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Client Sample ID: P1SVE-EFFC1-011916

Lab ID#: 1601299-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17012619**	**Date of Collection:**	**1/19/16 9:50:00 AM**
Dil. Factor:	**2.12**	**Date of Analysis:**	**1/26/16 06:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Acetone	11	Not Detected	25	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.1	15	4.3	62
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.1	2.8	4.2	11
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	80	5.8	440
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Trichloroethene	1.1	11	5.7	61
Toluene	1.1	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	100	7.2	700
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
m,p-Xylene	1.1	Not Detected	4.6	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	125	70-130

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Client Sample ID: P2SVE-EFFC4-011916

Lab ID#: 1601299-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17012620**	**Date of Collection:**	**1/19/16 9:55:00 AM**
Dil. Factor:	**2.17**	**Date of Analysis:**	**1/26/16 06:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	Not Detected	26	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.1	1.7	4.4	7.0
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	3.4	4.3	13
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	39	5.9	210
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	11	5.8	58
Toluene	1.1	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	62	7.4	420
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	119	70-130

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Client Sample ID: P2SVE-EFFC5-011916

Lab ID#: 1601299-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17012621**	**Date of Collection:**	**1/19/16 10:00:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**1/26/16 07:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Acetone	11	Not Detected	25	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.1	1.9	4.3	7.8
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	1.3	4.2	5.2
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	78	5.8	420
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Trichloroethene	1.1	2.0	5.8	11
Toluene	1.1	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	10	7.2	71
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
m,p-Xylene	1.1	Not Detected	4.6	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	118	70-130

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Client Sample ID: P1SVE-EFFC2-011916

Lab ID#: 1601299-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17012622**	**Date of Collection:**	**1/19/16 10:10:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**1/26/16 07:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
1,1-Dichloroethene	1.1	2.5	4.2	9.9
Acetone	11	Not Detected	25	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.1	89	4.3	360
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	3.2	4.2	13
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	260	5.8	1400
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Trichloroethene	1.1	8.5	5.8	46
Toluene	1.1	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	14	7.2	94
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
m,p-Xylene	1.1	Not Detected	4.6	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	116	70-130

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Client Sample ID: P1SVE-EFFC3-011916

Lab ID#: 1601299-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17012623**	**Date of Collection:**	**1/19/16 10:55:00 AM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**1/26/16 08:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	Not Detected	26	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.1	2.6	4.4	10
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	1.3	4.3	5.3
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	68	5.9	370
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	6.6	5.8	36
Toluene	1.1	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	12	7.3	78
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1601299-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17012606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/26/16 11:47 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1601299-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	17012602	**Date of Collection: NA**	
Dil. Factor:	1.00	**Date of Analysis: 1/26/16 09:34 AM**	

Compound	**%Recovery**
Vinyl Chloride	80
Chloroethane	82
1,1-Dichloroethene	89
Acetone	86
Methylene Chloride	83
trans-1,2-Dichloroethene	93
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	93
Chloroform	89
1,1,1-Trichloroethane	92
Carbon Tetrachloride	96
Benzene	88
1,2-Dichloroethane	89
Trichloroethene	87
Toluene	92
1,1,2-Trichloroethane	88
Tetrachloroethene	101
Ethyl Benzene	106
m,p-Xylene	112
o-Xylene	110

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCS

Lab ID#: 1601299-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	17012603	**Date of Collection: NA**	
Dil. Factor:	1.00	**Date of Analysis: 1/26/16 10:00 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	84	70-130
Chloroethane	84	70-130
1,1-Dichloroethene	92	70-130
Acetone	78	70-130
Methylene Chloride	84	70-130
trans-1,2-Dichloroethene	95	70-130
1,1-Dichloroethane	86	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
cis-1,2-Dichloroethene	92	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	93	70-130
Carbon Tetrachloride	88	70-130
Benzene	88	70-130
1,2-Dichloroethane	88	70-130
Trichloroethene	120	70-130
Toluene	92	70-130
1,1,2-Trichloroethane	87	70-130
Tetrachloroethene	100	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	111	70-130
o-Xylene	113	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCSD

Lab ID#: 1601299-08AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17012604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/26/16 10:27 AM**	

Compound	**%Recovery**	**Method Limits**
Vinyl Chloride	88	70-130
Chloroethane	86	70-130
1,1-Dichloroethene	96	70-130
Acetone	84	70-130
Methylene Chloride	84	70-130
trans-1,2-Dichloroethene	98	70-130
1,1-Dichloroethane	88	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	94	70-130
Chloroform	91	70-130
1,1,1-Trichloroethane	94	70-130
Carbon Tetrachloride	92	70-130
Benzene	86	70-130
1,2-Dichloroethane	87	70-130
Trichloroethene	118	70-130
Toluene	91	70-130
1,1,2-Trichloroethane	85	70-130
Tetrachloroethene	101	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	110	70-130
o-Xylene	113	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	108	70-130

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4/11/2016
Mr. Peter Hollatz
AECOM Environment
4320 Winfield Road

Warrenville IL 60555

Project Name: UTC-HS-Plant 1
Project #: 60480278
Workorder #: 1603431R1

Dear Mr. Peter Hollatz

The following report includes the data for the above referenced project for sample(s) received on 3/22/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-14A 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

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WORK ORDER #: 1603431R1

Work Order Summary

CLIENT:	Mr. Peter Hollatz AECOM Environment 4320 Winfield Road Warrenville, IL 60555	**BILL TO:**	Accounts Payable-Warrenville AECOM Environment 4320 Winfield Road Warrenville, IL 60555
PHONE:	630 829-2736	**P.O. #**	60480278
FAX:	630-657-6305	**PROJECT #**	60480278 UTC-HS-Plant 1
DATE RECEIVED:	03/22/2016	**CONTACT:**	Ausha Scott
DATE COMPLETED:	04/04/2016		
DATE REISSUED:	04/11/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	P1SVE-EFFC2-031816	Modified TO-14A	3.3 "Hg	14.5 psi
02A	P1SVE-EFFC3-031816	Modified TO-14A	3.3 "Hg	14.6 psi
03A	P1SVE-EFFC1-031816	Modified TO-14A	3.1 "Hg	14.9 psi
04A	P2SVE-EFFC4-031816	Modified TO-14A	3.1 "Hg	15.1 psi
05A	P2SVE-EFFC5-031816	Modified TO-14A	2 "Hg	14.7 psi
06A	Lab Blank	Modified TO-14A	NA	NA
07A	CCV	Modified TO-14A	NA	NA
08A	LCS	Modified TO-14A	NA	NA
08AA	LCSD	Modified TO-14A	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 04/11/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-14A
AECOM Environment
Workorder# 1603431R1

Five 1 Liter Summa Canister samples were received on March 22, 2016. The laboratory performed analysis via modified EPA Method TO-14A 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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications. Please note that TO-14A was validated for specially treated canisters, and the use of Tedlar bags for sample collection is outside the scope of the method.

Requirement	*TO-14A*	*ATL Modifications*
Initial Calibration criteria	RSD</=30%	Follow TO-15 requirements of RSD</=30% with two compounds allowed out to </=40%RSD.
BFB absolute abundance criteria	Within 10% of that from previous day	CCV internal standard area counts are compared to ICAL, corrective action when recovery is less than 60%.
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Sample Drying System	Nafion Dryer	Multibed hydrophobic sorbent
BFB ion abundance criteria	Ion abundance listed in Table 4 of TO-14A	Follow ion abundance criteria listed in Method TO-15

Receiving Notes

There were no receiving discrepancies.

The work order was reissued on April 11, 2016 to correct the project name due to laboratory transcription error.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Nine 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 no 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, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated calculation due to estimated sampling rate.

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

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: P1SVE-EFFC2-031816

Lab ID#: 1603431R1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethane	1.1	9.5	4.5	39
1,1,1-Trichloroethane	1.1	23	6.1	120
Trichloroethene	1.1	3.0	6.0	16
Tetrachloroethene	1.1	3.6	7.6	25

Client Sample ID: P1SVE-EFFC3-031816

Lab ID#: 1603431R1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethane	1.1	2.4	4.5	9.9
cis-1,2-Dichloroethene	1.1	3.8	4.4	15
1,1,1-Trichloroethane	1.1	66	6.1	360
Trichloroethene	1.1	11	6.0	57
Tetrachloroethene	1.1	2.7	7.6	18

Client Sample ID: P1SVE-EFFC1-031816

Lab ID#: 1603431R1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	1.1	1.9	4.4	7.6
1,1-Dichloroethane	1.1	14	4.5	56
cis-1,2-Dichloroethene	1.1	3.6	4.4	14
1,1,1-Trichloroethane	1.1	48	6.1	260
Trichloroethene	1.1	7.7	6.0	41
Tetrachloroethene	1.1	43	7.6	290
m,p-Xylene	1.1	3.8	4.9	17

Client Sample ID: P2SVE-EFFC4-031816

Lab ID#: 1603431R1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	1.1	1.2	4.5	4.8

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: P2SVE-EFFC4-031816

Lab ID#: 1603431R1-04A

1,1-Dichloroethane	1.1	5.0	4.6	20
cis-1,2-Dichloroethene	1.1	6.8	4.5	27
1,1,1-Trichloroethane	1.1	88	6.2	480
Trichloroethene	1.1	11	6.1	60
Toluene	1.1	2.7	4.2	10
Tetrachloroethene	1.1	52	7.7	360
m,p-Xylene	1.1	9.7	4.9	42
o-Xylene	1.1	4.1	4.9	18

Client Sample ID: P2SVE-EFFC5-031816

Lab ID#: 1603431R1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	1.1	5.4	4.2	22
1,1-Dichloroethane	1.1	21	4.3	84
cis-1,2-Dichloroethene	1.1	11	4.2	45
1,1,1-Trichloroethane	1.1	340	5.8	1800
Trichloroethene	1.1	8.5	5.8	46
Tetrachloroethene	1.1	30	7.2	200

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Client Sample ID: P1SVE-EFFC2-031816

Lab ID#: 1603431R1-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032810**	**Date of Collection:**	**3/18/16 8:35:00 AM**
Dil. Factor:	**2.23**	**Date of Analysis:**	**3/28/16 05:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	26	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.1	9.5	4.5	39
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	23	6.1	120
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	3.0	6.0	16
Toluene	1.1	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	3.6	7.6	25
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	115	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: P1SVE-EFFC3-031816

Lab ID#: 1603431R1-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032811**	**Date of Collection:**	**3/18/16 9:00:00 AM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**3/28/16 06:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	27	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.1	2.4	4.5	9.9
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	3.8	4.4	15
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	66	6.1	360
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	11	6.0	57
Toluene	1.1	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	2.7	7.6	18
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: P1SVE-EFFC1-031816

Lab ID#: 1603431R1-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032812**	**Date of Collection:**	**3/18/16 9:40:00 AM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**3/28/16 06:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.1	1.9	4.4	7.6
Acetone	11	Not Detected	27	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.1	14	4.5	56
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	3.6	4.4	14
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	48	6.1	260
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	7.7	6.0	41
Toluene	1.1	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	43	7.6	290
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	3.8	4.9	17
o-Xylene	1.1	Not Detected	4.9	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	114	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: P2SVE-EFFC4-031816

Lab ID#: 1603431R1-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032813**	**Date of Collection:**	**3/18/16 9:50:00 AM**
Dil. Factor:	**2.26**	**Date of Analysis:**	**3/28/16 06:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.1	1.2	4.5	4.8
Acetone	11	Not Detected	27	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.1	5.0	4.6	20
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	6.8	4.5	27
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	88	6.2	480
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	11	6.1	60
Toluene	1.1	2.7	4.2	10
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	52	7.7	360
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	9.7	4.9	42
o-Xylene	1.1	4.1	4.9	18

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	114	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: P2SVE-EFFC5-031816

Lab ID#: 1603431R1-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032814**	**Date of Collection:**	**3/18/16 9:55:00 AM**
Dil. Factor:	**2.14**	**Date of Analysis:**	**3/28/16 07:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
1,1-Dichloroethene	1.1	5.4	4.2	22
Acetone	11	Not Detected	25	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.1	21	4.3	84
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	11	4.2	45
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	340	5.8	1800
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Trichloroethene	1.1	8.5	5.8	46
Toluene	1.1	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	30	7.2	200
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
m,p-Xylene	1.1	Not Detected	4.6	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	115	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1603431R1-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/16 01:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	114	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 1603431R1-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032802**		**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/28/16 11:27 AM**

Compound	**%Recovery**
Vinyl Chloride	94
Chloroethane	92
1,1-Dichloroethene	91
Acetone	104
Methylene Chloride	99
trans-1,2-Dichloroethene	97
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	102
Chloroform	101
1,1,1-Trichloroethane	96
Carbon Tetrachloride	96
Benzene	98
1,2-Dichloroethane	93
Trichloroethene	101
Toluene	102
1,1,2-Trichloroethane	87
Tetrachloroethene	91
Ethyl Benzene	91
m,p-Xylene	94
o-Xylene	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	112	70-130
4-Bromofluorobenzene	76	70-130

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Client Sample ID: LCS

Lab ID#: 1603431R1-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/16 11:53 AM**	

Compound	**%Recovery**	**Method Limits**
Vinyl Chloride	98	70-130
Chloroethane	97	70-130
1,1-Dichloroethene	90	70-130
Acetone	93	70-130
Methylene Chloride	99	70-130
trans-1,2-Dichloroethene	96	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
cis-1,2-Dichloroethene	98	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	96	70-130
Carbon Tetrachloride	97	70-130
Benzene	95	70-130
1,2-Dichloroethane	89	70-130
Trichloroethene	97	70-130
Toluene	98	70-130
1,1,2-Trichloroethane	112	70-130
Tetrachloroethene	111	70-130
Ethyl Benzene	92	70-130
m,p-Xylene	93	70-130
o-Xylene	94	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	112	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1603431R1-08AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**3032804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/28/16 12:20 PM**	

Compound	**%Recovery**	**Method Limits**
Vinyl Chloride	98	70-130
Chloroethane	85	70-130
1,1-Dichloroethene	87	70-130
Acetone	88	70-130
Methylene Chloride	95	70-130
trans-1,2-Dichloroethene	90	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	101	70-130
cis-1,2-Dichloroethene	99	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	95	70-130
Carbon Tetrachloride	97	70-130
Benzene	99	70-130
1,2-Dichloroethane	96	70-130
Trichloroethene	102	70-130
Toluene	104	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	102	70-130
Ethyl Benzene	83	70-130
m,p-Xylene	83	70-130
o-Xylene	84	70-130

Container Type: NA - Not Applicable

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

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Appendix C

First Quarter 2016 Phase1/Phase 2 AS/SVE System Operations Data Sheets

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	3-11-16	3-12-16	3-13-16	3-14-16	3-15-16	3-16-16	3-17-16	3-18-16	3-20-16	
TIME	8:02 AM	11:15 AM	8:20 AM	9:58 AM	8:47 AM	12:47 PM	12:35 PM	08:13		
OBSERVER'S INITIALS	RK	[illegible]	[illegible]	RK	RK	RK	RK	AH		
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA		
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA		
HOURS METERS										
B-701 SVE (hrs)	39232	39259	39279	39305	39328	39356	39379	39399		
C-2201 SPRG (hrs)	33894	33922	33942	33968	33991	34019	34043	34063		
F-2501 H-XCH (hrs)	33894	33922	33942	33968	33991	34019	34043	34063		
ANALOGS										
MV-701 SVE POS (%)	29	29	29	29	29	29	29	29		
PT-701 SVE (-wc)	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6		
PT-2501 SPRG (psi)	13.5	12.2	12.1	13.2	13.4	13.4	13.1	13.2		
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0		
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60		
SVON-102 SVE (min)	60	60	60	60	60	60	60	60		
SVON-103 SVE (min)	180	180	180	180	180	180	180	180		
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60		
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60		
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180		
SPRG DELAY (min)	0	0	0	0	0	0	0	0		
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30		

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	3-1-16	3-2-16	3-3-16	3-4-16	3-5-16	3-6-16	3-7-16	3-8-16	3-9-16	3-10-16
TIME	12:17 Pm	1:11 Pm	1:24 Pm	7:49 Am	9:08 Am	9:48 Am	10:19 Am	7:57 Am	7:51 Am	10:29 Am
OBSERVER'S INITIALS	RK	RK	RK	RK	RK	KA	RK	RK	RK	RK
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	38997	39022	39046	39064	39089	39114	39138	39160	39184	39211
C-2201 SPRG (hrs)	33657	33682	33706	33725	33750	33775	33800	33822	33846	33873
F-2501 H-XCH (hrs)	33657	33682	33706	33725	33750	33775	33800	33822	33846	33873
ANALOGS										
MV-701 SVE POS (%)	29	29	29	29	29	29	29	29	29	29
PT-701 SVE (-wc)	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	81.6	81.6
PT-2501 SPRG (psi)	12.3	12.2	13.4	13.5	13.5	13.5	13.3	12.2	13.4	13.4
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	2-20-16	2-21-16	2-22-16	2-23-16	2-24-16	2-25-16	2-26-16	2-27-16	2-28-16	2-29-16
TIME	12:30 PM	8:40 Am	10:05 Am	12:31 Pm	11:05 Am	8:52 Am	7:49 Am	9:40 Am	7:40 AM	10:00 Am
OBSERVER'S INITIALS	JM	RA	RK	RK	RK	RK	RK	RA	DE	RK
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	38759	38774	38805	38829	38852	38873	38896	38922	38944	38970
C-2201 SPRG (hrs)	33417	33437	33463	33487	33510	33532	33555	33581	33603	33630
F-2501 H-XCH (hrs)	33417	33437	33463	33487	33510	33532	33555	33581	33603	33630
ANALOGS										
MV-701 SVE POS (%)	29	29	29	29	30	30	29	29	29	29
PT-701 SVE (-wc)	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6
PT-2501 SPRG (psi)	13.5	13.5	13.5	14.2	13.4	12.1	13.4	13.4	13.8	13.4
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	2-10-16	2-11-16	2-12-16	2-13-16	2.14.16	2-15-16	2-16-16	2-17-16	2-18-16	2-19-16
TIME	1205	8:00AM	8:53 Am	8:56 Am	9:02 AM	0905	10:08 Am	10:22 Am	1:26 Pm	12:39 Pm
OBSERVER'S INITIALS	B.H.	RK	RK	RK	DE	B.H.	RK	RK	RK	RK
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	38514	38539	38564	38588	38612	38636	38661	38685	38712	38735
C-2201 SPRG (hrs)	33174	33194	33220	33244	33268	33292	33317	33342	33369	33393
F-2501 H-XCH (hrs)	33174	33194	33220	33244	33268	33292	33317	33342	33369	33393
ANALOGS										
MV-701 SVE POS (%)	29	29	29	29	29	29	29	29	29	29
PT-701 SVE (-wc)	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6
PT-2501 SPRG (psi)	12.2	12.1	12.0	12.3	13.3	13.3	13.4	13.5	13.4	13.4
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	1-27-16	1-28-16	1-29-16	1-30-16	1-31-16	2-1-16	2-2-16	2-3-16	2-4-16	2-5-16
TIME	10:42 Am	7:58 Am	8:22 Am	8:49 AM	9:33 Am	10:09 Am	7:27 Am	12:31 Am	8:39 Am	1145
OBSERVER'S INITIALS	RK	RK	RK	DE	KA	RK	RK	RK	RK	A.H.
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	38304	38323	38347	38372	38396	38421	38447	38471	38491	38518
C-2201 SPRG (hrs)	32957	32976	33001	33025	33050	33075	33097	33126	33146	33174
F-2501 H-XCH (hrs)	32957	32976	33001	33025	33050	33075	33097	33126	33146	33174
ANALOGS										
MV-701 SVE POS (%)	29	29	29	29	29	29	29	29	29	29
PT-701 SVE (-wc)	81.6	81.6	81.6	-81.6	81.6	81.6	81.6	81.6	81.6	81.6
PT-2501 SPRG (psi)	12.6	13.2	13.3	12.0	12.0	12.1	13.8	13.2	13.2	13.5
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	11-20-15	1-19-16	1-20-16	1-21-16	1-22-16	1-23-16	1-24-16	1-25-16	1-26-16	1-27-16
TIME	8:08 AM	10:20	12:54 Am	8:01 Am	0845	9:59 Am	12:00 PM	10:06 Am	7:52 Am	10:35 AM
OBSERVER'S INITIALS	RK	AH	RK	RK	A.H.	RK	JM	RK	RK	RK
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	38116	38123	38149	38168	38193	38218	38244	38266	38288	D
C-2201 SPRG (hrs)	32767	32774	32801	32820	32845	32870	32896	32919	32941	O
F-2501 H-XCH (hrs)	32767	32774	32801	32820	32845	32870	32896	32919	32941	W
ANALOGS										
MV-701 SVE POS (%)	29	29	29	29	29	29	30 29	29	29	N
PT-701 SVE (-wc)	81.6	81.6	81.6	81.6	-81.6	81.6	-81.6	81.6	81.6	
PT-2501 SPRG (psi)	12.7	13.4	13.3	13.4	13.4	13.3	12.8	13.6	13.4	
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	

WEEKLY DOCUMENTATION SHEET

SYSTEM COMPONENTS

DATE	2-10-16	2-15-16	2-22-16	2-29-16	3-7-16	3-14-16			
TIME	1205	0905	10:10 AM	10:00 AM	10:20 AM	10:00 AM			
OBSERVER'S INITIALS	A.H.	A.H	RL	RL	RL	RL			

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.

Comments and Notes	N/A	NA.	NA	NA	NA	NA			

SOIL VAPOR EXTRACTION (SVE)

Hours of Operation (hrs)	38519	38636	38805	38970	39138	39305			
Inlet Vacuum (-wc)	94	98	98	98	98	88			
Pre-Filter Vacuum (-wc)	81.6	82.7	82.8	78.0	82.0	72.9			
Post-Filter Vacuum (-wc)	85.0	87.0	88.0	88	86	78			
Outlet Pressure (wc)	7.0	6.0	6.0	6	6	6			
Outlet Temperature (°F)	124	136	140	142	150	150			
Outlet Magnehelic* (in H_2O)	0.9	0.8	0.8	0.8	0.8	0.9			
Water Level Sight Glass (in)	Ø	6"	14"	4"	1"	1½"			

AIR SPARGE (SPRG)

Hours Operation (hrs)	33174	33292	33463	33630	33800	33968			
Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK			

HEAT EXCHANGER (H-XCH)

Hours Operation (hrs)	33174	33292	33463	33630	33800	33968			
Inlet Temperature (°F)	158	185	190	200	200	205			
Inlet Pressure (psi)	17.5	18.0	18.0	18	16.5	16.5			
Outlet Temperature (°F)	78	84	90	92	99	100			
Outlet Pressure (psi)	19.0	14.5	15.5	14	14.5	14.0			
Outlet Magnehelic* (in H_2O)	4.0	4.0	4.0	4.0	4.0	4.0			

ELECTRICAL USAGE (see display panel below main breaker and next to control panel)

Kilowatts (kwh)	188924	189557	190448	191360	192246	193103			

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

WEEKLY DOCUMENTATION SHEET

SYSTEM COMPONENTS

DATE	10-12-15	8-19-15	8-27-15	9-2-15	11-9-15	11-16-15	1-19-16	1-25-16	2-[illegible]-16
TIME	8:04AM	8:30AM	7:54AM	11:14AM	8:19AM	8:43AM	10:20	10:08AM	10:12AM
OBSERVER'S INITIALS	RK	RK	RK	RK	RK	RK	[illegible]	RK	RK

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.

Comments and Notes	NA	NA	NA	NA	NA	NA	NA.	NA	NA

SOIL VAPOR EXTRACTION (SVE)

Hours of Operation (hrs)	37180	37348	37539	37690	37852	38021	38123	38266	38421
Inlet Vacuum (-wc)	92	94	88	94	94	94	86	96	94
Pre-Filter Vacuum (-wc)	78.5	79.6	72.8	79.9	81.5	80.4	73.1	78.0	62.8
Post-Filter Vacuum (-wc)	79	80	74	80	82	82	74	82	80
Outlet Pressure (wc)	6	6	6	6	6	5	8	6	6
Outlet Temperature (°F)	162	164	169	164	158	155	118	134	134
Outlet Magnehelic* (in H_2O)	.8	.8	.9	.9	.9	.9	0.9	0.9	0.9
Water Level Sight Glass (in)	Ø	0	0	0	0	Ø	Ø	1FT	8"

AIR SPARGE (SPRG)

Hours Operation (hrs)	31822	31992	32185	32336	32501	32671	32774	32919	33075
Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK

HEAT EXCHANGER (H-XCH)

Hours Operation (hrs)	31822	31992	32185	32336	32501	32671	32774	32919	33075
Inlet Temperature (°F)	205	210	200	210	205	200	156	180	175
Inlet Pressure (psi)	16	16	17	16	16.5	17	19	18	16
Outlet Temperature (°F)	104	110	100	110	105	98	68	82	88
Outlet Pressure (psi)	14	13	14	14.5	14.5	14.5	16.0	15.0	14.5
Outlet Magnehelic* (in H_2O)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

ELECTRICAL USAGE (see display panel below main breaker and next to control panel)

Kilowatts (kwh)	181447	182335	183345	184436	185007	185906	186731	187529	188368

*

MONTHLY DOCUMENTATION SHEET

SVE MANIFOLD

DATE	11-20-15	1-19-16	2-15-16	3-18-16						
TIME	1145	1020	0905	0815						
INITIALS	A.H.	A.H.	A.H.	A.H.						

MAGNEHELIC GAUGE*

CELL 1	SVE-1 (in H_2O)	1.1	1.1	1.1	1.2						
	SVE-2 (in H_2O)	1.5	1.4	1.4	1.5						
CELL 2	SVE-3 (in H_2O)	1.3	1.3	1.3	1.4						
	SVE-4 (in H_2O)	1.2	1.3	1.3	1.4						
CELL 3	SVE-5 (in H_2O)	1.0	0.8	1.0	1.1						
	SVE-6 (in H_2O)	0.3	0.0	0.0	0.0						

VACUUM GAUGE

CELL 1	SVE-1 (-wc)	31	32	31	31						
	SVE-2 (-wc)	29	30	30	31						
CELL 2	SVE-3 (-wc)	20	22	20	20						
	SVE-4 (-wc)	20	22	22	20						
CELL 3	SVE-5 (-wc)	36	36	37	36						
	SVE-6 (-wc)	40	40	40	40						

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

MONTHLY DOCUMENTATION SHEET

AIR SPARGE MANIFOLD

DATE		11-20-15	1-19-16	2-15-16	3-18-16					
TIME		1145	1020	0905	0815					
INITIALS		A.H.	A.H.	A.H.	A.H.					
ROTOMETER										
CELL 1	AS-1 (scfm)	20	19	20	20					
	AS-2 (scfm)	21	21	21	20					
	AS-3 (scfm)	20	21	20	20					
	AS-4 (scfm)	19	19	20	19					
	AS-5 (scfm)	21	19	20	20					
CELL 2	AS-6 (scfm)	11.5	16.0	16.0	16.0					
	AS-7 (scfm)	11.5	16.5	16.0	16.0					
	AS-8 (scfm)	22.0	22.0	21.0	21.0					
	AS-9 (scfm)	20.0	21.0	21.0	20.0					
	AS-10 (scfm)	25.0	25.0	24.0	24.0					
CELL 3	AS-11 (scfm)	16.5	16.0	16.0	17.0					
	AS-12 (scfm)	19.0	19.0	19.0	18.5					
	AS-13 (scfm)	17.5	18.0	17.0	16.5					
	AS-14 (scfm)	22.5	22.5	23.0	21.0					
	AS-15 (scfm)	23.0	23.0	23.0	23.0					
PRESSURE GAUGE										
CELL 1	AS-1 (psi)	10.5	12.0	11.0	11.0					
	AS-2 (psi)	10.5	12.0	11.0	11.0					
	AS-3 (psi)	10.0	12.0	10.5	10.0					
	AS-4 (psi)	10.5	13.0	11.0	12.0					
	AS-5 (psi)	10.5	13.5	13.5	13.0					
CELL 2	AS-6 (psi)	16.0	[illegible]	11.5	13.0					
	AS-7 (psi)	11.0	13.0	11.5	12.0					
	AS-8 (psi)	11.0	13.0	12.0	11.0					
	AS-9 (psi)	11.5	14.0	12.5	11.5					
	AS-10 (psi)	12.0	13.0	11.5	13.0					
CELL 3	AS-11 (psi)	10.5	12.5	11.0	11.0					
	AS-12 (psi)	13.5	13.0	13.5	13.5					
	AS-13 (psi)	11.0	13.0	11.5	13.0					
	AS-14 (psi)	14.0	13.0	13.5	12.0					
	AS-15 (psi)	13.5	13.5	13.0	13.0					

MONTHLY DOCUMENTATION SHEET

WELL HEAD GAUGES

DATE	3-13-15	5-15-15	6-29-15	7-16-15	9/22/15	10-29-15	11-20-15	1-19-16	2-15-16	3-18-16
TIME	1045	0945	0845	0835	1255	0910	1145	1020	0905	0815
INITIALS	A.H.	A.H.	A.H.	A.H.	NP	A.H.	A.H.	A.H.	A.H.	A.H.

CELL 1	AS-1 (psi)	Covered	8.75	8.8	8.9	9.36	8.81	8.69	9.40	9.24	9.23
	AS-2 (psi)	8.0	8.0	8.0	8.0	9.05	8.61	8.55	9.24	9.17	9.10
	AS-3 (psi)	4.0	4.0	4.5	4.5	9.18	8.43	8.73	9.34	9.28	9.30
	AS-4 (psi)	5.0	2.0	2.0	2.0	9.24	8.92	8.89	9.48	9.41	9.44
	AS-5 (psi)	12.0	12.0	12.0	12.0	9.19	8.83	8.77	9.38	9.30	9.35
CELL 2	AS-6 (psi)	9.0	5.0	9.0	9.5	9.90	8.63	8.55	9.49	9.51	9.33
	AS-7 (psi)	8.0	4.0	6.5	7.0	9.73	8.91	8.94	7.69	9.76	9.55
	AS-8 (psi)	Covered	0	0	0	9.84	9.47	9.12	Covered	Covered	9.72
	AS-9 (psi)	10.5	10.5	10.5	10.5	10.84	9.85	9.94	10.83	10.93	10.97
	AS-10 (psi)	3.0	0	0	0	9.76	9.05	9.12	9.47	9.92	9.75
CELL 3	AS-11 (psi)	8.0	6.0	5.0	9.0	8.84	8.74	8.74	9.22	9.24	9.46
	AS-12 (psi)	10.5	10.5	10.0	10.5	9.54	10.0	9.51	10.10	9.81	10.56
	AS-13 (psi)	7.0	4.0	2.5	7.0	9.56	8.94	9.71	9.20	9.92	10.57
	AS-14 (psi)	10.5	10.5	10	10.5	9.48	9.70	9.51	10.00	9.80	10.32
	AS-15 (psi)	Broken.	10	9.53	9.95	9.55	9.76	9.45	10.17	0.0	10.38

CELL 1	SVE-1 (in H_2O)	6.5	6.5	6.5	6.5	0.01	6.1	6.1	5.8	6.20	6.4
	SVE-2 (in H_2O)	2.0	2.0	1.0	1.5	0.01	8.3	8.6	7.8	8.10	8.7
CELL 2	SVE-3 (in H_2O)	2.0	7.6	7.5	7.5	0.01	7.4	7.8	7.4	7.3	7.9
	SVE-4 (in H_2O)	1.0	0	0	0	0.01	7.9	7.6	7.2	7.1	7.9
CELL 3	SVE-5 (in H_2O)	2.5	10	10	2.5	0.34	10.0	10.0	10.05	10.3	11.0
	SVE-6 (in H_2O)	1.0	~~0~~ 8 A.H.	~~4.5~~ 8.1 A.H.	8.3	0.27	9.90	7.7	8.6	8.1	8.9

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	3-13-16	3-14-16	3-15-16	3-16-16	3-17-16	3-18-16	3-19-16		
TIME	8:25AM	10:15Am	8:50Am	12:50Pm	12:39Pm	09:20			
OBSERVER'S INITIALS	[illegible]	RK	RK	RK	RK	A.H.			

WEATHER CONDITIONS

Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	76° CLOUDY	79°F Cloudy	76°F Cloudy	72°F Sunny	78°F Sunny	76°F Sunny			

ALARMS

Alarm Code	NA	NA	NA	NA	NA	NA			

P&ID

PDT-701 SVE (-wc)	0.17	0.11	0.16	0.08	0.11	0.09			
PT-701 SVE (-wc)	-63	-65	-66	-65	-62	-62			
PT-702 SVE (-wc)	57.7	56.3	56.5	58.7	57.8	59.6			
PT-2201 SPRG (psi)	11.8	14.1	11.8	12.4	15.4	12.3			
P-401 PUMP (cycles)	68	68	68	68	68	68			

P&ID2

PDT-801 SVE (-wc)	0.56	0.59	0.60	0.52	0.50	0.54			
PT-801 SVE (-wc)	-164	-167	-170	-161	-169	-161			
PT-802 SVE (-wc)	44.5	44.0	44.5	46.3	45.3	45.1			
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0			
P-501 PUMP (cycles)	551	553	555	556	559	561			

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	3-13-16	3-14-16	3-15-16	3-16-16	3-17-16	3-18-16	3-19-16		
TIME	8:25AM	10:15Am	8:50Am	12:50pm	12:39pm	0920			
OBSERVER'S INITIALS	[illegible]	RK	RK	RK	RK	A.H.			
HOURS METERS									
B-701 SVE (hrs)	9034	9060	9083	9111	9134	9155			
C-2201 SPRG (hrs)	8967	8993	9015	9043	9067	9088			
C-2202 SPRG (hrs)	8661	8687	8710	8738	8762	9782			
B-801 SVE (hrs)	8970	8996	9019	9047	9071	9091			
C-2301 SPRG (hrs)	8952	8978	9001	9029	9053	9073			
C-2302 SPRG (hrs)	8952	8978	9001	9029	9053	9073			
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27			
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0			
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0			
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0			
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0			
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25			
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100			
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0			
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0			
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0			
SV-2801 SPRG (min)	40	40	40	40	40	40			
SV-2802 SPRG (min)	20	20	20	20	20	20			
SV-2901 SPRG (min)	20	20	20	20	20	20			
SV-2902 SPRG (min)	20	20	20	20	20	20			

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	3-5-16	3-6-15	3-7-16	3-8-16	3-9-16	3-9-16	3-10-16	3-11-16	3-12-16
TIME	9:12 Am	9:40 AM	10:36 Am	8:01 Am	7:55 Am	1:16 Pm	10:34 Am	8:06 Am	11:00 AM
OBSERVER'S INITIALS	RK	KA	RK	RK	RK	RK	RK	RK	JB McCullough
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	76°F Cloudy	76°F SUNNY	82°F Sunny	84°F Sunny	84°F Rain	WRONG DAY - ALARM	79°F Cloudy	78°F Sunny	81°F Cloudy
ALARMS						DONE			
Alarm Code	NA	NA	NA	NA	NA		NA	NA	NA
P&ID									
PDT-701 SVE (-wc)	0.16	0.26	0.18	0.17	0.19		0.11	0.22	0.17
PT-701 SVE (-wc)	-62	-57	-63	-63	-64		-57	-58	-59
PT-702 SVE (-wc)	58.6	59.5	57.1	57.0	56.9		58.1	58.9	58.5
PT-2201 SPRG (psi)	15.1	15.2	15.0	14.6	14.9		15.1	11.9	12.6
P-401 PUMP (cycles)	68	68	68	68	68		68	68	68
P&ID2									
PDT-801 SVE (-wc)	0.57	0.59	0.57	0.57	0.55		0.51	0.59	0.58
PT-801 SVE (-wc)	-162	-155	459	-162	-167		-153	-153	-156
PT-802 SVE (-wc)	44.4	45.2	44.9	44.2	43.7		45.5	46.3	44.9
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
P-501 PUMP (cycles)	538	540	542	543	545		546	548	550

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	3-5-16	3-6-16	3-7-16	3-8-16	3-9-16	3-9-16	3-10-16	3-11-16	3-12-16
TIME	9:12 AM	9:40 AM	10:36 AM	8:01 AM	7:55 AM		10:34 AM	8:06 AM	11:00 AM
OBSERVER'S INITIALS	RK	KA	RL	RK	RL		RL	RL	[illegible]
HOURS METERS									
B-701 SVE (hrs)	8844	8869	8894	8915	8939	[illegible]	8965	8987	9014
C-2201 SPRG (hrs)	8777	8801	8826	8849	8871	Power	8898	8920	8946
C-2202 SPRG (hrs)	8471	8496	8521	8542	8566		8593	8614	8641
B-801 SVE (hrs)	8780	8805	8830	8851	8875		8902	8923	8950
C-2301 SPRG (hrs)	8762	8787	8812	8833	8857		8884	8905	8932
C-2302 SPRG (hrs)	8762	8787	8812	8833	8857		8884	8905	8932
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27		-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0		10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0		30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25		-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0		10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0		30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40		40	40	40
SV-2802 SPRG (min)	20	20	20	20	20		20	20	20
SV-2901 SPRG (min)	20	20	20	20	20		20	20	20
SV-2902 SPRG (min)	20	20	20	20	20		20	20	20

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	2-25-16	2-26-16	2-27-16	2-28-16	2-29-16	3-1-16	3-2-16	3-3-16	3-4-16
TIME	8:57Am	7:54 Am	9:32Am	7:46 AM	10:20 Am	12:23 Pm	1:15 P	1:28 P	7:53 Am
OBSERVER'S INITIALS	RK	RK	KA	DE	RL	RK	RL	RK	RK

WEATHER CONDITIONS

Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	76°F Sunny	75°F Cloudy	76°F Sunny	78°F Sunny	76°F Partly Sunny	72°F Snow	76°F Sun	76°F Cloudy	74°F Sunny

ALARMS

Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA

P&ID

PDT-701 SVE (-wc)	0.10	0.14	0.13	0.04	0.14	0.13	0.15	0.03	0.19
PT-701 SVE (-wc)	-61	-56	-60	-66	-61	-62	-57	-60	-60
PT-702 SVE (-wc)	59.8	61.5	59.6	57.2	59.0	60.1	60.2	59.6	60.5
PT-2201 SPRG (psi)	13.8	16.3	12.3	12.2	15.7	15.8	12.4	12.1	16.9
P-401 PUMP (cycles)	67	67	67	67	67	67	67	68	68

P&ID2

PDT-801 SVE (-wc)	0.53	0.49	0.54	0.51	0.52	0.46	0.54	0.57	0.44
PT-801 SVE (-wc)	-157	-151	-156	-167	-160	-180	-150	-158	-180
PT-802 SVE (-wc)	47.2	48.8	45.4	45.9	45.0	42.9	47.9	46.7	42.8
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	515	517	520	522	525	528	531	533	535

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	2-25-16	2-26-16	2-27-16	2.28.16	2-29-16	3-1-16	3-2-16	3-3-16	3-4-16
TIME	8:57 Am	7:54 Am	9:32 Am	7:46 AM	10:20 Am	12:23 Pm	1:15 Pm	1:28 Pm	7:53 Am
OBSERVER'S INITIALS	RK	RK	KA	DE	RK	RK	RK	RK	RK
HOURS METERS									
B-701 SVE (hrs)	8628	8651	8677	8699	8725	8751	8776	8801	8819
C-2201 SPRG (hrs)	8561	8554	8609	8632	8658	8684	8709	8733	8751
C-2202 SPRG (hrs)	8255	8278	8304	8326	8353	8379	8403	8428	8446
B-801 SVE (hrs)	8564	8587	8613	8635	8662	8688	8712	8737	8755
C-2301 SPRG (hrs)	8546	8569	8595	8617	8644	8670	8695	8717	8737
C-2302 SPRG (hrs)	8546	8569	8595	8617	8644	8670	8694	8717	8737
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	2-16-16	2-17-16	2-18-16	2-19-16	2-20-16	2-21-16	2-22-16	2-23-16	2-24-16
TIME	10:13 Am	10:26 Am	1:30 pm	1:06 pm	12:35 PM	8:47 AM	10:22 Am	10:01 Am	11:09 Am
OBSERVER'S INITIALS	RK	RK	RK	RK	JM	KA	RK	RK	RK
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	76°F Snow	78°F Sunny	79°F Cloudy.	80°F Windy Cloudy.	32°F Sunny	78°F Cloudy	78°F Cloudy	78°F Sunny	76°F Cloudy
ALARMS									
Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA
P&ID									
PDT-701 SVE (-wc)	0.01	0.11	0.12	0.15	0.13	0.07	0.20	0.17	0.09
PT-701 SVE (-wc)	-72	-55	-59	-65	-57	-58	-55	-59	-62
PT-702 SVE (-wc)	56.8	61.6	59.5	57.7	60.0	60.3	60.3	60.4	58.9
PT-2201 SPRG (psi)	13.1	13.3	13.0	16.3	16.2	16.2	12.7	16.2	16.2
P-401 PUMP (cycles)	65	66	66	66	66	66	66	66	66
P&ID2									
PDT-801 SVE (-wc)	0.38	0.39	0.48	0.46	0.50	0.54	0.52	0.49	0.48
PT-801 SVE (-wc)	-174	-158	-152	-163	-153	-154	-154	-152	-162
PT-802 SVE (-wc)	44.0	45.7	47.7	46.4	46.9	47.8	47.5	47.1	46.6
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	491	494	497	499	502	504	507	509	512

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Control Panel Touch Screen

DATE	2-16-16	2-17-16	2-18-16	2-19-16	2-20-16	2-21-16	2-22-16	2-23-16	2-24-16
TIME	10:13 Am	10:26 Am	1:30 Pm	1:06 Pm	12:35 PM	8:47 AM	10:22 Am	10:01 Am	11:09 Am
OBSERVER'S INITIALS	TRL	TRL	TRL	TRL	JM	KA	TRL	TRL	TRL
HOURS METERS									
B-701 SVE (hrs)	8414	8438	8465	8488	8512	8532	8558	8581	8608
C-2201 SPRG (hrs)	8346	8370	8397	8421	8445	8465	8490	8514	8539
C-2202 SPRG (hrs)	8041	8065	8092	8116	8139	8159	8185	8208	8234
B-801 SVE (hrs)	8350	8374	8401	8425	8448	8468	8494	8517	8543
C-2301 SPRG (hrs)	8332	8356	8383	8407	8431	8450	8476	8500	8525
C-2302 SPRG (hrs)	8332	8356	8383	8407	8431	8450	8476	8499	8525
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

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BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	2-3-16	2-4-16	2-5-16	2-10-16	2-11-16	2-12-16	2-13-16	2-14-16	2-15-16
TIME	12:24 Pm	8:43 Am	1150	1215	8:05 Am	8:56 Am	8:59 Am	8:53 AM	0940
OBSERVER'S INITIALS	RK	RK	A.H.	A.H.	RK	TL	TL	DE	A.H.
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	78°F Cloudy	74°F Sunny	75°F Sunny	72°F Sunny	76°F Sunny	76°F Cloudy	74°F Clear	76°F Cloudy	78°F cloudy
ALARMS									
Alarm Code	NA	NA	NA	NA.	NA	NA	NA	NA	NA.
P&ID									
PDT-701 SVE (-wc)	0.21	0.13	0.13	0.15	0.22	0.07	0.09	0.04	0.04
PT-701 SVE (-wc)	-71	-55	-61	-48	-64	-61	-59	-72	-76
PT-702 SVE (-wc)	58.2	59.1	59.6	68.3	51.7	60.9	62.0	57.4	54.8
PT-2201 SPRG (psi)	13.3	14.1	13.3	14.2	17.2	16.6	17.3	13.1	14.4
P-401 PUMP (cycles)	61	61	62	65	65	65	65	65	65
P&ID2									
PDT-801 SVE (-wc)	0.49	0.48	0.54	0.44	0.33	0.35	0.04	0.37	0.30
PT-801 SVE (-wc)	-171	-167	-154	-136	-153	-165	-241	-174	-198
PT-802 SVE (-wc)	46.0	46.3	47.2	53.9	49.9	47.2	33.1	44.4	39.9
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	455	458	463	467	470	475	478	482	487

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BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	2-3-16	2-4-16	2-5-16	2-10-16	[illegible]-16	2-12-16	2-13-16	2-14-16	2-15-16
TIME	12:24 Pm	8:43 Am	1150	1215	8:05 Am	8:56 PM	8:59 Am	8:53 AM	0940
OBSERVER'S INITIALS	RK	RK	A.H.	A.H.	RK	RL	RL	OE	A.H
HOURS METERS									
B-701 SVE (hrs)	8231	8257	8278	8274	8292	8316	8340	8364	8389
C-2201 SPRG (hrs)	8163	8184	8211	8212	8224	8249	8273	8297	8322
C-2202 SPRG (hrs)	7858	7878	7905	7906	7919	7944	7968	7992	8016
B-801 SVE (hrs)	8167	8187	8214	8215	8228	8253	8277	8301	8325
C-2301 SPRG (hrs)	8149	8169	8197	8198	8210	8235	8259	8283	8307
C-2302 SPRG (hrs)	8149	8169	8196	8197	8210	8235	8259	8283	8307
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

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BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	1-25-16	1-26-16	1-27-16	1-28-16	1-29-16	1-30-16	1-31-16	2-1-16	2-2-16
TIME	10:20 AM	7:57 AM	10:46 AM	8:03 AM	8:26 AM	8:55 AM	9:20 AM	10:34 AM	7:35 AM
OBSERVER'S INITIALS	RL	RL	RL	RL	RL	DE	KA	RK	RL
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	74°F Sunny	72°F Cloudy	78°F Cloudy	78°F Cloudy	74°F Clear	76°F Cloudy	78°F Cloudy	76°F Clear	76°F Cloudy
ALARMS									
Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA
P&ID									
PDT-701 SVE (-wc)	0.17	0.18	0.11	0.19	0.22	0.14	0.11	0.10	0.13
PT-701 SVE (-wc)	-66	-66	-61	-72	-67	-71	-71	-65	-67
PT-702 SVE (-wc)	59.7	59.9	59.9	57.9	59.2	57.4	57.4	59.3	57.8
PT-2201 SPRG (psi)	15.1	14.7	15.0	14.5	14.8	12.0	14.0	14.2	11.8
P-401 PUMP (cycles)	59	59	59	60	60	60	60	61	61
P&ID2									
PDT-801 SVE (-wc)	0.46	0.49	0.48	0.47	0.43	0.49	0.52	053	0.51
PT-801 SVE (-wc)	-158	-161	-152	-168	-167	-167	-174	-164	-164
PT-802 SVE (-wc)	46.6	48.2	47.2	47.0	45.9	45.4	44.8	44.7	45.5
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	410	415	422	426	431	436	441	446	449

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BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	1-25-16	1-26-16	1-27-16	1-28-16	1-29-16	1-30-16	1-31-16	2-1-16	2-2-16
TIME	10:20 Am	7:57 AM	10:46 Am	8:03 Am	8:26 Am	8:55 AM	9:20 Am	10:34 Am	7:35 Am
OBSERVER'S INITIALS	RK	RK	RK	RK	RK	DE	KA	RK	RK
HOURS METERS									
B-701 SVE (hrs)	8013	8035	8061	8083	8107	8132	8156	8181	8202
C-2201 SPRG (hrs)	7946	7967	7994	8015	8040	8064	8089	8114	8135
C-2202 SPRG (hrs)	7940	7662	7689	7710	7734	7759	7783	7808	7829
B-801 SVE (hrs)	7949	7971	7998	8019	8043	8068	8092	8117	8138
C-2301 SPRG (hrs)	7931	7953	7980	8001	8025	8050	8074	8099	8120
C-2302 SPRG (hrs)	7931	7953	7980	8001	8025	8050	8074	8099	8120
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen /-14/

DATE	11-17-15	11-18-15	11-19-15	11-20-15	11-21-15	1-21-16	1-22-16	1-23-16	1-24-16
TIME	8:19 AM	7:16 AM	12:23 Pm	7:59 Am	1140	7:55 Am	1605	10:04 Am	12:15 PM
OBSERVER'S INITIALS	RK	RK	RK	RK	A.H.	RK	A.H.	RK	JM
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	78°F RAIN	80°F RAIN	76°F CLEAR	74°F CLEAR	70°F Clear	59°F CLEAR	69°F Cloudy	72°F Cloudy	72°F Cloudy
ALARMS									
Alarm Code	NA	NA	NA	NA	NA	LAHH 501	NA	NA	NA
P&ID									
PDT-701 SVE (-wc)	0.30	0.13	0.14	0.15	0.19	D	0.15	0.15	.16
PT-701 SVE (-wc)	-75	-78	-74	-68	-43	O	-59	-60	-65
PT-702 SVE (-wc)	54.5	53.4	57.4	59.0	76.8	W	62.0	61.5	60.3
PT-2201 SPRG (psi)	12.8	12.3	14.1	14.1	18.8	N	13.1	15.9	15.5
P-401 PUMP (cycles)	55	55	56	56	58		58	58	58
P&ID2									
PDT-801 SVE (-wc)	0.60	0.64	0.54	0.55	0.41		0.42	0.44	0.41
PT-801 SVE (-wc)	-173	-189	-170	-167	-127		-150	-151	-155
PT-802 SVE (-wc)	43.6	40.9	44.1	45.1	53.9		49.5	48.6	48.8
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
P-501 PUMP (cycles)	346	349	356	362	367		391	397	404

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	11-17-15	11-18-15	11-19-15	11-20-15	1-19-16	1-21-16	1-22-16	1-23-16	1-24-16
TIME	8:19AM	7:16AM	12:24	7:59AM	1140	7:55AM	1605	10:04AM	12:15PM
OBSERVER'S INITIALS	RK	RK	RK	RK	A.H	RK	A.H	RK	JM
HOURS METERS									
B-701 SVE (hrs)	7828	7851	7880	7899	7908	D	7947	7965	7991
C-2201 SPRG (hrs)	7760	7783	7812	7832	7840	O	7879	7897	7923
C-2202 SPRG (hrs)	7455	7478	7502	7526	7535	W	7574	7592	7618
B-801 SVE (hrs)	7764	7787	7816	7835	7844	N	7883	7901	7927
C-2301 SPRG (hrs)	7746	7769	7798	7818	7826		7865	7883	7909
C-2302 SPRG (hrs)	7746	7769	7798	7817	7826		7865	7883	7909
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27		-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0		100	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0		10	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0		30	3.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25		-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0		100	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0		10	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0		30	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40		40	40	40
SV-2802 SPRG (min)	20	20	20	20	20		20	20	20
SV-2901 SPRG (min)	20	20	20	20	20		20	20	20
SV-2902 SPRG (min)	20	20	20	20	20		20	20	20

WEEKLY DOCUMENTATION SHEET
BUILDING 1
SYSTEM COMPONENTS

DATE	2-15-16	2-22-16	2-29-16	3-7-16	3-14-16				
TIME	0940	10:20 AM	10:17 A	10:33 Am	10:10 Am				
OBSERVER'S INITIALS	A.H.	RK	RK	RK	RK				

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE; MOISTURE, ETC.

Comments and Notes	NA	NA	NA	NA	NA				

SOIL VAPOR EXTRACTION (SVE) BLOWER B-701

Pre-Filter Vacuum (-wc)	70	52	52	51	54				
Post-Filter Vacuum (-wc)	100	95	100+	100+	100+				
Inlet Magnehelic* (in H_2O)	0.0	0.0	0	0.1	0.1				
Inlet Vacuum (-wc)	73.0	58.6	56.7	57.4	59.6				

SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)

Inlet Pressure (wc)	2.0	4	2	0	0				
Inlet Temperature (°F)	110	105	105	110	110				
Outlet Pressure (wc)	8.0	9	8	8	8				
Outlet Temperature (°F)	86.0	82	94	91	91				
Water Level Sight Glass (in)	12"	19"	13"	12"	9"				

AIR SPARGE (SPRG) COMPRESSOR C-2201

Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK				
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK				

AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)

Inlet Pressure (psi)	13.5	12.0	16	16	14.5				
Inlet Temperature (°F)	200	210	215	220	225				
Outlet Pressure (psi)	13.5	16	17	16.5	16.5				
Outlet Temperature (°F)	102	110	100	110	100				

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

WEEKLY DOCUMENTATION SHEET
BUILDING 1
SYSTEM COMPONENTS

DATE	10-19-15	10-27-15	11-2-15	11-9-15	11-16-15	1-19-16	1-25-16	2-1-16	2-10-16
TIME	8:19 AM	8:07 AM	1:29 PM	8:04 AM	8:06 AM	11:40	10:18 AM	10:30 AM	12:15
OBSERVER'S INITIALS	RK	RK	RK	RK	RK	A.H.	RK	RK	A.H

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE; MOISTURE, ETC.

Comments and Notes	NA	NA	NA	NA	NA	NA.	NA	NA	NA.

SOIL VAPOR EXTRACTION (SVE) BLOWER B-701

Pre-Filter Vacuum (-wc)	56	57	55	58	60	43	55	59	44
Post-Filter Vacuum (-wc)	90	93	92	97	98	76	93	98	80
Inlet Magnehelic* (in H_2O)	0.1	0.2	.2	.1	.2	0.0	0.0	0.1	0.0
Inlet Vacuum (-wc)	BROKEN	BROKE	BROKE	BROKE	BROKE	-46.1	60.3	63.5	46.4

SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)

Inlet Pressure (wc)	18	17	16	18	15	22	11	[illegible]	18.0
Inlet Temperature (°F)	110	115	125	105	110	85	102	82	88
Outlet Pressure (wc)	8	8	8	8	8	10	8	10	10
Outlet Temperature (°F)	80	81	110	84	90	64	84	100	78
Water Level Sight Glass (in)	16"	6"	11"	9"	22	0"	1"	Ø	Ø

AIR SPARGE (SPRG) COMPRESSOR C-2201

Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK

AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)

Inlet Pressure (psi)	13	18	11	12	14	18	14.6	13.0	14.0
Inlet Temperature (°F)	180	180	209	199	210	190	200	205	185
Outlet Pressure (psi)	14	17.5	11.5	14	15	18	15.5	15.5	15.0
Outlet Temperature (°F)	79	81	118	91	98	104	110	105	110

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading

WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

DATE	2-29-16	3-7-16	3-14-16						
TIME	10:10 Am	10:27 Am	10:06 Am						
OBSERVER'S INITIALS	RK	RK	RK						
SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.									
Comments and Notes	79°F NA	79°F NA	72°F NA						
SOIL VAPOR EXTRACTION (SVE) BLOWER B-801									
Pre-Filter Vacuum (-wc)	70	70	72						
Post-Filter Vacuum (-wc)	76	76	79						
Inlet Magnehelic* (in H_2O)	.6	.6	.6						
Inlet Vacuum (-wc)	77.9	76.7	81.5						
SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (wc)	47	45	44						
Inlet Temperature (°F)	110	125	120						
Outlet Pressure (wc)	2	1	1						
Outlet Temperature (°F)	100	92	90						
Water Level Sight Glass (in)	8"	10"	12"						
AIR SPARGE (SPRG) COMPRESSOR C-2301									
Upper Oil Sight Glass (half pt.)	OK	OK	OK						
Lower Oil Sight Glass (half pt.)	OK	OK	OK						
AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (psi)	16	16.0	14.5						
Inlet Temperature (°F)	224	225	225						
Outlet Pressure (psi)	14.5	13.0	14						
Outlet Temperature (°F)	118	118	126						

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

DATE	11-2-15	11-9-15	11-16-15	1-19-16	1-25-16	2-1-16	2-10-16	2-15-16	2-22-16
TIME	1:22pm	8:09AM	8:10AM	1130	10:28AM	10:20AM	1210am	0925	10:14Am
OBSERVER'S INITIALS	RK	RK	RK	A.H.	RK	RK	A.H.	A.H.	RK
SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.									
Comments and Notes	90°F	76°F	72°F	68°F	70°F	78°F	64°F	80°F	84°F
SOIL VAPOR EXTRACTION (SVE) BLOWER B-801									
Pre-Filter Vacuum (-wc)	68	74	72	60	68	73	60	95	70
Post-Filter Vacuum (-wc)	74	80	79	65	66	80	65	100	78
Inlet Magnehelic* (in H_2O)	.6	.6	.6	0.35	0.4	0.6	0.4	0.4	0.6
Inlet Vacuum (-wc)	-60	-60	-60	-65.1	75.3	81.6	105.6	100.7	76.8
SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (wc)	45	46	45	55	48	47	54	42	48
Inlet Temperature (°F)	130	125	125	95	110	110	100	125	120
Outlet Pressure (wc)	0	1	1	0	0	0	1.0	0	.2
Outlet Temperature (°F)	110	108	99	72	94	115	92	98	110
Water Level Sight Glass (in)	10"	12"	14"	0"	12"	16"	0"	4"	11"
AIR SPARGE (SPRG) COMPRESSOR C-2301									
Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (psi)	17	16	15	18	13.5	14.5	21.0	~~42~~ 15	16
Inlet Temperature (°F)	225	205	210	185	200	210	185	~~125~~ 210	215
Outlet Pressure (psi)	15.5	15.5	14.5	16	13	12.5	18.0	14.0	15.5
Outlet Temperature (°F)	130	130	116	110	112	122	120	120	130

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading

MONTHLY DOCUMENTATION SHEET
BUILDING 1 LOWER CELL
AIR SPARGE MANIFOLD

DATE		5-15-15	6-29-15	7-16-15	9/22/15	10-29-15	11-20-15	1-19-16	2-15-16	3-18-16	
TIME		0905	0930	1030	1100	0950	1250	1140	0940	0920	
INITIALS		A.H.	A.H.	A.H.	NP	A.H.	A.H.	A.H.	A.H.	A.H.	
						ROTOMETER					
LOWER CELL	AS-49 (scfm)	15	8	7.5	11	10.0	9.0	13.0	10.0	9.0	
	AS-44 (scfm)	14	8	7.5	12	9.0	7.0	0.0	0.0	9.0	
	AS-31 (scfm)	12	7	7.5	10.	8.5	8.0	10.0	8.5	9.0	
	AS-32 (scfm)	12	7.5	7.5	10	8.5	8.5	10.0	8.5	9.0	
	AS-45 (scfm)	14.5	6	6.5	11	8.5	8.0	12.0	9.0	8.5	
	AS-51 (scfm)	15	7	7.5	11.5	9.5	9.0	12.0	9.0	9.5	
	AS-55 (scfm)	18	10	10	14.5	12.0	11.5	15.0	12.0	11.5	
	AS-53 (scfm)	17	8	7.5	12	10.0	9.0	14.5	10.0	9.5	
	AS-59 (scfm)	14.5	8	7.5	11	9.5	8.5	12.0	9.0	8.5	
	AS-57 (scfm)	16.5	6	6	11.5	8.0	6.5	14.0	8.0	6.0	
	AS-50 (scfm)	22	10	9.5	17	13.5	11.5	18.5	11.5	11.0	
						PRESSURE GAUGE					
LOWER CELL	AS-49 (psi)	10.5	10	10	10.5	10.0	11.0	10.5	10.5	11.0	
	AS-44 (psi)	12.5	10.5	11	12	11.0	12.0	13.0	12.0	12.0	
	AS-31 (psi)	10	10	10	10	10.0	11.0	10.5	10.5	11.0	
	AS-32 (psi)	9	10	10	9.5	11.0	11.0	10.5	10.0	10.5	
	AS-45 (psi)	11.5	10.5	11	11.5	10.0	12.0	12.0	11.5	12.0	
	AS-51 (psi)	10.5	10	10	10.5	10.0	11.0	11.0	10.5	11.0	
	AS-55 (psi)	10.5	10	10	10.5	10.5	11.0	10.5	10.5	11.0	
	AS-53 (psi)	11.5	10	10.5	11.5	10.0	11.5	11.0	11.0	12.0	
	AS-59 (psi)	11	10	10.5	11	10.0	11.5	11.0	11.0	11.5	
	AS-57 (psi)	12	10.5	11	12	11.0	12.0	12.0	11.5	12.0	
	AS-50 (psi)	12	10.5	11	12	11.0	12.0	12.0	12.0	12.5	

* note 6-29-15 reading [illegible]

MONTHLY DOCUMENTATION SHEET
BUILDING 1 UPPER CELL
AIR SPARGE MANIFOLD

DATE		5-15-15	6-29-15	7-16-15	9/22/15	10-29-15	11-20-15	1-19-16	2-15-16	3-18-16	
TIME		0906	0930	1030	1100	0950	1250	1140	0940	0920	
INITIALS		A.H.	A.H	A.H.	NP	A.H	A.H	A.H.	A.H.	A.H	
					ROTOMETER						
UPPER CELL	AS-47 (scfm)	0	0	10	16	10	6	7	5.0	6.0	
	AS-38 (scfm)	10	5	5	6	6	6	0	10.0	10.0	
	AS-37 (scfm)	16	8	7	11	9	9	11.5	8.0	9.0	
	AS-23 (scfm)	15	7.5	6	11	9	9	12.0	8.0	9.0	
	AS-24 (scfm)	14	7.0	6.5	10	8	7.5	10.5	7.0	8.0	
	AS-39 (scfm)	16	8.0	7	11	8.5	8.5	11.5	8.0	7.0	
	AS-48 (scfm)	17.5	9.0	8.5	13	10	10.0	14.0	9.5	10.0	
	AS-52 (scfm)	15	7.5	7	10.5	8.5	10.0	11.0	8.0	9.0	
	AS-56 (scfm)	14	7.5	6.5	10	8.0	8.5	10.0	7.0	8.0	
	AS-54 (scfm)	22	10	10	14.5	11.5	11.5	16.5	10.5	12.0	
	AS-58 (scfm)	12.5	6.5	5.5	9	7.0	6.5	9.0	6.5	7.0	
					PRESSURE GAUGE						
UPPER CELL	AS-47 (psi)	11.5	0	12	17	14	13.5	13.0	13.0	15.0	
	AS-38 (psi)	17	13	14	14	14	11.5	18.0	14.0	17.0	
	AS-37 (psi)	8.5	7.5	7	8	7	7.0	8.0	7.5	7.0	
	AS-23 (psi)	13	11	10.5	12.5	10.5	10.0	11.0	11.0	11.5	
	AS-24 (psi)	13	12	11	13	11	11.0	12.0	12.0	12.0	
	AS-39 (psi)	12	11	10	12	10	10.0	11.0	11.0	11.0	
	AS-48 (psi)	11.5	11	10	11.5	10	10.0	11.0	10.5	11.0	
	AS-52 (psi)	11	10.5	9.5	11	9.5	9.5	10.0	10.0	10.5	
	AS-56 (psi)	11	10.0	9.5	11	9.5	9.5	10.0	10.0	10.5	
	AS-54 (psi)	14	13.0	14	13.5	13.0	11.5	12.0	11.5	12.0	
	AS-58 (psi)	9.5	12.0	11.5	10	10.5	10.0	9.0	9.0	10.0	

*Note: 6-29-15 reading low due to [illegible]

MONTHLY DOCUMENTATION SHEET
BUILDING 1
SVE MANIFOLD

DATE	6-24-15	7-16-15	9/22/15	10-29-15	11-20-15	12-19-16	2-15-16	3-18-16		
TIME	0930	1030	1100	0950	1250	1140	0940	0920		
INITIALS	A.H.	A.H.	NP	A.H.	A.H.	A.H.	A.H.	A.H.		

MAGNEHELIC GAUGE*

SVE-15 (in H_2O)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SVE-14 (in H_2O)	0.0	0.0	0.0	0.0	0.0	1.8	1.75	1.75		
SVE-13 (in H_2O)	0.0	0.0	0.0	1.0	0.0	0.50	0.0	0.25		
SVE-11 (in H_2O)	0.25	0.40	0.25	0.30	0.40	0.40	0.50	0.35		
SVE-9 (in H_2O)	0.55	0.40	0.40	0.60	0.70	0.40	0.05	0.60 ~~0.00~~ AH		

VACUUM GAUGE

SVE-15 (-wc)	50	55	40	57	65	43	70	55		
SVE-14 (-wc)	53	55	40	60	65	45	20	58		
SVE-13 (-wc)	55	60	40	60	65	45	70	60		
SVE-11 (-wc)	18	20	14.5	28	32	22	32	26		
SVE-9 (-wc)	50	55	35	55	70	25	70	53		

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

MONTHLY DOCUMENTATION SHEET
BUILDING 1
PID MEASUREMENTS

DATE	1-9-15	2-25-15	3-13-15	5-15-15	6-29-15	7-16-15	9/22/15	10-29-15	11-20-15	1-19-16	2-15-16	3-15-16
TIME	1255	0930	0945	0905	0930	1030	1100	0950	1250	1140	0940	0920
INITIALS	A.H.	A.H.	A.H.	A.H.	A.H.	A.H.	NP	A.H.	A.H.	A.H.	A.H.	A.H.

SVE Effluent	0.9	0.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
SVE - 15	moisture	moisture	moisture	0.0	0.0	moisture	0.0	moisture	moisture	moisture	moisture	moisture
SVE - 14	↓	↓	↓	0.0	moisture	↓	0.0	↓	↓	↓	↓	↓
SVE - 13	↓	↓	↓	0.0	0.0	↓	0.0	↓	↓	↓	↓	↓
SVE - 11	↓	↓	↓	0.0	0.0	↓	0.0	↓	↓	↓	↓	↓
SVE - 9	↓	↓	↓	0.0	0.0	↓	0.0	↓	↓	↓	↓	↓
Exhaust	0.9	0.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MONTHLY DOCUMENTATION SHEET
BUILDING 2
SVE MANIFOLD

DATE	6-29-15	7-16-15	9/22/15	10-29-15	11-20-15	1-19-16	2-15-16	3-18-16		
TIME	0905	1020	1040	0940	1220	1130	0925	0910		
INITIALS	A.H.	A.H.	NP	A.H.	A.H.	A.H.	A.H.	A.H.		

MAGNEHELIC GAUGE*

SVE-10 (in H_2O)	0.35	0.25	0.25	0.50	0.60	0.25	1.10	0.45		
SVE-12 (in H_2O)	0.60	0.60	0.50	0.75	0.90	0.25	0.0	0.0		
SVE-8 (in H_2O)	0.60	0.70	0.50	1.2	1.4	0.5	2.0	1.3		
SVE-7 (in H_2O)	0.40	0.35	0.25	0.50	0.40	0.40	0.20	0.40		

VACUUM GAUGE

SVE-10 (-wc)	55	80	90	100	100	100	43	100 ~~76~~ A.H		
SVE-12 (-wc)	55	55	48	70	74	58	55	76 ~~32~~ A.H		
SVE-8 (-wc)	57	55	50	73	80	0	15	32		
SVE-7 (-wc)	65	68	65	75	70	73	60	70		

ELECTRICAL USAGE

Kilowatts (kwh)	133860.60	36654.60	37152.70	113063.43	157780.10	163169.80	207571.70	274838.90		

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading

MONTHLY DOCUMENTATION SHEET
BUILDING 2 UPPER CELL
AIR SPARGE MANIFOLD

DATE		5-15-15	6-24-15	7-16-15	9/22/15	10-29-15	11-20-15	1-19-16	2-15-16	3-18-16	
TIME		1036	0905	1020	1140	0940	1220	1130	0925	0910	
INITIALS		A.H.	A.H.	A.H.	NP	A.H.	A.H.	A.H.	A.H.	A.H.	
ROTOMETER											
UPPER CELL	AS-20 (scfm)	15	15	15	15	14	13.0	16.0	13.5	12.0	
	AS-26 (scfm)	9	8	8.5	9	7.5	7.0	9.0	7.5	6.5	
	AS-16 (scfm)	17	16	17	17	15	14.5	18.0	15.0	13.5	
	AS-18 (scfm)	11	10	10	10	8.5	8.0	10.5	9.0	7.0	
	AS-22 (scfm)	13.5	13	13	13.5	12	11.5	14.0	12.0	10.0	
	AS-28 (scfm)	13	12	13	13.5	11.5	10.5	13.5	11.0	9.5	
	AS-30 (scfm)	20	18	19	19.5	17	16.0	20.0	16.5	14.0	
	AS-36 (scfm)	16	16	15.5	16	13.5	13.0	16.0	13.0	11.5	
	AS-42 (scfm)	15.5	15	10	10.5	9	9.0	11.0	9.0	8.0	
	AS-40 (scfm)	16	15.5	19	19.5	17	16.0	20.0	16.5	14.5	
	AS-34 (scfm)	17	27	27	29	25	23.5	30.0	24.0	21	
PRESSURE GAUGE											
UPPER CELL	AS-20 (psi)	10	10	10	10	10	10.0	10.0	10.0	10.0	
	AS-26 (psi)	10	10.5	10	10.5	10	10.0	11.0	11.0	11.0	
	AS-16 (psi)	10	10	10	10	10	10.0	10.0	10.0	10.0	
	AS-18 (psi)	14.5	14.5	15	15	14.5	14.0	15.5	14.0	14.0	
	AS-22 (psi)	10	10	10	10	10	9.5	10.0	10.0	10.0	
	AS-28 (psi)	10.5	10.5	10.5	10.5	10.5	10.5	11.0	11.0	11.0	
	AS-30 (psi)	10	10	10	10.5	10.5	10.0	11.0	10.5	11.0	
	AS-36 (psi)	11.5	11.0	11.5	12	12	12.0	12.0	12.0	12.0	
	AS-42 (psi)	10.5	10.5	10	10.5	10.5	10.5	11.0	11.0	11.0	
	AS-40 (psi)	10	10.5	10.5	11	11.0	11.0	11.0	11.0	11.0	
	AS-34 (psi)	10	11.0	11.5	11.5	11.5	11.0	12.0	12.0	12.0	

MONTHLY DOCUMENTATION SHEET
BUILDING 2 LOWER CELL
AIR SPARGE MANIFOLD

DATE		5-15-15	6-24-15	7-16-15	9/22/15	10-29-15	11-20-15	1-19-16	2-15-16	3-18-16	
TIME		1030	0905	1020	1140	0940	1220	1130	0925	0910	
INITIALS		A.H.	A.H.	A.H.	NP	A.H.	A.H.	A.H.	A.H.	A.H.	
ROTOMETER											
LOWER CELL	AS-27 (scfm)	14	14	15	15.5	13.5	13.0	14.0	13.0	12.0	
	AS-25 (scfm)	15.5	15	17	18	15.0	14.5	15.0	15.0	13.5	
	AS-17 (scfm)	15	14	15	16	14.0	13.5	14.0	13.5	12.0	
	AS-19 (scfm)	15	15	16	17	15.0	14.0	15.0	14.5	12.0	
	AS-21 (scfm)	18	20	20	22	20.0	19.5	21.0	19.0	16.0	
	AS-29 (scfm)	10.5	20	15	16.5	11.0	7.0	0.0	8.0	7.5	
	AS-43 (scfm)	11.5	10	11	10.5	10.0	9.5	10.0	10.0	8.5	
	AS-46 (scfm)	21	21	22	24	21.5	20.0	22.0	20.0	17.5	
	AS-41 (scfm)	13	12	12.5	13	11.5	11.0	14.5	12.0	10.0	
	AS-33 (scfm)	17	17	18	19.5	17.0	16.0	17.0	16.0	16.5	
	AS-35 (scfm)	13.5	13	13.5	14.5	13.0	13.0	14.0	12.5	11.0	
PRESSURE GAUGE											
LOWER CELL	AS-27 (psi)	12	11.5	10.5	11	10.0	10.5	13.0	11.5	11.5	
	AS-25 (psi)	11	10.5	10.5	10.5	10.0	10.0	13.0	11.0	11.0	
	AS-17 (psi)	11	10.5	11.0	11.5	10.0	10.0	12.0	11.0	11.0	
	AS-19 (psi)	13	12.5	13	12.5	11.0	11.5	14.5	12.5	12.5	
	AS-21 (psi)	12.5	11.5	12	11.5	10.5	10.5	13.5	11.5	11.5	
	AS-29 (psi)	14	12.5	13.5	13.5	12.5	12.5	6.0	12.5	12.0	
	AS-43 (psi)	11	10.5	10.5	10.5	10.0	10.0	11.5	10.5	10.5	
	AS-46 (psi)	12.5	12	12	12	11.0	11.0	13.0	12.0	11.5	
	AS-41 (psi)	10.5	10	10.5	10	9.5	10.0	11.0	10.5	10.5	
	AS-33 (psi)	11.5	11	11	11	10.5	10.0	12.0	11.0	11.0	
	AS-35 (psi)	11.5	11	11	10.5	10.0	10.0	12.0	11.0	11.0	