comme	nte
oint	ft. BTOC	Interval	in.H ₂ O	fpm	°F	ppm	ft. BTOC		Summa Canister	#	Comme	ins
AAAA WEWW	40	05 405					Subslab Wells					
OC65-VEW1 OC65-VEW2	10 10	2.5 - 10.5 2.5 - 10	-									
0C65-VEW3	9.8	25-98								OFFLINE		
OC65-VEW4	6.7	25-66								OFFLINE		
OC65-VEW5	9.1	2.5 - 9								OFFLINE		
OC65-VEW6	5	2.5 - 5								OFFLINE		
OC65-VEW7	5.25	2.5 - 5	•							OFFLINE		
OC65-VEW8	9.7	2.5 - 9.7										
OC65-VEW9 OC65-VEW10	9.75 5.4	2.5 - 9.75 2.5 - 5.1										
OC65-VEW11	9.33	25-93							BURNES CONTRACTOR	OFFLINE		
OC65-VEW12	9.7	2.5 - 9.4	-									
90-INTAKE-SS			-									
					····		Exterior Wells			Wellhead		
					nifold Reading		14/-41			Vac		
onitoring oint	Total Depth ft. BTOC	Screened Interval	Vac (in. H₂O)	Flow fpm	Temp °F	VOC ppm	Water Level	Time	cal Sample Collected Summa Canister		С	omments
***************************************	13	5-12					7.04			_	purged, Wil	= 11.77
OC65-VEW15	13	5-12										- iin ala
OC65-VEW16	41	15-40			2022		30,04				purged, WI	= 40100
OC65-VEW18	56	15.5-55.5	-				46.83			-	purged, WI	= 11.77 = 40,26 = 54.65
OC65-VEW28A	120	80-120	-				114.48				9	
OC65-VEW28B	179	139.3-179.3	-				146.40			-		
OC65-VEW29	40	5-39.5	_				29.57				purged, WL	- 38.98
OC65-VEW30	25	5-24.5	_				24.36			-	no purge	
AOC65-VEW31	40	5-39.5	-				30.73				ourged, w	L= 39.28
OC65-VEW32	25	5-24.5	_				8.42			-	ourged, w	L= 23.01
OC65-VEW33	25	5-24.5	_				24.32	W		-	no ourge	
90-INTAKE-EX			-								, ,	
90-EXHAUST		MERCH	+									
OC65-POSTGAC			+									
00001 0010110					Pre	Adjustment				Vacuum F	Relief Valve	
Blower	System	Blo	wer On	Intake Pres	sure Gauge		djusted Pressu	·e	Final Intake Pressure	Check	Lube	Hours Meter
Information	Subslab		/ N			(adjust to 65" H ₂	O) Y / N			Y / N	Y / N	
	Exterior		/ N			(adjust to 50" H ₂	O) Y / N			Y / N	Y/N	l
Moisture Separator	System	En	nptied	Amount Transferred (gals)		Iter Change	Observations/	Notes: Shuf done	down for	VEW P.	rging, vill	vestert
Information	Subslab	Y	/ N		Y	/ N	when	clone 1	belief			
	Exterior	l v	' / N	1	V	/ N	I					

Date/Time :	1.12/	1330)	Operators:	Elliott	/E. Rick			nitoring Event: Biweel	kly Monthly	Quarterly / Other	
						ellhead Read						
Monitoring		Screened	Vac	Flow	Temp °F	voc	Water Level	Analyti Time	cal Sample Collected Summa Canister #	_	Comme	nte
Point	ft. BTOC	Interval	in.H₂O	fpm		ppm	ft. BTOC Subslab Wells		Sullilla Gallistei #		Comme	113
OC65-VEW1	10	2.5 - 10.5			-		Substab Wells	2				
OC65-VEW2	10	2.5 - 10	-									
OC65-VEW3	9.8	25-98	•			400				OFFLINE		
OC65-VEW4	6.7	25-66	-							OFFLINE		
OC65-VEW5 OC65-VEW6	9.1 5	25-9 25-5								OFFLINE	A Resident Comment of the Comment of	
OC65-VEW7	5 25	2.5 - 5								OFFLINE		
OC65-VEW8	9.7	2.5 - 9.7	-							-		
OC65-VEW9	9.75	2.5 - 9.75	-									
OC65-VEW10 OC65-VEW11	5.4 9.33	2.5 - 5.1 2.5 - 9.3	-							OFFLINE		
OC65-VEW12	9.7	2.5 - 9.4	-	2 (40)								
STATE OF THE PROPERTY OF THE P		147-140	- 41.3	715,000	100.5	O						
90-INTAKE-SS			- 4117	211,000	10013		Exterior Wells					
				Mar	nifold Reading	75	Exterior trent			Wellhead		
lonitoring	Total Depth	Screened	Vac	Flow	Temp	voc	Water Level	Analyti	cal Sample Collected	Vac		
oint	ft. BTOC	Interval	(in. H 2 O)	fpm	°F	ppm	ft. BTOC	Time	Summa Canister #	(in. H ₂ O)	C	omments
OC65-VEW15	13	5-12	8.4	96	99.1	0	7.39			-0.1		
OC65-VEW16	41	15-40	. 8.5	107	97.0	0	30,04			- 0		
OC65-VEW18	56	15.5-55.5	- 8.5	105	95.8	0	51.47			-0.2		
OC65-VEW28A	120	80-120	. 4.2	1519	91.2	D	114.22			- 7.5		
AOC65-VEW28B	179	139.3-179.3	6.8	200	93,7	6	146.67			0,0		
AOC65-VEW29	40	5-39.5	- 7.4	1387	102.7	5	29.87			- 70		
AOC65-VEW30	25	5-24.5	- 7.4	82	105.6	0	24.34			- 7.2		
AOC65-VEW31	40	5-39.5	- 7.4	3814	91.5	0	30.11	*		- 3.0		
AOC65-VEW32	25	5-24.5	- 7.5	102	100.9	0	9.48			-6.8		
AOC65-VEW33	25	5-24.5	- 7.6	458	104.1	0	24.29			-6.8	2 1 000	(1)
90-INTAKE-EX			- 10.8	7213	100.9	4.4						seems to be
390-EXHAUST			+ 29.1	715000	182.3	1.4					cooking be	Her now
OC65-POSTGAC			+ 35	9 300	123.0	0						
			2.2			Adjustment				Vacuum F	telief Valve	
	System			Intaka Pros	sure Gauge	Δ	djusted Pressu	re	Final Intake			11
Blower			wer On			100000			Pressure	Check	Lube	Hours Meter
Information	Subslab	(X) N	-62	_	(adjust to 65" H ₂	(O) Y (U)			√ N	(Q/N	11670.3
	Exterior	7	N	-30		(adjust to 50" H ₂				(Ŷ)/ N	(Y) N	7385.0
Moisture Separator	System	Er	nptied	Amount Transferred (qals)		ilter Change ged 8/2011)	Observations	Notes:				
Information	Subslab	(?)/ N	8	-	/ N]					
	Exterior	-	N	X	(Y) N	1					
n.H ₂ O: inches of water			fpm: feet per min			ppm: parts per n	nillion			VRV: vacuum	relief valve	psi: pounds per square inch

Date/Time : 6.6	12/13	30_	Operator	s: Eli	liot-t o	L E. Ric	e		Monitoring Event:	_	Monthl	y / Quarterly	/ Other	·
						d Readings				Wellhead	IMO:			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp "F	VOC ppm	Water Level ft. btoc	Analytic Time	al Sample Collected Summa Canister #	Vac in. H 2 O			Comm	ents
				.,				w Wells	•					
AOC65-VEW19	26	5-25	-32.9	771	969	17.2	9.15			- 32.6				
OC65-VEW20	27	10-25	-32.7	786	96.7	5.0	24.15			-0.6				
OC65-VEW21	27	12-27	-32.6	847	97.1	0	20.64			- 31.9			Wile a US	
OC65-VEW23	21	6-21	- 32.7	907	94.0	4.7	20.39			- 329	hid	moeds	to flo	'n
OC65-VEW25	21	6-21	-328	797	96.6	7.7	17,76			- 32.4	****			114
OC65-VEW27	21	6-21	4323	751	96.6	75	8.07			_ 32.6				****
OC65-INTAKE-SW			32.9	1204	96.2	10.0		14/2//2						
		<u> </u>					T T	Wells		T				
OC65-VEW13	41	15-40	26.4	5185	92.1	D	39.21			- 1.3				5 S A 644
OC65-VEW14	61	40-60	- 26.4	623	95.8	0	40.51			- 2.4		W		
OC65-VEW17	52.5	22-52	-25,8	2723		0	50.11			- 14.5				
OC65-VEW22	51	25-50	25.7	1722	93.7	Ö	27.83			- 24.Ce				
OC65-VEW24	50	25-50	-25.5	585	94.6	0	dry			-0.3				
OC65-VEW26	50	25-50	-25.6	2036	94.6	0	45.02		91	-22.7				
OC65-INTAKE-DW			- 30.4	9122	89.7	0	><	-						
OC65-EXHAUST			+23	10646	150.2	O	><							
	0			1. 22. 3		Pre Adjustr	ment		Final Intake	Vac	uum R	elief Valve		
Blower	System	Blowe	er On	Pres	Intake sure		justed Pressur	е	Pressure	Chec		Lube		Hours Meter
Information	Shallow	(3/		- 35		(adjust to 75" H ₂ O)				(3/1		Q / N		2922.0
	Deep	8	N	Amt		(adjust to 75" H ₂ O)	Y(N) Observations	/Notes:		(Y)	И	(Y)/ N		2729
Moisture	System	Emp		Xfered	(last char	ter Filter ged 8/2011)	Diservations	MOLES:						
Separator Information	Shallow	(Y)		18	75)/ N								
n.H ₂ O: inches of water	Deep	fpm: feet per		8	ppm: parts i	/ N			VRV: vacuu	m relief valve		psi: pounds per s	square inch	

Date/Time : <u>U/</u>	21/12	12	プレ	Operators:	Elliott			M	onitoring Evept: B	iweekly /)Monthly	Quarterly / Oth	er
						Velihead Read						
Monitoring	Total Depth ft. BTOC		Vac in.H₂O	Flow	Temp °F	voc	Water Level ft_BTOC	Analyti Time	cal Sample Collected Summa Caniste	- 4	Comm	anda.
Point	IL. BIOC	Interval	111.1120	fpm		ppm	Subsiab Wells		Summa Camste	#	Comi	ents
OC65-VEW1	10	2.5 - 10.5	-	1			Subside Wells					
OC65-VEW2	10	2.5 - 10	-									
0065-VEW8 0065-VEW4	9.8 6.7	25-98	-							OFFLINE		
OC65-VEW5	9.1	2.5 - 9	-							OFFLINE		
OC65-VEW6	5	2.5-5						1000		ÖFFLINE		
OC65-VEW7 OC65-VEW8	5.25 9.7	2.5 - 9.7								OFFLINE		
OC65-VEW9	9.75	2.5 - 9.75	-						_			
OC65-VEW10	5.4	2.5 - 5.1		1850								
OC65-VEW11 OC65-VEW12	9.33	2.5 - 9.4	80000							OFFLINE		
	9.7	2.5 - 5.4										
90-INTAKE-SS			-				5-1-1-14(1)					
_				Mai	ifold Reading	ne	Exterior Wells			Wellhead		
onitoring	Total Depth	Screened	Vac	Flow	Temp	VOC	Water Level	Analyti	cal Sample Collected	Vac		
oint	ft. BTOC	Interval	(in. H 20)	fpm	°F	ppm	ft BTOC	Time	Summa Caniste.			Comments
OC65-VEW15	13	5-12	-							-		
OC65-VEW16	41	15-40	-							-		
OC65-VEW18	56	15.5-55.5	_							-		
OC65-VEW28A	120	80-120	_							_		
OC65-VEW28B	179	139.3-179.3	-									
OC65-VEW29	40	5-39,5	-						_			
OC65-VEW30	25	5-24.5	-									
OC65-VEW31	40	5-39.5	-							-		
OC65-VEW32	25	5-24.5	_							-		
OC65-VEW33	25	5-24.5	Ŀ									
90-INTAKE-EX							><					
390-EXHAUST		FU	+									
OC65-POSTGAC		100 AV	+				$\overline{}$					
					Pre	Adjustment	_			Vacuum Re	lief Valve	
	System	Pla	wer On	Intake Pres	sure Gauge	A	djusted Pressur	e	Final Intake Pressure	Check	Lube	Hours Meter
Blower Information				1.5	· -	(adjust to 65" H ₂ 0	- V (M			- A-C		
iniormation	Subslab	<u> </u>) / N	-(eC	<u>, </u>	(adjust to 65" H ₂ 0) T (N)		-(eO	Y/ N	(2) N	[(A-C) 2 4 - 2
	Exterior .	7	/)/ N	_30		(adjust to 50" H ₂ 0			-30	(Ý) N	(Y) N	7745.0
Moisture Separator	System	En	nptied	Amount Transferred (gals)		il ter Change ged 8/2011)	Observations/N	Notes:				
Information	Substab	(Ŷ) / N	8		0]					
	Exterior)/ N	OX.		N						
H₂O: inches of water		$\overline{}$	fpm: feet per min			ppm; parts per m	ilhon			VRV: vacuum re	lief valve	psi; pounds per square inch

Date/Time : ししい	12	1330	Operator	s: Ellic	14		-		Monitoring Event	Biweekiy	Monthly	/ Quarterly / C	Other
					Manifol	id Readings				Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H , O	Flow fpm	Temp	VOC ppm	Water Level ft. btoc	Analytic Time	al Sample Collected Summa Canister #	Vac in. H₂O		C	omments
Form	пвіос	mervar	111.17 20	ipin	•	ppin		w Wells	odming comster #	111.1120			Jimments
								770773					
AOC65-VEW19	26	5-25	_							-			
AOC65-VEW20	27	10-25	_							-			<u>—</u>
AOC65-VEW21	27	12-27	_							-			
AOC65-VEW23	21	6-21	-							-			
AOC65-VEW25	21	6-21	_							-			
AOC65-VEW27	21	6-21	-							-			
AOC65-INTAKE-SW			-					Wells					
						 	Deep	yvens					
AOC65-VEW13	41	15-40	-						==	-			
AOC65-VEW14	61	40-60	_										
AOC65-VEW17	52.5	22-52	-							-			
AOC65-VEW22	51	25-50	_							-			
AOC65-VEW24	50	25-50	-							-			
AOC65-VEW26	50	25-50	-							-			
AOC65-INTAKE-DW			<u>.</u>										
AOC65-EXHAUST			+				><						
	04				1.4.1	Pre Adjust	ment		Final Intake	Va	cuum Rel	ief Valve	
Blower	System	Blowe			Intake sure	Ad	ljusted Pressur	е	Pressure	Çhe	ck	Lube	Hours Meter
Information	Shallow	(Y)/	' N	7	34	(adjust to 75" H ₂ O	, Y(N)		-34	(8)	N	(Ý) / N	3282.0 NA
	Deep	(Y)/			40	(adjust to 75" H _z O	, Y(N)		-40	(4)	N	Ø/ N	632.9 NA
Moisture	System	Emp		Amt Xfered	(last char	ster Filter nged 8/2011)	Observations	Notes:					
Separator Information	Shallow	(Q) /		18		Q							
	Deep	(A)		18		/(N)							
in.H ₂ O; inches of water		fpm: feet per	minute		ppm: parts	per million			VRV: vacuu	ım reflef valve		psi: pounds per squar	re inch

ate/Time : 1 · <u>U</u>	12		- Constant of the Constant of	Operators:		+ Bouch	dia aa	М	onitoring Event:	Biweekly Month	Quarterly / Other	er
onitoring	Total Depth	Screened	Vac	Flow	Temp	Wellhead Read VOC	Water Level	Analyti	cal Sample Collecte	d		
oint	ft. BTOC	Interval	in.H ₂ O	fpm	°F`	ppm	ft. BTOC	Time	Summa Canis	ster#	Comm	ents
C65-VEW1	10	2.5 - 10.5					Subslab Wells					
C65-VEW2	10	2.5 - 10	-					-				
C65-VEW3	9.8	2.5 - 9.8 2.5 - 6.6			1701					OFFLINE		
C65-VEW5	9.1	25-9						THE PARTY	Contract (S)	OFFLINE		
C65-VEW6	5.25	2.5 - 5								OFFLINE		
C65-VEW8	9.7	2.5 - 9.7	-							OTTERVE		
C65-VEW9 C65-VEW10	9.75 5.4	2.5 - 9.75 2.5 - 5.1	- b									
C65-VEW11	9.33	2.5 - 9.3							Colonia Coloni	OFFLINE		
C65-VEW12	9.7	2.5 - 9.4	144	-15 -10	717	10						
D-INTAKE-SS			29.8	>15,000	73.5	1,9	Exterior Wells					
				Mar	ifold Readi	ngs	Exterior vveiis			Wellhead		
nitoring	Total Depth		Vac	Flow	Temp	voc	Water Level		cal Sample Collecte		1	
int	ft. BTOC	Interval	(in. H 2 O)	fpm	°F´	ppm	ft. BTOC	Time	Summa Canis	ter# (in. H ₂ O)		Comments
C65-VEW15	13	5-12	17.4	8424	55.2	4.2	11.0			-0.1		
C65-VEW16	41	15-40	17.1	8019	54.8	4.6	32.13			-0,3		
C65-VEW18	56	15.5-55.5	16.4	217	55.3	1.7	53.10			- 0.2		
C65-VEW28A	120	80-120	17.9	516	55,2	water				- 1.1		
C65-VEW28B	179	139.3-179.3	17.7	370	71.5	1.1				- 3.1		
C65-VEW29	40	5-39.5	14.7	140	55.2	4.8	36.86			- 2.4		
C65-VEW30	25	5-24.5	lle. 2	183	55.2	25.5	24.30			- 16.2		
C65-VEW31	40	5-39.5	15.8	3172	57.9	3.7	30.22			- 4.8		
C65-VEW32	25	5-24.5	15.6	183	55.3	14.3	20.79			- 14.5		
C65-VEW33	25	5-24.5	16.4	210	54.8	3.7	24.38		-	- 16,4		
D-INTAKE-EX			20.3	1919	60.7	5.1				1900		
-EXHAUST			+ 21.0	715,000	139.8	3.2		_		_		
65-POSTGAC			1518	9252	90.4	1.2						
	Cuatam					e Adjustment			Final Intake	Vacuum	Relief Valve	,
Blower	System	Blov	ver On	Intake Press	sure Gauge	A	djusted Pressure	9	Pressure	Check	Lube	Hours Meter
Information	Subslab	0	/ N			(adjust to 65" H ₂	(O)(Y)/ N		10-6,	(Y) N	()/N	8643.6
	Exterior)/ N			(adjust to 50" H ₂	O(Y)N		37.6	(Y)/ N	(B) N	4545.6
Moisture Separator	System		ptied	Amount Transferred (gals)		Filter Change	Observations/N		VG		on 6 when	
Information	Subslab	Υ	/ N			Y / N) ystem	105 10	ted @ 1	. John on	ما المن مايوم	ad, adds ~ 0.1
	Exterior	Y	/ N		Υ	(/ N	+ Glive	access	100112	on bieles ou	Ench melive	J KARS - OIL

* readings taken after wells projed

Date/Time : 1 '6 '	12/1000		Operator	s: Ella	itt t	Bouch			Monitoring Event:	Biweekly 🏌	Monthly / Qua	arterly / O	ther
					Manifol	d Readings	S			Wellhead			
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ♣ ft. btoc	Analytic Time	Summa Canister #	Vac in. H₂O		С	omments
							Shallo	w Wells					
AOC65-VEW19	26	5-25	29.8	311	58.6	12.3	10.31			15.4	purgad	18 90	1 - 25.34
AOC65-VEW20	27	10-25	_31.1	443	59.8	2.2	22.93			- 0.5	purged	2 9	ial 24.7
AOC65-VEW21	27	12-27	. 31.9	615	67.0	3.0	17.08			30.7	purged	ug	41 - 25.05
AOC65-VEW23	21	6-21	- 31.5	1315	66.0	2.9	16.11			- 32.2			
AOC65-VEW25	21	6-21	32.2	501	60.6	24.9	19,95			17.6			
AOC65-VEW27	21	6-21	31.5	611	61,1	20.0	19.68			.17.5			
AOC65-INTAKE-SW			.3/.1	75,000	58.6	11,2		W-W-					
							Deep	Wells		T			
AOC65-VEW13	41	15-40	- <u>30,</u> 3		58,2	5.7	34.3	4		- 1.4			
AOC65-VEW14	61	40-60	-31.5		57,3		51,89		<u>-</u>	- 0,1			
AOC65-VEW17	52.5	22-52		1604	56.60	4.4	51,63			13.6			
AOC65-VEW22	51	25-50	- 30.2	11817			50.33			- 23,8			
AOC65-VEW24	50	25-50	- 30,5		57.3	2.6	Dy		,	_ 0,/			
AOC65-VEW26	50	25-50	- 30.4	0.0	57.0		46.59			- 25.3			
OC65-INTAKE-DW		13712	35.9	4804	- 0	6,2	$\langle \rangle$				2017/01/10/01/02/02/02/02/02/02	WHEN SHOULD HAVE SHOWN THE SHOW	
OC65-EXHAUST	HELLE		. 4.2	10 182	126.8	3,9 Pre Adjustr	ment			Vac	uum Relief Va	lve	
Blower	System	Blowe	r On	Initial Pres	Intake		justed Pressure	9	Final Intake Pressure	Check		Lube	Hours Meter
Information	Shailow	(Y)	N	33		(adjust to 75" H ₂ O)	YIN			(Y) N	-	γ / N	NA
	Deep	(Y)		40		(adjust to 75° H ₂ O				YN	11	/ N	NA NA
Moisture	System	Empt	ied		Caniister F		Observations/		Ll @ 100A				
Separator Information	Shallow	Υ /	N		Y	/ N	Sy stem	18541	ted @ 1000			de 1	add about 0.1" to
"" o' manon	Deep	Y /				/ N	1 - 0 - 0	ac coch	my can 1	la bod on	Dark W	DI house	add about Oil to

Date/Time : 1.)	1.12/	1000		Operators:6	Elliott	+ Lindle	ey	Mo	onitoring Event: Biwe	ekly Monthly	Quarterly / Other	r
	1					/ellhead Read	ings					7
-	Total Depth		Vac	Flow	Temp °F	voc	Water Level		cal Sample Collected		0	
oint	ft. BTOC	Interval	in.H ₂ O	fpm	~F	ppm	ft. BTOC	Time	Summa Canister #		Comm	ents
OOCE VEWA	40	25 105					Subslab Wells	<u> </u>				
OC65-VEW1 OC65-VEW2	10 10	2.5 - 10.5 2.5 - 10										
OC65-VEW3	9.8	2,5 - 9.8								OFFLINE		
OC65-VEW4	67	2.5 - 6.6								OFFLINE		
OC65-VEW5	9.1	25-9								OFFLINE OFFLINE		
AOC65-VEW6 AOC65-VEW7	5 5.25	25-5 25-5	<u> </u>							OFFLINE		
OC65-VEW8	9.7	2.5 - 9.7	-	A CONTRACTOR OF THE PARTY OF TH	A CONTRACTOR OF THE PARTY OF TH						The second second second second second	N. (1)
OC65-VEW9		2.5 - 9.75	-	M.								
OC65-VEW10	5.4	2.5 - 5.1	-	4 15 1						OFFI INF		
OC65-VEW11	9.33	2.5 - 9.3	•							OFFLINE		
AOC65-VEW12	9.7	2.5 - 9.4	- 1/2	2011	(1) (V	_						
390-INTAKE-SS			- 42	3966	82.9	0						
						There	Exterior Wells	<u> </u>				
					ifold Reading	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	T			Wellhead		•
Monitoring	Total Depth		Vac	Flow	Temp °F	VOC	Water Level	Analyti Time	cal Sample Collected Summa Canister #	Vac (in. H ₂ O)		Comments
Point	ft. BTOC	Interval	(in. H₂O)	fpm		ppm	ft. BTOC	rine	Summa Camster #			Johnnents
AOC65-VEW15	13	5-12	- 9.3	94	0.08	D	7.42			-01		
AOC65-VEW16	41	15-40	- 9.7	99	79.3	0	30.08			- 0.5		
	1000		in i	122	80.0	0	52.76			.0,2		<i>a</i>
AOC65-VEW18	56	15.5-55.5			-							
AOC65-VEW28A	120	80-120	- 9.6	1060	80.4	D	114.47			.8.3		
AOC65-VEW28B	179	139.3-179.3	9.3	133	77.8	0	146.87			- 0		
AOC65-VEW29	40	5-39.5	- 8,3	709	43.2	0	29.4			-8,2		
		5-24.5	8.6	91	82.7	7.6	24.34			-8,3		
AOC65-VEW30	25			2788	82.5	0	30,30			- 3.4		
AOC65-VEW31	40	5-39.5	- 70 . 4									
AOC65-VEW32	25	5-24.5	- 8.4	107	82.5	8.0	10.1			- 8,2	-	
AOC65-VEW33	25	5-24.5	- 8.4	265	82.5	0	24.3			-8.1		
890-INTAKE-EX			- 11.9	4734	83.2	0						
390-EXHAUST			+ 29.8	715,000	167.1	Ö	><					
OC65-POSTGAC			+ 0	5855	108.1	0	><					
					Pre	Adjustment				Vacuum Re	elief Valve	
	System			Intake Pres	sure Gauge	A	djusted Pressu	re	Final Intake	Chaols	Luba	Hours Motor
Blower			wer On	20.500 / Comp. Charles 60 / Co. Acceptable			-		Pressure	Check	Lube	Hours Meter
Information	Subslab	0	5 / N	64		(adjust to 65" H ₂	O) Y (N)		64	N \(\overline{S} \)	Q/N	12290,9
	Exterior	6	y N Y N	31		(adjust to 50" H ₂	0) Y (N)		31	(₹) / N (₹) / N	(Y) / N	8005.6
Moisture Separator	System	Er	nptied	Amount Transferred (aals)		ilter Change ged 8/2011)	Observations/	Notes:				
Information	Subslab	0	<u> </u>	Ø		N	1					
	Exterior	36	,	08		\sim	1					
	Exterior		/ N fpm: feet per mir		Y	/(N) ppm: parts per n	I			VRV: vacuum r		psi: pounds per square in

Date/Time: 7:1.1	2/1000		Operators	Ell.	off t	Lindley			Monitoring Event:	Biweekly Mon	othly / Quarterly / C	Other
1					Manifol	d Readings			1.0	Wellhead		
Monitoring Point	Total Depth ft BTOC	Screened Interval	Vac in.H ₂ O	Flow fpm	Temp °F	VOC ppm	Water Level ft. btoc	Analytic Time	al Sample Collected Summa Canister #	Vac in. H₂O	Co	omments
							Shallo	w Wells				
AOC65-VEW19	26	5-25	-31.0	1382	83.8	0	9.58			-27.2		
OC65-VEW20	27	10-25	30.7	630	83.8	٥	24.02			- 0,2	· · · · · · · · · · · · · · · · · · ·	
AOC65-VEW21	27	12-27	-30,7	645	83.6	0	19.6			- 30.4		
AOC65-VEW23	21	6-21	- 30,5	765	84.1	0	20.19			_ 30,d	10	
AOC65-VEW25	21	6-21	-30,7	776	84.5	Ò	18:28			- 30,0		
AOC65-VEW27	21	6-21	_305	711	85.2	0	8.67	896		_ 30,D		
AOC65-INTAKE-SW			_31.1	1612	85.8	Q	Deep	Wells			*	
			D(0)		c= 0	Λ				10		
AOC65-VEW13	41	15-40	-26.8	2121	85.0	0	38.74		10 mm	- 1.3	1-22	
AOC65-VEW14	61	40-60	-268	637	85.2	Ó	60.5			-10.8		
AOC65-VEW17	52.5	22-52	-26.1	1764		0	50.3			- 14.4		
AOC65-VEW22	51	25-50	-25.8	1255	85.0	Ó	48.98			25.0		
AOC65-VEW24	50	25-50		532	85.4	0	dry	-		- 0.1		
AOC65-VEW26	50	25-50	- 25,7	1404	45.6	0	45.81			_ 23.4		
AOC65-INTAKE-DW			-30.8	6505	85,0	0						
AOC65-EXHAUST			+ 201	12071	147.5	0	\geq			V	n Delief Velve	
Blower	System	Blow	er On	10000000000	Intake ssure	Pre Adjust	ljusted Pressu	re	Final Intake Pressure	Check	n Relief Valve Lube	Hours Meter
Information	Shallow		/ N	32		(adjust to 75" H ₂ C) Y (N)		32	(3) / N	N/N	3547.6 HA
	Deep		/ N	31	40	(adjust to 75" H₂C) Y(N)		40	(Y) N	€ N	893,5 -NA
Moisture	System	Emp	otied	Amt Xfered		ter Filter nged 8/2011)	Observations	/Notes:				
Separator Information	Shallow	(9)	/ N	0	Y	/(N)						
mormation	Deep	V	/ N	Ø	Y	(N)				um relief valve	psi: pounds per squa	

APPENDIX B

LABORATORY DATA



3/24/2011 Ms. Cynthia Clark APPL, Inc. 908 North Temperance Ave

Clovis CA 93611

Project Name:

Project #: 747780.01000 Workorder #: 1103303

Dear Ms. Cynthia Clark

The following report includes the data for the above referenced project for sample(s) received on 3/14/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Kya Vych



WORK ORDER #: 1103303

Work Order Summary

CLIENT: Ms. Cynthia Clark BILL TO: Ms. Cynthia Clark

APPL, Inc. APPL, Inc.

908 North Temperance Ave 908 North Temperance Ave

Clovis, CA 93611 Clovis, CA 93611

PHONE: 559-275-2175 **P.O.** #

 FAX:
 559-275-4422
 PROJECT # 747780.01000

 DATE RECEIVED:
 03/14/2011
 CONTACT:
 Kyle Vagadori

 DATE COMPLETED:
 03/24/2011

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	AOC65-VEW09-UGR	Modified TO-15	1.0 "Hg	15 psi
02A	AOC65-VEW10-UGR	Modified TO-15	1.5 "Hg	15 psi
03A	AOC65-VEW02-UGR	Modified TO-15	1.0 "Hg	15 psi
04A	AOC65-VEW01-UGR	Modified TO-15	2.0 "Hg	15 psi
05A	AOC65-VEW12-UGR	Modified TO-15	1.5 "Hg	15 psi
06A	AOC65-INTAKE-SW	Modified TO-15	1.5 "Hg	15 psi
07A	AOC65-VEW19-UGR	Modified TO-15	1.0 "Hg	15 psi
08A	AOC65-VEW25	Modified TO-15	1.5 "Hg	15 psi
09A	AOC65-VEW27	Modified TO-15	1.5 "Hg	15 psi
10A	AOC65-INTAKE-DW	Modified TO-15	1.5 "Hg	15 psi
11A	AOC65-VEW13-LGR	Modified TO-15	2.0 "Hg	15 psi
12A	AOC65-VEW14-LGR	Modified TO-15	2.0 "Hg	15 psi
13A	AOC65-VEW24	Modified TO-15	2.0 "Hg	15 psi
14A	AOC65-VEW26	Modified TO-15	1.5 "Hg	15 psi
15A	AOC65-VEW28B	Modified TO-15	3.0 "Hg	15 psi
16A	B90-INTAKE-SS	Modified TO-15	2.0 "Hg	15 psi
17A	B90-INTAKE-EX	Modified TO-15	2.0 "Hg	15 psi

Continued on next page



WORK ORDER #: 1103303

Work Order Summary

CLIENT: Ms. Cynthia Clark BILL TO: Ms. Cynthia Clark

APPL, Inc. APPL, Inc.

908 North Temperance Ave 908 North Temperance Ave

Clovis, CA 93611 Clovis, CA 93611

PHONE: 559-275-2175 **P.O.** #

 FAX:
 559-275-4422
 PROJECT # 747780.01000

 DATE RECEIVED:
 03/14/2011
 CONTACT:
 Kyle Vagadori

 DATE COMPLETED:
 03/24/2011

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
18A	AOC65-VEW15-UGR	Modified TO-15	2.0 "Hg	15 psi
19A	AOC65-VEW16-LGR	Modified TO-15	2.5 "Hg	15 psi
20A	Lab Blank	Modified TO-15	NA	NA
20B	Lab Blank	Modified TO-15	NA	NA
21A	CCV	Modified TO-15	NA	NA
21B	CCV	Modified TO-15	NA	NA
22A	LCS	Modified TO-15	NA	NA
22AA	LCSD	Modified TO-15	NA	NA
22B	LCS	Modified TO-15	NA	NA
22BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: 03/24/11

DECEIDE

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP - AI 30763, NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.



LABORATORY NARRATIVE EPA Method TO-15 APPL, Inc. Workorder# 1103303

Nineteen 1 Liter Summa Canister samples were received on March 14, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on samples AOC65-VEW09-UGR, AOC65-VEW12-UGR, AOC65-INTAKE-SW, AOC65-VEW19-UGR, AOC65-VEW25, and AOC65-VEW27 due to the presence of high level target species.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector



r1-File was requantified for the purpose of reissue



Client Sample ID: AOC65-VEW09-UGR

Lab ID#: 1103303-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	4.2	2.7 F	16	10 F
Methylene Chloride	4.2	0.74 FB	14	2.6 FB
Trichloroethene	4.2	3.0 FB	22	16 FB
Tetrachloroethene	4.2	1500 B	28	10000 B
Benzene	4.2	1.1 F	13	3.5 F
Toluene	4.2	1.6 F	16	6.2 F

Client Sample ID: AOC65-VEW10-UGR

Lab ID#: 1103303-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.38 FB	4.3	1.5 FB
1,1,1-Trichloroethane	1.1	0.16 FB	5.8	0.86 FB
cis-1,2-Dichloroethene	1.1	0.38 FB	4.2	1.5 FB
Methylene Chloride	1.1	0.58 FB	3.7	2.0 FB
Trichloroethene	1.1	0.66 FB	5.7	3.5 FB
Tetrachloroethene	1.1	6.8 B	7.2	46 B
Benzene	1.1	0.75 FB	3.4	2.4 FB
Toluene	1.1	1.3 B	4.0	4.9 B

Client Sample ID: AOC65-VEW02-UGR

Lab ID#: 1103303-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.0	0.19 FB	4.2	0.78 FB
1,1,1-Trichloroethane	1.0	0.14 FB	5.7	0.74 FB
Methylene Chloride	1.0	0.49 FB	3.6	1.7 FB
Trichloroethene	1.0	0.50 FB	5.6	2.7 FB
Tetrachloroethene	1.0	56 B	7.1	380 B
Benzene	1.0	0.88 FB	3.3	2.8 FB
Toluene	1.0	1.8 B	3.9	6.8 B



Client Sample ID: AOC65-VEW01-UGR

Lab ID#: 1103303-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.1	0.15 FB	5.9	0.80 FB
Methylene Chloride	1.1	0.41 FB	3.8	1.4 FB
Trichloroethene	1.1	0.74 FB	5.8	4.0 FB
Tetrachloroethene	1.1	1.0 FB	7.3	6.8 FB
Benzene	1.1	0.87 FB	3.4	2.8 FB
Toluene	1.1	1.6 B	4.1	6.2 B

Client Sample ID: AOC65-VEW12-UGR

Lab ID#: 1103303-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.8	0.25 FB	9.7	1.3 FB
Trichloroethene	1.8	0.79 FB	9.5	4.2 FB
Tetrachloroethene	1.8	480 B	12	3300 B
Benzene	1.8	0.56 FB	5.7	1.8 FB
Toluene	1.8	1.6 FB	6.7	6.0 FB

Client Sample ID: AOC65-INTAKE-SW

Lab ID#: 1103303-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	2.7	37 B	10	140 B
Methylene Chloride	2.7	0.65 FB	9.2	2.3 FB
Trichloroethene	2.7	26 B	14	140 B
Tetrachloroethene	2.7	890 B	18	6000 B
trans-1,2-Dichloroethene	2.7	0.57 FB	10	2.3 FB
Benzene	2.7	0.82 FB	8.5	2.6 FB
Toluene	2.7	1.3 FB	10	5.0 FB

Client Sample ID: AOC65-VEW19-UGR

Lab ID#: 1103303-07A



Client Sample ID: AOC65-VEW19-UGR

Lab ID#: 1103303-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	2.1	0.50 FB	8.4	2.0 FB
1,1,1-Trichloroethane	2.1	0.24 F	11	1.3 F
cis-1,2-Dichloroethene	2.1	43	8.3	170
Methylene Chloride	2.1	0.76 FB	7.3	2.6 FB
Trichloroethene	2.1	26 B	11	140 B
Tetrachloroethene	2.1	680 B	14	4600 B
trans-1,2-Dichloroethene	2.1	0.67 F	8.3	2.7 F
Toluene	2.1	1.0 F	7.9	3.9 F

Client Sample ID: AOC65-VEW25

Lab ID#: 1103303-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	8.5	33	34	130
Trichloroethene	8.5	62 B	46	330 B
Tetrachloroethene	8.5	2500 B	58	17000 B
Toluene	8.5	2.2 F	32	8.3 F

Client Sample ID: AOC65-VEW27

Lab ID#: 1103303-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	3.6	6.8	14	27
Methylene Chloride	3.6	1.5 FB	12	5.1 FB
Trichloroethene	3.6	12 B	19	67 B
Tetrachloroethene	3.6	1100 B	24	7400 B
Benzene	3.6	0.88 F	11	2.8 F
Toluene	3.6	1.3 F	13	4.9 F

Client Sample ID: AOC65-INTAKE-DW

Lab ID#: 1103303-10A



Client Sample ID: AOC65-INTAKE-DW

Lab ID#: 1103303-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.20 FB	4.3	0.82 FB
1,1,1-Trichloroethane	1.1	0.16 FB	5.8	0.88 FB
cis-1,2-Dichloroethene	1.1	0.51 FB	4.2	2.0 FB
Methylene Chloride	1.1	0.46 FB	3.7	1.6 FB
Trichloroethene	1.1	8.7 B	5.7	47 B
Tetrachloroethene	1.1	37 B	7.2	250 B
Benzene	1.1	0.55 F	3.4	1.8 F
Toluene	1.1	1.8 B	4.0	6.9 B

Client Sample ID: AOC65-VEW13-LGR

Lab ID#: 1103303-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.18 FB	4.4	0.74 FB
Methylene Chloride	1.1	0.38 FB	3.8	1.3 FB
Trichloroethene	1.1	3.4 B	5.8	18 B
Tetrachloroethene	1.1	34 B	7.3	230 B
Benzene	1.1	0.58 F	3.4	1.9 F
Toluene	1.1	1.3 B	4.1	4.8 B

Client Sample ID: AOC65-VEW14-LGR

Lab ID#: 1103303-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.1	0.15 FB	5.9	0.82 FB
Methylene Chloride	1.1	0.44 FB	3.8	1.5 FB
Trichloroethene	1.1	2.9 B	5.8	16 B
Tetrachloroethene	1.1	8.7 B	7.3	59 B
Benzene	1.1	0.54 F	3.4	1.7 F
Toluene	1.1	1.3 B	4.1	4.9 B



Client Sample ID: AOC65-VEW24

Lab ID#: 1103303-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	1.1	0.60 FB	4.3	2.4 FB
Methylene Chloride	1.1	0.42 FB	3.8	1.5 FB
Trichloroethene	1.1	11 B	5.8	62 B
Tetrachloroethene	1.1	24 B	7.3	160 B
Benzene	1.1	0.65 F	3.4	2.1 F
Toluene	1.1	1.4 B	4.1	5.4 B

Client Sample ID: AOC65-VEW26

Lab ID#: 1103303-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.24 FB	4.3	0.96 FB
cis-1,2-Dichloroethene	1.1	0.73 F	4.2	2.9 F
Methylene Chloride	1.1	0.52 FB	3.7	1.8 FB
Trichloroethene	1.1	16 B	5.7	86 B
Tetrachloroethene	1.1	34 B	7.2	230 B
Benzene	1.1	0.53 F	3.4	1.7 F
Toluene	1.1	1.2	4.0	4.7

Client Sample ID: AOC65-VEW28B

Lab ID#: 1103303-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.31 FB	4.5	1.2 FB
1,1,1-Trichloroethane	1.1	0.13 F	6.1	0.72 F
Methylene Chloride	1.1	0.46 FB	3.9	1.6 FB
Trichloroethene	1.1	3.5 B	6.0	19 B
Tetrachloroethene	1.1	42 B	7.6	280 B
Benzene	1.1	0.85 F	3.6	2.7 F
Toluene	1.1	4.4	4.2	16



Client Sample ID: B90-INTAKE-SS

Lab ID#: 1103303-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	1.1	0.16 F	5.9	0.85 F
cis-1,2-Dichloroethene	1.1	0.89 F	4.3	3.5 F
Methylene Chloride	1.1	2.5 B	3.8	8.6 B
Trichloroethene	1.1	1.1 B	5.8	5.8 B
Tetrachloroethene	1.1	180 B	7.3	1200 B
Benzene	1.1	0.63 F	3.4	2.0 F
Toluene	1.1	2.3	4.1	8.5

Client Sample ID: B90-INTAKE-EX

Lab ID#: 1103303-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.25 FB	4.4	1.0 FB
1,1,1-Trichloroethane	1.1	0.26 F	5.9	1.4 F
Methylene Chloride	1.1	1.0 FB	3.8	3.6 FB
Trichloroethene	1.1	22 B	5.8	120 B
Tetrachloroethene	1.1	65 B	7.3	440 B
Benzene	1.1	0.69 F	3.4	2.2 F
Toluene	1.1	1.5	4.1	5.6

Client Sample ID: AOC65-VEW15-UGR

Lab ID#: 1103303-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.28 FB	4.4	1.2 FB
1,1,1-Trichloroethane	1.1	0.18 F	5.9	0.97 F
Methylene Chloride	1.1	0.92 FB	3.8	3.2 FB
Trichloroethene	1.1	0.88 FB	5.8	4.7 FB
Tetrachloroethene	1.1	2.6 B	7.3	18 B
Benzene	1.1	0.99 F	3.4	3.2 F
Toluene	1.1	1.9	4.1	7.1



Client Sample ID: AOC65-VEW16-LGR

Lab ID#: 1103303-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.31 FB	4.4	1.3 FB
1,1,1-Trichloroethane	1.1	0.17 F	6.0	0.94 F
cis-1,2-Dichloroethene	1.1	0.28 F	4.4	1.1 F
Methylene Chloride	1.1	0.28 FB	3.8	0.98 FB
Trichloroethene	1.1	2.6 B	5.9	14 B
Tetrachloroethene	1.1	11 B	7.5	75 B
Benzene	1.1	0.56 F	3.5	1.8 F
Toluene	1.1	0.66 F	4.1	2.5 F



Client Sample ID: AOC65-VEW09-UGR Lab ID#: 1103303-01A

EPA METHOD TO-15 GC/MS

File Name:	6031643	Date of Collection: 3/10/11 1:17:00 PM
Dil. Factor:	8.36	Date of Analysis: 3/17/11 04:20 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	4.2	Not Detected U	11	Not Detected U
1,2-Dichloroethane	4.2	Not Detected U	17	Not Detected U
1,1-Dichloroethene	4.2	Not Detected U	16	Not Detected U
1,1,1-Trichloroethane	4.2	Not Detected U	23	Not Detected U
cis-1,2-Dichloroethene	4.2	2.7 F	16	10 F
Methylene Chloride	4.2	0.74 FB	14	2.6 FB
Trichloroethene	4.2	3.0 FB	22	16 FB
Tetrachloroethene	4.2	1500 B	28	10000 B
trans-1,2-Dichloroethene	4.2	Not Detected U	16	Not Detected U
Benzene	4.2	1.1 F	13	3.5 F
Toluene	4.2	1.6 F	16	6.2 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	89	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.

B = The analyte was found in an associated blank above the MDL, as well as in the sample.



Client Sample ID: AOC65-VEW10-UGR Lab ID#: 1103303-02A

EPA METHOD TO-15 GC/MS

File Name:	6031618	Date of Collection: 3/10/11 1:23:00 PM
Dil. Factor:	2.13	Date of Analysis: 3/16/11 03:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.7	Not Detected U
1,2-Dichloroethane	1.1	0.38 FB	4.3	1.5 FB
1,1-Dichloroethene	1.1	Not Detected U	4.2	Not Detected U
1,1,1-Trichloroethane	1.1	0.16 FB	5.8	0.86 FB
cis-1,2-Dichloroethene	1.1	0.38 FB	4.2	1.5 FB
Methylene Chloride	1.1	0.58 FB	3.7	2.0 FB
Trichloroethene	1.1	0.66 FB	5.7	3.5 FB
Tetrachloroethene	1.1	6.8 B	7.2	46 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.2	Not Detected U
Benzene	1.1	0.75 FB	3.4	2.4 FB
Toluene	1.1	1.3 B	4.0	4.9 B

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	119	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	91	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW02-UGR Lab ID#: 1103303-03A

EPA METHOD TO-15 GC/MS

File Name:	6031619	Date of Collection: 3/10/11 1:32:00 PM
Dil. Factor:	2.09	Date of Analysis: 3/16/11 03:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.0	Not Detected U	2.7	Not Detected U
1,2-Dichloroethane	1.0	0.19 FB	4.2	0.78 FB
1,1-Dichloroethene	1.0	Not Detected U	4.1	Not Detected U
1,1,1-Trichloroethane	1.0	0.14 FB	5.7	0.74 FB
cis-1,2-Dichloroethene	1.0	Not Detected U	4.1	Not Detected U
Methylene Chloride	1.0	0.49 FB	3.6	1.7 FB
Trichloroethene	1.0	0.50 FB	5.6	2.7 FB
Tetrachloroethene	1.0	56 B	7.1	380 B
trans-1,2-Dichloroethene	1.0	Not Detected U	4.1	Not Detected U
Benzene	1.0	0.88 FB	3.3	2.8 FB
Toluene	1.0	1.8 B	3.9	6.8 B

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	91	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW01-UGR Lab ID#: 1103303-04A

EPA METHOD TO-15 GC/MS

File Name:	6031621	Date of Collection: 3/10/11 1:36:00 PM
Dil. Factor:	2.16	Date of Analysis: 3/16/11 04:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.8	Not Detected U
1,2-Dichloroethane	1.1	Not Detected U	4.4	Not Detected U
1,1-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
1,1,1-Trichloroethane	1.1	0.15 FB	5.9	0.80 FB
cis-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Methylene Chloride	1.1	0.41 FB	3.8	1.4 FB
Trichloroethene	1.1	0.74 FB	5.8	4.0 FB
Tetrachloroethene	1.1	1.0 FB	7.3	6.8 FB
trans-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Benzene	1.1	0.87 FB	3.4	2.8 FB
Toluene	1.1	1.6 B	4.1	6.2 B

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	118	70-130	
Toluene-d8	105	70-130	
4-Bromofluorobenzene	93	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW12-UGR Lab ID#: 1103303-05A

EPA METHOD TO-15 GC/MS

File Name:	6031623	Date of Collection: 3/10/11 1:45:00 PM
Dil. Factor:	3.55	Date of Analysis: 3/16/11 05:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.8	Not Detected U	4.5	Not Detected U
1,2-Dichloroethane	1.8	Not Detected U	7.2	Not Detected U
1,1-Dichloroethene	1.8	Not Detected U	7.0	Not Detected U
1,1,1-Trichloroethane	1.8	0.25 FB	9.7	1.3 FB
cis-1,2-Dichloroethene	1.8	Not Detected U	7.0	Not Detected U
Methylene Chloride	1.8	Not Detected U	6.2	Not Detected U
Trichloroethene	1.8	0.79 FB	9.5	4.2 FB
Tetrachloroethene	1.8	480 B	12	3300 B
trans-1,2-Dichloroethene	1.8	Not Detected U	7.0	Not Detected U
Benzene	1.8	0.56 FB	5.7	1.8 FB
Toluene	1.8	1.6 FB	6.7	6.0 FB

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

Container Type: 1 Liter Summa Canister

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	117	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	90	70-130	

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B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-INTAKE-SW Lab ID#: 1103303-06A

EPA METHOD TO-15 GC/MS

File Name:	6031626	Date of Collection: 3/10/11 2:27:00 PM
Dil. Factor:	5.32	Date of Analysis: 3/16/11 07:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	2.7	Not Detected U	6.8	Not Detected U
1,2-Dichloroethane	2.7	Not Detected U	11	Not Detected U
1,1-Dichloroethene	2.7	Not Detected U	10	Not Detected U
1,1,1-Trichloroethane	2.7	Not Detected U	14	Not Detected U
cis-1,2-Dichloroethene	2.7	37 B	10	140 B
Methylene Chloride	2.7	0.65 FB	9.2	2.3 FB
Trichloroethene	2.7	26 B	14	140 B
Tetrachloroethene	2.7	890 B	18	6000 B
trans-1,2-Dichloroethene	2.7	0.57 FB	10	2.3 FB
Benzene	2.7	0.82 FB	8.5	2.6 FB
Toluene	2.7	1.3 FB	10	5.0 FB

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•	2/5	Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	92	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW19-UGR Lab ID#: 1103303-07A

EPA METHOD TO-15 GC/MS

File Name:	6031645	Date of Collection: 3/10/11 2:35:00 PM
Dil. Factor:	4.18	Date of Analysis: 3/17/11 05:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	2.1	Not Detected U	5.3	Not Detected U
1,2-Dichloroethane	2.1	0.50 FB	8.4	2.0 FB
1,1-Dichloroethene	2.1	Not Detected U	8.3	Not Detected U
1,1,1-Trichloroethane	2.1	0.24 F	11	1.3 F
cis-1,2-Dichloroethene	2.1	43	8.3	170
Methylene Chloride	2.1	0.76 FB	7.3	2.6 FB
Trichloroethene	2.1	26 B	11	140 B
Tetrachloroethene	2.1	680 B	14	4600 B
trans-1,2-Dichloroethene	2.1	0.67 F	8.3	2.7 F
Benzene	2.1	Not Detected U	6.7	Not Detected U
Toluene	2.1	1.0 F	7.9	3.9 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	92	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW25 Lab ID#: 1103303-08A

EPA METHOD TO-15 GC/MS

File Name:	6031646	Date of Collection: 3/10/11 2:46:00 PM
Dil. Factor:	17.0	Date of Analysis: 3/17/11 05:45 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	8.5	Not Detected U	22	Not Detected U
1,2-Dichloroethane	8.5	Not Detected U	34	Not Detected U
1,1-Dichloroethene	8.5	Not Detected U	34	Not Detected U
1,1,1-Trichloroethane	8.5	Not Detected U	46	Not Detected U
cis-1,2-Dichloroethene	8.5	33	34	130
Methylene Chloride	8.5	Not Detected U	30	Not Detected U
Trichloroethene	8.5	62 B	46	330 B
Tetrachloroethene	8.5	2500 B	58	17000 B
trans-1,2-Dichloroethene	8.5	Not Detected U	34	Not Detected U
Benzene	8.5	Not Detected U	27	Not Detected U
Toluene	8.5	2.2 F	32	8.3 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	118	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	87	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW27 Lab ID#: 1103303-09A

EPA METHOD TO-15 GC/MS

File Name:	6031651	Date of Collection: 3/10/11 2:52:00 PM
Dil. Factor:	7.10	Date of Analysis: 3/17/11 09:25 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	3.6	Not Detected U	9.1	Not Detected U
1,2-Dichloroethane	3.6	Not Detected U	14	Not Detected U
1,1-Dichloroethene	3.6	Not Detected U	14	Not Detected U
1,1,1-Trichloroethane	3.6	Not Detected U	19	Not Detected U
cis-1,2-Dichloroethene	3.6	6.8	14	27
Methylene Chloride	3.6	1.5 FB	12	5.1 FB
Trichloroethene	3.6	12 B	19	67 B
Tetrachloroethene	3.6	1100 B	24	7400 B
trans-1,2-Dichloroethene	3.6	Not Detected U	14	Not Detected U
Benzene	3.6	0.88 F	11	2.8 F
Toluene	3.6	1.3 F	13	4.9 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

••		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-INTAKE-DW Lab ID#: 1103303-10A

EPA METHOD TO-15 GC/MS

File Name:	6031628	Date of Collection: 3/10/11 2:59:00 PM
Dil. Factor:	2.13	Date of Analysis: 3/16/11 08:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.7	Not Detected U
1,2-Dichloroethane	1.1	0.20 FB	4.3	0.82 FB
1,1-Dichloroethene	1.1	Not Detected U	4.2	Not Detected U
1,1,1-Trichloroethane	1.1	0.16 FB	5.8	0.88 FB
cis-1,2-Dichloroethene	1.1	0.51 FB	4.2	2.0 FB
Methylene Chloride	1.1	0.46 FB	3.7	1.6 FB
Trichloroethene	1.1	8.7 B	5.7	47 B
Tetrachloroethene	1.1	37 B	7.2	250 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.2	Not Detected U
Benzene	1.1	0.55 F	3.4	1.8 F
Toluene	1.1	1.8 B	4.0	6.9 B

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	126	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	93	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW13-LGR Lab ID#: 1103303-11A

EPA METHOD TO-15 GC/MS

File Name:	6031629	Date of Collection: 3/10/11 3:05:00 PM
Dil. Factor:	2.16	Date of Analysis: 3/16/11 08:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.8	Not Detected U
1,2-Dichloroethane	1.1	0.18 FB	4.4	0.74 FB
1,1-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
1,1,1-Trichloroethane	1.1	Not Detected U	5.9	Not Detected U
cis-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Methylene Chloride	1.1	0.38 FB	3.8	1.3 FB
Trichloroethene	1.1	3.4 B	5.8	18 B
Tetrachloroethene	1.1	34 B	7.3	230 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Benzene	1.1	0.58 F	3.4	1.9 F
Toluene	1.1	1.3 B	4.1	4.8 B

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	115	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	95	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW14-LGR Lab ID#: 1103303-12A

EPA METHOD TO-15 GC/MS

File Name:	6031630	Date of Collection: 3/10/11 3:10:00 PM
Dil. Factor:	2.16	Date of Analysis: 3/16/11 09:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.8	Not Detected U
1,2-Dichloroethane	1.1	Not Detected U	4.4	Not Detected U
1,1-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
1,1,1-Trichloroethane	1.1	0.15 FB	5.9	0.82 FB
cis-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Methylene Chloride	1.1	0.44 FB	3.8	1.5 FB
Trichloroethene	1.1	2.9 B	5.8	16 B
Tetrachloroethene	1.1	8.7 B	7.3	59 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Benzene	1.1	0.54 F	3.4	1.7 F
Toluene	1.1	1.3 B	4.1	4.9 B

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	91	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW24 Lab ID#: 1103303-13A

EPA METHOD TO-15 GC/MS

 File Name:
 6031631
 Date of Collection: 3/10/11 3:20:00 PM

 Dil. Factor:
 2.16
 Date of Analysis: 3/16/11 09:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.8	Not Detected U
1,2-Dichloroethane	1.1	Not Detected U	4.4	Not Detected U
1,1-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
1,1,1-Trichloroethane	1.1	Not Detected U	5.9	Not Detected U
cis-1,2-Dichloroethene	1.1	0.60 FB	4.3	2.4 FB
Methylene Chloride	1.1	0.42 FB	3.8	1.5 FB
Trichloroethene	1.1	11 B	5.8	62 B
Tetrachloroethene	1.1	24 B	7.3	160 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Benzene	1.1	0.65 F	3.4	2.1 F
Toluene	1.1	1.4 B	4.1	5.4 B

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	116	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	94	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW26 Lab ID#: 1103303-14A

EPA METHOD TO-15 GC/MS

File Name:	6031652	Date of Collection: 3/10/11 3:26:00 PM
Dil. Factor:	2.13	Date of Analysis: 3/17/11 09:54 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.7	Not Detected U
1,2-Dichloroethane	1.1	0.24 FB	4.3	0.96 FB
1,1-Dichloroethene	1.1	Not Detected U	4.2	Not Detected U
1,1,1-Trichloroethane	1.1	Not Detected U	5.8	Not Detected U
cis-1,2-Dichloroethene	1.1	0.73 F	4.2	2.9 F
Methylene Chloride	1.1	0.52 FB	3.7	1.8 FB
Trichloroethene	1.1	16 B	5.7	86 B
Tetrachloroethene	1.1	34 B	7.2	230 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.2	Not Detected U
Benzene	1.1	0.53 F	3.4	1.7 F
Toluene	1.1	1.2	4.0	4.7

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	112	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	93	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW28B Lab ID#: 1103303-15A

EPA METHOD TO-15 GC/MS

File Name:	6031653	Date of Collection: 3/10/11 3:44:00 PM
Dil. Factor:	2.24	Date of Analysis: 3/17/11 10:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.9	Not Detected U
1,2-Dichloroethane	1.1	0.31 FB	4.5	1.2 FB
1,1-Dichloroethene	1.1	Not Detected U	4.4	Not Detected U
1,1,1-Trichloroethane	1.1	0.13 F	6.1	0.72 F
cis-1,2-Dichloroethene	1.1	Not Detected U	4.4	Not Detected U
Methylene Chloride	1.1	0.46 FB	3.9	1.6 FB
Trichloroethene	1.1	3.5 B	6.0	19 B
Tetrachloroethene	1.1	42 B	7.6	280 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.4	Not Detected U
Benzene	1.1	0.85 F	3.6	2.7 F
Toluene	1.1	4.4	4.2	16

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

Container Type: 1 Liter Summa Canister

		Metrioa	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	122	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	92	70-130	

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B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: B90-INTAKE-SS Lab ID#: 1103303-16A

EPA METHOD TO-15 GC/MS

File Name:	6031654	Date of Collection: 3/10/11 3:52:00 PM
Dil. Factor:	2.16	Date of Analysis: 3/17/11 10:46 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.8	Not Detected U
1,2-Dichloroethane	1.1	Not Detected U	4.4	Not Detected U
1,1-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
1,1,1-Trichloroethane	1.1	0.16 F	5.9	0.85 F
cis-1,2-Dichloroethene	1.1	0.89 F	4.3	3.5 F
Methylene Chloride	1.1	2.5 B	3.8	8.6 B
Trichloroethene	1.1	1.1 B	5.8	5.8 B
Tetrachloroethene	1.1	180 B	7.3	1200 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Benzene	1.1	0.63 F	3.4	2.0 F
Toluene	1.1	2.3	4.1	8.5

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	120	70-130	
Toluene-d8	104	70-130	
4-Bromofluorobenzene	90	70-130	

F = The analyte was postively identified but the associated numerical value is below the RL.

B = The analyte was found in an associated blank above the MDL, as well as in the sample.



Client Sample ID: B90-INTAKE-EX Lab ID#: 1103303-17A

EPA METHOD TO-15 GC/MS

File Name:	6031657	Date of Collection: 3/10/11 3:58:00 PM
Dil. Factor:	2.16	Date of Analysis: 3/17/11 11:51 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.8	Not Detected U
1,2-Dichloroethane	1.1	0.25 FB	4.4	1.0 FB
1,1-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
1,1,1-Trichloroethane	1.1	0.26 F	5.9	1.4 F
cis-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Methylene Chloride	1.1	1.0 FB	3.8	3.6 FB
Trichloroethene	1.1	22 B	5.8	120 B
Tetrachloroethene	1.1	65 B	7.3	440 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Benzene	1.1	0.69 F	3.4	2.2 F
Toluene	1.1	1.5	4.1	5.6

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

Container Type: 1 Liter Summa Canister

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	125	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	94	70-130	

Mothod

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW15-UGR Lab ID#: 1103303-18A

EPA METHOD TO-15 GC/MS

File Name:	6031656	Date of Collection: 3/10/11 4:08:00 PM
Dil. Factor:	2.16	Date of Analysis: 3/17/11 11:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.8	Not Detected U
1,2-Dichloroethane	1.1	0.28 FB	4.4	1.2 FB
1,1-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
1,1,1-Trichloroethane	1.1	0.18 F	5.9	0.97 F
cis-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Methylene Chloride	1.1	0.92 FB	3.8	3.2 FB
Trichloroethene	1.1	0.88 FB	5.8	4.7 FB
Tetrachloroethene	1.1	2.6 B	7.3	18 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.3	Not Detected U
Benzene	1.1	0.99 F	3.4	3.2 F
Toluene	1.1	1.9	4.1	7.1

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW16-LGR Lab ID#: 1103303-19A

EPA METHOD TO-15 GC/MS

File Name:	6031658	Date of Collection: 3/10/11 4:12:00 PM
Dil. Factor:	2.20	Date of Analysis: 3/17/11 12:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected U	2.8	Not Detected U
1,2-Dichloroethane	1.1	0.31 FB	4.4	1.3 FB
1,1-Dichloroethene	1.1	Not Detected U	4.4	Not Detected U
1,1,1-Trichloroethane	1.1	0.17 F	6.0	0.94 F
cis-1,2-Dichloroethene	1.1	0.28 F	4.4	1.1 F
Methylene Chloride	1.1	0.28 FB	3.8	0.98 FB
Trichloroethene	1.1	2.6 B	5.9	14 B
Tetrachloroethene	1.1	11 B	7.5	75 B
trans-1,2-Dichloroethene	1.1	Not Detected U	4.4	Not Detected U
Benzene	1.1	0.56 F	3.5	1.8 F
Toluene	1.1	0.66 F	4.1	2.5 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	90	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: Lab Blank Lab ID#: 1103303-20A

EPA METHOD TO-15 GC/MS

File Name:	6031609a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/16/11 11:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected U	1.3	Not Detected U
1,2-Dichloroethane	0.50	0.16 F	2.0	0.63 F
1,1-Dichloroethene	0.50	Not Detected U	2.0	Not Detected U
1,1,1-Trichloroethane	0.50	0.086 F	2.7	0.47 F
cis-1,2-Dichloroethene	0.50	0.13 F	2.0	0.51 F
Methylene Chloride	0.50	0.23 F	1.7	0.81 F
Trichloroethene	0.50	0.16 F	2.7	0.88 F
Tetrachloroethene	0.50	0.12 F	3.4	0.85 F
trans-1,2-Dichloroethene	0.50	0.16 F	2.0	0.65 F
Benzene	0.50	Not Detected U	1.6	Not Detected U
Toluene	0.50	0.12 F	1.9	0.46 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	124	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	89	70-130	

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: Lab Blank Lab ID#: 1103303-20B

EPA METHOD TO-15 GC/MS

File Name:	6031642a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/17/11 03:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	0.071 F	1.3	0.18 F
1,2-Dichloroethane	0.50	0.15 F	2.0	0.59 F
1,1-Dichloroethene	0.50	Not Detected U	2.0	Not Detected U
1,1,1-Trichloroethane	0.50	Not Detected U	2.7	Not Detected U
cis-1,2-Dichloroethene	0.50	Not Detected U	2.0	Not Detected U
Methylene Chloride	0.50	0.18 F	1.7	0.64 F
Trichloroethene	0.50	0.18 F	2.7	0.97 F
Tetrachloroethene	0.50	0.10 F	3.4	0.68 F
trans-1,2-Dichloroethene	0.50	Not Detected U	2.0	Not Detected U
Benzene	0.50	Not Detected U	1.6	Not Detected U
Toluene	0.50	Not Detected U	1.9	Not Detected U

F = The analyte was postively identified but the associated numerical value is below the RL.

Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	130	70-130	
Toluene-d8	105	70-130	
4-Bromofluorobenzene	90	70-130	

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.



Client Sample ID: CCV Lab ID#: 1103303-21A

EPA METHOD TO-15 GC/MS

File Name: 6031605 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 3/16/11 09:01 AM

Compound	%Recovery
Vinyl Chloride	103
1,2-Dichloroethane	131 Q
1,1-Dichloroethene	107
1,1,1-Trichloroethane	121
cis-1,2-Dichloroethene	108
Methylene Chloride	110
Trichloroethene	116
Tetrachloroethene	114
trans-1,2-Dichloroethene	106
Benzene	116
Toluene	118

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130



Client Sample ID: CCV Lab ID#: 1103303-21B

EPA METHOD TO-15 GC/MS

File Name: 6031638 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 3/17/11 01:40 AM

Compound	%Recovery
Vinyl Chloride	95
1,2-Dichloroethane	137 Q
1,1-Dichloroethene	101
1,1,1-Trichloroethane	121
cis-1,2-Dichloroethene	102
Methylene Chloride	111
Trichloroethene	109
Tetrachloroethene	107
trans-1,2-Dichloroethene	97
Benzene	111
Toluene	108

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method Limits
Surrogates	%Recovery	
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: LCS Lab ID#: 1103303-22A

EPA METHOD TO-15 GC/MS

File Name: 6031606a Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 3/16/11 09:38 AM

Compound	%Recovery
Vinyl Chloride	108
1,2-Dichloroethane	129
1,1-Dichloroethene	110
1,1,1-Trichloroethane	123
cis-1,2-Dichloroethene	106
Methylene Chloride	115
Trichloroethene	108
Tetrachloroethene	111
trans-1,2-Dichloroethene	118
Benzene	110
Toluene	103

Container Type: NA - Not Applicable

		Method Limits
Surrogates	%Recovery	
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130



Client Sample ID: LCSD Lab ID#: 1103303-22AA

EPA METHOD TO-15 GC/MS

File Name: 6031607a Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 3/16/11 09:57 AM

Compound	%Recovery
Vinyl Chloride	102
1,2-Dichloroethane	133 Q
1,1-Dichloroethene	107
1,1,1-Trichloroethane	119
cis-1,2-Dichloroethene	102
Methylene Chloride	110
Trichloroethene	109
Tetrachloroethene	109
trans-1,2-Dichloroethene	119
Benzene	112
Toluene	107

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130



Client Sample ID: LCS Lab ID#: 1103303-22B

EPA METHOD TO-15 GC/MS

File Name: 6031639a Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 3/17/11 02:11 AM

Compound	%Recovery
Vinyl Chloride	104
1,2-Dichloroethane	140 Q
1,1-Dichloroethene	111
1,1,1-Trichloroethane	126
cis-1,2-Dichloroethene	103
Methylene Chloride	110
Trichloroethene	112
Tetrachloroethene	106
trans-1,2-Dichloroethene	119
Benzene	108
Toluene	105

 $\ensuremath{\mathsf{Q}}$ = Exceeds Quality Control limits.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: LCSD Lab ID#: 1103303-22BB

EPA METHOD TO-15 GC/MS

File Name: 6031640a Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 3/17/11 02:30 AM

Compound	%Recovery
Vinyl Chloride	104
1,2-Dichloroethane	132 Q
1,1-Dichloroethene	111
1,1,1-Trichloroethane	128
cis-1,2-Dichloroethene	108
Methylene Chloride	116
Trichloroethene	109
Tetrachloroethene	103
trans-1,2-Dichloroethene	116
Benzene	110
Toluene	108

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	95	70-130



8/25/2011 Ms. Cynthia Clark APPL, Inc. 908 North Temperance Ave

Clovis CA 93611

Project Name:

Project #: 747781.04000 Workorder #: 1108285

Dear Ms. Cynthia Clark

The following report includes the data for the above referenced project for sample(s) received on 8/12/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Kya Vych



WORK ORDER #: 1108285

Work Order Summary

CLIENT: Ms. Cynthia Clark BILL TO: Ms. Cynthia Clark

APPL, Inc. APPL, Inc.

908 North Temperance Ave 908 North Temperance Ave

Clovis, CA 93611 Clovis, CA 93611

PHONE: 559-275-2175 **P.O.** #

 FAX:
 559-275-4422
 PROJECT # 747781.04000

 DATE RECEIVED:
 08/12/2011
 CONTACT:
 Kyle Vagadori

 DATE COMPLETED:
 08/25/2011

			RECEIPT	FINAL
FRACTION #	NAME	TEST	VAC./PRES.	PRESSURE
01A	B90-INTAKE-EX (11:20)	Modified TO-15	6.0 "Hg	15 psi
02A	B90-INTAKE-SS (11:25)	Modified TO-15	3.0 "Hg	15 psi
03A	AOC65-INTAKE-SW (11:35)	Modified TO-15	4.0 "Hg	15 psi
04A	AOC65-INTAKE-DW (11:40)	Modified TO-15	4.0 "Hg	15 psi
05A	AOC65-INTAKE-DW (10:15)	Modified TO-15	4.0 "Hg	15 psi
06A	AOC65-INTAKE-SW (10:20)	Modified TO-15	4.5 "Hg	15 psi
07A	B90-INTAKE-EX (10:25)	Modified TO-15	3.0 "Hg	15 psi
08A	B90-INTAKE-SS (10:30)	Modified TO-15	3.5 "Hg	15 psi
09A	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: 08/25/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.



LABORATORY NARRATIVE EPA Method TO-15 APPL, Inc. Workorder# 1108285

Eight 1 Liter Summa Canister samples were received on August 15, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Sample identifications on the Chain of Custody (COC) were not unique. The time of collection was added to each of the sample identifications to ensure uniqueness.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv) may be false positives.

Dilution was performed on samples B90-INTAKE-EX (11:20), AOC65-INTAKE-SW (11:35), AOC65-INTAKE-SW (10:20), and B90-INTAKE-EX (10:25) due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Client Sample ID: B90-INTAKE-EX (11:20)

Lab ID#: 1108285-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	4.2	1.8 F	17	7.2 F
Methylene Chloride	4.2	0.67 F	14	2.3 F
Trichloroethene	4.2	9.2 B	22	49 B
Tetrachloroethene	4.2	1100	28	7400
Toluene	4.2	2.2 F	16	8.2 F

Client Sample ID: B90-INTAKE-SS (11:25)

Lab ID#: 1108285-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.20 FB	4.5	0.80 FB
1,1,1-Trichloroethane	1.1	0.17 F	6.1	0.90 F
cis-1,2-Dichloroethene	1.1	1.1	4.4	4.4
Methylene Chloride	1.1	1.9	3.9	6.5
Trichloroethene	1.1	1.2 B	6.0	6.5 B
Tetrachloroethene	1.1	400	7.6	2700
Benzene	1.1	0.49 F	3.6	1.6 F
Toluene	1.1	2.9	4.2	11

Client Sample ID: AOC65-INTAKE-SW (11:35)

Lab ID#: 1108285-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	2.3	54	9.2	220
Methylene Chloride	2.3	0.65 F	8.1	2.2 F
Trichloroethene	2.3	33 B	12	180 B
Tetrachloroethene	2.3	710	16	4800
Benzene	2.3	0.44 F	7.4	1.4 F
Toluene	2.3	2.1 F	8.8	8.0 F



Client Sample ID: AOC65-INTAKE-DW (11:40)

Lab ID#: 1108285-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.2	0.24 FB	4.7	0.99 FB
1,1,1-Trichloroethane	1.2	0.17 F	6.4	0.95 F
cis-1,2-Dichloroethene	1.2	1.8	4.6	7.3
Methylene Chloride	1.2	0.47 F	4.0	1.6 F
Trichloroethene	1.2	9.3 B	6.3	50 B
Tetrachloroethene	1.2	73	7.9	500
Benzene	1.2	0.48 F	3.7	1.6 F
Toluene	1.2	2.1	4.4	8.1

Client Sample ID: AOC65-INTAKE-DW (10:15)

Lab ID#: 1108285-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.2	0.17 FB	4.7	0.67 FB
1,1,1-Trichloroethane	1.2	0.16 F	6.4	0.87 F
cis-1,2-Dichloroethene	1.2	0.36 F	4.6	1.4 F
Methylene Chloride	1.2	0.89 F	4.0	3.1 F
Trichloroethene	1.2	8.2 B	6.3	44 B
Tetrachloroethene	1.2	45	7.9	300
Benzene	1.2	0.56 F	3.7	1.8 F
Toluene	1.2	2.1	4.4	8.0

Client Sample ID: AOC65-INTAKE-SW (10:20)

Lab ID#: 1108285-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	2.6	50	10	200
Methylene Chloride	2.6	0.74 F	9.2	2.6 F
Trichloroethene	2.6	31 B	14	170 B
Tetrachloroethene	2.6	790	18	5400
Benzene	2.6	0.80 F	8.4	2.6 F



Client Sample ID: AOC65-INTAKE-SW (10:20)

Lab ID#: 1108285-06A

Toluene 2.6 2.2 F 10 8.1 F

Client Sample ID: B90-INTAKE-EX (10:25)

Lab ID#: 1108285-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	2.2	1.1 F	8.9	4.4 F
Methylene Chloride	2.2	0.55 F	7.8	1.9 F
Trichloroethene	2.2	5.8 B	12	31 B
Tetrachloroethene	2.2	670	15	4500
Benzene	2.2	0.40 F	7.2	1.3 F
Toluene	2.2	1.5 F	8.4	5.6 F

Client Sample ID: B90-INTAKE-SS (10:30)

Lab ID#: 1108285-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.26 FB	4.6	1.0 FB
1,1,1-Trichloroethane	1.1	0.29 F	6.2	1.6 F
cis-1,2-Dichloroethene	1.1	1.1	4.5	4.3
Methylene Chloride	1.1	0.65 F	4.0	2.2 F
Trichloroethene	1.1	9.8 B	6.2	53 B
Tetrachloroethene	1.1	340	7.8	2300
Benzene	1.1	4.4	3.6	14
Toluene	1.1	37	4.3	140



Client Sample ID: B90-INTAKE-EX (11:20)

Lab ID#: 1108285-01A

EPA METHOD TO-15 GC/MS

File Name:	6081723	Date of Collection: 8/10/11 11:20:00 AM
Dil. Factor:	8.40	Date of Analysis: 8/17/11 08:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	4.2	Not Detected U	17	Not Detected U
1,1,1-Trichloroethane	4.2	Not Detected U	23	Not Detected U
cis-1,2-Dichloroethene	4.2	1.8 F	17	7.2 F
Methylene Chloride	4.2	0.67 F	14	2.3 F
Trichloroethene	4.2	9.2 B	22	49 B
Tetrachloroethene	4.2	1100	28	7400
trans-1,2-Dichloroethene	4.2	Not Detected U	17	Not Detected U
Benzene	4.2	Not Detected U	13	Not Detected U
Toluene	4.2	2.2 F	16	8.2 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL. F = The analyte was postively identified but the associated numerical value is below the RL.

••		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	93	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.



Client Sample ID: B90-INTAKE-SS (11:25)

Lab ID#: 1108285-02A

EPA METHOD TO-15 GC/MS

File Name:	6081724	Date of Collection: 8/10/11 11:25:00 AM
Dil. Factor:	2.24	Date of Analysis: 8/17/11 09:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.20 FB	4.5	0.80 FB
1,1,1-Trichloroethane	1.1	0.17 F	6.1	0.90 F
cis-1,2-Dichloroethene	1.1	1.1	4.4	4.4
Methylene Chloride	1.1	1.9	3.9	6.5
Trichloroethene	1.1	1.2 B	6.0	6.5 B
Tetrachloroethene	1.1	400	7.6	2700
trans-1,2-Dichloroethene	1.1	Not Detected U	4.4	Not Detected U
Benzene	1.1	0.49 F	3.6	1.6 F
Toluene	1.1	2.9	4.2	11

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	96	70-130	
4-Bromofluorobenzene	92	70-130	

F = The analyte was postively identified but the associated numerical value is below the RL.

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.



Client Sample ID: AOC65-INTAKE-SW (11:35)

Lab ID#: 1108285-03A

EPA METHOD TO-15 GC/MS

File Name:	6081725	Date of Collection: 8/10/11 11:35:00 AM
Dil. Factor:	4.66	Date of Analysis: 8/17/11 10:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	2.3	Not Detected U	9.4	Not Detected U
1,1,1-Trichloroethane	2.3	Not Detected U	13	Not Detected U
cis-1,2-Dichloroethene	2.3	54	9.2	220
Methylene Chloride	2.3	0.65 F	8.1	2.2 F
Trichloroethene	2.3	33 B	12	180 B
Tetrachloroethene	2.3	710	16	4800
trans-1,2-Dichloroethene	2.3	Not Detected U	9.2	Not Detected U
Benzene	2.3	0.44 F	7.4	1.4 F
Toluene	2.3	2.1 F	8.8	8.0 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL. F = The analyte was postively identified but the associated numerical value is below the RL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.



Client Sample ID: AOC65-INTAKE-DW (11:40)

Lab ID#: 1108285-04A

EPA METHOD TO-15 GC/MS

File Name:	6081726	Date of Collection: 8/10/11 11:40:00 AM
Dil. Factor:	2.33	Date of Analysis: 8/17/11 10:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.2	0.24 FB	4.7	0.99 FB
1,1,1-Trichloroethane	1.2	0.17 F	6.4	0.95 F
cis-1,2-Dichloroethene	1.2	1.8	4.6	7.3
Methylene Chloride	1.2	0.47 F	4.0	1.6 F
Trichloroethene	1.2	9.3 B	6.3	50 B
Tetrachloroethene	1.2	73	7.9	500
trans-1,2-Dichloroethene	1.2	Not Detected U	4.6	Not Detected U
Benzene	1.2	0.48 F	3.7	1.6 F
Toluene	1.2	2.1	4.4	8.1

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

••		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	97	70-130	

F = The analyte was postively identified but the associated numerical value is below the RL.

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.



Client Sample ID: AOC65-INTAKE-DW (10:15)

Lab ID#: 1108285-05A

EPA METHOD TO-15 GC/MS

File Name:	6081727	Date of Collection: 8/11/11 10:15:00 AM
Dil. Factor:	2.33	Date of Analysis: 8/17/11 10:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.2	0.17 FB	4.7	0.67 FB
1,1,1-Trichloroethane	1.2	0.16 F	6.4	0.87 F
cis-1,2-Dichloroethene	1.2	0.36 F	4.6	1.4 F
Methylene Chloride	1.2	0.89 F	4.0	3.1 F
Trichloroethene	1.2	8.2 B	6.3	44 B
Tetrachloroethene	1.2	45	7.9	300
trans-1,2-Dichloroethene	1.2	Not Detected U	4.6	Not Detected U
Benzene	1.2	0.56 F	3.7	1.8 F
Toluene	1.2	2.1	4.4	8.0

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

Container Type: 1 Liter Summa Canister

	Method	
%Recovery	Limits	
100	70-130	
100	70-130	
97	70-130	
	100 100	

Mothod

F = The analyte was postively identified but the associated numerical value is below the RL.

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.



Client Sample ID: AOC65-INTAKE-SW (10:20)

Lab ID#: 1108285-06A

EPA METHOD TO-15 GC/MS

File Name:	6081728	Date of Collection: 8/11/11 10:20:00 AM
Dil. Factor:	5.29	Date of Analysis: 8/18/11 06:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	2.6	Not Detected U	11	Not Detected U
1,1,1-Trichloroethane	2.6	Not Detected U	14	Not Detected U
cis-1,2-Dichloroethene	2.6	50	10	200
Methylene Chloride	2.6	0.74 F	9.2	2.6 F
Trichloroethene	2.6	31 B	14	170 B
Tetrachloroethene	2.6	790	18	5400
trans-1,2-Dichloroethene	2.6	Not Detected U	10	Not Detected U
Benzene	2.6	0.80 F	8.4	2.6 F
Toluene	2.6	2.2 F	10	8.1 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL. F = The analyte was postively identified but the associated numerical value is below the RL.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	96	70-130	

B = The analyte was found in an associated blank above the MDL, as well as in the sample.



Client Sample ID: B90-INTAKE-EX (10:25)

Lab ID#: 1108285-07A

EPA METHOD TO-15 GC/MS

File Name:	6081729	Date of Collection: 8/11/11 10:25:00 AM
Dil. Factor:	4.48	Date of Analysis: 8/18/11 07:19 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	2.2	Not Detected U	9.1	Not Detected U
1,1,1-Trichloroethane	2.2	Not Detected U	12	Not Detected U
cis-1,2-Dichloroethene	2.2	1.1 F	8.9	4.4 F
Methylene Chloride	2.2	0.55 F	7.8	1.9 F
Trichloroethene	2.2	5.8 B	12	31 B
Tetrachloroethene	2.2	670	15	4500
trans-1,2-Dichloroethene	2.2	Not Detected U	8.9	Not Detected U
Benzene	2.2	0.40 F	7.2	1.3 F
Toluene	2.2	1.5 F	8.4	5.6 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL. F = The analyte was postively identified but the associated numerical value is below the RL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	70-130

B = The analyte was found in an associated blank above the MDL, as well as in the sample.



Client Sample ID: B90-INTAKE-SS (10:30)

Lab ID#: 1108285-08A

EPA METHOD TO-15 GC/MS

File Name:	6081730	Date of Collection: 8/11/11 10:30:00 AM
Dil. Factor:	2.29	Date of Analysis: 8/18/11 07:43 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.1	0.26 FB	4.6	1.0 FB
1,1,1-Trichloroethane	1.1	0.29 F	6.2	1.6 F
cis-1,2-Dichloroethene	1.1	1.1	4.5	4.3
Methylene Chloride	1.1	0.65 F	4.0	2.2 F
Trichloroethene	1.1	9.8 B	6.2	53 B
Tetrachloroethene	1.1	340	7.8	2300
trans-1,2-Dichloroethene	1.1	Not Detected U	4.5	Not Detected U
Benzene	1.1	4.4	3.6	14
Toluene	1.1	37	4.3	140

B = The analyte was found in an associated blank above the MDL, as well as in the sample.

Container Type: 1 Liter Summa Canister

%Recovery	Limits
106	70-130
100	70-130
99	70-130
	106 100

Mothod

F = The analyte was postively identified but the associated numerical value is below the RL.

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.



Client Sample ID: Lab Blank Lab ID#: 1108285-09A

EPA METHOD TO-15 GC/MS

File Name:	6081722c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/11 07:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.50	0.067 F	2.0	0.27 F
1,1,1-Trichloroethane	0.50	Not Detected U	2.7	Not Detected U
cis-1,2-Dichloroethene	0.50	Not Detected U	2.0	Not Detected U
Methylene Chloride	0.50	Not Detected U	1.7	Not Detected U
Trichloroethene	0.50	0.10 F	2.7	0.55 F
Tetrachloroethene	0.50	Not Detected U	3.4	Not Detected U
trans-1,2-Dichloroethene	0.50	Not Detected U	2.0	Not Detected U
Benzene	0.50	Not Detected U	1.6	Not Detected U
Toluene	0.50	Not Detected U	1.9	Not Detected U

Container Type: NA - Not Applicable

Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	94	70-130

Method

F = The analyte was postively identified but the associated numerical value is below the RL. U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.



Client Sample ID: CCV Lab ID#: 1108285-10A

EPA METHOD TO-15 GC/MS

File Name: 6081707a Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 8/17/11 11:09 AM

Compound	%Recovery
1,2-Dichloroethane	102
1,1,1-Trichloroethane	100
cis-1,2-Dichloroethene	104
Methylene Chloride	103
Trichloroethene	100
Tetrachloroethene	101
trans-1,2-Dichloroethene	106
Benzene	102
Toluene	102

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	96	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	100	70-130	



Client Sample ID: LCS Lab ID#: 1108285-11A

EPA METHOD TO-15 GC/MS

File Name: 6081712a Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 8/17/11 01:52 PM

Compound	%Recovery
1,2-Dichloroethane	100
1,1,1-Trichloroethane	101
cis-1,2-Dichloroethene	101
Methylene Chloride	104
Trichloroethene	97
Tetrachloroethene	96
trans-1,2-Dichloroethene	116
Benzene	100
Toluene	98

21 m 1 21 m 1		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	97	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	102	70-130	



Client Sample ID: LCSD Lab ID#: 1108285-11AA

EPA METHOD TO-15 GC/MS

File Name: 6081713a Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 8/17/11 02:13 PM

Compound	%Recovery
1,2-Dichloroethane	102
1,1,1-Trichloroethane	102
cis-1,2-Dichloroethene	107
Methylene Chloride	104
Trichloroethene	98
Tetrachloroethene	98
trans-1,2-Dichloroethene	118
Benzene	101
Toluene	98

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130



4/18/2012 Ms. Cynthia Clark APPL, Inc. 908 North Temperance Ave

Clovis CA 93619

Project Name:

Project #: 748350.01000 Workorder #: 1204120

Dear Ms. Cynthia Clark

The following report includes the data for the above referenced project for sample(s) received on 4/5/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Kga Vych



WORK ORDER #: 1204120

Work Order Summary

CLIENT: Ms. Cynthia Clark BILL TO: Ms. Cynthia Clark

APPL, Inc. APPL, Inc.

908 North Temperance Ave 908 North Temperance Ave

Clovis, CA 93619 Clovis, CA 93619

PHONE: 559-275-2175 **P.O.** #

FAX: 559-275-4422 **PROJECT** # 748350.01000

DATE RECEIVED: 04/05/2012 **CONTACT:** Kyle Vagadori **DATE COMPLETED:** 04/18/2012

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	AOC65-VEW28B	Modified TO-15	2.2 "Hg	5 psi
02A	AOC65-VEW16-LGR	Modified TO-15	2.2 "Hg	5 psi
03A	AOC65-VEW15-UGR	Modified TO-15	2.2 "Hg	5 psi
04A	AOC65-VEW31	Modified TO-15	2.6 "Hg	5 psi
05A	AOC65-VEW32	Modified TO-15	2.0 "Hg	5 psi
06A	AOC65-VEW33	Modified TO-15	2.4 "Hg	5 psi
07A	AOC65-VEW30	Modified TO-15	2.2 "Hg	5 psi
08A	AOC65-VEW29	Modified TO-15	2.2 "Hg	5 psi
09A	B90-INTAKE-EX	Modified TO-15	2.6 "Hg	5 psi
10A	B90-INTAKE-SS	Modified TO-15	2.0 "Hg	5 psi
11A	AOC65-INTAKE-SW	Modified TO-15	2.6 "Hg	5 psi
12A	AOC65-VEW19-UGR	Modified TO-15	2.2 "Hg	5 psi
13A	AOC65-VEW20	Modified TO-15	3.4 "Hg	5 psi
14A	AOC65-VEW23	Modified TO-15	3.0 "Hg	5 psi
15A	AOC65-VEW25	Modified TO-15	2.8 "Hg	5 psi
16A	AOC65-VEW27	Modified TO-15	2.4 "Hg	5 psi
17A	AOC65-VEW21	Modified TO-15	5.6 "Hg	5 psi
18A	AOC65-VEW18-LGR	Modified TO-15	4.4 "Hg	5 psi
19A	Lab Blank	Modified TO-15	NA	NA
20A	CCV	Modified TO-15	NA	NA
21A	LCS	Modified TO-15	NA	NA
21AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089, NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP - CA009332011-1, WA NELAP - C935 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/11, Expiration date: 06/30/12.

04/18/12

DATE:

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE EPA Method TO-15 APPL, Inc. Workorder# 1204120

Eighteen 1 Liter Summa Canister samples were received on April 05, 2012. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

Dilution was performed on samples AOC65-VEW32, AOC65-VEW33, AOC65-VEW30, B90-INTAKE-EX, AOC65-INTAKE-SW, AOC65-VEW19-UGR, AOC65-VEW25 and AOC65-VEW27 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
 - U Compound analyzed for but not detected above the reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
 - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Client Sample ID: AOC65-VEW28B

Lab ID#: 1204120-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.72	0.85	2.9	3.4
Methylene Chloride	7.2	0.24 F	25	0.85 F
Trichloroethene	0.72	12	3.9	67
Tetrachloroethene	0.72	240	4.9	1600
Benzene	0.72	0.20 F	2.3	0.63 F
Toluene	0.72	0.81	2.7	3.0

Client Sample ID: AOC65-VEW16-LGR

Lab ID#: 1204120-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.72	1.5	2.9	5.8
Methylene Chloride	7.2	0.25 F	25	0.88 F
Trichloroethene	0.72	6.3	3.9	34
Tetrachloroethene	0.72	220	4.9	1500
Benzene	0.72	0.16 F	2.3	0.52 F
Toluene	0.72	0.76	2.7	2.9

Client Sample ID: AOC65-VEW15-UGR

Lab ID#: 1204120-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.72	1.3	2.9	5.3
Methylene Chloride	7.2	0.23 F	25	0.81 F
Trichloroethene	0.72	5.7	3.9	31
Tetrachloroethene	0.72	180	4.9	1200
Benzene	0.72	0.17 F	2.3	0.55 F
Toluene	0.72	0.74	2.7	2.8

Client Sample ID: AOC65-VEW31

Lab ID#: 1204120-04A



Client Sample ID: AOC65-VEW31

Lab ID#: 1204120-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.74	2.2	2.9	8.9
Methylene Chloride	7.4	0.36 F	26	1.2 F
Trichloroethene	0.74	9.3	4.0	50
Tetrachloroethene	0.74	170	5.0	1200
Benzene	0.74	0.15 F	2.3	0.47 F
Toluene	0.74	0.63 F	2.8	2.4 F

Client Sample ID: AOC65-VEW32

Lab ID#: 1204120-05A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Trichloroethene	7.2	12	39	66
Tetrachloroethene	7.2	2200	49	15000

Client Sample ID: AOC65-VEW33

Lab ID#: 1204120-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	1.8	3.2	7.2	13
Trichloroethene	1.8	24	9.8	130
Tetrachloroethene	1.8	530	12	3600
Benzene	1.8	0.26 F	5.8	0.83 F
Toluene	1.8	1.6 F	6.9	5.9 F

Client Sample ID: AOC65-VEW30

Lab ID#: 1204120-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	7.2	5.9 F	29	24 F
Trichloroethene	7.2	11	39	57
Tetrachloroethene	7.2	2900	49	20000



Client Sample ID: AOC65-VEW29

Lab ID#: 1204120-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
cis-1,2-Dichloroethene	0.72	1.0	2.9	4.0	
Trichloroethene	0.72	2.1	3.9	11	
Tetrachloroethene	0.72	22	4.9	150	
Benzene	0.72	0.14 F	2.3	0.43 F	
Toluene	0.72	0.47 F	2.7	1.8 F	

Client Sample ID: B90-INTAKE-EX

Lab ID#: 1204120-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.84	2.4	3.3	9.5
Methylene Chloride	8.4	0.30 F	29	1.0 F
Trichloroethene	0.84	9.2	4.5	50
Tetrachloroethene	0.84	310	5.7	2100
Benzene	0.84	0.17 F	2.7	0.54 F
Toluene	0.84	0.82 F	3.2	3.1 F

Client Sample ID: B90-INTAKE-SS

Lab ID#: 1204120-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.72	0.044 F	3.9	0.24 F
cis-1,2-Dichloroethene	0.72	0.70 F	2.8	2.8 F
Methylene Chloride	7.2	0.18 F	25	0.63 F
Trichloroethene	0.72	0.49 F	3.9	2.6 F
Tetrachloroethene	0.72	86	4.9	580
Benzene	0.72	0.34 F	2.3	1.1 F
Toluene	0.72	1.1	2.7	4.3

Client Sample ID: AOC65-INTAKE-SW

Lab ID#: 1204120-11A



Client Sample ID: AOC65-INTAKE-SW

Lab ID#: 1204120-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
cis-1,2-Dichloroethene	1.6	23	6.5	90	
Trichloroethene	1.6	24	8.8	130	
Tetrachloroethene	1.6	520	11	3500	
Benzene	1.6	0.26 F	5.2	0.82 F	
Toluene	1.6	0.85 F	6.2	3.2 F	

Client Sample ID: AOC65-VEW19-UGR

Lab ID#: 1204120-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
1,1,1-Trichloroethane	0.90	0.072 F	4.9	0.40 F	
cis-1,2-Dichloroethene	0.90	46	3.6	180	
Trichloroethene	0.90	44	4.9	240	
Tetrachloroethene	0.90	330	6.1	2200	
trans-1,2-Dichloroethene	0.90	1.0	3.6	4.1	
Benzene	0.90	0.27 F	2.9	0.86 F	
Toluene	0.90	0.87 F	3.4	3.3 F	

Client Sample ID: AOC65-VEW20

Lab ID#: 1204120-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	0.76	0.060 F	4.1	0.33 F
cis-1,2-Dichloroethene	0.76	0.81	3.0	3.2
Methylene Chloride	7.6	0.21 F	26	0.74 F
Trichloroethene	0.76	1.2	4.0	6.7
Tetrachloroethene	0.76	87	5.1	590
Benzene	0.76	0.36 F	2.4	1.1 F
Toluene	0.76	1.0	2.8	3.8

Client Sample ID: AOC65-VEW23

Lab ID#: 1204120-14A



Client Sample ID: AOC65-VEW23

Lab ID#: 1204120-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
cis-1,2-Dichloroethene	0.74	1.8	3.0	7.3	
Trichloroethene	0.74	3.8	4.0	20	
Tetrachloroethene	0.74	23	5.0	160	
Benzene	0.74	0.30 F	2.4	0.94 F	
Toluene	0.74	0.73 F	2.8	2.8 F	

Client Sample ID: AOC65-VEW25

Lab ID#: 1204120-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	2.5	0.12 F	13	0.64 F
cis-1,2-Dichloroethene	2.5	8.9	9.8	35
Trichloroethene	2.5	21	13	120
Tetrachloroethene	2.5	690	17	4700
Benzene	2.5	0.27 F	7.9	0.88 F
Toluene	2.5	0.87 F	9.3	3.3 F

Client Sample ID: AOC65-VEW27

Lab ID#: 1204120-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
cis-1,2-Dichloroethene	2.9	3.4	12	14	
Trichloroethene	2.9	6.1	16	32	
Tetrachloroethene	2.9	1000	20	6900	
Toluene	2.9	0.77 F	11	2.9 F	

Client Sample ID: AOC65-VEW21

Lab ID#: 1204120-17A

	Rpt. Limit	Amount	Rpt. Limit	Amount	
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)	
cis-1,2-Dichloroethene	0.82	1.8	3.3	7.1	
Trichloroethene	0.82	5.0	4.4	27	



Client Sample ID: AOC65-VEW21

Lab ID#: 1204120-17A

Tetrachloroethene	0.82	16	5.6	110
Benzene	0.82	0.14 F	2.6	0.46 F
Toluene	0.82	0.81 F	3.1	3.0 F

Client Sample ID: AOC65-VEW18-LGR

Lab ID#: 1204120-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	7.8	0.27 F	27	0.95 F
Trichloroethene	0.78	1.2	4.2	6.4
Tetrachloroethene	0.78	23	5.3	160
Benzene	0.78	0.20 F	2.5	0.63 F
Toluene	0.78	0.51 F	3.0	1.9 F



Client Sample ID: AOC65-VEW28B Lab ID#: 1204120-01A

EPA METHOD TO-15 GC/MS

File Name:	p040611	Date of Collection: 4/3/12 9:29:00 AM
Dil. Factor:	1.45	Date of Analysis: 4/6/12 05:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.72	Not Detected U	2.9	Not Detected U
1,1,1-Trichloroethane	0.72	Not Detected U	4.0	Not Detected U
cis-1,2-Dichloroethene	0.72	0.85	2.9	3.4
Methylene Chloride	7.2	0.24 F	25	0.85 F
Trichloroethene	0.72	12	3.9	67
Tetrachloroethene	0.72	240	4.9	1600
trans-1,2-Dichloroethene	0.72	Not Detected U	2.9	Not Detected U
Benzene	0.72	0.20 F	2.3	0.63 F
Toluene	0.72	0.81	2.7	3.0

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	90	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW16-LGR Lab ID#: 1204120-02A

EPA METHOD TO-15 GC/MS

File Name:	p040612	Date of Collection: 4/3/12 9:35:00 AM
Dil. Factor:	1.45	Date of Analysis: 4/6/12 06:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.72	Not Detected U	2.9	Not Detected U
1,1,1-Trichloroethane	0.72	Not Detected U	4.0	Not Detected U
cis-1,2-Dichloroethene	0.72	1.5	2.9	5.8
Methylene Chloride	7.2	0.25 F	25	0.88 F
Trichloroethene	0.72	6.3	3.9	34
Tetrachloroethene	0.72	220	4.9	1500
trans-1,2-Dichloroethene	0.72	Not Detected U	2.9	Not Detected U
Benzene	0.72	0.16 F	2.3	0.52 F
Toluene	0.72	0.76	2.7	2.9

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	90	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW15-UGR Lab ID#: 1204120-03A

EPA METHOD TO-15 GC/MS

File Name:	p040613	Date of Collection: 4/3/12 9:41:00 AM
Dil. Factor:	1.45	Date of Analysis: 4/6/12 06:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.72	Not Detected U	2.9	Not Detected U
1,1,1-Trichloroethane	0.72	Not Detected U	4.0	Not Detected U
cis-1,2-Dichloroethene	0.72	1.3	2.9	5.3
Methylene Chloride	7.2	0.23 F	25	0.81 F
Trichloroethene	0.72	5.7	3.9	31
Tetrachloroethene	0.72	180	4.9	1200
trans-1,2-Dichloroethene	0.72	Not Detected U	2.9	Not Detected U
Benzene	0.72	0.17 F	2.3	0.55 F
Toluene	0.72	0.74	2.7	2.8

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	91	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW31 Lab ID#: 1204120-04A

EPA METHOD TO-15 GC/MS

File Name:	p040615	Date of Collection: 4/3/12 9:51:00 AM
Dil. Factor:	1.47	Date of Analysis: 4/6/12 07:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.74	Not Detected U	3.0	Not Detected U
1,1,1-Trichloroethane	0.74	Not Detected U	4.0	Not Detected U
cis-1,2-Dichloroethene	0.74	2.2	2.9	8.9
Methylene Chloride	7.4	0.36 F	26	1.2 F
Trichloroethene	0.74	9.3	4.0	50
Tetrachloroethene	0.74	170	5.0	1200
trans-1,2-Dichloroethene	0.74	Not Detected U	2.9	Not Detected U
Benzene	0.74	0.15 F	2.3	0.47 F
Toluene	0.74	0.63 F	2.8	2.4 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW32 Lab ID#: 1204120-05A

EPA METHOD TO-15 GC/MS

File Name:	p040628	Date of Collection: 4/3/12 9:57:00 AM
Dil. Factor:	14.4	Date of Analysis: 4/7/12 10:05 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	7.2	Not Detected U	29	Not Detected U
1,1,1-Trichloroethane	7.2	Not Detected U	39	Not Detected U
cis-1,2-Dichloroethene	7.2	Not Detected U	28	Not Detected U
Methylene Chloride	72	Not Detected U	250	Not Detected U
Trichloroethene	7.2	12	39	66
Tetrachloroethene	7.2	2200	49	15000
trans-1,2-Dichloroethene	7.2	Not Detected U	28	Not Detected U
Benzene	7.2	Not Detected U	23	Not Detected U
Toluene	7.2	Not Detected U	27	Not Detected U

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	88	70-130



Client Sample ID: AOC65-VEW33 Lab ID#: 1204120-06A

EPA METHOD TO-15 GC/MS

File Name:	p040614	Date of Collection: 4/3/12 10:04:00 AM
Dil. Factor:	3.65	Date of Analysis: 4/6/12 07:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.8	Not Detected U	7.4	Not Detected U
1,1,1-Trichloroethane	1.8	Not Detected U	10	Not Detected U
cis-1,2-Dichloroethene	1.8	3.2	7.2	13
Methylene Chloride	18	Not Detected U	63	Not Detected U
Trichloroethene	1.8	24	9.8	130
Tetrachloroethene	1.8	530	12	3600
trans-1,2-Dichloroethene	1.8	Not Detected U	7.2	Not Detected U
Benzene	1.8	0.26 F	5.8	0.83 F
Toluene	1.8	1.6 F	6.9	5.9 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	91	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW30 Lab ID#: 1204120-07A

EPA METHOD TO-15 GC/MS

File Name:	p040627	Date of Collection: 4/3/12 10:10:00 AM
Dil. Factor:	14.5	Date of Analysis: 4/7/12 09:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	7.2	Not Detected U	29	Not Detected U
1,1,1-Trichloroethane	7.2	Not Detected U	40	Not Detected U
cis-1,2-Dichloroethene	7.2	5.9 F	29	24 F
Methylene Chloride	72	Not Detected U	250	Not Detected U
Trichloroethene	7.2	11	39	57
Tetrachloroethene	7.2	2900	49	20000
trans-1,2-Dichloroethene	7.2	Not Detected U	29	Not Detected U
Benzene	7.2	Not Detected U	23	Not Detected U
Toluene	7.2	Not Detected U	27	Not Detected U

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	95	70-130	
4-Bromofluorobenzene	91	70-130	

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW29 Lab ID#: 1204120-08A

EPA METHOD TO-15 GC/MS

File Name:	p040616	Date of Collection: 4/3/12 10:17:00 AM
Dil. Factor:	1.45	Date of Analysis: 4/6/12 07:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.72	Not Detected U	2.9	Not Detected U
1,1,1-Trichloroethane	0.72	Not Detected U	4.0	Not Detected U
cis-1,2-Dichloroethene	0.72	1.0	2.9	4.0
Methylene Chloride	7.2	Not Detected U	25	Not Detected U
Trichloroethene	0.72	2.1	3.9	11
Tetrachloroethene	0.72	22	4.9	150
trans-1,2-Dichloroethene	0.72	Not Detected U	2.9	Not Detected U
Benzene	0.72	0.14 F	2.3	0.43 F
Toluene	0.72	0.47 F	2.7	1.8 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: B90-INTAKE-EX Lab ID#: 1204120-09A

EPA METHOD TO-15 GC/MS

File Name:	p040617	Date of Collection: 4/3/12 10:24:00 AM
Dil. Factor:	1.68	Date of Analysis: 4/6/12 08:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.84	Not Detected U	3.4	Not Detected U
1,1,1-Trichloroethane	0.84	Not Detected U	4.6	Not Detected U
cis-1,2-Dichloroethene	0.84	2.4	3.3	9.5
Methylene Chloride	8.4	0.30 F	29	1.0 F
Trichloroethene	0.84	9.2	4.5	50
Tetrachloroethene	0.84	310	5.7	2100
trans-1,2-Dichloroethene	0.84	Not Detected U	3.3	Not Detected U
Benzene	0.84	0.17 F	2.7	0.54 F
Toluene	0.84	0.82 F	3.2	3.1 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	92	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: B90-INTAKE-SS Lab ID#: 1204120-10A

EPA METHOD TO-15 GC/MS

File Name:	p040618	Date of Collection: 4/3/12 10:35:00 AM
Dil. Factor:	1.44	Date of Analysis: 4/6/12 08:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.72	Not Detected U	2.9	Not Detected U
1,1,1-Trichloroethane	0.72	0.044 F	3.9	0.24 F
cis-1,2-Dichloroethene	0.72	0.70 F	2.8	2.8 F
Methylene Chloride	7.2	0.18 F	25	0.63 F
Trichloroethene	0.72	0.49 F	3.9	2.6 F
Tetrachloroethene	0.72	86	4.9	580
trans-1,2-Dichloroethene	0.72	Not Detected U	2.8	Not Detected U
Benzene	0.72	0.34 F	2.3	1.1 F
Toluene	0.72	1.1	2.7	4.3

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	93	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-INTAKE-SW Lab ID#: 1204120-11A

EPA METHOD TO-15 GC/MS

File Name:	p040619	Date of Collection: 4/3/12 10:57:00 AM
Dil. Factor:	3.27	Date of Analysis: 4/6/12 08:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	1.6	Not Detected U	6.6	Not Detected U
1,1,1-Trichloroethane	1.6	Not Detected U	8.9	Not Detected U
cis-1,2-Dichloroethene	1.6	23	6.5	90
Methylene Chloride	16	Not Detected U	57	Not Detected U
Trichloroethene	1.6	24	8.8	130
Tetrachloroethene	1.6	520	11	3500
trans-1,2-Dichloroethene	1.6	Not Detected U	6.5	Not Detected U
Benzene	1.6	0.26 F	5.2	0.82 F
Toluene	1.6	0.85 F	6.2	3.2 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	95	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW19-UGR Lab ID#: 1204120-12A

EPA METHOD TO-15 GC/MS

File Name:	p040620	Date of Collection: 4/3/12 11:02:00 AM
Dil. Factor:	1.81	Date of Analysis: 4/6/12 09:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.90	Not Detected U	3.7	Not Detected U
1,1,1-Trichloroethane	0.90	0.072 F	4.9	0.40 F
cis-1,2-Dichloroethene	0.90	46	3.6	180
Methylene Chloride	9.0	Not Detected U	31	Not Detected U
Trichloroethene	0.90	44	4.9	240
Tetrachloroethene	0.90	330	6.1	2200
trans-1,2-Dichloroethene	0.90	1.0	3.6	4.1
Benzene	0.90	0.27 F	2.9	0.86 F
Toluene	0.90	0.87 F	3.4	3.3 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

Container Type: I Eller Cullina Cullicio		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW20 Lab ID#: 1204120-13A

EPA METHOD TO-15 GC/MS

File Name:	p040621	Date of Collection: 4/3/12 11:08:00 AM
Dil. Factor:	1.51	Date of Analysis: 4/6/12 09:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.76	Not Detected U	3.0	Not Detected U
1,1,1-Trichloroethane	0.76	0.060 F	4.1	0.33 F
cis-1,2-Dichloroethene	0.76	0.81	3.0	3.2
Methylene Chloride	7.6	0.21 F	26	0.74 F
Trichloroethene	0.76	1.2	4.0	6.7
Tetrachloroethene	0.76	87	5.1	590
trans-1,2-Dichloroethene	0.76	Not Detected U	3.0	Not Detected U
Benzene	0.76	0.36 F	2.4	1.1 F
Toluene	0.76	1.0	2.8	3.8

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

Container Type: 1 Ener Canina Camere		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW23 Lab ID#: 1204120-14A

EPA METHOD TO-15 GC/MS

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File Name:	p040622	Date of Collection: 4/3/12 11:15:00 AM
Dil. Factor:	1.49	Date of Analysis: 4/6/12 10:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.74	Not Detected U	3.0	Not Detected U
1,1,1-Trichloroethane	0.74	Not Detected U	4.1	Not Detected U
cis-1,2-Dichloroethene	0.74	1.8	3.0	7.3
Methylene Chloride	7.4	Not Detected U	26	Not Detected U
Trichloroethene	0.74	3.8	4.0	20
Tetrachloroethene	0.74	23	5.0	160
trans-1,2-Dichloroethene	0.74	Not Detected U	3.0	Not Detected U
Benzene	0.74	0.30 F	2.4	0.94 F
Toluene	0.74	0.73 F	2.8	2.8 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	91	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW25 Lab ID#: 1204120-15A

EPA METHOD TO-15 GC/MS

File Name:	p040623	Date of Collection: 4/3/12 11:21:00 AM
Dil. Factor:	4.93	Date of Analysis: 4/6/12 10:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	2.5	Not Detected U	10	Not Detected U
1,1,1-Trichloroethane	2.5	0.12 F	13	0.64 F
cis-1,2-Dichloroethene	2.5	8.9	9.8	35
Methylene Chloride	25	Not Detected U	86	Not Detected U
Trichloroethene	2.5	21	13	120
Tetrachloroethene	2.5	690	17	4700
trans-1,2-Dichloroethene	2.5	Not Detected U	9.8	Not Detected U
Benzene	2.5	0.27 F	7.9	0.88 F
Toluene	2.5	0.87 F	9.3	3.3 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

•		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW27 Lab ID#: 1204120-16A

EPA METHOD TO-15 GC/MS

File Name:	p040626	Date of Collection: 4/3/12 11:26:00 AM
Dil. Factor:	5.84	Date of Analysis: 4/7/12 08:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	2.9	Not Detected U	12	Not Detected U
1,1,1-Trichloroethane	2.9	Not Detected U	16	Not Detected U
cis-1,2-Dichloroethene	2.9	3.4	12	14
Methylene Chloride	29	Not Detected U	100	Not Detected U
Trichloroethene	2.9	6.1	16	32
Tetrachloroethene	2.9	1000	20	6900
trans-1,2-Dichloroethene	2.9	Not Detected U	12	Not Detected U
Benzene	2.9	Not Detected U	9.3	Not Detected U
Toluene	2.9	0.77 F	11	2.9 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	91	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW21 Lab ID#: 1204120-17A

EPA METHOD TO-15 GC/MS

File Name:	p040624	Date of Collection: 4/3/12 1:55:00 PM
Dil. Factor:	1.65	Date of Analysis: 4/6/12 10:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.82	Not Detected U	3.3	Not Detected U
1,1,1-Trichloroethane	0.82	Not Detected U	4.5	Not Detected U
cis-1,2-Dichloroethene	0.82	1.8	3.3	7.1
Methylene Chloride	8.2	Not Detected U	29	Not Detected U
Trichloroethene	0.82	5.0	4.4	27
Tetrachloroethene	0.82	16	5.6	110
trans-1,2-Dichloroethene	0.82	Not Detected U	3.3	Not Detected U
Benzene	0.82	0.14 F	2.6	0.46 F
Toluene	0.82	0.81 F	3.1	3.0 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: AOC65-VEW18-LGR Lab ID#: 1204120-18A

EPA METHOD TO-15 GC/MS

File Name:	p040625	Date of Collection: 4/3/12 2:00:00 PM
Dil. Factor:	1.57	Date of Analysis: 4/7/12 08:13 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.78	Not Detected U	3.2	Not Detected U
1,1,1-Trichloroethane	0.78	Not Detected U	4.3	Not Detected U
cis-1,2-Dichloroethene	0.78	Not Detected U	3.1	Not Detected U
Methylene Chloride	7.8	0.27 F	27	0.95 F
Trichloroethene	0.78	1.2	4.2	6.4
Tetrachloroethene	0.78	23	5.3	160
trans-1,2-Dichloroethene	0.78	Not Detected U	3.1	Not Detected U
Benzene	0.78	0.20 F	2.5	0.63 F
Toluene	0.78	0.51 F	3.0	1.9 F

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	87	70-130

F = The analyte was postively identified but the associated numerical value is below the RL.



Client Sample ID: Lab Blank Lab ID#: 1204120-19A

EPA METHOD TO-15 GC/MS

p040606	Da	te of Collection: NA	
1.00	Date of Analysis: 4/6/12 12:45 PM		2 12:45 PM
Rpt. Limit	Amount	Rpt. Limit	Amount
	1.00	1.00 Da Rpt. Limit Amount	1.00 Date of Analysis: 4/6/12 Rpt. Limit Amount Rpt. Limit

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichloroethane	0.50	Not Detected U	2.0	Not Detected U
1,1,1-Trichloroethane	0.50	Not Detected U	2.7	Not Detected U
cis-1,2-Dichloroethene	0.50	Not Detected U	2.0	Not Detected U
Methylene Chloride	5.0	Not Detected U	17	Not Detected U
Trichloroethene	0.50	Not Detected U	2.7	Not Detected U
Tetrachloroethene	0.50	Not Detected U	3.4	Not Detected U
trans-1,2-Dichloroethene	0.50	Not Detected U	2.0	Not Detected U
Benzene	0.50	Not Detected U	1.6	Not Detected U
Toluene	0.50	Not Detected U	1.9	Not Detected U

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130



Client Sample ID: CCV Lab ID#: 1204120-20A

EPA METHOD TO-15 GC/MS

File Name: p040602 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 4/6/12 10:58 AM

Compound	%Recovery
1,2-Dichloroethane	95
1,1,1-Trichloroethane	93
cis-1,2-Dichloroethene	93
Methylene Chloride	98
Trichloroethene	89
Tetrachloroethene	94
trans-1,2-Dichloroethene	95
Benzene	92
Toluene	89

остание турстия постариналь		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130



Client Sample ID: LCS Lab ID#: 1204120-21A

EPA METHOD TO-15 GC/MS

File Name: p040603 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 4/6/12 11:33 AM

Compound	%Recovery
1,2-Dichloroethane	104
1,1,1-Trichloroethane	101
cis-1,2-Dichloroethene	100
Methylene Chloride	103
Trichloroethene	99
Tetrachloroethene	100
trans-1,2-Dichloroethene	114
Benzene	100
Toluene	96

урегин постърновно		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130



Client Sample ID: LCSD Lab ID#: 1204120-21AA

EPA METHOD TO-15 GC/MS

File Name: p040604 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 4/6/12 11:51 AM

Compound	%Recovery
1,2-Dichloroethane	102
1,1,1-Trichloroethane	99
cis-1,2-Dichloroethene	99
Methylene Chloride	102
Trichloroethene	98
Tetrachloroethene	98
trans-1,2-Dichloroethene	114
Benzene	99
Toluene	94

остание турстия постариналь		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	70-130