COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2/25/05 Time: 0930
Performed By: DCT Weather: Over Cast

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air								
	FP								
EW-8	H_2O/Air	100	20.5	C					
	FP								
EW-9	H_2O/Air	100	21	C					
	FP								
EW-10	H_2O/Air								
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2/25/05 Time: 0930

Manifold

Manifold H_2O meter	NA	gal	Manifold vacuum	19	in-Hg
Manifold H_2O flow rate	NA	gpm	Manifold temp	54°	°F

Liquid Ring Pump (LRP)

LRP hr meter	9500.62	hr	LRP oil color	Dark Honey	
LRP oil filter	1.5	psi	LRP oil level	95%	
LRP vacuum	21	in-Hg	LRP temp	174°	°F
Throttle Valve		turns closed	Dilution air valve		turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	190500	counts
Discharge pressure	NA	psi
Inlet vacuum	21.5	in-Hg
Sediment Filter Δ P	NA	in-H_2O

Free Product Tank

	Initial	Final
Depth to FP (ft)		
Depth to H_2O (ft)		
Main valve (4")	4 turns open	

Vapor Destruction Unit

Preheat temp (high)	~~1425~~ 1466	°F	Hour meter	10003.35	hours
Preheat temp (low)	1419	°F	OVA well field	70	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1471	°F	OVA post-burner	2	ppm
Exhaust temp (low)	1429	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	~30±3	in-H_2O	Date Storage	35	% full
LEL	38	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	9.0	in-H_2O
Secondary pressure	< 1.0	psi	Supply tank level	62	%

Air Stripper

Vacuum	3.0	in-H_2O	OVA AS-Eff		ppm
Air Flow	NA	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff	1.0	ppm

Comments:

1427
1471
1464

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

1419
1465

Date: 2-25-05 Time: 0915
Performed By: A. Melody Weather: overcast

Hour Meter: 3078 hours

Trench #1A	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	12075	12075

Trench #2	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	123.2	123.2
Pressure (psig)	2.0	2.0

Comments:

RPM 1725 ~~1720~~

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 2-25-05 Time: 1210
Performed By: ADM / DCT Weather: overcast

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	~~100~~ 0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	100

Trench #1	Initial	Final
Valve Position (% open)	0	~10

Trench #2	Initial	Final
Valve Position (% open)	100	0

Manifold Readings	Initial	Final
Temperature (°F)	90	105 ↑
Pressure (psig)	1	8
Flow Rate (scfm)	75	43

Comments: Leaks detected in BS-8 @ well head (pressure gauge) when bringing BS-1 thru 10.

ConocoPhillips Chain of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1230 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number:

ConocoPhillips Cost Object:

DATE: 2/25/05

PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. Wabash Ave CA 95501

SITE ADDRESS (Street and City): 1200 Railroad Ave Eureka CA 95501

CONOCOPHILLIPS SITEMANAGER:

PROJECT CONTACT (Hardcopy or PDF Report to): Mike Foget

EDF DELIVERABLE TO (PP or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: 707)441-8855 FAX: (707)441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 098179.304

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPHD	TEMPERATURE ON RECEIPT C°
	Ex EFF	2/25/05	1220	water	4		X							X	
	As EFF	2/25/05	1210	↓	4		X							X	Please return cooler, Thank you

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Dinesh Silhot			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1230 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number:

ConocoPhillips Cost Object:

DATE: 2/25/05

PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. Wabash Ave, Eureka CA 95501

SITE ADDRESS (Street and City): 1220 Railroad Ave Eureka CA 95501

CONOCOPHILLIPS SITE MANAGER:

PROJECT CONTACT (Hardcopy or PDF Report to): Mike Faget

EDF DELIVERABLE TO (IP or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: (707)441-8855 FAX: (707)441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 098179.304

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TO-14	Benzene	Vinyl Chloride	Trichlo Ethylene	Dichlo Ethylene	Methyl Chloride	TEMPERATURE ON RECEIPT C°
	Exs EFF	2/25/05	1105	air	1									X	X	X	X	X	X	
	Exs INF	↓	1115	↓	1									↓	↓	↓	↓	↓	↓	
	Car EFF	↓	1110	↓	1									↓	↓	↓	↓	↓	↓	

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Dustin Silbert			
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

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812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.305
Page 1 of 1

Project Name: COP - Eureka	Client/Owner	Daily Field Report Sequence No
General Location Of Work: Eureka, CA	Owner/Client Representative	Date: 3-1-05 / Day Of Week: TUES
General Contractor	Grading Contractor	Project Engineer: M. Foset
Type Of Work: Free Product Extraction	Grading Contractor, Superintendent, Or Foreman	Supervisor: C. Fisher
Source & Description Of Fill Material	Weather: overcast	Technician: A. Melody
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1300 - Arrive on site MW-9 & MW-10 on line
- Opened FP ext. wells
- drained FP tank
- Visible FP in ex. wells #1, 2, 3, 7 + 10

1330 - offsite

Original | Copy given to: C. Fisher | Reported By: A. Melody

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DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 3/4/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Rain	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0920 On site. System off, cleaning airstripper.
0940 Took readings from Eastern Bioventt System
0955 Start System back Up
1049 Taking readings from DPE system.
1120 Removing free product from wells.
1201 Off site.

Note: Did pump test on Water knoc out pump with system on. It pump + or - 7gal. a min.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 3/4/05 Time: @ 1128
Performed By: DCT Weather: Rain

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)		

BS-11 thru 18	Initial	Final
Valve Position (% open)	100	0

Trench #1	Initial	Final
Valve Position (% open)	10	100

Trench #2	Initial	Final
Valve Position (% open)		

Manifold Readings	Initial	Final
Temperature (°F)	154°	140 and dropping
Pressure (psig)	6.75	1.80
Flow Rate (scfm)	47	67

Comments: Air filter 50% used up.

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 3/4/05 Time: 1049
Performed By: DCT Weather: Rain

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air								
	FP								
EW-8	H_2O/Air	100	21	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	21	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
$1\ ft^3 = 7.48$ gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular
Closed EW-9, opened EW-10

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 3-4-05 Time: 1100

Manifold

Manifold H_2O meter	—	gal	Manifold vacuum	21	in-Hg
Manifold H_2O flow rate	—	gpm	Manifold temp	54	°F

Liquid Ring Pump (LRP)

LRP hr meter	9668.08	hr	LRP oil color	dark Hazy	
LRP oil filter	1.5	psi	LRP oil level	~90%	
LRP vacuum	22	in-Hg	LRP temp	176	°F
Throttle Valve		turns closed	Dilution air valve	—	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	194347	counts
Discharge pressure	NA	psi
Inlet vacuum	23	in-Hg
Sediment Filter Δ P	—	in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)	—	—	
Depth to H_2O (ft)	—	—	
Main valve (4")	~4		turns open

Vapor Destruction Unit

Preheat temp (high)	1445	°F	Hour meter	10170	hours
Preheat temp (low)	1426	°F	OVA well field	44	ppm
Preheat SP temp	1425	°F	OVA pre-burner	NA	ppm
Exhaust temp (high)	1452	°F	OVA post-burner	2	ppm
Exhaust temp (low)	1434	°F	Blower Valve	NA	% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	20 ± 3	in-H_2O	Date Storage	46	% full
LEL	~ 38	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	9	in-H_2O
Secondary pressure	<1	psi	Supply tank level	75	%

Air Stripper

Vacuum	3	in-H_2O	OVA AS-Eff	NA	ppm
Air Flow	3	in-H_2O	OVA Carbon-Mid	NA	ppm
			OVA Carbon-Eff	NA	ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 3-4-05 Time: 0940
Performed By: ADM Weather: overcast

Hour Meter: 3244 hours

Trench #1A	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	13400	13400

Trench #2	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	126.6	126.6
Pressure (psig)	2.1	2.1

Comments: Air Filter ~80% used up. (~20% left)

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Eureka, CA 95501-2138 Fax: 707 / 441-8877

JOB 098179.304 COP-Eureka
SHEET NO. 1 OF 1
CALCULATED BY C. Fisher DATE 4th Mar '05
CHECKED BY DATE
SCALE

Field Notes

- Repair of Water Discharge Pump
- Line loads for Water discharge pump
  $L_1 = 4.3$ A
  $L_2 = 4.1$ A
  $L_3 = 4.7$ A
- Flow out of Water discharge pump is low
- Disassembled Water discharge pump
  - Removed impeller housing
- Inlet to impeller housing was reduce to 1/2-inch opening from a 2-inch opening due to excessive sediment accumulation
- Impeller openings were completely clogged (3 out of 4)
- Cleaned impeller & housing
- Reassembled pump & primed pump
- Tested flow rate of Water discharge pump
  - flow rate = 20 gpm (gal/cycle)
- Restarted System
  - Wells on-line
    - EW-8, 9, & 10
- Observed proper operation of H_2O Discharge pump - OK

Daily Field Report

Job No. 098179.305			
Page 1 of 1			
Project Name: COP- Eureka	Client/Owner	Daily Field Report Sequence No	
General Location Of Work: Eureka, CA	Owner/Client Representative	Date: 3-8-05	Day Of Week: TUES
General Contractor	Grading Contractor	Project Engineer: M. Fosek	
Type Of Work: FP Extraction	Grading Contractor, Superintendent, Or Foreman	Supervisor: C. Fisher	
Source & Description Of Fill Material	Weather: clear	Technician: A. Melody	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1530- on site, opened FP extraction wells, FP noticeable in wells 1,2,3,7,10+11.

1600 - off site

Notes: No emulsion present in air stripper tank.

	Copy given to:	Reported By: D. Fuldy

G:\FORMS\ENVIRO FORMS\daily field report.doc

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DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop: Eureka	Owner/Client Representative	Date: 3/11/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Partly	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0858 On site.
0905 Taking reading on the DPE system
0908 Taking reading on the East Bioventt system
1100 Taking reading on the West Bioventt system.
1120 Removing free product from wells.
1150 Clean and load up.
1200 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 3/11/05 Time: 0905
Performed By: ADM Weather: Partly Cloudy

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air								
	FP								
EW-8	H_2O/Air		21.5	C					
	FP								
EW-9	H_2O/Air		19	C					
	FP								
EW-10	H_2O/Air		21	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 3/11/05 Time: 0905

Manifold

Manifold H_2O meter		gal	Manifold vacuum	17	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	52	°F

Liquid Ring Pump (LRP)

LRP hr meter	9800	hr	LRP oil color	dark honey	
LRP oil filter	2.0	psi	LRP oil level	~90% full	
LRP vacuum	19	in-Hg	LRP temp	173	°F
Throttle Valve		turns closed	Dilution air valve		turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	195817	counts
Discharge pressure	5.0	psi
Inlet vacuum	19	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1454	°F	Hour meter	10303	hours
Preheat temp (low)	1419	°F	OVA well field	10	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1461	°F	OVA post-burner	1	ppm
Exhaust temp (low)	1428	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	~4.0	in-H_2O	Date Storage	58	% full
LEL	~~[illegible]~~ ~40	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	~2.25	in-H_2O
Secondary pressure	<1	psi	Supply tank level	77	%

Air Stripper

Vacuum	~1.75	in-H_2O	OVA AS-Eff		ppm
Air Flow		in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 3/11/05 Time:
Performed By: Weather: Partly Cloudy

Hour Meter: 4341 8/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	12610	12610

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	120.5	120.5
Pressure (psig)	1.75	1.75

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 3-11-05 Time: 1100
Performed By: AOM Weather: overcast

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	0

Trench #1	Initial	Final
Valve Position (% open)	100	0

Trench #2	Initial	Final
Valve Position (% open)	0	100

Manifold Readings	Initial	Final
Temperature (°F)	96	96
Pressure (psig)	1.5	1.4
Flow Rate (scfm)	70	70

Comments: Repaired lead on manifold and Fixed the broken BS well.

Daily Field Report

Job No. 098179.305			
Page 1 of 1			
Project Name: COP - Eureka	Client/Owner:	Daily Field Report Sequence No:	
General Location Of Work: Eureka, CA	Owner/Client Representative:	Date: 3-16-05	Day Of Week: WEDS
General Contractor:	Grading Contractor:	Project Engineer: M. Foget	
Type Of Work: GAC change-out	Grading Contractor, Superintendent, Or Foreman:	Supervisor: C. Fisher	
Source & Description Of Fill Material:	Weather: overcast	Technician: A. Melody	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc):		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

730 - on site waiting for US Filter Westates to show up
845 - USFW on site (Anthony + Anthony)
- vacuum out old GAC from both tanks
- manifold @ bottom of primary tank had carbon pellets adhere to it (~2" thick max). the pellets were easily broke free + vacuumed out.
- Row (Rewner employee) provided forklift assistance during the filling of the tanks with new GAC.

1015 - USFW done changing out GAC. Start up System
1030 - USFW off site
- A. Melody opened FP ext. wells. - FP observable in EW-10.
- many wells sucking only air thru FP Ext. well.

1135 - begin check of system before leaving site
1130 - off site

	Copy given to:	Reported By: Ann D. Melody

U.S. FILTER WESTATES

FIELD SERVICE REPORT

DATE: 3-16-05
TIME: 9AM

LEAD TECH: ANTHONY FALCON SERVICE TECH: ANTHONY EDWARDS JOB#: 205770A

BILL TO: SHN CONSULTING
SPECIAL INST.:

JOB SITE: CONOCO PHILLIPS
1200 RAILROAD AVE.
EUREKA, CA. 95501

SITE CONTACT: AARON MELODY
PHONE#: 707-441-8855
CELL PHONE#:

START TIME: 8:15 AM
LOADING SCH LV TIME ____ TO YARD OUT ____
ARRIVAL 8:45 AM
DEPART 10:15 AM
END TIME

PROCEED TO OTHER JOB
☐ YES ☒ NO
SITE NAME
CITY
JOB#

☐ SERVICE
☐ PICK-UP
☐ DELIVERY
☐ REWORK
☐ WARRANTY
☐ SAMPLE

FILTERS SERVICED

QTY			
	AQUA SCRUB	1000	2000
2	VENT SCRUB	1000	2000
	P.V.	1000	2000
	OTHER:		

CARBON USED

QTY ____ ACRS/AC830:
QTY ____ VCRS/VC48C:
QTY ____ AC1230C:
QTY 2000 OTHER: VCR60

CONTAINERS USED:

QTY 6 DRUMS
QTY ____ TOTE BINS
QTY ____ ROLL-OFFS
QTY ____ OTHER:

SHIPPING INFORMATION:

PROFILE NO.: W50149 AC EXP. 3-8-07
CONTAINERS LEFT ON SITE: ☐ YES ☒ NO
MANIFEST DOC.#:

SAMPLE ANALYTICAL:

EPA 8015-TPH	VM/XM	TCLP
EPA 8010/8020	EPA8260	11RCRA
OTHER:		

EQUIPMENT RENTED:

RENTAL COMPANY:
RELEASE NO.:
PHONE #:

SERVICE TECH COMMENTS: C/O: 2 VENT SCRUBS BY RMI (SOLD BY SLABY SALES INC.) S/N# 03-253-2D & 03-253-1-D
LOT # 14032 PARTIALLY USED & 14023 USED TO FILL THE VAPOR VESSELS
USED FORKLIFT ON-SITE (RAN BY SITE TECH/NOT CONTACT) TO DROP FILL VESSELS
TOP FILL VESSELS BY BUCKET FILL OR BY FORKLIFT DROP FILL DUE TO TOP 6"-8" OPENING (ROUND)

CUSTOMER COMMENTS:

CUSTOMER SIGNATURE: [signature] DATE: 3-16-05

6611 SAN LEANDRO STREET, OAKLAND, CA 94621 PHONE: (510) 639-7274 FAX (510) 639-7762

USFilter WESTATES CARBON PRODUCTS

NON-HAZARDOUS MANIFEST

PKM10001

CONSIGNEE (TO):	SHIPPER (FROM):
☐ **Westates Carbon-Arizona** 2523 Mutahar Street Parker, AZ 85344	1 SHN Consulting 2 Conoco Phillips 1200 Railroad Ave Emeryville, Ca. 94608
☒ **Westates Carbon-California** 11711 Reading Road Red Bluff, CA 96080	

Job#: 3 205770A

No. Shipping Units	TYPE *	DESCRIPTION	WEIGHT
4 G	5 DM	**Spent Carbon – Non-Hazardous Waste**	6 1650
		Circle one: AQUA VAPOR	
		Profile # 7 WS01119 AC 03/08/07	

CUSTOMER INFORMATION:

DATE:	PRINT NAME:	SIGNATURE:
8 3-16-05	9 Aaron Melody	10 Aaron D. Melody

TRANSPORTER:

NAME OF CARRIER #1:	DATE:	SIGNATURE:
WESTATES CARBON	11 03/16/05	12
NAME OF CARRIER #2: 13	DATE: 14	SIGNATURE: 15
RECEIVED BY (FULL NAME): 16	DATE: 17	SIGNATURE: 18

1.) Name of Generator
2.) Generator site address
3.) Given job number
4.) Number of units being picked up
5.) Type of unit being picked up
6.) Total weight
7.) Profile number, MANDATORY
8.) Date service and/or pick up performed
9.) Name of person signing for Generator
10.) Signature of person in box 9
11.) Same as box 8
12.) Signature of driver for Transporter #1
13.) Name of carrier transporting to Plant
14.) Date the load was picked up to go to the Plant
15.) Driver's signature for Transporter #2
16.) Full name of Receiving person
17.) Date received into Plant
18.) Signature of Receiving person

NON-HAZARDOUS MANIFEST

WHITE: THE PLANT YELLOW: TRANSPORTER #2 PINK: FILE GOLD: GENERATOR

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop: Eureka	Owner/Client Representative	Date: 3/18/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Over Cast	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0827 On site.
0835 Taking readings from the East Bioventt system.
0846 Taking reading from the DPE system.
0910 Took Sumo Sample on Exs-EFF — Exs-EFF
0920 Took sumo sample on Car-EFF — Car-EFF
0930 Took Sumo sample on Exs-INF — Exs-INF
0950 Took water sample from DPE system — Exs-EFF
1005 Took water sample from Airstripper-EFF — As-EFF
1010 Clean out entier Airstripper.
1130 Took reading on West Bioventt system.
1300 Off site.
1425 Back on site. Removing free product out of wells & EW-wells.
1535 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 3/18/05 Time: 0835
Performed By: DCT Weather: Overcast

Hour Meter: 43579 3/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11750	11750

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	121.6°	121.6°
Pressure (psig)	2	2

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 3/18/05 Time: 0846
Performed By: DST Weather: Over Cast

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air								
	FP								
EW-8	H_2O/Air	100	23	C					
	FP								
EW-9	H_2O/Air	100	21.5	C					
	FP								
EW-10	H_2O/Air	100	24	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O

1 ft^3 = 7.48 gallons
FP = Free Product

Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 3/18/05 Time: 0846

Manifold

Manifold H_2O meter		gal	Manifold vacuum	22	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	54°	°F

Liquid Ring Pump (LRP)

LRP hr meter	9966.54	hr	LRP oil color	Dark Honey	
LRP oil filter	1.5	psi	LRP oil level	70% full	
LRP vacuum	20.5	in-Hg	LRP temp	125°	°F
Throttle Valve		turns closed	Dilution air valve		turns open
Recirculation valve	0	turns open			

Water Knock-out Pot

H_2O Discharge Counter	197995	counts
Discharge pressure		psi
Inlet vacuum	23	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final
Depth to FP (ft)		
Depth to H_2O (ft)		
Main valve (4")	4 turns open	

Vapor Destruction Unit

Preheat temp (high)	1458	°F	Hour meter	10469.21	hours
Preheat temp (low)	1421	°F	OVA well field	13	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1467	°F	OVA post-burner	3	ppm
Exhaust temp (low)	1430	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	30 - 40	in-H_2O	Date Storage	69	% full
LEL	40	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	78	%

Air Stripper

Vacuum	3.5	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff	0	ppm

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 3/18/05 Time: 1130
Performed By: DCT Weather: Over Cast

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	100

BS-11 thru 18	Initial	Final
Valve Position (% open)		

Trench #1	Initial	Final
Valve Position (% open)		

Trench #2	Initial	Final
Valve Position (% open)	100	0

Manifold Readings	Initial	Final
Temperature (°F)	95°	110 and going up.
Pressure (psig)	1	6.5
Flow Rate (scfm)	73	47

Comments:

ConocoPhillips Chain of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1230 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number:

ConocoPhillips Cost Object:

DATE: 3/18/05
PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. Wabash Ave, Eureka CA 95501

SITE ADDRESS (Street and City): 1200 Railroad Ave Eureka CA 95501

CONOCOPHILLIPS SITE MANAGER:

PROJECT CONTACT (Hardcopy or PDF Report to): Mike Foget

EDF/DELIVERABLE TO (ID or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: (707)441-8855 FAX: (707)441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 098179.304

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TO-14	Benzene	Vinyl Chloride	Trichloro Ethylene	Dichloro Ethylene	Methyl Chloride	TEMPERATURE ON RECEIPT C°
Exs EFF	3/18/05	0910	air	1									X	X	X	X	X	X	
Exs INF	↓	0930	↓	1									↓	↓	↓	↓	↓	↓	
Car EFF	↓	0920	↓	1									↓	↓	↓	↓	↓	↓	

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Justin Sillett			
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

9/19/03 Revision

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1230 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number:

ConocoPhillips Cost Object:

DATE: 3/18/05
PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. Wabash Ave CA 95501

SITE ADDRESS (Street and City): 1200 Railroad Ave Eureka CA 95501

CONOCOPHILLIPS SITE MANAGER:

PROJECT CONTACT (Hardcopy or PDF Report to): Mike Foget

EDF DELIVERABLE TO (RP or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: (707)441-8855 FAX: (707)441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 098179.304

REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS): SEE Field Notes
☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

EXS-EFF = 14 days AS-EFF = 24 hours

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☐

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPHd	TEMPERATURE ON RECEIPT C*
	Exs-EFF	3/18/05	0950	water	4		X							X	TAT = 14 days
	As-EFF	↓	1005	↓	4		X							X	TAT = 24 hr
															Please return cooler
															Thank you

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Dustin Gillet			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3/19/03 Revision

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DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop: Eureka	Owner/Client Representative	Date: 3/25/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Partly Cloudy	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0950 On site. Taking reading on the East Bioventt system.
1008 Taking readings from the West Bioventt system.
1145 Removing Free Product out of free product knock out.
~~1240~~ 1120 Started system back up.
1240 off site.
1420 Back on site.
1501 off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 3/25/05 Time: 0950
Performed By: DCT Weather: Partly Cloudy

Hour Meter: 43748.6/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11180	11180

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	142.6°	142.6°
Pressure (psig)	3	3

Comments: Put in New aircleaner.

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 3/25/05 Time: 1008
Performed By: OCT Weather: Partly cloudy

Hour Meter: 6120.68 hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	100	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	100

Trench #1	Initial	Final
Valve Position (% open)		

Trench #2	Initial	Final
Valve Position (% open)		

Manifold Readings	Initial	Final
Temperature (°F)	108°	115° and going up
Pressure (psig)	5.25	8.25
Flow Rate (scfm)	55	40

Comments: Put in New airchanger

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 3/25/05 Time: 1420
Performed By: DCT Weather: Partly Cloudy

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	27	C					
	FP								
EW-8	H_2O/Air	100	17	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	25	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 3/25/05 Time: 1420

Manifold

Manifold H_2O meter		gal	Manifold vacuum	22.5	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	9976.85	hr	LRP oil color	Dark Honey	
LRP oil filter	1.5	psi	LRP oil level	70%	
LRP vacuum	22.5	in-Hg	LRP temp	174°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	198145	counts
Discharge pressure		psi
Inlet vacuum	23.5	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")			turns open

Vapor Destruction Unit

Preheat temp (high)	1451	°F	Hour meter	10478.75	hours
Preheat temp (low)	1426	°F	OVA well field		ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1460	°F	OVA post-burner		ppm
Exhaust temp (low)	1437	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	15 → 25	in-H_2O	Date Storage	81	% full
LEL	40	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	87	%

Air Stripper

Vacuum	3	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

SHN ENGINEERS & GEOLOGISTS
812 W. Wabash Ave.
Eureka, CA 95501-2138
Tel. 707 / 441-8855
Fax: 707 / 441-8877

JOB COP-Eureka 098179.305
SHEET NO. 1 OF 1
CALCULATED BY C. Fisher DATE 28th Mar '05
CHECKED BY DATE
SCALE

Field Notes

- Onsite with Lisa Savage (City of Eureka Pre-Treatment Coordin.
- Annual site inspection of City of Eureka WWTP
- Ms Savage collected water sample from Air Stripper
- Items requested by Ms Savage
  - Signed Letter for Feb including non-compliant sample
  - Copies of a FF disposed of off-site
  - GRO explanation
- M.O. new requirement.
- System operating normally
- Wells on-line EW-8, 9, & 11
- No emulsion in Air Stripper

CITY OF EUREKA
PRETREATMENT FACILITY INSPECTION REPORT

GENERAL INFORMATION	
Business Name: SHN - Unocal Site (ConocoPhillips	
Facility Address: 1200 Railroad Ave	Mailing Address (if different):
Phone Number: 441-8855	Fax Number:
Date: 3·28·05	Time In: 0900
Inspection Type: (A) Scheduled (B) Unscheduled (C) Emergency (D) Pretreatment Division Monitoring (E) Self-Monitoring	
Last Inspection Date: 3·17·04	Last Sampling Date: 3·18·05
Permit Number: 84	Expiration Date: 3·24·07
Persons Present During Inspection: Lisa Savage	Title: Pretreatment Coordinator
Industry Contact Name: Chris Fisher	Title: Site Engineer
Name:	Title:
Name:	Title:

INSPECTION SUMMARY

- This is the annual pretreatment division inspection and monitoring for SHN permit # 84
- Please fax manifesto for used oil disposal
- Written explanation of "GRO (C6-C12)"
- MO is a new monitoring requirement as of March 21, 2005
- No other new requirements

SIGNATURES	
Inspector: [illegible]	Date: 3·28·05 Time Out: 0915
Contact Signature: [illegible]	

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DAILY FIELD REPORT

Job No. 098179.309
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop- Eureka	Owner/Client Representative	Date: 4/1/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Cloudy	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

On site. 0855
0905 Taking readings on the East Bioventt systems
0917 Taking reading from the DPE system.
1056 Taking reading from the West Bioventt systems
1110 Off site

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 4/1/05 Time: 0905
Performed By: DOT Weather: Cloudy

Hour Meter: 4/3915 8/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11025	11025

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	143.9°	143.9°
Pressure (psig)	3	3

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 4/1/05 Time: 0917
Performed By: DCT Weather: Cloudy

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	26	C					
	FP								
EW-8	H_2O/Air	100	23	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	27	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O

1 ft^3 = 7.48 gallons
FP = Free Product

Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 4/1/05 Time: 0917

Manifold

Manifold H_2O meter		gal	Manifold vacuum	20.5	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	10139.61	hr	LRP oil color	Dark Honey	
LRP oil filter	1.40	psi	LRP oil level	69%	
LRP vacuum	20.5	in-Hg	LRP temp	178	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	200723	counts
Discharge pressure	4.5	psi
Inlet vacuum	22	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1460	°F	Hour meter	10641.44	hours
Preheat temp (low)	1424	°F	OVA well field	34	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1468	°F	OVA post-burner	2	ppm
Exhaust temp (low)	1432	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	22-28	in-H_2O	Date Storage	92	% full
LEL	42	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	70	%

Air Stripper

Vacuum	4	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 4/1/05 Time: 10:56 AM
Performed By: AS Weather: OVERCAST

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	Ø	Ø

BS-11 thru 18	Initial	Final
Valve Position (% open)	100	Ø

Trench #1	Initial	Final
Valve Position (% open)	10	100

Trench #2	Initial	Final
Valve Position (% open)	Ø	Ø

Manifold Readings	Initial	Final
Temperature (°F)	161	140 AND DROPPING
Pressure (psig)	7.25	1.75
Flow Rate (scfm)	45	67

Comments:

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DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop: Eureka	Owner/Client Representative	Date: 4/8/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Rain	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0900 On site.
0904 Taking reading on the DPE system.
0935 Taking ~~on the~~ readings on the East ~~west~~ Bioventt system.
~~0940~~ Taking reading on the west Bioventt system.
0950 Cleaning airstripper.
~~1030 1125~~
1135 Clean and loaded up.
1140 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 4/8/05 Time: 0904
Performed By: DCT Weather: Rain

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	23	C					
	FP								
EW-8	H_2O/Air	100	22.5	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	26	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O

1 ft^3 = 7.48 gallons
FP = Free Product

Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 4/8/05 Time: 0964

Manifold

Manifold H_2O meter		gal	Manifold vacuum	19	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	56	°F

Liquid Ring Pump (LRP)

LRP hr meter	10806.26	hr	LRP oil color	Dark Honey	
LRP oil filter	2	psi	LRP oil level	75% full	
LRP vacuum	20	in-Hg	LRP temp	174°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	203194	counts	Free Product Tank	Initial	Final
Discharge pressure	4	psi	Depth to FP (ft)		
Inlet vacuum	22.5	in-Hg	Depth to H_2O (ft)		
Sediment Filter Δ P		in-H_2O	Main valve (4")	4	turns open

Vapor Destruction Unit

Preheat temp (high)	1422	°F	Hour meter	10808.23	hours
Preheat temp (low)	~~1430~~ 1462	°F	OVA well field		ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	~~1462~~ 1464	°F	OVA post-burner		ppm
Exhaust temp (low)	1430	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	32-38	in-H_2O	Date Storage	44	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	75	%

Air Stripper

Vacuum	4.5	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 4/8/05 Time: ~~0915~~ 1125
Performed By: DCT Weather: Rain

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)		

BS-11 thru 18	Initial	Final
Valve Position (% open)		

Trench #1	Initial	Final
Valve Position (% open)	100	0

Trench #2	Initial	Final
Valve Position (% open)	~~100~~ 0	100

Manifold Readings	Initial	Final
Temperature (°F)	70°	73°
Pressure (psig)	2	2.25
Flow Rate (scfm)	68	72

Comments: _____

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 4/8/05 Time: 0903
Performed By: DCT Weather: Rain

Hour Meter: 44083 3/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	10125	10125

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	148.2°	148.2
Pressure (psig)	3	3

Comments:

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DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop: Eureka	Owner/Client Representative	Date: 4/15/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Clear	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0918 On site.
0920 Taking reading's on the West Bioventt system.
0935 Taking reading's on the DPE system.
1020 Taking reading's on the East Bioventt system.
1025 Clean and loaded up.
1040 off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 4/15/05 Time: 0920
Performed By: DcT Weather: Clear

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	100

BS-11 thru 18	Initial	Final
Valve Position (% open)		

Trench #1	Initial	Final
Valve Position (% open)		

Trench #2	Initial	Final
Valve Position (% open)	100	0

Manifold Readings	Initial	Final
Temperature (°F)	90°	100° and going up.
Pressure (psig)	1.25	6.75
Flow Rate (scfm)	72	50

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 4/15/05 Time: 0935
Performed By: DCT Weather: Clear

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	26	C					
	FP								
EW-8	H_2O/Air	100	26	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	29	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 4/15/05 Time: 0832

Manifold

Manifold H_2O meter		gal	Manifold vacuum	21.5	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	10474.51	hr	LRP oil color	Dark Honey	
LRP oil filter	2	psi	LRP oil level	50%	
LRP vacuum	22	in-Hg	LRP temp	172°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	205890	counts
Discharge pressure	4	psi
Inlet vacuum	23.5	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1455	°F	Hour meter	10926.40	hours
Preheat temp (low)	1425	°F	OVA well field	12	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1463	°F	OVA post-burner	2	ppm
Exhaust temp (low)	1433	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	22-28	in-H_2O	Date Storage	99	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10.5	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	82	%

Air Stripper

Vacuum	3.5	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 4/15/05 Time: 1020
Performed By: DXT Weather: Clear

Hour Meter: _____ hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11295	11295

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)		
Pressure (psig)	3	3

Comments:

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DAILY FIELD REPORT

Job No. 098179.304
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 4/29/05	Day Of Week: Fri
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Over Cast	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0855 On site
0905 Taking reading's from the ~~DPE system~~. West Biovent system
0920 Taking reading's from the DPE system.
0950 Took Sumo Sample on Exs EFF — Exs EFF
1000 Took Sumo Sample on Cop EFF — Cop EFF
1015 Took Sumo Sample on Exs INF — Exs INF
1040 Sampled Exs-EFF water — Exs-EFF
1100 Took water sample from Airstripper EFF — As-EFF
1120 Removing free product from all EW-wells
1145 Measuring free product thickness from free product tank.
1158 Taking reading's from the East Biovent system.
1205 Clean and loaded up.
1210 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 4/29/05 Time: 0905
Performed By: DCT Weather: Over Cast

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	100	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	100

Trench #1	Initial	Final
Valve Position (% open)	0	10

Trench #2	Initial	Final
Valve Position (% open)	0	0

Manifold Readings	Initial	Final
Temperature (°F)	105°	130° and going up
Pressure (psig)	5.5	8.25
Flow Rate (scfm)	53	42

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 4/29/05 Time: 0920
Performed By: DET Weather: Clear Cool

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	21.5	C					
	FP								
EW-8	H_2O/Air	100	24.5	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	27?	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O

1 ft^3 = 7.48 gallons
FP = Free Product

Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 4/29/05 Time: 0920

Manifold

Manifold H_2O meter		gal	Manifold vacuum	22	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	10620.72	hr	LRP oil color	Dark Honey	
LRP oil filter	1.75	psi	LRP oil level	40% full	
LRP vacuum	22	in-Hg	LRP temp	180°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	208174	counts
Discharge pressure	4	psi
Inlet vacuum	22	in Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1425	°F	Hour meter	11122.55	hours
Preheat temp (low)	1434	°F	OVA well field	6	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1454	°F	OVA post-burner	3	ppm
Exhaust temp (low)	1462	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	20-30	in-H_2O	Date Storage	0 New Disk	% full
LEL		%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level		%

Air Stripper

Vacuum	4	in-H_2O	OVA AS-Eff		ppm
Air Flow		in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff	0	ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 4/29/05 Time: 1158
Performed By: DCT Weather: Over Cast

Hour Meter: _____ hours

Trench #1A	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11080	11080

Trench #2	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	128.8°	128.8°
Pressure (psig)	2.25	2.25

Comments: _____

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
123C W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number:

ConocoPhillips Cost Object:

DATE: 4/29/05
PAGE: 1 of 1

SAMPLING COMPANY: SHN
Valid Value ID:
CONOCOPHILLIPS SITE NUMBER: 0201
GLOBAL ID NO.:
ADDRESS: 812 W. Wabash Ave, Eureka CA 95501
SITE ADDRESS (Street and City): 1200 Railroad Ave Eureka CA 95501
CONOCOPHILLIPS SITE MANAGER:
PROJECT CONTACT (Hardcopy or PDF Report to): Mike Faget
EDF DELIVERABLE TO (RP or Designee):
PHONE NO.:
E-MAIL:
LAB USE ONLY
TELEPHONE: (707)441-8855
FAX: (707)441-8877
E-MAIL:
SAMPLER NAME(S) (Print):
CONSULTANT PROJECT NUMBER: 098179.304

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TO-14	Benzene	Vinyl Chloride	Trichlo Ethylene	Dichlo Ethylene	Methyl Chloride	TEMPERATURE ON RECEIPT C°
	Exs EFF	4/29/05	0950	air	1									X	X	X	X	X	X	
	Exs INF	↓	1015	↓	1									↓	↓	↓	↓	↓	↓	
	Car EFF	↓	1000	↓	1									↓	↓	↓	↓	↓	↓	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Dustin Sibbets			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

6/9/03 Revision

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1234 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number

ConocoPhillips Cost Object

DATE: 4/29/05

PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. Wabash Ave CA 95501

SITE ADDRESS (Street and City): 1200 Railroad Ave Eureka CA 95501

CONOCOPHILLIPS SITE MANAGER:

PROJECT CONTACT (Hardcopy or PDF Report to): Mike Foget

EDF DELIVERABLE TO (PM or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: 707)441-8855 FAX: (707)441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 058179.304

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPHD/MD	TEMPERATURE ON RECEIPT C°
	Ex EFF	4/29/05	1040	water	4		X							X	
	As EFF	✓	1100	✓	4		X							X	

Please return cooler, Thank you

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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HAZARDOUS MATERIALS SITE OPERATIONS
DAILY RECORD & SITE SAFETY MEETING RECORD
SHN CONSULTING ENGINEERS & GEOLOGISTS

JOB NAME		ACTIVITY				JOB #		
COP Eureka		Site Inspection				098179.COP		
Company/ Agency	Name	Operation/ Function	Signature	Time In	Time Out	Date	29CFR1910.120(e) 40hr Y/N	24hr Y/N
SHN	Chris Fisher	Engr	[illegible]	8:20		16 May '05	Y	
ICONCO	Reef Anderson	Demo	Reef Anderson	8:20		5/16/05	Y	

HAZARDOUS MATERIALS SITE OPERATIONS
DAILY RECORD
SHN CONSULTING ENGINEERS & GEOLOGISTS

JOB NAME: COP - Eureka **ACTIVITY:** Site Inspection **JOB #:** 098179.300

Company/Agency	Name	Operation/ Function	Signature	Time In	Time Out	Date	29CFR1910.120(e) 40hr Y/N	24hr Y/N
SHN	Chris Fisher	Engr	[signature]	1335		5 May 05	Y	
TRC	Marianne Gomez	"	[signature]	1335		5 May 05	Y	
TRC	Gary Gunderson	"	[signature]	1335		5 May 05	Y	
ConocoPhillips	Thomas Kosel	"	[signature]	1335		5 MAY 05	Y	
SHN	Mike Foyer	"	[signature]	1335		5 May 05	Y	

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DAILY FIELD REPORT

Job No. 098179.305
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop: Eureka	Owner/Client Representative	Date: 5/5/05	Day Of Week: Thur.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Rain	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0815 On site ~~Taking reading from the West Biovent system.~~

0835 Taking reading from the DPE-system.
0910 Cleaning Air stripper.
0924 Taking reading on the East Biovent system.
0943 Taking reading from the West Biovent system.
0955 off site

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 5/5/05 Time: 0835
Performed By: DCT Weather: Rain

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air	100	21.5	C					
	FP								
EW-7	H_2O/Air								
	FP								
EW-8	H_2O/Air	100	25	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	28	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O

1 ft^3 = 7.48 gallons
FP = Free Product

Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 5/5/05 Time: 0835

Manifold

Manifold H_2O meter		gal	Manifold vacuum	21	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	10763.96	hr	LRP oil color	Dark Honey	
LRP oil filter	2	psi	LRP oil level	30% full	
LRP vacuum	21	in-Hg	LRP temp	178°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	210501	counts
Discharge pressure	4	psi
Inlet vacuum	22	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1455	°F	Hour meter	11265.74	hours
Preheat temp (low)	1425	°F	OVA well field	23	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1463	°F	OVA post-burner	1	ppm
Exhaust temp (low)	1434	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	28-34	in-H_2O	Date Storage	10	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	35	%

Air Stripper

Vacuum	6	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 5/5/05 Time: 0924
Performed By: DCT Weather: Rain

Hour Meter: 44541 7/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11460	11460

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	122.5°	122.5°
Pressure (psig)	2	2

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 5/5/05 Time: ~~0815~~ 0943
Performed By: DCT Weather: Rain

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)		

BS-11 thru 18	Initial	Final
Valve Position (% open)	100	0

Trench #1	Initial	Final
Valve Position (% open)	10	100

Trench #2	Initial	Final
Valve Position (% open)		

Manifold Readings	Initial	Final
Temperature (°F)	164°	145° and droping
Pressure (psig)	6.25	1.75
Flow Rate (scfm)	47	68

Comments: _____

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DAILY FIELD REPORT

Job No. 098179.305
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 5/12/05	Day Of Week: Thur.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Over Cast	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0836 On site.
0905 Taking readings on the DPE system.
0940 Taking readings on the East Bioventt system.
0950 Taking readings on the West Bioventt system.
1000 Clean up and loaded up.
1010 off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 5/12/05 Time: 0905
Performed By: DCT Weather: Over Cast

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air								
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	21.5	C					
	FP								
EW-8	H_2O/Air	100	24.5	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	28.5	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with 98 ppm
OVA Type

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 5/12/05 Time: 0905

Manifold

Manifold H_2O meter		gal	Manifold vacuum	22	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	10932.00	hr	LRP oil color	Dark Honey	
LRP oil filter	2	psi	LRP oil level	25% full	
LRP vacuum	21	in-Hg	LRP temp	180	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	213589	counts
Discharge pressure	4	psi
Inlet vacuum	23.5	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1456	°F	Hour meter	11433.77	hours
Preheat temp (low)	1425	°F	OVA well field	11.8	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1463	°F	OVA post-burner	1.5	ppm
Exhaust temp (low)	1433	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	(Burner) or Catalytic	

Chart Recorder

Flow	30-40	in-H_2O	Date Storage	21	% full
LEL		%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	1	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	75	%

Air Stripper

Vacuum	4	in-H_2O	OVA AS-Eff		ppm
Air Flow		in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 5/12/05 Time: 0940
Performed By: DCT Weather: Over Cast

Hour Meter: 44709 9/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11526	11526

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)		
Pressure (psig)	2.25	2.25

Comments: Put new airfilter in.

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 5/12/05 Time: 0950
Performed By: DCT Weather: 0950 Over Cast

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	AS ~~100%~~ 0%	0%

BS-11 thru 18	Initial	Final
Valve Position (% open)	0%	0%

Trench #1	Initial	Final
Valve Position (% open)	100%	0%

Trench #2	Initial	Final
Valve Position (% open)	0%	100%

Manifold Readings	Initial	Final
Temperature (°F)	102 °F	104 °F
Pressure (psig)	1.5	1.5
Flow Rate (scfm)	70	70

Comments: Air filter is 20% used.

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DAILY FIELD REPORT

Job No. 078179.305
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No
General Location Of Work: Cop: Eureka	Owner/Client Representative	Date: 5/20/05 — Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor
Source & Description Of Fill Material	Weather: Cloudy	Technician: Dustin Tibbets
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0918 On site. Taking readings on the DPE systems.
0955 Taking readings on the East Biovent system.
1030 Taking reading on the West Biovent system.
1038 Shut DPE systems off to clean Gas stripper.
1120 Clean and loaded up.
1130 Off site.

Copy given to:

Reported By: Dustin Tibbets

G:\FORMS\DAILY FIELD REPORT.doc

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 5/20/05 Time: 0920
Performed By: AS Weather: OVERCAST

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air	0%	9						
	FP								
EW-2	H_2O/Air	0%	6						
	FP								
EW-3	H_2O/Air	0%	11						
	FP								
EW-4	H_2O/Air	0%	0						
	FP								
EW-5	H_2O/Air	0%	11						
	FP								
EW-6	H_2O/Air	0%	6						
	FP								
EW-7	H_2O/Air	100%	22	C					
	FP								
EW-8	H_2O/Air	100%	27	C					
	FP								
EW-9	H_2O/Air	0%	9						
	FP								
EW-10	H_2O/Air	100%	30+	C					
	FP								
EW-11	H_2O/Air	0%	16						
	FP								
EW-12	H_2O/Air	0%	10						
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O

1 ft^3 = 7.48 gallons
FP = Free Product

Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 5/20/05 Time: 0920

Manifold

Manifold H_2O meter	/	gal	Manifold vacuum	23	in-Hg
Manifold H_2O flow rate	/	gpm	Manifold temp	58	°F

Liquid Ring Pump (LRP)

LRP hr meter	11124	hr	LRP oil color	DARK Honey	
LRP oil filter	2	psi	LRP oil level	20% Full	
LRP vacuum	21	in-Hg	LRP temp	186	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	217174	counts
Discharge pressure	3.5	psi
Inlet vacuum	24	in-Hg
Sediment Filter Δ P	/	in-H_2O

Free Product Tank

	Initial	Final
Depth to FP (ft)		
Depth to H_2O (ft)		
Main valve (4")	4 turns open	

Vapor Destruction Unit

Preheat temp (high)	1461	°F	Hour meter	11626	hours
Preheat temp (low)	1425	°F	OVA well field	11	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1470	°F	OVA post-burner	1	ppm
Exhaust temp (low)	1438	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	25-35	in-H_2O	Date Storage	35	% full
LEL	/	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	9.5	in-H_2O
Secondary pressure	.5	psi	Supply tank level	65	%

Air Stripper

Vacuum	7	in-H_2O	OVA AS-Eff		ppm
Air Flow		in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 5/20/05 Time: 1010
Performed By: AS Weather: OVERCAST

Hour Meter: _____ hours

Trench #1A	Initial	Final
Valve Position (% open)	0%	0%
Flow Rate (fpm)	0	0

Trench #1B	Initial	Final
Valve Position (% open)	100%	100%
Flow Rate (fpm)	12620	

Trench #2	Initial	Final
Valve Position (% open)	0%	0%
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	134.4	
Pressure (psig)	2	

Comments: _____

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 5/20/05 Time: 1030
Performed By: AS Weather: Partly Sunny

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	~~100%~~ 0	100

Trench #1	Initial	Final
Valve Position (% open)	0	50

Trench #2	Initial	Final
Valve Position (% open)	100	~~100%~~ 0

Manifold Readings	Initial	Final
Temperature (°F)	100°F	136°F
Pressure (psig)	1.25	7.25
Flow Rate (scfm)	70	40

Comments: _____

HAZARDOUS MATERIALS SITE OPERATIONS
DAILY RECORD & SITE SAFETY MEETING RECORD
SHN CONSULTING ENGINEERS & GEOLOGISTS

JOB NAME		ACTIVITY				JOB #		
COP Eureka		Site Inspection				098174.000		
Company/ Agency	Name	Operation/ Function	Signature	Time In	Time Out	Date	29CFR1910.120(e) 40hr Y/N	24hr Y/N
SHN	C. Fisher	Engr	[illegible]	1300		23rd May 05	Y	
SECOR	Thomas Potter	P.M.	[illegible]	1300		23 May 05	Y	
SHN	M Fogart	Engr	[illegible]	13:00		23 may 05	Y	

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DAILY FIELD REPORT

Job No. 078179.305
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 5/27/05	Day Of Week: Fri
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Over Cast	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

ARRIVE ON SITE: 1508

~~1530~~ -

1510 - DPE SYSTEM MONITORING, MANIFOLD READINGS

1515 - DPE SYSTEM MONITORING, URP, WATER KNOCK-OUT, FP TANK VDU, PROPANE, AIR STRIPPER

1530 - OVA CARBON-EFF Suma sample
1555 - OVA POST BURNER " "
1605 - OVA MEU FIELD " "

1615 - EASTERN BIOVENT MONITORING

EX-EFF SAMPLED @ 1630
AS-EFF SAMPLED @ 1635

1640 Shut DPE system off, cleaning Air stripper and adding oil to DPE system
1710 Started system back up, Removing Free product.
1734 off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 5/27/05 Time: 1510
Performed By: AS Weather: sunny

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air	0	7.5						
	FP								
EW-2	H_2O/Air	0	2						
	FP								
EW-3	H_2O/Air	0	10						
	FP								
EW-4	H_2O/Air	0	0						
	FP								
EW-5	H_2O/Air	0	10						
	FP								
EW-6	H_2O/Air	0	4						
	FP								
EW-7	H_2O/Air	100	19						
	FP								
EW-8	H_2O/Air	100	26						
	FP								
EW-9	H_2O/Air	0	8.5						
	FP								
EW-10	H_2O/Air	100	29						
	FP								
EW-11	H_2O/Air	0	13						
	FP								
EW-12	H_2O/Air	0	8						
	FP								

NOTES: EW-1 BROUGHT ONLINE AFTER AIR STRIPPER CLEANING

in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O

1 ft^3 = 7.48 gallons
FP = Free Product

Flow Types: B = Bubble, S = Slug
C = Churn, R = Ripple
A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 5/27/05 Time: 1515

Manifold

Manifold H_2O meter		gal	Manifold vacuum	22	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58	°F

Liquid Ring Pump (LRP)

LRP hr meter	11297.71	hr	LRP oil color	DARK HONEY	
LRP oil filter	2	psi	LRP oil level	5% Full	
LRP vacuum	21.5	in-Hg	LRP temp	184	°F
Throttle Valve	~~4~~	turns closed	Dilution air valve	0	turns open
Recirculation valve	0	turns open			

Water Knock-out Pot

H_2O Discharge Counter	221355	counts
Discharge pressure		psi
Inlet vacuum	23	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final
Depth to FP (ft)		
Depth to H_2O (ft)		
Main valve (4")	4 turns open	

Vapor Destruction Unit

Preheat temp (high)	1450	°F	Hour meter	11799.48	hours
Preheat temp (low)	1426	°F	OVA well field	51	ppm 1605
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1459	°F	OVA post-burner	1	ppm 1555
Exhaust temp (low)	1435	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	20-30	in-H_2O	Date Storage	47	% full
LEL	N/A	%			

Propane Supply

Primary pressure	~~8.5~~ 6.5	psi	Operating pressure	9.5	in-H_2O
Secondary pressure	~~8~~ 12	psi	Supply tank level	72	%

Air Stripper

Vacuum	5	in-H_2O	OVA AS-Eff		ppm
Air Flow	~~4~~	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff	0	ppm 1530

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 5/27/05 Time: 1530 1615
Performed By: AS Weather: Partly cloudy

Hour Meter: _____ hours

Trench #1A	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)	0	0

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	14056	14056

Trench #2	Initial	Final
Valve Position (% open)	0	0
Flow Rate (fpm)	0	0

Manifold Readings	Initial	Final
Temperature (°F)	129.9	131.0
Pressure (psig)	2	2

Comments: _____

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 5/27/05 Time: 1658
Performed By: AS Weather: cloudy

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0%	100%

BS-11 thru 18	Initial	Final
Valve Position (% open)	100% ~~50%~~	0%

Trench #1	Initial	Final
Valve Position (% open)	50%	0%

Trench #2	Initial	Final
Valve Position (% open)	0%	0%

Manifold Readings	Initial	Final
Temperature (°F)	110°F	120°F
Pressure (psig)	9	6.5
Flow Rate (scfm)	37	50

Comments:

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1230 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number

ConocoPhillips Cost Object

DATE: 5/27/05

PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. Wabash Ave., Eureka CA 95501

SITE ADDRESS (Street and City): 1200 Railroad Ave Eureka CA 95501

CONOCOPHILLIPS SITE MANAGER:

PROJECT CONTACT (Hardcopy or PDF Report to): Mike Foget

EDF DELIVERABLE TO (RP or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: (707)441-8855

FAX: (707)441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 098179.304

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TO-14	Benzene	Vinyl Chloride	Trichloro Ethylene	Dichloro Ethylene	Methyl Chloride							TEMPERATURE ON RECEIPT C°
	Exs EFF	5/27/05	1555	air	1									X	X	X	X	X	X							
	Exs INF		1605		1																					
	Car EFF	5/27/05	1530		1																					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Scott Sikebots			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

9/19/03 Revision

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1230 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number

ConocoPhillips Cost Object

DATE: 5/27/05

PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. Wabash Ave CA 95501

SITE ADDRESS (Street and City): 1200 Railroad Ave Eureka CA 95501

CONOCOPHILLIPS SITE MANAGER:

PROJECT CONTACT (Hardcopy or PDF Report to): Mike Foget

EDF DELIVERABLE TO (RP or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: (707)441-8855 FAX: (707)441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 098179.304

REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECKBOX IF EDD IS NEEDED ☐

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPHd/MO	TEMPERATURE ON RECEIPT C*
	Ex EFF	5/27/05	1630	water	4		X							X	
	As EFF	↓	1635	↓	4		X							X	Please return cooler, Thank you

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Dustin Sillet			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

HAZARDOUS MATERIALS SITE OPERATIONS
DAILY RECORD
SHN CONSULTING ENGINEERS & GEOLOGISTS

JOB NAME: COP - Eureka **ACTIVITY:** Site Inspection **JOB #:** 098179.300

Company/Agency	Name	Operation/ Function	Signature	Time In	Time Out	Date	29CFR1910.120(e) 40hr Y/N	29CFR1910.120(e) 24hr Y/N
SHN	Chris Fisher	Engr	[signature]	1335		5 May 05	Y	
TRC	Mariano Gomez	"	[signature]	1335		5 May 05	Y	
TRC	Gary Gunderson	"	[signature]	1335		5 May 05	Y	
CONOCOPHILLIPS	THOMAS KOSEL	"	[signature]	1335		5 MAY 05	Y	
SHN	Mike Foyra	"	[signature]	1335		5 MAY 05	Y	

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DAILY FIELD REPORT

Job No. 098179.305
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 6/3/05	Day Of Week: Fri
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Cloudy	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0900 On site.
0908 Taking readings on the west Biovent system.
0920 Taking readings on the DPE system.
1020 Shut system off to clean airstripper.
1030 Taking readings on the East Biovent system.

Free product readings on MW-26 = 0.0 + MW-28 = 0.0
1120 Clean and loaded up.
1125 off site.

Copy given to:

Reported By: Dustin Tibbets

G:\FORMS\DAILY FIELD REPORT.doc

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 6/3/05 Time: 0908
Performed By: DCT Weather: Cloudy

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	100	0

BS-11 thru 18	Initial	Final
Valve Position (% open)	0	100

Trench #1	Initial	Final
Valve Position (% open)	0	10

Trench #2	Initial	Final
Valve Position (% open)	0	0

Manifold Readings	Initial	Final
Temperature (°F)	125°	150°
Pressure (psig)	5.75	8.25
Flow Rate (scfm)	52	42

Comments: Air fileter is 40% use up.

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 6/3/05 Time: 0920
Performed By: DCT Weather: Cloudy

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air	100	10	C					
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	20	C					
	FP								
EW-8	H_2O/Air	100	22	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	28	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 6/3/05 Time: 0920

Manifold

Manifold H_2O meter		gal	Manifold vacuum	21	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	11459.28	hr	LRP oil color	Dark Honey	
LRP oil filter	2	psi	LRP oil level	120 % full	
LRP vacuum	20	in-Hg	LRP temp	180°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	22,5305	counts
Discharge pressure	4	psi
Inlet vacuum	21.5	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1459	°F	Hour meter	11961.03	hours
Preheat temp (low)	1121	°F	OVA well field	16	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1466	°F	OVA post-burner	3	ppm
Exhaust temp (low)	1430	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	52 - 62	in-H_2O	Date Storage	58	% full
LEL		%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less than 1	psi	Supply tank level	78	%

Air Stripper

Vacuum	4	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 6/3/05 Time: 1030
Performed By: DCT Weather: Cloudy

Hour Meter: _____ hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11680	11680

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	119.4°	119.4°
Pressure (psig)	1.75	1.75

Comments: _____

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812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Daily Record

Project Name: CONOCO PHILLIPS - EUREKA	Client/Owner: CONOCO
General Location of Work: COP - EUREKA	Owner/Client Representative:
General Contractor: SYSTEM O & M AND MONITORING	Project Engineer: M. FOLS
Type of Work: SAMPLING (ASEFF & EXEFF)	Supervisor:
AM / PM	Weather:
	Technician: A. SPTOR
	Key Persons Contacted (Civil Engr., Architect, Developer, Etc.):

Daily Record Sequence No.:
Date: 6/9/05 Day of Week: THURS.

Time: Comments:

ARRIVE @ 10:10

- CHECK WESTERN BIOVENT SYSTEM. DO MONITORING
  - NOTE: 1 DOT ON HOUR METER BOX WILL NOT TURN ALL THE WAY DOWN.

10:45 => BACK TO SHN TO RETRIEVE THERMAL ANEMOMETER

11:00 => MANIFOLD READINGS

1110 => DPE MONITORING

1130 => CALIBRATED O.V.M.

1135 => OVA READINGS FROM WELL HEADS & POST BLOWER

1145 => EASTERN BIOVENT MONITORING

1150 => FP EXTRACTION (WELLS 1-12)
12 - DARK COLOR, FROTHY, 11 - DARK MEDIUM, 10 - CLEAR
9 - CLEAR, 8 => NO NOTABLE FP FLOW, 7 - DARK, HEAVY FP FLOW,
6 - NO NOTABLE FLOW, 5 - NO NOTABLE FP FLOW, 4 - MODERATE BROWNISH FLOW
3 - SMALL SIGNS OF BROWNISH FLOW, 2 - MODERATE, DARK FLOW
1 - HEAVY DARK FLOW

Copy Given To:

Reported By:

BUMPED #7 & #1 TWICE. [illegible] FP READINGS IN BOTH.

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Daily Record

Page 1 of

Project Name:	Client/Owner:	Daily Record Sequence No.	
General Location of Work:	Owner/Client Representative:	Date:	Day of Week:
General Contractor:		Project Engineer:	
Type of Work:		Supervisor:	
AM / PM	Weather:	Technician:	
	Key Persons Contacted (Civil Engr., Architect, Developer, Etc.):		

Time:	Comments:
1200	- ASPIRATE WATER FROM FP TANK TO 1/2 FULL.
	LEFT @ 1215.
1340	⇒ ASCEF SAMPLING FOR TPAg/BTEX/MTBE & TPHD & MO
1410	⇒ EXCEF SAMPLING FOR " " " " .
1430	⇒ DONE.

Copy Given To:

Reported By:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 6/9/05 Time: 1110

Manifold

Manifold H_2O meter		gal	Manifold vacuum	21.5	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	54	°F

Liquid Ring Pump (LRP)

LRP hr meter	11604.59	hr	LRP oil color	DARK HONEY	
LRP oil filter	2.2	psi	LRP oil level	Full	
LRP vacuum	19	in-Hg	LRP temp	180	°F
Throttle Valve		turns closed	Dilution air valve	Ø	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	229860	counts
Discharge pressure		psi
Inlet vacuum	23	in-Hg
Sediment Filter Δ P		in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1453	°F	Hour meter	12106.55	hours
Preheat temp (low)	1419	°F	OVA well field	15	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1461	°F	OVA post-burner	<1	ppm
Exhaust temp (low)	1429	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

* Flow	7-8 IN HG	in-H_2O	Date Storage	68	% full
LEL	50	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	9.5	in-H_2O
Secondary pressure	<1	psi	Supply tank level	30	%

Air Stripper

Vacuum	4	in-H_2O	OVA AS-Eff		ppm
Air Flow	/	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 6/9/05 Time: 1100
Performed By: AS Weather: cloudy

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air	100%	12						
	FP								
EW-2	H_2O/Air	—							
	FP								
EW-3	H_2O/Air	—							
	FP								
EW-4	H_2O/Air	—							
	FP								
EW-5	H_2O/Air	—							
	FP								
EW-6	H_2O/Air	—							
	FP								
EW-7	H_2O/Air	100%	20						
	FP								
EW-8	H_2O/Air	100%	25						
	FP								
EW-9	H_2O/Air	—							
	FP								
EW-10	H_2O/Air	100%	29						
	FP								
EW-11	H_2O/Air	—							
	FP								
EW-12	H_2O/Air	—							
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 6/9/05 Time: 1015
Performed By: AS Weather: PARTLY CLOUDY

Hour Meter: 069010.13 hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	0%	100%

BS-11 thru 18	Initial	Final
Valve Position (% open)	100%	0%

Trench #1	Initial	Final
Valve Position (% open)	50%	0%

Trench #2	Initial	Final
Valve Position (% open)	0%	0%

Manifold Readings	Initial	Final
Temperature (°F)	166	160
Pressure (psig)	6.5	6.75
Flow Rate (scfm)	47	50

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 6/9/05 Time: 1145
Performed By: AB Weather: overcast

Hour Meter: 45384 hours

Trench #1A	Initial	Final
Valve Position (% open)	0%	0%
Flow Rate (fpm)	—	—

Trench #1B	Initial	Final
Valve Position (% open)	100%	100%
Flow Rate (fpm)	12600	12600

Trench #2	Initial	Final
Valve Position (% open)	0%	—
Flow Rate (fpm)	—	—

Manifold Readings	Initial	Final
Temperature (°F)	125.9	125.9
Pressure (psig)	2	2

Comments:

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips Work Order Number:

ConocoPhillips Cost Object:

DATE: 6/9/05

PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. WABASH AVE, CA 95501

SITE ADDRESS (Street and City): 1200 RAILROAD AVE, EUREKA, CA 95501

PROJECT CONTACT (Hardcopy or PDF Report to): MIKE FOLGT

EDF DELIVERABLE TO (RP or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: (707)441-8855

FAX: 707-441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 098179.304

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg/BTEX/8 Oxygenates	8260B - TPHg/BTEX/8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M/8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPHd/LUFT												TEMPERATURE ON RECEIPT C°
	Ex EFF	6/9/05	1410	water	4		X							X												PLEASE RETURN
	As EFF	↓	1340	↓	4		X							X												COPY,
																										THANKS.

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SHN 2003 Revision

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DAILY FIELD REPORT

Job No. 098179.305
Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop- Eureka	Owner/Client Representative	Date: 6/24/05	Day Of Week: Fri.
General Contractor: Eureka CA	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O+M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

0948 On site, start system back up. Shut down due to high water level.
1008 Taking readings on the west Bioventt system.
1033 Taking reading on the East Bioventt system
1040 Taking reading on the DPE system
1105 Took Sumo Sample on Exs EFF — Exs EFF
1110 Took Sumo sample on Car EFF — Car EFF
1115 Took Sumo Sample on Exs INF — Exs INF
1159 Clean and loaded up.
1205 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 6/24/05 Time: 1008
Performed By: DST Weather: Over Cast

Hour Meter: _____ hours

BS-1 thru 10	Initial	Final
Valve Position (% open)	100	

BS-11 thru 18	Initial	Final
Valve Position (% open)		100

Trench #1	Initial	Final
Valve Position (% open)		10

Trench #2	Initial	Final
Valve Position (% open)		

Manifold Readings	Initial	Final
Temperature (°F)	180°	184°
Pressure (psig)	8	8.5
Flow Rate (scfm)	43	39

Comments: _____

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 6/24/05 Time: 1033
Performed By: DCT Weather: Over Cast

Hour Meter: 45742 5/10 hours

Trench #1A	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	11295	11295

Trench #2	Initial	Final
Valve Position (% open)		
Flow Rate (fpm)		

Manifold Readings	Initial	Final
Temperature (°F)	128.8°	128.8°
Pressure (psig)	2	2

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 6/24/05 Time: 1040
Performed By: DST Weather: Over Cast

Extraction Well	Extraction Line	Manifold Readings				Well Head Readings			
		Ball Valve Position (% open)	Line Vacuum (in Hg)	Flow Type (see notes)	OV Conc. (ppm)	Line Vacuum (in Hg)	Depth to Extraction Unit (ft)	Throttle Valve (turns open)	Bleed Valve (% open)
EW-1	H_2O/Air	100	9	C					
	FP								
EW-2	H_2O/Air								
	FP								
EW-3	H_2O/Air								
	FP								
EW-4	H_2O/Air								
	FP								
EW-5	H_2O/Air								
	FP								
EW-6	H_2O/Air								
	FP								
EW-7	H_2O/Air	100	18	C					
	FP								
EW-8	H_2O/Air	100	12	C					
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	28	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air								
	FP								

NOTES:
in-Hg = Inches of Mercury
in-Hg = 13.6 in-H_2O
1 ft^3 = 7.48 gallons
FP = Free Product
Flow Types: B = Bubble, S = Slug, C = Churn, R = Ripple, A = Annular

OVA Calibrated with _____
OVA Type _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 6/24/05 Time: 1040

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	22	in-Hg
Manifold H_2O flow rate	N/A	gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	11655.43	hr	LRP oil color	Dark Honey	
LRP oil filter	2	psi	LRP oil level	105 %	
LRP vacuum	21	in-Hg	LRP temp	176°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	231431	counts
Discharge pressure	2	psi
Inlet vacuum	14	in-Hg
Sediment Filter Δ P	N/A	in-H_2O

Free Product Tank

	Initial	Final	
Depth to FP (ft)			
Depth to H_2O (ft)			
Main valve (4")	4		turns open

Vapor Destruction Unit

Preheat temp (high)	1444	°F	Hour meter	12157	hours
Preheat temp (low)	1415	°F	OVA well field	3?	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1452	°F	OVA post-burner	3	ppm
Exhaust temp (low)	1425	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	6.5 - 7.5	in-H_2O	Date Storage	76	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	9.5	in-H_2O
Secondary pressure	~~[illegible]~~ >1	psi	Supply tank level	75	%

Air Stripper

Vacuum	4	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff	0	ppm

Comments:

ConocoPhillips Chain of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Olivia Perez
1230 W. Washington, Suite 212
Tempe, AZ 85281

ConocoPhillips Work Order Number:

ConocoPhillips Cost Object:

DATE: 6/24/05

PAGE: 1 of 1

SAMPLING COMPANY: SHN

Valid Value ID:

CONOCOPHILLIPS SITE NUMBER: 0201

GLOBAL ID NO.:

ADDRESS: 812 W. Wabash Ave, Eureka CA 95501

SITE ADDRESS (Street and City): 1200 Railroad Ave Eureka CA 95501

CONOCOPHILLIPS SITE MANAGER:

PROJECT CONTACT (Hardcopy or EDF Report to): Mike Fogt

EDF DELIVERABLE TO (RP or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

TELEPHONE: (707)441-8855 FAX: (707)441-8877

E-MAIL:

SAMPLER NAME(S) (Print):

CONSULTANT PROJECT NUMBER: 098179.304

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☐

RECUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TO-14	Benzene	Vinyl Chloride	Trichloro Ethylene	Dichloro Ethylene	Methyl Chloride							TEMPERATURE ON RECEIPT C°
	Exs EFF	6/24/05	1105	air	1									X	X	X	X	X	X							
	Exs INF	↓	1115	↓	1									↓	↓	↓	↓	↓	↓							
	Car EFF	↓	1110	↓	1									↓	↓	↓	↓	↓	↓							

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Jaste Billet			
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

9/19/03 Revision