COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 9/16/05 Time: 1541
Performed By: DCT Weather: Rain

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)		

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

Manifold Readings	Initial	Final
Temperature (^{o}F)		
Pressure (psig)	1.5	1.5

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 9/16/05 Time: 1411
Performed By: Dustin Tibbets 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	100	17	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	12	C					
	FP								
EW-8	H_2O/Air								
	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	100	29	C					
	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: 9/16/05 Time: 1411

Manifold

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

Liquid Ring Pump (LRP)

LRP hr meter	13461.35	hr	LRP oil color	Dark Honey	
LRP oil filter	3.5	psi	LRP oil level	60% full	
LRP vacuum	22	in-Hg	LRP temp	188	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	274324	counts
Discharge pressure	5	psi
Inlet vacuum	20	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)	1458	°F	Hour meter	13962.74	hours
Preheat temp (low)	1421	°F	OVA well field	20	ppm
Preheat SP temp	1425	°F	OVA pre-burner	.	ppm
Exhaust temp (high)	1467	°F	OVA post-burner	11	ppm
Exhaust temp (low)	1430	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	40-60	in-H_2O	Date Storage	99	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	>1	psi	Supply tank level	77	%

Air Stripper

Vacuum	6.5	in-H_2O	OVA AS-Eff		ppm
Air Flow	N/A	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff	1	ppm

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 9/16/05 Time: 1400
Performed By: Dustin Tibbets Weather: Rain

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)	160°	170° and going up.
Pressure (psig)	6.5	8.5
Flow Rate (scfm)	50	33

Comments:

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

ConocoPhillips Chain Of Custody Record

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: 9/16/05

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

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

E-MAIL:

EDF DELIVERABLE TO (RP or Designee):

PHONE NO.:

E-MAIL:

LAB USE ONLY

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

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 oyxgenates + 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	9/16/05	1515	water	4		X							X	
	As EFF	↓	1525	↓	4		X							X	

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

Please return cooler, Thank you

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

9/19/03 Revision

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

ConocoPhillips Chain Of Custody Record

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: 9/16/05

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 oyxgenates + 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	Trichlor Ethylene	Dichlor Ethylene	Methyl Chloride	TEMPERATURE ON RECEIPT C°
	Exs EFF	9/16/05	1430	air	1									X	X	X	X	X	X	
	Exs INF	↓	1505	↓	1									↓	↓	↓	↓	↓	↓	
	Car EFF	↓	1450	↓	1															

Relinquished by: (Signature) Dustin Sikkotz — Received by: (Signature) — Date: — Time:

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

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

9/19/03 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: 9/23/05	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: Sun	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

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

1008 On site.
1011 Taking reading from the West biovent system.
1018 Taking reading from the DPE system.
1135 Taking reading from the East biovent system.
1140 Shut DPE system off to fill oil and replace LRP vacuum gage.
1200 started system back up, clean and loaded up.
1215 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 9/23/05 Time: 1011
Performed By: Dustin Weather: Sun

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)	170°	160° and going down
Pressure (psig)	6.75	1.25
Flow Rate (scfm)	47	70

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 9/23/05 Time: 1018

Performed By: DCT Weather: Sun

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	17	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	12	C					
	FP								
EW-8	H_2O/Air								
	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	100	29	C					
	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: 9/23/05 Time: 1018

Manifold

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

Liquid Ring Pump (LRP)

LRP hr meter	13624.98	hr	LRP oil color	Dark Honey	
LRP oil filter	4.5	psi	LRP oil level	-10%	
LRP vacuum	20	in-Hg	LRP temp	188	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	276568	counts
Discharge pressure	6	psi
Inlet vacuum	20.5	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)	1459	°F	Hour meter	14126.31	hours
Preheat temp (low)	1421	°F	OVA well field	59	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1467	°F	OVA post-burner	1	ppm
Exhaust temp (low)	1430	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	(Burner) or Catalytic	

Chart Recorder

Flow	50-60	in-H_2O	Date Storage	99	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	>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		ppm

Comments: LRP gave into the Red at 5 psi.

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 9/23/05 Time: 1135
Performed By: DCJ Weather: Sun

Hour Meter: 47927 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)		

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

Manifold Readings	Initial	Final
Temperature (°F)		
Pressure (psig)	1.5	1.5

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: 9/29/05 — 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: Sun	Technician: Dustin Tibbets
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

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

1330 On site. System shut down. Hr. at shut down = 14272.38
1335 started system back up.
1345 Removing free product out of All EW wells.
1355 loaded up.
1400 Off site.

Copy given to:

Reported By: Dustin Tibbets

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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: 9/30/05	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

0841 On site.
0849 Taking reading from the DPE system.
0922 Taking reading from the West Biovent systems.
0930 Taking reading from the East Biovent system.
0937 Removing free product from all EW-wells
0946 Shut system off to clean Air stripper
1047 Started system back up.
1055 Clean and backed up.
1100 Off site.

Copy given to:

Reported By: Dustin Tibbets

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COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 9/30/05 Time: 0849
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	100	17	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	11	C					
	FP								
EW-8	H_2O/Air								
	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	100	25	C					
	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: 9/30/05 Time: 0849

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	17.5	in-Hg
Manifold H_2O flow rate	N/A	gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	13790.32	hr	LRP oil color	Dark Honey	
LRP oil filter	5	psi	LRP oil level	8.35 %	
LRP vacuum	17.75	in-Hg	LRP temp	179°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	278914	counts
Discharge pressure	5	psi
Inlet vacuum	19	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)	1448	°F	Hour meter	14291.68	hours
Preheat temp (low)	1417	°F	OVA well field	39	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1456	°F	OVA post-burner	1	ppm
Exhaust temp (low)	1427	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	75-85	in-H_2O	Date Storage	12	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	>1	psi	Supply tank level	65	%

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: 9/30/05 Time: 0922
Performed By: DCT Weather: Over Cast

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)	0	100

Manifold Readings	Initial	Final
Temperature (°F)	98°	96°
Pressure (psig)	1.25	.65
Flow Rate (scfm)	72	75

Comments: Replaced Air filter.

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 9/30/05 Time: 0930
Performed By: DCT Weather: Over Cast

Hour Meter: 48093 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)		

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

Manifold Readings	Initial	Final
Temperature (°F)		
Pressure (psig)	1.5	1.5

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 6th Oct '05 Time: 9:30
Performed By: C. Fisher 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	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	8?						
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	28						
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air	100	26						
	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: 6th Oct '05 Time: _____

Manifold

Manifold H_2O meter	NA	gal	Manifold vacuum	19	in-Hg
Manifold H_2O flow rate	NA	gpm	Manifold temp	53	°F

Liquid Ring Pump (LRP)

LRP hr meter	13,904	hr	LRP oil color	Clear tan	
LRP oil filter	4.5	psi	LRP oil level	20%	
LRP vacuum	18.5	in-Hg	LRP temp	178	°F
Throttle Valve	0	turns closed	Dilution air valve	0	turns open
Recirculation valve	0	turns open			

Water Knock-out Pot

H_2O Discharge Counter	280,483	counts
Discharge pressure	5½	psi
Inlet vacuum	18	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")	2 turns open	

Vapor Destruction Unit

Preheat temp (high)	1443	°F	Hour meter	14,405	hours
Preheat temp (low)	1406	°F	OVA well field		ppm
Preheat SP temp	1475	°F	OVA pre-burner		ppm
Exhaust temp (high)	1451	°F	OVA post-burner		ppm
Exhaust temp (low)	1417	°F	Blower Valve	50	% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	7	in-H_2O	Date Storage	21	% full
LEL	70 ?	%			

Propane Supply

Primary pressure	6½	psi	Operating pressure	8	in-H_2O
Secondary pressure	<1	psi	Supply tank level		%

Air Stripper

Vacuum	2½	in-H_2O	OVA AS-Eff		ppm
Air Flow	NA	in-H_2O	OVA Carbon-Mid		ppm
			OVA Carbon-Eff		ppm

Comments: Changing out oil Separator Filter on LRP
LRP Oil Filter Pressure after filter change out = 0 psi

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 6th Oct '05 Time: 10:00
Performed By: C. Fisher Weather: Partly Cloudy

Hour Meter: 48,238 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)		

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

Manifold Readings	Initial	Final
Temperature (°F)	N/A	N/A
Pressure (psig)	1.5	1.5

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 6th Oct '05 Time: 10:15
Performed By: C. Fisher Weather: Sunny

Hour Meter: Not Available 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)	0	100

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

Manifold Readings	Initial	Final
Temperature (°F)	89	~~7~~ 92
Pressure (psig)	1/2	1 1/4
Flow Rate (scfm)	75	70

Comments:

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

JOB NAME		ACTIVITY				JOB #		
COP Eureka		Change out oil seperator filter LRP				098179.305		
Company/ Agency	Name	Operation/ Function	Signature	Time In	Time Out	Date	29CFR1910.120(e) 40hr Y/N	24hr Y/N
SHN	C. Fahlen	Site Engr	[signature]	9:30	12:00	6th Oct 05		
SHN	E. WARD	TECH	[signature]	9:30	12:00	10-6-05		

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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: 10/12/05 — Day Of Week: Wed
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

1055 On site.
1100 Removing free Product from all EW. Wells.
1122 loaded up.
1138 off site.

Copy given to:

Reported By: Dustin Tibbets

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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: 10/14/05 — 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: Sun	Technician: Dustin Tibbets
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

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

0930 On site.
0933 Taking readings from the West biovent systems.
0942 Taking readings from the DPE systems.
1000 ~~Snap~~ Took sumo sample on Exs-EFF
1010 Took sumo sample on Cor-EFF
1020 Took sumo sample on Exs-INF
1030 Took sample from Ex-EFF water
1045 Took water sample from As-EFF
1102 Taking readings from the East biovent system.
1112 Clean and loaded up.
1120 Off site.

Exs-EFF
Cor-EFF
Exs-INF
Ex-EFF
As-EFF

Copy given to:

Reported By: Dustin Tibbets

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COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 10/14/05 Time: 0942
Performed By: DCT Weather: Sun

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	17	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	12	C					
	FP								
EW-8	H_2O/Air								
	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	100	28	C					
	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: 10/14/05 Time: 0992

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	20	in-Hg
Manifold H_2O flow rate	N/A	gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	14094.99	hr	LRP oil color	Honey	
LRP oil filter	.5	psi	LRP oil level	130 %	
LRP vacuum	19.5	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	283222	counts
Discharge pressure	5	psi
Inlet vacuum	19.5	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)	1460	°F	Hour meter	14596.19	hours
Preheat temp (low)	1422	°F	OVA well field	39	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1468	°F	OVA post-burner	9	ppm
Exhaust temp (low)	1432	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	55-68	in-H_2O	Date Storage	35	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	less then 1	psi	Supply tank level	18	%

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	0	ppm

Comments:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 10/14/05 Time: 0933
Performed By: DCT Weather: Sun

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)	0	100

Manifold Readings	Initial	Final
Temperature (°F)	95°	95°
Pressure (psig)	1.25	.75
Flow Rate (scfm)	72	75

Comments: _____

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 10/14/05 Time: 1102
Performed By: DCT Weather: Sun

Hour Meter: 48431 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)	12285	12285

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

Manifold Readings	Initial	Final
Temperature (°F)	•	•
Pressure (psig)	1.5	1.5

Comments:

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

ConocoPhillips Chain Of Custody Record

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:

PAGE: _____ of _____

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

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

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 oyxgenates + 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	11/14/05	1030	water	4		X							X												
	As EFF	↓	1045	↓	4		X							X												

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

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:

9/19/03 Revision

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

ConocoPhillips Chain Of Custody Record

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: 10/14/05

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 ☐

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

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	Trichlor Ethylene	Dichlor Ethylene	Methyl Chloride							FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT C°
	Exs EFF	10/14/05	1000	air	1									X	X	X	X	X	X								
	Exs INF	↓	1020	↓	1									↓	↓	↓	↓	↓	↓								
	Car EFF		1010		1																						

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

9/19/03 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: 10/20/05 — Day Of Week: Thru.
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

1428 On site.
1431 Taking readings on the West biovent systems.
1449 Taking readings from the DPE systems.
1535 Taking readings from the East Biovent system.
1542 Clean and loaded up.
1548 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 10/20/05 Time: 1431
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)	90°	95° and going up.
Pressure (psig)	.5	5.5
Flow Rate (scfm)	75	54

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 10/20/05 Time: 1449
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	100	17.5	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	11	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	30	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air	100	30	C					
	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: 10/20/05 Time: 1449

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	22.5	in-Hg
Manifold H_2O flow rate	N/A	gpm	Manifold temp	~~184~~ 56°	°F

Liquid Ring Pump (LRP)

LRP hr meter	14244.13	hr	LRP oil color	Honey	
LRP oil filter	.5	psi	LRP oil level	200 %	
LRP vacuum	21.5	in-Hg	LRP temp	184°	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	285454	counts
Discharge pressure	5	psi
Inlet vacuum	21	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)	1458	°F	Hour meter	14745.32	hours
Preheat temp (low)	1423	°F	OVA well field	67	ppm
Preheat SP temp	1425	°F	OVA pre-burner	[illegible]	ppm
Exhaust temp (high)	1467	°F	OVA post-burner	0	ppm
Exhaust temp (low)	1432	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	N/A ?	in-H_2O	Date Storage	45	% 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	88	%

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: 10/20/05 Time: 1535
Performed By: DCT Weather: Over Cast T

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)	13390	13390

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

Manifold Readings	Initial	Final
Temperature (°F)	117.3°	117.3°
Pressure (psig)	1.5	1.5

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: 10/28/05	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.
0930 Taking readings on the Westbiovent system.
0940 Taking readings on the DPE system.
1023 Taking reading from the Eastbiovent system.
1031 Clean and loaded up.
1040 Off site.

Copy given to:

Reported By: Dustin Tibbets

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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	Day Of Week
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

	Copy given to:	Reported By:

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 10/28/05 Time: 0930
Performed By: DCT Weather: Rain

Hour Meter:_____hours

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

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)	140°	155° and going up.
Pressure (psig)	6	8.75
Flow Rate (scfm)	52	38

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 10/28/05 Time: 0940
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	100	17.5	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	12	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	30	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air	100	27	C					
	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: 10/27/05 Time: 1023

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	19	in-Hg
Manifold H_2O flow rate	N/A	gpm	Manifold temp	58	°F

Liquid Ring Pump (LRP)

LRP hr meter	14430.97	hr	LRP oil color	Honey	
LRP oil filter	1	psi	LRP oil level	205 %	
LRP vacuum	17.5	in-Hg	LRP temp	185	°F
Throttle Valve		turns closed	Dilution air valve		turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	288469	counts
Discharge pressure	5	psi
Inlet vacuum	19.5	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)	1461	°F	Hour meter	14932.18	hours
Preheat temp (low)	1423	°F	OVA well field		ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1470	°F	OVA post-burner		ppm
Exhaust temp (low)	1432	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	20-40	in-H_2O	Date Storage	58	% full
LEL	N/A	%			

Propane Supply

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

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: 10/28/05 Time: 1023
Performed By: DCT Weather: Rain

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)	12530	12530

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

Manifold Readings	Initial	Final
Temperature (°F)	118.2°	118.2°
Pressure (psig)	1.5	1.5

Comments: _____

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DAILY FIELD REPORT

Job No. 098179.305

Page of

Daily Field Report Sequence No

Project Name	Client/Owner: Conocophillips		
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 11/4/05	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: Cloudy / Rain	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

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

0905 On site.
0910 Taking reading from the West Bioventt system.
0919 DPE system not running, Cleaning Airstripper.
0949 Started system back up.
1013 Taking readings from the DPE systems.
1047 Taking reading from the East Bioventt system.
1056 Clean and locked up.
1058 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 11/4/05 Time: 0910
Performed By: DCT Weather: Cloudy/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)	168°	150° and dropping
Pressure (psig)	6.75	1.5
Flow Rate (scfm)	47	70

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 11/4/05 Time: 1013
Performed By: DCT Weather: Cloudy / 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	100	17	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	11	C					
	FP								
EW-8	H_2O/Air								
	FP								
EW-9	H_2O/Air								
	FP								
EW-10	H_2O/Air	100	25.5	C					
	FP								
EW-11	H_2O/Air								
	FP								
EW-12	H_2O/Air	100	27	C					
	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: 11/4/05 Time: 1013

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	18.5	in-Hg
Manifold H_2O flow rate	N/A	gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	14581.40	hr	LRP oil color	Honey	
LRP oil filter	1	psi	LRP oil level	200%	
LRP vacuum	18	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	290779	counts
Discharge pressure	5	psi
Inlet vacuum	5 ?	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)	1448	°F	Hour meter	15082.55	hours
Preheat temp (low)	1427	°F	OVA well field	450	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1458	°F	OVA post-burner	0	ppm
Exhaust temp (low)	1436	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	20-30	in-H_2O	Date Storage	69	% 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	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:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 11/4/05 Time: 1047
Performed By: DCT Weather: Cloudy / Rain

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)	12605	12605

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

Manifold Readings	Initial	Final
Temperature (°F)	115.8°	115.8°
Pressure (psig)	1.5	1.5

Comments: _____

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DAILY FIELD REPORT

Job No. 098179.305

Page of

Daily Field Report Sequence No

Project Name	
Client/Owner	Conocophillips
General Location Of Work	Cop: Eureka
Owner/Client Representative	
Date	11/7/05
Day Of Week	Mon
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

1100 On site. Taking apart discharge line and pump, Cleaning it all out.
1200 Off site.
1300 Back on site.
1530 started system back up.
1630 off site.

Copy given to:

Reported By: Dustin Tibbets

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DAILY FIELD REPORT

Job No. 098179.305

Page of

Daily Field Report Sequence No

Project Name	
Client/Owner	Conocophillips
General Location Of Work	Cop. Eureka
Owner/Client Representative	
Date	11/11/05
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	Rain
Technician	Dustin Tibbets
Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

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

0915 On site.
0923 Taking readings from the West Bioventt system.
0944 Taking readings from the SPE system.
1005 Took sumo sample on Exs-EFF — Exs-EFF
1015 Took sumo sample on Car-EFF — Car-EFF
1020 Took sumo sample on Exs-INF — Exs-INF
1040 Sampled Ex-EFF — Ex-EFF
1112 Taking readings on the East bioventt system.
1118 Clean and loaded up.
1125 Off site.

1050 Sampled Airstripper — AS-EFF

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 11/11/05 Time: 0923
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)	0	100

Manifold Readings	Initial	Final
Temperature (°F)	96°	94°
Pressure (psig)	1.5	.75
Flow Rate (scfm)	72	74

Comments: _____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 11/11/05 Time: 0944
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	100	17	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	11	C					
	FP								
EW-8	H_2O/Air								
	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	100	29	C					
	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: 11/11/05 Time: 0944

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	20	in-Hg
Manifold H_2O flow rate	N/A	gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	14724.23	hr	LRP oil color	Heavy	
LRP oil filter	.75	psi	LRP oil level	75 %	
LRP vacuum	20.5	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	293256	counts
Discharge pressure	6	psi
Inlet vacuum	19.5	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)	1460	°F	Hour meter		hours
Preheat temp (low)	1424	°F	OVA well field	128	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1466	°F	OVA post-burner	0	ppm
Exhaust temp (low)	1430	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	?	in-H_2O	Date Storage	81	% 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	83	%

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	0	ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 11/11/05 Time: 1112
Performed By: DJ Weather: Rain

Hour Meter: 49104 4/10 hours

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

Trench #1B	Initial	Final
Valve Position (% open)	100	100
Flow Rate (fpm)	12210	12210

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

Manifold Readings	Initial	Final
Temperature (°F)	137.4°	137.4°
Pressure (psig)	2.25	2.25

Comments:

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

ConocoPhillips Chain Of Custody Record

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: 11/4/05

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 ☐

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

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 oyxgenates + 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	Trichlorethylene	Dichloroethylene	Methyl Chloride							FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	Exs EFF	11/1/05	1005	air	1									X	X	X	X	X	X							
	Exs INF	↓	1020	↓	1									↓	↓	↓	↓	↓	↓							
	Car EFF	↓	1015	↓	1																					

TEMPERATURE ON RECEIPT C°

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

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: 11/11/05

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: 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 ☐

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

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 oyxgenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPHD/MO
	Ex EFF	11/11/05	1040	water	4		X							X
	As EFF	↓	1050	↓	4		X							X

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

TEMPERATURE ON RECEIPT C°

Please return cooler, Thank you

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]			
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

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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: 11/15/05 — Day Of Week: Tue
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

1038 On site. Removing free product from all EW wells.
1114 setting up and doing pump test
Pump test did about 18-20 gpm.
1132 Clean and loaded up.
1135 Off site.

Copy given to:

Reported By: Dustin Tibbets

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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: 11/18/05	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: Clear	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

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

0858 On site.
0910 Taking readings from the Westbiovent system.
0926 Taking readings from the DPE system.
1002 Taking reading from the Eastbiovent system.
1010 Clean and loaded up.
1015 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 11/18/05 Time: 0910
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)	88°	90° and going up
Pressure (psig)	.65	6.25
Flow Rate (scfm)	75	52

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 11/18/05 Time: 0920

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	100	18	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	11	C					
	FP								
EW-8	H_2O/Air								
	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	100	22	C					
	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: 11/18/05 Time: 0920

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	19	in-Hg
Manifold H_2O flow rate		gpm	Manifold temp	58	°F

Liquid Ring Pump (LRP)

LRP hr meter	14892.31	hr	LRP oil color	Dark Honey	
LRP oil filter	1	psi	LRP oil level	73% full	
LRP vacuum	19.5	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	296723	counts
Discharge pressure	7	psi
Inlet vacuum	19.5	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)	1460	°F	Hour meter	15393.33	hours
Preheat temp (low)	1421	°F	OVA well field	32	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1465	°F	OVA post-burner	0	ppm
Exhaust temp (low)	1427	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	45-65	in-H_2O	Date Storage	92	% 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	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		ppm

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 11/18/05 Time: 1002
Performed By: ACT 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)	12340	12340

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

Manifold Readings	Initial	Final
Temperature (°F)	141.2°	141.2°
Pressure (psig)	2.5	2.5

Comments: Replaced airfilter.

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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: 11/23/05	Day Of Week: Wed
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

1302 On site.
1305 Taking reading on the West bioventt system.
1318 Turned East bioventt system off.
1320 Taking readings from the DPE system.
1355 Clean and loaded up.
1405 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 11/23/05 Time: 1305
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)		

Trench #2	Initial	Final
Valve Position (% open)		

Manifold Readings	Initial	Final
Temperature (°F)	155°	165° and going up
Pressure (psig)	6.75	8.75
Flow Rate (scfm)	49	40

Comments:

COP - Eureka
Eastern Biovent/Biosparge System Monitoring Sheet
098179.304

Date:_____ Time:_____
Performed By:_____ Weather:_____

Hour Meter:_____hours

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

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

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

Manifold Readings	Initial	Final
Temperature (^{o}F)		
Pressure (psig)		

Comments:_____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 11/23/05 Time: 1320
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	100	16	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	11	C					
	FP								
EW-8	H_2O/Air								
	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	100	27	C					
	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: 11/23/05 Time: 1320

Manifold

Manifold H_2O meter	N/A	gal	Manifold vacuum	19	in-Hg
Manifold H_2O flow rate	N/A	gpm	Manifold temp	58°	°F

Liquid Ring Pump (LRP)

LRP hr meter	14991.09	hr	LRP oil color	Dark Honey	
LRP oil filter	1	psi	LRP oil level	68 %	
LRP vacuum	19.5	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	298582	counts
Discharge pressure	6	psi
Inlet vacuum	19	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)	1463	°F	Hour meter	15492.07	hours
Preheat temp (low)	1421 ~~1425~~	°F	OVA well field		ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1468	°F	OVA post-burner		ppm
Exhaust temp (low)	1427	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	30-60	in-H_2O	Date Storage	99	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	* <1	psi	Supply tank level	41	%

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:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 2nd Dec '05 Time: 1400
Performed By: C. Fisher Weather: Sunny / Rainy / hail

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		C					50
	FP	0							
EW-2	H_2O/Air	0							0
	FP	0							
EW-3	H_2O/Air	0							0
	FP	0							
EW-4	H_2O/Air	0							0
	FP	0							
EW-5	H_2O/Air	0							0
	FP	0							
EW-6	H_2O/Air	0							0
	FP	0							
EW-7	H_2O/Air	100		C					50
	FP	0							
EW-8	H_2O/Air	100		C					50
	FP	0							
EW-9	H_2O/Air	100		C					50
	FP	0							
EW-10	H_2O/Air	100		C					50
	FP	0							
EW-11	H_2O/Air	100		C					50
	FP	0							
EW-12	H_2O/Air	100		C					50
	FP	0							

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: 2nd Dec '05 Time: 1400

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	15,181	hr	LRP oil color	dark tan	
LRP oil filter	1	psi	LRP oil level	25% low	
LRP vacuum	20.5	in-Hg	LRP temp	177	°F
Throttle Valve	0	turns closed	Dilution air valve	0	turns open
Recirculation valve	1/4	turns open			

Water Knock-out Pot

H_2O Discharge Counter	302,309	counts
Discharge pressure	6	psi
Inlet vacuum	21	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)	1468	°F	Hour meter	15,682	hours
Preheat temp (low)	1421	°F	OVA well field		ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1475	°F	OVA post-burner		ppm
Exhaust temp (low)	1430	°F	Blower Valve	50	% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	~	in-H_2O	Date Storage	0	% full
LEL	~	%	Replaced disk		

Propane Supply

Primary pressure	6 1/2	psi	Operating pressure	8	in-H_2O
Secondary pressure	1	psi	Supply tank level	80	%

Air Stripper

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

Comments: Western Biovent System – Trench #1 = 10%, BS-11 thru 18 = 100%
Temp = 160°F, Pres = 6 psi, Flow = 95 scfm

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DAILY FIELD REPORT

Job No. 098179.305

Page of

Daily Field Report Sequence No

Project Name	
Client/Owner	Conocophillips
General Location Of Work	Cop: Eureka
Owner/Client Representative	
Date	12/9/05
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	

1013 On site.
1018 Taking readings from the DPE system and removing free product.
1239 Taking readings from the west bioventt system.
1245 Off site.

Copy given to:

Reported By: Dustin Tibbets

G:\FORMS\DAILY FIELD REPORT.doc

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 12/9/05 Time: 1018

Performed By: Dustin Tibbets 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	100	15	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	12	C					
	FP								
EW-8	H_2O/Air	100	25	C					
	FP								
EW-9	H_2O/Air	100	21	C					
	FP								
EW-10	H_2O/Air	100	30	C					
	FP								
EW-11	H_2O/Air	100	23	C					
	FP								
EW-12	H_2O/Air	100	30	C					
	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: 12/9/05 Time: 1018

Manifold

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

Liquid Ring Pump (LRP)

LRP hr meter	15281.70	hr	LRP oil color	Dark Honey	
LRP oil filter	1	psi	LRP oil level	50	
LRP vacuum	21.5	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	302880	counts
Discharge pressure	6	psi
Inlet vacuum	21	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)	1457	°F	Hour meter	15782.62	hours
Preheat temp (low)	1412	°F	OVA well field	68	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1465	°F	OVA post-burner	0	ppm
Exhaust temp (low)	1423	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	35 - 55	in-H_2O	Date Storage	11	% full
LEL	N/A	%			

Propane Supply

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

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
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date: 12/9/05 Time: 1239
Performed By: DCT Weather: Partly Cloudy

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)	1.	

Manifold Readings	Initial	Final
Temperature (°F)	170°	150 and dropping
Pressure (psig)	7.25	1.5
Flow Rate (scfm)	44	69

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: 12/13/05 — Day Of Week: Tue.
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: Sun	Technician: Dustin Tibbets
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

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

0952 On site.
0955 Removing free product from EW-Wells.
1005 Taking Velocity and temp readings from the DVE system
Velocity = 900 fpm Temp = 123.7 °F
1025 Off site.

Copy given to:

Reported By: Dustin Tibbets

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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: 12/16/05 — 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: Sun	Technician: Dustin Tibbets
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

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

1520 ~~1330~~ On site
525 ~~1335~~ Taking readings from the DPE system.
1540 Sampled EFF on DPE system. EFF
1550 Sampled Air stripper EFF. AS. EFF
1600 removed free product out of EW wells.
1610 Off site

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
Western Biovent/Biosparge System Monitoring Sheet
098179.304

Date:_____ Time:_____
Performed By:_____ Weather:_____

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)		

Trench #2	Initial	Final
Valve Position (% open)		

Manifold Readings	Initial	Final
Temperature (^{o}F)		
Pressure (psig)		
Flow Rate (scfm)		

Comments:_____

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 12/16/05 Time: 1335
Performed By: DCT Weather: Sun

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	15	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	12	C					
	FP								
EW-8	H_2O/Air	100	20	C					
	FP								
EW-9	H_2O/Air	100	16	C					
	FP								
EW-10	H_2O/Air	100	30	C					
	FP								
EW-11	H_2O/Air	100	25	C					
	FP								
EW-12	H_2O/Air	100	30	C					
	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: 12/16/05 Time: ~~1335~~ 1525

Manifold

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

Liquid Ring Pump (LRP)

LRP hr meter	15439.02	hr	LRP oil color	Dark Honey	
LRP oil filter	.25	psi	LRP oil level	48%	
LRP vacuum	21.25	in-Hg	LRP temp	124	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	304225	counts
Discharge pressure	6	psi
Inlet vacuum	16	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)	1465	°F	Hour meter	15939.91	hours
Preheat temp (low)	1418	°F	OVA well field		ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1470	°F	OVA post-burner		ppm
Exhaust temp (low)	1424	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	(Burner) or Catalytic	

Chart Recorder

Flow	?	in-H_2O	Date Storage	23	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	~~6.5~~ 10	in-H_2O
Secondary pressure	<1	psi	Supply tank level	85	%

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:

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Chris Fisher
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Eureka, CA 95501
Phone: 441-8855
Copies of Report to:

Sampler (Sign & Print):

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☐ Verbal ☐ By:__/__/__
Final Report: FAX ☐ Verbal ☐ By:__/__/__

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 098179.305
Project Name: COP - Eureka
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	EFF	12/16/05	1540		b	9	8260 list 4	
	As. EFF	↓	1550			14	TPHd/MO	

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
Dustin Willett			

SAMPLE DISPOSAL
☐ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

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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: 12/19/05 — Day Of Week: Mon.
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

0940 On site.
0950 Took Suma sample on EFF — Exs. EFF
1000 Took Suma sample on INF — Exs. INF
1005 Took Suma sample on Car EFF — Car. EFF
1008 Remove free product on all EW. Wells.
1020 Off site.

Copy given to:

Reported By: Dustin Tibbets

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: 12/19/05

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 ☐

* 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	Trichlor Ethylene	Dichlor Ethylene	Methyl Chloride							TEMPERATURE ON RECEIPT C°
	Exs EFF	12/19/05	0950	air	1									X	X	X	X	X	X							
	Exs INF	↓	1000	↓	1									↓	↓	↓	↓	↓	↓							
	Car EFF	↓	1005	↓	1									↓	↓	↓	↓	↓	↓							

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

9/19/03 Revision

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. 098179.305

Page of

Project Name	Client/Owner: Conocophillips	Daily Field Report Sequence No	
General Location Of Work: Cop. Eureka	Owner/Client Representative	Date: 12/23/05	Day Of Week: Fr.
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

0956 On site.
1005 Taking readings on the west Bioventt system.
1021 Taking readings on the DPE system
1103 Shut system off to clean airstripper.
1125 Started system back up.
1130 loaded up
1135 Off site.

Copy given to:

Reported By: Dustin Tibbets

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 12/23/05 Time: 1021
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	15	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	12	C					
	FP								
EW-8	H_2O/Air	100	27	C					
	FP								
EW-9	H_2O/Air	100	23	C					
	FP								
EW-10	H_2O/Air	100	30	C					
	FP								
EW-11	H_2O/Air	100	26	C					
	FP								
EW-12	H_2O/Air	100	30	C					
	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: 12/23/05 Time: 1005
Performed By: DCT Weather: Cloudy

Hour Meter: 9171.93 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)	0	100

Manifold Readings	Initial	Final
Temperature (°F)	100°	100°
Pressure (psig)	1.75	2
Flow Rate (scfm)	67	65

Comments:

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 12/23/05 Time: 1023

Manifold

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

Liquid Ring Pump (LRP)

LRP hr meter	15599.49	hr	LRP oil color	Dark Honey	
LRP oil filter	1	psi	LRP oil level	35 % full	
LRP vacuum	21	in-Hg	LRP temp	179	°F
Throttle Valve		turns closed	Dilution air valve	0	turns open
Recirculation valve		turns open			

Water Knock-out Pot

H_2O Discharge Counter	306503	counts
Discharge pressure	6	psi
Inlet vacuum	22	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)	1461	°F	Hour meter	16100.36	hours
Preheat temp (low)	1419	°F	OVA well field	63	ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1467	°F	OVA post-burner	0	ppm
Exhaust temp (low)	1426	°F	Blower Valve		% open
Exhaust temp SP	1550	°F	Mode	Burner or Catalytic	

Chart Recorder

Flow	15-35	in-H_2O	Date Storage	34	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	<1	psi	Supply tank level	82	%

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:

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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: 12/29/05 — 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

1415 On site
1420 Taking readings on the DPE system, and removing free product in EW wells.
1533 off site

Copy given to:

Reported By: Dustin Tibbets

G:\FORMS\DAILY FIELD REPORT.doc

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 12/29/05 Time: 1420

Manifold

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

Liquid Ring Pump (LRP)

LRP hr meter	15747.30	hr	LRP oil color	Dark Honey	
LRP oil filter	<1	psi	LRP oil level	25% full	
LRP vacuum	21.5	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	308606	counts
Discharge pressure	6	psi
Inlet vacuum	22	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)	1457	°F	Hour meter	16248.08	hours
Preheat temp (low)	1424	°F	OVA well field		ppm
Preheat SP temp	1425	°F	OVA pre-burner		ppm
Exhaust temp (high)	1463	°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	15.25	in-H_2O	Date Storage	45	% full
LEL	N/A	%			

Propane Supply

Primary pressure	6.5	psi	Operating pressure	10	in-H_2O
Secondary pressure	<1	psi	Supply tank level	90	%

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: could not do OVA reading due to someone else using it.

COP - Eureka
DPE System Monitoring Sheet
098179.304

Date: 12/29/05 Time: 1420
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	100	15	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	12	C					
	FP								
EW-8	H_2O/Air	100	26	C					
	FP								
EW-9	H_2O/Air	100	23	C					
	FP								
EW-10	H_2O/Air	100	30	C					
	FP								
EW-11	H_2O/Air	100	26	C					
	FP								
EW-12	H_2O/Air	100	30	C					
	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 _____

Appendix C

Laboratory Analytical Reports

SEVERN TRENT STL

Submission#: 2005-08-0212

SHN Engineers and Scientists

August 31, 2005

812 West Wabash
Eureka, CA 95501-2138

Attn.: Roland Rueber

Project#: 098179.305
Project: Conoco Phillips Site#0201
Site: 1200 Railroad Ave., Eureka, CA

Attached is our report for your samples received on 08/05/2005 09:30
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/19/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

812 West Wabash
Eureka, CA 95501-2138
Phone: (707) 441-8855 Fax: (707) 441-8877

Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-29	08/02/2005 10:20	Water	1
MW-7	08/02/2005 11:35	Water	2
MW-4	08/02/2005 11:40	Water	3
MW-5	08/02/2005 14:10	Water	4
MW-32	08/02/2005 15:10	Water	7
MW-17	08/02/2005 15:50	Water	8
MW-3	08/02/2005 16:10	Water	9
MW-15	08/03/2005 09:50	Water	10
MW-26	08/03/2005 10:50	Water	11
EW-1	08/03/2005 11:50	Water	12
EW-11	08/03/2005 13:50	Water	13
EW-10	08/03/2005 13:55	Water	14
EW-9	08/03/2005 14:05	Water	15
EW-8	08/03/2005 14:10	Water	16
EW-12	08/03/2005 14:20	Water	17
EW-7	08/03/2005 15:05	Water	18
EW-6	08/03/2005 15:10	Water	19
EW-3	08/03/2005 15:20	Water	20
EW-5	08/03/2005 15:40	Water	21
EW-4	08/03/2005 15:50	Water	22
EW-2	08/03/2005 15:55	Water	23

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

812 West Wabash
Eureka, CA 95501-2138
Phone: (707) 441-8855 Fax: (707) 441-8877

Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-29**	Lab ID:	2005-08-0212 - 1
Sampled:	08/02/2005 10:20	Extracted:	8/8/2005 14:56
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	08/08/2005 14:56	
Benzene	ND	0.50	ug/L	1.00	08/08/2005 14:56	
Toluene	ND	0.50	ug/L	1.00	08/08/2005 14:56	
Ethyl benzene	ND	0.50	ug/L	1.00	08/08/2005 14:56	
Xylene(s)	ND	0.50	ug/L	1.00	08/08/2005 14:56	
MTBE	ND	5.0	ug/L	1.00	08/08/2005 14:56	
Surrogate(s)						
Trifluorotoluene	115.3	58-124	%	1.00	08/08/2005 14:56	
4-Bromofluorobenzene-FID	79.3	50-150	%	1.00	08/08/2005 14:56	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030	Test(s):	8015M
Sample ID:	**MW-7**	Lab ID:	2005-08-0212 - 2
Sampled:	08/02/2005 11:35	Extracted:	8/8/2005 15:23
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	08/08/2005 15:23	
Surrogate(s)						
4-Bromofluorobenzene-FID	81.5	50-150	%	1.00	08/08/2005 15:23	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

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Eureka, CA 95501-2138
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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030	Test(s):	8015M
Sample ID:	**MW-4**	Lab ID:	2005-08-0212 - 3
Sampled:	08/02/2005 11:40	Extracted:	8/8/2005 15:50
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	08/08/2005 15:50	
Surrogate(s)						
4-Bromofluorobenzene-FID	80.8	50-150	%	1.00	08/08/2005 15:50	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
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Eureka, CA 95501-2138
Phone: (707) 441-8855 Fax: (707) 441-8877

Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030	Test(s):	8015M
Sample ID:	**MW-5**	Lab ID:	2005-08-0212 - 4
Sampled:	08/02/2005 14:10	Extracted:	8/8/2005 16:17
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	08/08/2005 16:17	
Surrogate(s)						
4-Bromofluorobenzene-FID	79.2	50-150	%	1.00	08/08/2005 16:17	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

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Phone: (707) 441-8855 Fax: (707) 441-8877

Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-32**	Lab ID:	2005-08-0212 - 7
Sampled:	08/02/2005 15:10	Extracted:	8/8/2005 16:44
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	08/08/2005 16:44	
MTBE	ND	5.0	ug/L	1.00	08/08/2005 16:44	
Surrogate(s)						
Trifluorotoluene	115.1	58-124	%	1.00	08/08/2005 16:44	
4-Bromofluorobenzene-FID	86.6	50-150	%	1.00	08/08/2005 16:44	

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-17**	Lab ID:	2005-08-0212 - 8
Sampled:	08/02/2005 15:50	Extracted:	8/8/2005 17:11
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	73	50	ug/L	1.00	08/08/2005 17:11	Q1
Benzene	11	0.50	ug/L	1.00	08/08/2005 17:11	
Toluene	ND	0.50	ug/L	1.00	08/08/2005 17:11	
Ethyl benzene	ND	0.50	ug/L	1.00	08/08/2005 17:11	
Xylene(s)	ND	0.50	ug/L	1.00	08/08/2005 17:11	
MTBE	ND	5.0	ug/L	1.00	08/08/2005 17:11	
Surrogate(s)						
Trifluorotoluene	117.1	58-124	%	1.00	08/08/2005 17:11	
4-Bromofluorobenzene-FID	86.7	50-150	%	1.00	08/08/2005 17:11	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

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Eureka, CA 95501-2138
Phone: (707) 441-8855 Fax: (707) 441-8877

Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-3**	Lab ID:	2005-08-0212 - 9
Sampled:	08/02/2005 16:10	Extracted:	8/9/2005 14:27
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	100	50	ug/L	1.00	08/09/2005 14:27	Q1
Benzene	ND	0.50	ug/L	1.00	08/09/2005 14:27	
Toluene	ND	0.50	ug/L	1.00	08/09/2005 14:27	
Ethyl benzene	ND	0.50	ug/L	1.00	08/09/2005 14:27	
Xylene(s)	ND	0.50	ug/L	1.00	08/09/2005 14:27	
MTBE	12	5.0	ug/L	1.00	08/09/2005 14:27	
Surrogate(s)						
Trifluorotoluene	104.3	58-124	%	1.00	08/09/2005 14:27	
4-Bromofluorobenzene-FID	93.2	50-150	%	1.00	08/09/2005 14:27	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

812 West Wabash
Eureka, CA 95501-2138
Phone: (707) 441-8855 Fax: (707) 441-8877

Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-15**	Lab ID:	2005-08-0212 - 10
Sampled:	08/03/2005 09:50	Extracted:	8/8/2005 18:06
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	08/08/2005 18:06	
Benzene	ND	0.50	ug/L	1.00	08/08/2005 18:06	
Toluene	ND	0.50	ug/L	1.00	08/08/2005 18:06	
Ethyl benzene	ND	0.50	ug/L	1.00	08/08/2005 18:06	
Xylene(s)	ND	0.50	ug/L	1.00	08/08/2005 18:06	
MTBE	ND	5.0	ug/L	1.00	08/08/2005 18:06	
Surrogate(s)						
Trifluorotoluene	118.8	58-124	%	1.00	08/08/2005 18:06	
4-Bromofluorobenzene-FID	80.7	50-150	%	1.00	08/08/2005 18:06	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

812 West Wabash
Eureka, CA 95501-2138
Phone: (707) 441-8855 Fax: (707) 441-8877

Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-26**	Lab ID:	2005-08-0212 - 11
Sampled:	08/03/2005 10:50	Extracted:	8/9/2005 14:54
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	5600	1000	ug/L	20.00	08/09/2005 14:54	
Benzene	970	10	ug/L	20.00	08/09/2005 14:54	
Toluene	42	10	ug/L	20.00	08/09/2005 14:54	
Ethyl benzene	99	10	ug/L	20.00	08/09/2005 14:54	
Xylene(s)	160	10	ug/L	20.00	08/09/2005 14:54	
MTBE	ND	100	ug/L	20.00	08/09/2005 14:54	
Surrogate(s)						
Trifluorotoluene	118.2	58-124	%	20.00	08/09/2005 14:54	
4-Bromofluorobenzene-FID	80.6	50-150	%	20.00	08/09/2005 14:54	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

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Eureka, CA 95501-2138
Phone: (707) 441-8855 Fax: (707) 441-8877

Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-1**	Lab ID:	2005-08-0212 - 12
Sampled:	08/03/2005 11:50	Extracted:	8/8/2005 18:59
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	2200	1000	ug/L	20.00	08/08/2005 18:59	
Benzene	40	10	ug/L	20.00	08/08/2005 18:59	
Toluene	ND	10	ug/L	20.00	08/08/2005 18:59	
Ethyl benzene	97	10	ug/L	20.00	08/08/2005 18:59	
Xylene(s)	240	10	ug/L	20.00	08/08/2005 18:59	
MTBE	ND	100	ug/L	20.00	08/08/2005 18:59	
Surrogate(s)						
Trifluorotoluene	119.5	58-124	%	20.00	08/08/2005 18:59	
4-Bromofluorobenzene-FID	81.7	50-150	%	20.00	08/08/2005 18:59	

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-11**	Lab ID:	2005-08-0212 - 13
Sampled:	08/03/2005 13:50	Extracted:	8/8/2005 20:20
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	940	500	ug/L	10.00	08/08/2005 20:20	
Benzene	75	5.0	ug/L	10.00	08/08/2005 20:20	
Toluene	17	5.0	ug/L	10.00	08/08/2005 20:20	
Ethyl benzene	25	5.0	ug/L	10.00	08/08/2005 20:20	
Xylene(s)	72	5.0	ug/L	10.00	08/08/2005 20:20	
MTBE	ND	50	ug/L	10.00	08/08/2005 20:20	
Surrogate(s)						
Trifluorotoluene	111.8	58-124	%	10.00	08/08/2005 20:20	
4-Bromofluorobenzene-FID	78.7	50-150	%	10.00	08/08/2005 20:20	

Gas/BTEX Compounds by 8015M/8021

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Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-10**	Lab ID:	2005-08-0212 - 14
Sampled:	08/03/2005 13:55	Extracted:	8/9/2005 15:21
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	470	50	ug/L	1.00	08/09/2005 15:21	Q1
Benzene	19	0.50	ug/L	1.00	08/09/2005 15:21	
Toluene	3.5	0.50	ug/L	1.00	08/09/2005 15:21	
Ethyl benzene	11	0.50	ug/L	1.00	08/09/2005 15:21	
Xylene(s)	32	0.50	ug/L	1.00	08/09/2005 15:21	
MTBE	ND	5.0	ug/L	1.00	08/09/2005 15:21	
Surrogate(s)						
Trifluorotoluene	113.8	58-124	%	1.00	08/09/2005 15:21	
4-Bromofluorobenzene-FID	101.3	50-150	%	1.00	08/09/2005 15:21	

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-9**	Lab ID:	2005-08-0212 - 15
Sampled:	08/03/2005 14:05	Extracted:	8/8/2005 21:12
Matrix:	Water	QC Batch#:	2005/08/08-01.05

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	1300	250	ug/L	5.00	08/08/2005 21:12	
Benzene	67	2.5	ug/L	5.00	08/08/2005 21:12	
Toluene	10	2.5	ug/L	5.00	08/08/2005 21:12	
Ethyl benzene	37	2.5	ug/L	5.00	08/08/2005 21:12	
Xylene(s)	83	2.5	ug/L	5.00	08/08/2005 21:12	
MTBE	ND	25	ug/L	5.00	08/08/2005 21:12	
Surrogate(s)						
Trifluorotoluene	107.9	58-124	%	5.00	08/08/2005 21:12	
4-Bromofluorobenzene-FID	84.6	50-150	%	5.00	08/08/2005 21:12	

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-8**	Lab ID:	2005-08-0212 - 16
Sampled:	08/03/2005 14:10	Extracted:	8/9/2005 15:49
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	150	50	ug/L	1.00	08/09/2005 15:49	Q1
Benzene	3.9	0.50	ug/L	1.00	08/09/2005 15:49	
Toluene	ND	0.50	ug/L	1.00	08/09/2005 15:49	
Ethyl benzene	0.97	0.50	ug/L	1.00	08/09/2005 15:49	
Xylene(s)	3.5	0.50	ug/L	1.00	08/09/2005 15:49	
MTBE	ND	5.0	ug/L	1.00	08/09/2005 15:49	
Surrogate(s)						
Trifluorotoluene	112.3	58-124	%	1.00	08/09/2005 15:49	
4-Bromofluorobenzene-FID	86.1	50-150	%	1.00	08/09/2005 15:49	

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-12**	Lab ID:	2005-08-0212 - 17
Sampled:	08/03/2005 14:20	Extracted:	8/9/2005 16:16
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	20000	5000	ug/L	100.00	08/09/2005 16:16	
Benzene	1900	50	ug/L	100.00	08/09/2005 16:16	
Toluene	150	50	ug/L	100.00	08/09/2005 16:16	
Ethyl benzene	810	50	ug/L	100.00	08/09/2005 16:16	
Xylene(s)	2500	50	ug/L	100.00	08/09/2005 16:16	
MTBE	ND	500	ug/L	100.00	08/09/2005 16:16	
Surrogate(s)						
Trifluorotoluene	114.4	58-124	%	100.00	08/09/2005 16:16	
4-Bromofluorobenzene-FID	81.8	50-150	%	100.00	08/09/2005 16:16	

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-7**	Lab ID:	2005-08-0212 - 18
Sampled:	08/03/2005 15:05	Extracted:	8/9/2005 16:43
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	830	250	ug/L	5.00	08/09/2005 16:43	
Benzene	180	2.5	ug/L	5.00	08/09/2005 16:43	
Toluene	3.8	2.5	ug/L	5.00	08/09/2005 16:43	
Ethyl benzene	39	2.5	ug/L	5.00	08/09/2005 16:43	
Xylene(s)	49	2.5	ug/L	5.00	08/09/2005 16:43	
MTBE	ND	25	ug/L	5.00	08/09/2005 16:43	
Surrogate(s)						
Trifluorotoluene	114.0	58-124	%	5.00	08/09/2005 16:43	
4-Bromofluorobenzene-FID	82.0	50-150	%	5.00	08/09/2005 16:43	

Gas/BTEX Compounds by 8015M/8021

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Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-6**	Lab ID:	2005-08-0212 - 19
Sampled:	08/03/2005 15:10	Extracted:	8/9/2005 17:11
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	160	50	ug/L	1.00	08/09/2005 17:11	Q1
Benzene	4.1	0.50	ug/L	1.00	08/09/2005 17:11	
Toluene	0.61	0.50	ug/L	1.00	08/09/2005 17:11	
Ethyl benzene	2.5	0.50	ug/L	1.00	08/09/2005 17:11	
Xylene(s)	6.3	0.50	ug/L	1.00	08/09/2005 17:11	
MTBE	ND	5.0	ug/L	1.00	08/09/2005 17:11	
Surrogate(s)						
Trifluorotoluene	101.7	58-124	%	1.00	08/09/2005 17:11	
4-Bromofluorobenzene-FID	97.8	50-150	%	1.00	08/09/2005 17:11	

Gas/BTEX Compounds by 8015M/8021

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-3**	Lab ID:	2005-08-0212 - 20
Sampled:	08/03/2005 15:20	Extracted:	8/9/2005 17:38
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	60	50	ug/L	1.00	08/09/2005 17:38	Q1
Benzene	4.7	0.50	ug/L	1.00	08/09/2005 17:38	
Toluene	ND	0.50	ug/L	1.00	08/09/2005 17:38	
Ethyl benzene	ND	0.50	ug/L	1.00	08/09/2005 17:38	
Xylene(s)	ND	0.50	ug/L	1.00	08/09/2005 17:38	
MTBE	ND	5.0	ug/L	1.00	08/09/2005 17:38	
Surrogate(s)						
Trifluorotoluene	110.1	58-124	%	1.00	08/09/2005 17:38	
4-Bromofluorobenzene-FID	79.6	50-150	%	1.00	08/09/2005 17:38	

Gas/BTEX Compounds by 8015M/8021

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-5**	Lab ID:	2005-08-0212 - 21
Sampled:	08/03/2005 15:40	Extracted:	8/9/2005 18:05
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	82	50	ug/L	1.00	08/09/2005 18:05	Q1
Benzene	ND	0.50	ug/L	1.00	08/09/2005 18:05	
Toluene	ND	0.50	ug/L	1.00	08/09/2005 18:05	
Ethyl benzene	ND	0.50	ug/L	1.00	08/09/2005 18:05	
Xylene(s)	ND	0.50	ug/L	1.00	08/09/2005 18:05	
MTBE	11	5.0	ug/L	1.00	08/09/2005 18:05	
Surrogate(s)						
Trifluorotoluene	112.2	58-124	%	1.00	08/09/2005 18:05	
4-Bromofluorobenzene-FID	85.1	50-150	%	1.00	08/09/2005 18:05	

Gas/BTEX Compounds by 8015M/8021

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-4**	Lab ID:	2005-08-0212 - 22
Sampled:	08/03/2005 15:50	Extracted:	8/9/2005 18:33
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	08/09/2005 18:33	
Benzene	ND	0.50	ug/L	1.00	08/09/2005 18:33	
Toluene	ND	0.50	ug/L	1.00	08/09/2005 18:33	
Ethyl benzene	ND	0.50	ug/L	1.00	08/09/2005 18:33	
Xylene(s)	ND	0.50	ug/L	1.00	08/09/2005 18:33	
MTBE	ND	5.0	ug/L	1.00	08/09/2005 18:33	
Surrogate(s)						
Trifluorotoluene	114.7	58-124	%	1.00	08/09/2005 18:33	
4-Bromofluorobenzene-FID	82.7	50-150	%	1.00	08/09/2005 18:33	

Gas/BTEX Compounds by 8015M/8021

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-2**	Lab ID:	2005-08-0212 - 23
Sampled:	08/03/2005 15:55	Extracted:	8/9/2005 19:54
Matrix:	Water	QC Batch#:	2005/08/09-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	610	50	ug/L	1.00	08/09/2005 19:54	Q1
Benzene	1.0	0.50	ug/L	1.00	08/09/2005 19:54	
Toluene	ND	0.50	ug/L	1.00	08/09/2005 19:54	
Ethyl benzene	3.2	0.50	ug/L	1.00	08/09/2005 19:54	
Xylene(s)	7.6	0.50	ug/L	1.00	08/09/2005 19:54	
MTBE	ND	5.0	ug/L	1.00	08/09/2005 19:54	
Surrogate(s)						
Trifluorotoluene	110.7	58-124	%	1.00	08/09/2005 19:54	
Trifluorotoluene-FID	106.4	58-124	%	1.00	08/09/2005 19:54	

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030
5030

Test(s): 8015M
8021B

Method Blank **Water** **QC Batch # 2005/08/08-01.05**

MB: 2005/08/08-01.05-003

Date Extracted: 08/08/2005 09:22

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	08/08/2005 09:22	
Benzene	ND	0.5	ug/L	08/08/2005 09:22	
Toluene	ND	0.5	ug/L	08/08/2005 09:22	
Ethyl benzene	ND	0.5	ug/L	08/08/2005 09:22	
Xylene(s)	ND	0.5	ug/L	08/08/2005 09:22	
MTBE	ND	5.0	ug/L	08/08/2005 09:22	
Surrogates(s)					
Trifluorotoluene	97.6	58-124	%	08/08/2005 09:22	
4-Bromofluorobenzene-FID	75.0	50-150	%	08/08/2005 09:22	

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030
5030

Test(s): 8015M
8021B

Method Blank **Water** **QC Batch # 2005/08/09-01.05**

MB: 2005/08/09-01.05-003

Date Extracted: 08/09/2005 06:50

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	08/09/2005 06:50	
Benzene	ND	0.5	ug/L	08/09/2005 06:50	
Toluene	ND	0.5	ug/L	08/09/2005 06:50	
Ethyl benzene	ND	0.5	ug/L	08/09/2005 06:50	
Xylene(s)	ND	0.5	ug/L	08/09/2005 06:50	
MTBE	ND	5.0	ug/L	08/09/2005 06:50	
Surrogates(s)					
Trifluorotoluene	100.6	58-124	%	08/09/2005 06:50	
4-Bromofluorobenzene-FID	75.8	50-150	%	08/09/2005 06:50	

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030 Test(s): 8021B

Laboratory Control Spike **Water** **QC Batch # 2005/08/08-01.05**

LCS 2005/08/08-01.05-004 Extracted: 08/08/2005 Analyzed: 08/08/2005 09:49
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	50.9		50.0	101.8			77-123	20		
Toluene	50.2		50.0	100.4			78-122	20		
Ethyl benzene	49.0		50.0	98.0			70-130	20		
Xylene(s)	149		150	99.3			75-125	20		
Surrogates(s)										
Trifluorotoluene	516		500	103.2			58-124			

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/08/08-01.05**

LCS 2005/08/08-01.05-005 Extracted: 08/08/2005 Analyzed: 08/08/2005 10:15
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
GRO (C6-C12)	237		250	94.8			75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	389		500	77.8			50-150			

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030 Test(s): 8021B

Laboratory Control Spike **Water** **QC Batch # 2005/08/09-01.05**

LCS 2005/08/09-01.05-004 Extracted: 08/09/2005 Analyzed: 08/09/2005 07:16
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	50.1		50.0	100.2			77-123	20		
Toluene	49.4		50.0	98.8			78-122	20		
Ethyl benzene	48.1		50.0	96.2			70-130	20		
Xylene(s)	146		150	97.3			75-125	20		
Surrogates(s)										
Trifluorotoluene	540		500	108.0			58-124			

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030 Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/08/09-01.05**

LCS 2005/08/09-01.05-005 Extracted: 08/09/2005 Analyzed: 08/09/2005 07:42
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
GRO (C6-C12)	239		250	95.6			75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	407		500	81.4			50-150			

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030 Test(s): 8021B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/08/08-01.05**

MW-29 >> MS Lab ID: 2005-08-0212 - 001

MS: 2005/08/08-01.05-030 Extracted: 08/08/2005 Analyzed: 08/08/2005 21:39
Dilution: 1.00

MSD: 2005/08/08-01.05-031 Extracted: 08/08/2005 Analyzed: 08/08/2005 22:05
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	49.8	50.2	0.849	50.0	97.9	98.7	0.8	65-135	20		
Toluene	49.7	51.3	ND	50.0	99.4	102.6	3.2	65-135	20		
Xylene(s)	144	154	ND	150	96.0	102.7	6.7	65-135	20		
Ethyl benzene	47.9	51.2	ND	50.0	95.8	102.4	6.7	65-135	20		
Surrogate(s)											
Trifluorotoluene	498	495		500	99.6	99.0		58-124			

Gas/BTEX Compounds by 8015M/8021

SHN Engineers and Scientists
Attn.: Roland Rueber

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030 Test(s): 8015M

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/08/08-01.05**

MW-7 >> MS Lab ID: 2005-08-0212 - 002

MS: 2005/08/08-01.05-032 Extracted: 08/08/2005 Analyzed: 08/08/2005 22:31
Dilution: 1.00

MSD: 2005/08/08-01.05-033 Extracted: 08/08/2005 Analyzed: 08/08/2005 22:57
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
GRO (C6-C12)	267	264	ND	250	106.8	105.6	1.1	65-135	20		
Surrogate(s)											
4-Bromofluorobenzene-FID	405	393		500	81.0	78.6		50-150			

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/08/09-01.05**

EW-4 >> MS

Lab ID: 2005-08-0212 - 022

MS: 2005/08/09-01.05-029 Extracted: 08/09/2005 Analyzed: 08/09/2005 20:21

Dilution: 1.00

MSD: 2005/08/09-01.05-030 Extracted: 08/09/2005 Analyzed: 08/09/2005 20:48

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	57.4	54.7	ND	50.0	114.8	109.4	4.8	65-135	20		
Toluene	58.4	55.8	ND	50.0	116.8	111.6	4.6	65-135	20		
Ethyl benzene	56.7	55.8	ND	50.0	113.4	111.6	1.6	65-135	20		
Xylene(s)	170	167	ND	150.0	113.3	111.3	1.8	65-135	20		
Surrogate(s)											
Trifluorotoluene	503	526		500	100.6	105.2		58-124			

Gas/BTEX Compounds by 8015M/8021

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030 Test(s): 8015M

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/08/09-01.05**

EW-3 >> MS Lab ID: 2005-08-0212 - 020

MS: 2005/08/09-01.05-031 Extracted: 08/09/2005 Analyzed: 08/09/2005 21:15
Dilution: 1.00

MSD: 2005/08/09-01.05-032 Extracted: 08/09/2005 Analyzed: 08/09/2005 21:41
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
GRO (C6-C12)	276	271	60.1	250	86.4	84.4	2.3	65-135	20		
Surrogate(s)											
4-Bromofluorobenzene-FID	407	404		500	81.4	80.8		50-150			

Gas/BTEX Compounds by 8015M/8021

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Site: 1200 Railroad Ave., Eureka, CA

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

SEVERN TRENT STL

Submission: 2005-08-0212

Halogenated Volatile Organic Compounds by 8021B/8260B

SHN Engineers and Scientists

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-29	08/02/2005 10:20	Water	1
MW-4	08/02/2005 11:40	Water	3
MW-31	08/02/2005 14:15	Water	5
MW-30	08/02/2005 15:05	Water	6
MW-17	08/02/2005 15:50	Water	8

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-29**	Lab ID:	2005-08-0212 - 1
Sampled:	08/02/2005 10:20	Extracted:	8/15/2005 12:14
Matrix:	Water	QC Batch#:	2005/08/15-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/15/2005 12:14	
Vinyl chloride	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Chloroethane	ND	1.0	ug/L	1.00	08/15/2005 12:14	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/15/2005 12:14	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Methylene chloride	ND	5.0	ug/L	1.00	08/15/2005 12:14	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Chloroform	ND	0.50	ug/L	1.00	08/15/2005 12:14	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/15/2005 12:14	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Trichloroethene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Chlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Bromoform	ND	2.0	ug/L	1.00	08/15/2005 12:14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/15/2005 12:14	
Chloromethane	ND	1.0	ug/L	1.00	08/15/2005 12:14	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-29**	Lab ID:	2005-08-0212 - 1
Sampled:	08/02/2005 10:20	Extracted:	8/15/2005 12:14
Matrix:	Water	QC Batch#:	2005/08/15-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Bromomethane	ND	1.0	ug/L	1.00	08/15/2005 12:14	
Surrogate(s)						
4-Bromofluorobenzene	99.5	79-118	%	1.00	08/15/2005 12:14	
1,2-Dichloroethane-d4	88.3	78-117	%	1.00	08/15/2005 12:14	
Toluene-d8	98.0	77-121	%	1.00	08/15/2005 12:14	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-4**	Lab ID:	2005-08-0212 - 3
Sampled:	08/02/2005 11:40	Extracted:	8/15/2005 13:20
Matrix:	Water	QC Batch#:	2005/08/15-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/15/2005 13:20	
Vinyl chloride	9.0	0.50	ug/L	1.00	08/15/2005 13:20	
Chloroethane	ND	1.0	ug/L	1.00	08/15/2005 13:20	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/15/2005 13:20	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Methylene chloride	ND	5.0	ug/L	1.00	08/15/2005 13:20	
trans-1,2-Dichloroethene	0.61	0.50	ug/L	1.00	08/15/2005 13:20	
cis-1,2-Dichloroethene	20	0.50	ug/L	1.00	08/15/2005 13:20	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Chloroform	ND	0.50	ug/L	1.00	08/15/2005 13:20	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/15/2005 13:20	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Trichloroethene	0.57	0.50	ug/L	1.00	08/15/2005 13:20	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/15/2005 13:20	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/15/2005 13:20	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Chlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Bromoform	ND	2.0	ug/L	1.00	08/15/2005 13:20	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 13:20	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 13:20	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/15/2005 13:20	
Chloromethane	ND	1.0	ug/L	1.00	08/15/2005 13:20	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-4**	Lab ID:	2005-08-0212 - 3
Sampled:	08/02/2005 11:40	Extracted:	8/15/2005 13:20
Matrix:	Water	QC Batch#:	2005/08/15-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Bromomethane	ND	1.0	ug/L	1.00	08/15/2005 13:20	
Surrogate(s)						
4-Bromofluorobenzene	100.4	79-118	%	1.00	08/15/2005 13:20	
1,2-Dichloroethane-d4	83.4	78-117	%	1.00	08/15/2005 13:20	
Toluene-d8	98.3	77-121	%	1.00	08/15/2005 13:20	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-31**	Lab ID:	2005-08-0212 - 5
Sampled:	08/02/2005 14:15	Extracted:	8/16/2005 10:48
Matrix:	Water	QC Batch#:	2005/08/16-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/16/2005 10:48	
Vinyl chloride	9.9	0.50	ug/L	1.00	08/16/2005 10:48	
Chloroethane	ND	1.0	ug/L	1.00	08/16/2005 10:48	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/16/2005 10:48	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Methylene chloride	ND	5.0	ug/L	1.00	08/16/2005 10:48	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
cis-1,2-Dichloroethene	0.58	0.50	ug/L	1.00	08/16/2005 10:48	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Chloroform	ND	0.50	ug/L	1.00	08/16/2005 10:48	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/16/2005 10:48	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Trichloroethene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Chlorobenzene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Bromoform	ND	2.0	ug/L	1.00	08/16/2005 10:48	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/16/2005 10:48	
Chloromethane	ND	1.0	ug/L	1.00	08/16/2005 10:48	

Halogenated Volatile Organic Compounds by 8021B/8260B

SHN Engineers and Scientists
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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-31**	Lab ID:	2005-08-0212 - 5
Sampled:	08/02/2005 14:15	Extracted:	8/16/2005 10:48
Matrix:	Water	QC Batch#:	2005/08/16-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Bromomethane	ND	1.0	ug/L	1.00	08/16/2005 10:48	
Surrogate(s)						
4-Bromofluorobenzene	101.5	79-118	%	1.00	08/16/2005 10:48	
1,2-Dichloroethane-d4	82.1	78-117	%	1.00	08/16/2005 10:48	
Toluene-d8	99.5	77-121	%	1.00	08/16/2005 10:48	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-30**	Lab ID:	2005-08-0212 - 6
Sampled:	08/02/2005 15:05	Extracted:	8/15/2005 16:39
Matrix:	Water	QC Batch#:	2005/08/15-1A.60

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	20	ug/L	20.00	08/15/2005 16:39	
Vinyl chloride	670	10	ug/L	20.00	08/15/2005 16:39	
Chloroethane	ND	20	ug/L	20.00	08/15/2005 16:39	
Trichlorofluoromethane	ND	20	ug/L	20.00	08/15/2005 16:39	
1,1-Dichloroethene	ND	10	ug/L	20.00	08/15/2005 16:39	
Methylene chloride	ND	100	ug/L	20.00	08/15/2005 16:39	
trans-1,2-Dichloroethene	17	10	ug/L	20.00	08/15/2005 16:39	
cis-1,2-Dichloroethene	1300	10	ug/L	20.00	08/15/2005 16:39	
1,1-Dichloroethane	ND	10	ug/L	20.00	08/15/2005 16:39	
Chloroform	ND	10	ug/L	20.00	08/15/2005 16:39	
1,1,1-Trichloroethane	ND	10	ug/L	20.00	08/15/2005 16:39	
Carbon tetrachloride	ND	10	ug/L	20.00	08/15/2005 16:39	
1,2-Dichloroethane	ND	10	ug/L	20.00	08/15/2005 16:39	
Trichloroethene	ND	10	ug/L	20.00	08/15/2005 16:39	
1,2-Dichloropropane	ND	10	ug/L	20.00	08/15/2005 16:39	
Bromodichloromethane	ND	10	ug/L	20.00	08/15/2005 16:39	
trans-1,3-Dichloropropene	ND	10	ug/L	20.00	08/15/2005 16:39	
cis-1,3-Dichloropropene	ND	10	ug/L	20.00	08/15/2005 16:39	
1,1,2-Trichloroethane	ND	10	ug/L	20.00	08/15/2005 16:39	
Tetrachloroethene	ND	10	ug/L	20.00	08/15/2005 16:39	
Dibromochloromethane	ND	10	ug/L	20.00	08/15/2005 16:39	
Chlorobenzene	ND	10	ug/L	20.00	08/15/2005 16:39	
Bromoform	ND	40	ug/L	20.00	08/15/2005 16:39	
1,1,2,2-Tetrachloroethane	ND	10	ug/L	20.00	08/15/2005 16:39	
1,3-Dichlorobenzene	ND	10	ug/L	20.00	08/15/2005 16:39	
1,4-Dichlorobenzene	ND	10	ug/L	20.00	08/15/2005 16:39	
1,2-Dichlorobenzene	ND	10	ug/L	20.00	08/15/2005 16:39	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-30**	Lab ID:	2005-08-0212 - 6
Sampled:	08/02/2005 15:05	Extracted:	8/15/2005 16:39
Matrix:	Water	QC Batch#:	2005/08/15-1A.60

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	10	ug/L	20.00	08/15/2005 16:39	
Chloromethane	ND	20	ug/L	20.00	08/15/2005 16:39	
Bromomethane	ND	20	ug/L	20.00	08/15/2005 16:39	
Surrogate(s)						
4-Bromofluorobenzene	101.6	79-118	%	20.00	08/15/2005 16:39	
1,2-Dichloroethane-d4	83.5	78-117	%	20.00	08/15/2005 16:39	
Toluene-d8	97.8	77-121	%	20.00	08/15/2005 16:39	

Halogenated Volatile Organic Compounds by 8021B/8260B

SHN Engineers and Scientists
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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-17**	Lab ID:	2005-08-0212 - 8
Sampled:	08/02/2005 15:50	Extracted:	8/15/2005 16:06
Matrix:	Water	QC Batch#:	2005/08/15-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/15/2005 16:06	
Vinyl chloride	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Chloroethane	ND	1.0	ug/L	1.00	08/15/2005 16:06	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/15/2005 16:06	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Methylene chloride	ND	5.0	ug/L	1.00	08/15/2005 16:06	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Chloroform	ND	0.50	ug/L	1.00	08/15/2005 16:06	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/15/2005 16:06	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Trichloroethene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Chlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Bromoform	ND	2.0	ug/L	1.00	08/15/2005 16:06	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/15/2005 16:06	
Chloromethane	ND	1.0	ug/L	1.00	08/15/2005 16:06	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-17**	Lab ID:	2005-08-0212 - 8
Sampled:	08/02/2005 15:50	Extracted:	8/15/2005 16:06
Matrix:	Water	QC Batch#:	2005/08/15-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Bromomethane	ND	1.0	ug/L	1.00	08/15/2005 16:06	
Surrogate(s)						
4-Bromofluorobenzene	99.5	79-118	%	1.00	08/15/2005 16:06	
1,2-Dichloroethane-d4	91.3	78-117	%	1.00	08/15/2005 16:06	
Toluene-d8	97.3	77-121	%	1.00	08/15/2005 16:06	

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/08/15-1A.60**

MB: 2005/08/15-1A.60-046 — Date Extracted: 08/15/2005 10:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromodichloromethane	ND	0.5	ug/L	08/15/2005 10:46	
Bromoform	ND	2.0	ug/L	08/15/2005 10:46	
Bromomethane	ND	1.0	ug/L	08/15/2005 10:46	
Carbon tetrachloride	ND	0.5	ug/L	08/15/2005 10:46	
Chlorobenzene	ND	0.5	ug/L	08/15/2005 10:46	
Chloroethane	ND	1.0	ug/L	08/15/2005 10:46	
Chloroform	ND	0.5	ug/L	08/15/2005 10:46	
Chloromethane	ND	1.0	ug/L	08/15/2005 10:46	
Dibromochloromethane	ND	0.5	ug/L	08/15/2005 10:46	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/15/2005 10:46	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/15/2005 10:46	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/15/2005 10:46	
Dichlorodifluoromethane	ND	1.0	ug/L	08/15/2005 10:46	
1,1-Dichloroethane	ND	0.5	ug/L	08/15/2005 10:46	
1,2-Dichloroethane	ND	0.5	ug/L	08/15/2005 10:46	
1,1-Dichloroethene	ND	0.5	ug/L	08/15/2005 10:46	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/15/2005 10:46	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/15/2005 10:46	
1,2-Dichloropropane	ND	0.5	ug/L	08/15/2005 10:46	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/15/2005 10:46	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/15/2005 10:46	
Methylene chloride	ND	5.0	ug/L	08/15/2005 10:46	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/15/2005 10:46	
Tetrachloroethene	ND	0.5	ug/L	08/15/2005 10:46	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/15/2005 10:46	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/15/2005 10:46	
Trichloroethene	ND	0.5	ug/L	08/15/2005 10:46	
Trichlorofluoromethane	ND	1.0	ug/L	08/15/2005 10:46	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/15/2005 10:46	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Water** **QC Batch # 2005/08/15-1A.60**

MB: 2005/08/15-1A.60-046
Date Extracted: 08/15/2005 10:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Vinyl chloride	ND	0.5	ug/L	08/15/2005 10:46	
4-Bromofluorobenzene	103.0	79-118	%	08/15/2005 10:46	
1,2-Dichloroethane-d4	86.1	78-117	%	08/15/2005 10:46	
Toluene-d8	99.3	77-121	%	08/15/2005 10:46	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/08/16-1A.60**

MB: 2005/08/16-1A.60-015 — Date Extracted: 08/16/2005 10:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromodichloromethane	ND	0.5	ug/L	08/16/2005 10:15	
Bromoform	ND	2.0	ug/L	08/16/2005 10:15	
Bromomethane	ND	1.0	ug/L	08/16/2005 10:15	
Carbon tetrachloride	ND	0.5	ug/L	08/16/2005 10:15	
Chlorobenzene	ND	0.5	ug/L	08/16/2005 10:15	
Chloroethane	ND	1.0	ug/L	08/16/2005 10:15	
Chloroform	ND	0.5	ug/L	08/16/2005 10:15	
Chloromethane	ND	1.0	ug/L	08/16/2005 10:15	
Dibromochloromethane	ND	0.5	ug/L	08/16/2005 10:15	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/16/2005 10:15	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/16/2005 10:15	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/16/2005 10:15	
Dichlorodifluoromethane	ND	1.0	ug/L	08/16/2005 10:15	
1,1-Dichloroethane	ND	0.5	ug/L	08/16/2005 10:15	
1,2-Dichloroethane	ND	0.5	ug/L	08/16/2005 10:15	
1,1-Dichloroethene	ND	0.5	ug/L	08/16/2005 10:15	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/16/2005 10:15	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/16/2005 10:15	
1,2-Dichloropropane	ND	0.5	ug/L	08/16/2005 10:15	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/16/2005 10:15	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/16/2005 10:15	
Methylene chloride	ND	5.0	ug/L	08/16/2005 10:15	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/16/2005 10:15	
Tetrachloroethene	ND	0.5	ug/L	08/16/2005 10:15	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/16/2005 10:15	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/16/2005 10:15	
Trichloroethene	ND	0.5	ug/L	08/16/2005 10:15	
Trichlorofluoromethane	ND	1.0	ug/L	08/16/2005 10:15	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/16/2005 10:15	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/08/16-1A.60**

MB: 2005/08/16-1A.60-015 — Date Extracted: 08/16/2005 10:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Vinyl chloride	ND	0.5	ug/L	08/16/2005 10:15	
4-Bromofluorobenzene	98.1	79-118	%	08/16/2005 10:15	
1,2-Dichloroethane-d4	83.5	78-117	%	08/16/2005 10:15	
Toluene-d8	98.1	77-121	%	08/16/2005 10:15	

Halogenated Volatile Organic Compounds by 8021B/8260B

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Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/08/15-1A.60**

LCS 2005/08/15-1A.60-019 Extracted: 08/15/2005 Analyzed: 08/15/2005 11:19
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chlorobenzene	20.9		20	104.5			61-121	20		
1,1-Dichloroethene	18.1		20	90.5			65-125	20		
Trichloroethene	18.0		20	90.0			74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	522		500	104.4			79-118			
1,2-Dichloroethane-d4	413		500	82.6			78-117			
Toluene-d8	495		500	99.0			77-121			

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/08/16-1A.60**

LCS 2005/08/16-1A.60-042 Extracted: 08/16/2005 Analyzed: 08/16/2005 09:42
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chlorobenzene	21.1		20	105.5			61-121	20		
1,1-Dichloroethene	17.8		20	89.0			65-125	20		
Trichloroethene	16.6		20	83.0			74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	500		500	100.0			79-118			
1,2-Dichloroethane-d4	427		500	85.4			78-117			
Toluene-d8	509		500	101.8			77-121			

Halogenated Volatile Organic Compounds by 8021B/8260B

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Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/08/15-1A.60**

MW-30 >> MS

Lab ID: 2005-08-0212 - 006

MS: 2005/08/15-1A.60-026 Extracted: 08/15/2005 Analyzed: 08/15/2005 14:26
Dilution: 10.00

MSD: 2005/08/15-1A.60-059 Extracted: 08/15/2005 Analyzed: 08/15/2005 14:59
Dilution: 10.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Chlorobenzene	175	186	ND	200	87.5	93.0	6.1	61-121	20		
1,1-Dichloroethene	144	165	0.62	200	71.7	82.2	13.6	65-125	20		
Trichloroethene	144	155	4.48	200	69.8	75.3	7.6	74-134	20	M5	
Surrogate(s)											
4-Bromofluorobenzene	531	513		500	106.2	102.6		79-118			
1,2-Dichloroethane-d4	432	464		500	86.5	92.9		78-117			
Toluene-d8	515	514		500	103.0	102.9		77-121			

Halogenated Volatile Organic Compounds by 8021B/8260B

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Project: 098179.305
Conoco Phillips Site#0201

Received: 08/05/2005 09:30

Site: 1200 Railroad Ave., Eureka, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/08/16-1A.60**

MS/MSD

Lab ID: 2005-08-0197 - 002

MS: 2005/08/16-1A.60-055 Extracted: 08/16/2005 Analyzed: 08/16/2005 11:55
Dilution: 10.00

MSD: 2005/08/16-1A.60-028 Extracted: 08/16/2005 Analyzed: 08/16/2005 12:28
Dilution: 10.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Chlorobenzene	201	209	ND	200	100.5	104.5	3.9	61-121	20		
1,1-Dichloroethene	178	176	ND	200	89.0	88.0	1.1	65-125	20		
Trichloroethene	167	176	2.2	200	82.4	86.9	5.3	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	485	479		500	96.9	95.7		79-118			
1,2-Dichloroethane-d4	411	417		500	82.2	83.3		78-117			
Toluene-d8	497	499		500	99.3	99.9		77-121			

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Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits. See blank spike (LCS).