<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

Release Notification and Corrective Action

				C)PE	ERATOR		Initial	Repo	rt 🛛 Final Report
Name of Company ConocoPhillips Company						Contact		arrington		
Address 3401 E. 30 th St., Farmington, NM 87402					_	Telephone No				
Facility Nan						Facility Type				API # 30-039-06327
Surface Own	ner	Jicarilla Tr	ibe	Mineral Ow	ner	Jicarilla	a Tribe	Leas	se No	Jicarilla Tribe
						N OF REL				
Unit Letter	Section	Township			Nort	th/South Line	Feet from the	East/West L		County
D	26	T26N	R04W	1130'		North	1055'	West		Rio Arriba
	Latitude36.4616600° N Longitude107.21812° W									
				NATU		OF RELE			ı	
		duced Wat					ease – 11 BBL			me Recovered - 0 BBL
Source of Re	lease Pro	duction Ta	ınk leak			Date and Hour 11/12/09	of Occurrence			and Hour of Discovery 2/09
Was Immedia	ite Notice (Given?			-	If YES, To Wh	nom?		1 1/1	2103
vi us illillouit	ito riotico i		res 🗌 No	☐ Not Require			be – Dixon Sa	ındoval via	a pho	ne message
By Whom?			ok-Cowde	n		Date and Hour – 11/13/09 – 10:00 a.m.				
Was a Watero	course Read					If YES, Volume Impacting the Watercourse				
If a Wataraay	rea was Im	pacted, Descr	Yes N	0						
				oken * Annro	vim	ately 11 RR	l of produced	l water wa	e enil	led to the ground as a
										shut in and the hole
				produced w				,,cc		
								n tank will	be in	spected & repaired.
										tandards set forth in
							es; therefore			
										nt to NMOCD rules and
										es which may endanger e the operator of liability
										urface water, human health
										pliance with any other
federal, state,	federal, state, or local laws and/or regulations									
Signature:	Kelön	Harrington	-				OIL CONS	<u>ERVATIO</u>	<u>DN D</u>	<u>IVISION</u>
Printed Name	Printed Name: Kelsi Harrington									
Timed Hame					_	Approved by I	District Supervisor	r. 021	00	<u>U</u>
Tıtle	Env	vironmenta	l Consulta	nt		Approval Date	1-26-11	Expirat	ion Da	te
F-mail Addre	se kalei	a harringto	n @conoc	ophillips.con	, [Conditions of	Approval			_
D-man Addit	os Keleli	garan mgto	(0,001100	- primips.com	" -		• •			Attached
Date 1	/25/11	F	hone 505 -	326-95493		NIX	1122339	042		

* Attach Additional Sheets If Necessary





August 19, 2010

Project No. 96052-1680

Phone: (505) 599-3403

Cell: (505) 320-2461

Ms. Kelsi Harrington ConocoPhillips 3401 East 30th Street Farmington, New Mexico 87401

RE: SPILL ASSESSMENT DOCUMENTATION FOR THE JICARILLA B #9A WELL SITE, RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for spill assessment activities conducted due to the release of approximately eleven (11) barrels of produced water from a leaking above ground storage tank (AST) at the Jicarilla B #9A well site located in Section 26, Township 26N, Range 4W, Rio Arriba County, New Mexico. Because the site is on the Jicarilla Apache Indian Reservation, the cleanup standard for the site was 100 ppm total petroleum hydrocarbons (TPH) and 100 ppm organic vapors.

Prior to Envirotech's arrival on April 30, 2010, the leaking AST had been removed and a new AST had been installed. One (1) composite sample was collected from within the bermed area around the new AST; see enclosed Site Map and Field Notes. The sample was analyzed in the field for TPH via USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The sample returned results above the regulatory standards of 100 ppm TPH and 100 ppm organic vapors; see enclosed *Analytical Results*. Therefore, excavation was required.

Prior to Envirotech's return on July 14, 2010, M & M Trucking had excavated the area of release to extents of approximately 20 feet by 22 feet by four (4) feet deep. Five (5) composite samples were collected from the excavation - one (1) sample from the bottom at four (4) feet below ground surface (BGS) and one (1) sample from each of the four (4) walls. The samples were analyzed in the field for TPH via USEPA Method 418.1 and for organic vapors using a PID. All of the samples returned results below the cleanup standard for organic vapors. The samples collected from the south wall and east wall returned results below the cleanup standard for TPH, but the samples collected from the bottom at four (4) feet BGS, north wall and west wall returned results above the cleanup standard for TPH; see enclosed Analytical Results. Therefore, further excavation was required.

M & M Trucking proceeded to expand the excavation to the north, west and bottom to final excavation extents of approximately 35 feet by 40 feet by nine (9) feet deep. Three (3) composite samples were collected from the excavation – one (1) sample from the bottom at nine (9) feet BGS, one (1) sample from the north wall and one (1) sample from the west wall. The samples were analyzed in the field for TPH via USEPA Method 418.1 and for organic vapors

ConocoPhillips Jicarilla B #9A Spill Assessment Report Project No. 96052-1680 Page 2

using a PID. All of the samples returned results below the cleanup standard for organic vapors and TPH. Therefore, Envirotech, Inc. recommends no further action in regards to this incident. The excavated soil was disposed of at the TNT disposal facility.

We appreciate the opportunity to be of service. If you have any questions, please do not hesitate to contact our office at (505) 632-0615.

Sincerely,

ENVIROTECH, INC.

Toni McKnight, EFT

Staff Engineer/Geologist

incknight@envirotech-inc.com

Enclosures:

Field Sheets

Site Map

Analytical Results

Cc:

Client File 96052

٦'۱	ien	٠1،



Location No:

Client:	(5	NVITO *05) 632-0615 (8	00) 362-1879	1	C.O.C. No.	2-168	, <u>Ö</u> .:
FIELD REPORT: SPILL CLO	24				PAGE NO: DATE START DATE FINISH		1/\o
QUAD/UNIT: D SEC: 26	TWP: 264 RNG: 46	JPM: NW 14 C		T: NM	ENVIRONME SPECIALIST:	NTAL	14 100
XCAVATION APPROX: DISPOSAL FACILITY:	FT. X.	FT. X REMEDIATIO	F N METHOL	T. DEEP	CUBIC YARD		4
AND USE: AUSE OF RELEASE: LANGE LAN PHEREOGATED APPROXIMATELY:	The second secon	MATERIAL R				dester	Hi61,61.
EPTH TO GROUNDWATER: MOCD RANKING SCORE:	NEAREST WATER SO NMOCD T	OURCE: TPH CLOSURE	STD:	EAREST S	SURFACE WA		.45410g0
OIL AND EXCAVATION DESCRIPTION OF A SECOND OF THE SECOND O	J. Eist Empl	æ. ·		·	,4 - 12 - 4		· · ·
SAMPLE DESCRIPTION TIME	SAMPLE ID. LAB NO.	WEIGHT (g) n	nL FREON L	DILUTION	READING =	CALC. p	pm :
2200 St. 2 - 10:15 Bottom Spection 10:15 North wall Comp 10:48	1200/41/0 BoHom 1 NWEU Z	%00/5 %00/5	200 200		190 580 423	232 p. 1652	
	Swall o	10000	20 20 20	Ч.	9	<u>७</u> ष ७ ७ ५८७	
SPILL PERIMETER	4	OVM RESULTS			SPILL PRO		
1 Sp 11 1 18G	SAMPLE D Rottom Nicall S wall W Wall	FIELD HEADS (ppm)) 5 pm 5 pm 7 m	26x 7	34.7	deep	المراجعة الم
	SAMPLE ID	AB SAMPLES ANALYSIS	TIME	X X	M. I.	H.	4
				KE JAMI	ile priets		

_CALLED OUT: ONSITE: TRAVEL NOTES:

Client:	C
---------	---



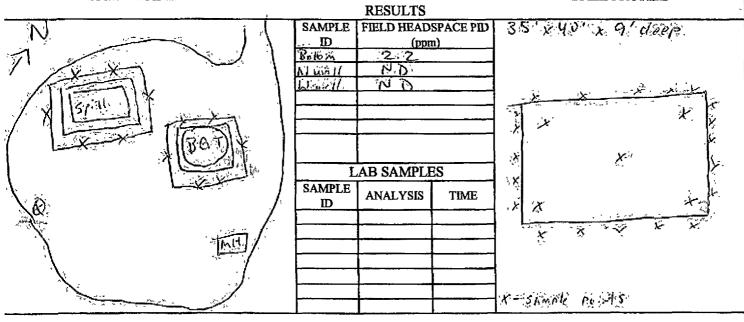
Client:	envirote((505) 632-0615 (800) 362 5798 U.S. Hwy 64, Farmington, N	1879
FIELD REPORT: SPILL CLO	OSURE VERIFICATION	PAGE NO: Z OF 2' DATE STARTED: 7/14/10
OCATION: NAME: J. Car. 118	WELL#: TA	DATE FINISHED: 7/14/10
QUAD/UNIT: SEC: 24 QTR/FOOTAGE: 1 30 N 4= 10=	TWP: ZUN RNG: YW PM: NM PM CNTY: I	ENVIRONMENTAL
EXCAVATION APPROX: 35	FT. X 40 FT. X 9	FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: The T		THOD: Lond floors
AND USE:	LEASE:	LAND OWNER:
EAUSE OF RELEASE: TAJK LEAK	MATERIAL RELEAS	SED: Produced species sweetents 1801
PILE LOCATED APPROXIMATELY:	FROM	wellhood
DÉPTH TO GROUNDWATER:	NEAREST WATER SOURCE:	NEAREST SURFACE WATER:
NMOCD RANKING SCORE:	NMOCD TPH CLOSURE STD:	PPM
OIL AND EXCAVATION DESCRIPTION	N: 100 TPH. closure due	to: Treatible Ster dails
	· · · · · · · · · · · · · · · · · · ·	

SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 Std.	10/15	20058					190	
Bottom Sph Comp	12/10	Botom		<i>E</i> 223	2.0	4	41	44000
N WAU COMP	12 13	Wwall	2	ي	20	ii)·	ч.	"llinger.
Writ Wall Cont	1.2:45	וויחען שו	35.	5	20	- 4	S	2000
the first production of the state of		1. 3 to 1. The second		•		The street of the		

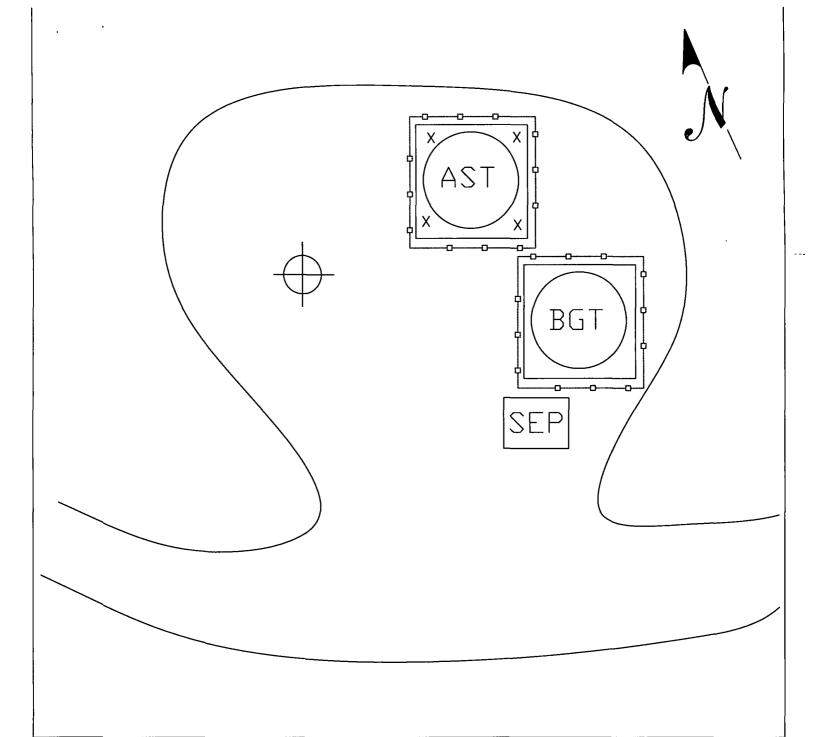
SPILL PERIMETER

OVM

SPILL PROFILE



TRAVEL NOTES: CALLED OUT: ONSITE:



LEGEND

Berm

[Fence

Composite Sample X 418.1 TPH = 1,168 ppm

Site Map

ConocoPhillips
Jicarilla B #9A
Section 26, Township 26N, Range 4W

SCAL	SCALE: NTS PROJECT N096052-1680 FIGURE NO. 2					REV		
PRO.								
			REVISI	ONS		-		
NO.	DATE	BY		DESCRIPTIO)N	<u> </u>		
MAP	DRWN	TLM	DATE	5/6/10				



Table 1, Summary of Analytical Results

ConocoPhillips
Jicarilla B 9A
Confirmation Sampling Report
Project No. 96052-1680

		Sample	PID	USEPA Method 418.1
Date	Sample Description	Number	OV (ppm)	TPH (ppm)
5° (1	Jicarilla Apache Environmental	ž		
NA NA	Protection Office	ar;NA - ∮	100	* 100 · 3 · 4 · 4 · 4
4/30/2010	Composite Around AST	1	2500	1170
7/14/2010	Bottom at 4 feet	2	36.6	2320
7/14/2010	North Wall 1	3	11.1	1690
7/14/2010	South Wall	4	3.3	64
7/14/2010	East Wall	5	ND	36
7/14/2010	West Wall 1	6	8.1	456
7/14/2010	Bottom at 9 feet	7	22	44
7/14/2010	North Wall 2	8	ND	16
7/14/2010	West Wall 2	9	ND	20

^{*}Values in **BOLD** above regulatory limits

^{*}ND - Parameter not detected



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

30-Apr-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
TPH	100		
	182 500 1000	181	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Toni McKnight

Print Name

Sarah Rowland

Print Name



Client:

ConocoPhillips

96052-1680

Sample No.:

Project #:

Sample ID:

5-pt Composite

Date Reported: 6/25/2010

Sample Matrix:

Soil

Date Sampled: 4/30/2010

Preservative:

Cool

Date Analyzed:

Analysis Needed:

4/30/2010 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

1,170

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 182 ppm standard. Zeroed before each sample

Toni McKnight

Printed

Sarah Rowland



Method 418.1 Analysis Log Total Petroleum Hydrocarbons

Date	April 30,2010		-	Analyst	Jon:	Mch	night
Location	Sicarilla B #9A			Instrument	Infra	cals	PID
Job No.	96052-1680		<u>.</u>		·	v 90 - 5	
Sample No.	Sample Description	Weight (g)	mL. Freon	Dilution	Reading	Calc. TPH (ppm)	OVM (ppm)
	5pt composite	5	20	4	292	1168	2500
		·					
,							
,			25	~	to the last		
	· · · · · · · · · · · · · · · · · · ·	, .]			
		•					<u></u>
		e des					
	·	h					h Gra
ا المريدر وا							<u> </u>
		*			46 446 444		***************************************
	Infrare	d Spectroph	otometer Ca	alibration			
	New Freon NA	<u> </u>	· • · · · · · · · · · · · · · · · · · ·	-			
	Date Standards Prepared	NA		-			
	Standar	d Concentra	tion (ppm)				
	100 182- 200	181		500 1000	NA		
	i-Cal RF:	AA		C-Cal RF:	NA		
	RSD: N			% Difference:	NA	/ 4001	
	QA/QC Acceptance Criteria: I-Cal RS	レナ/- 20%		C-	Cal Difference	æ +/- 10%	



Client:

ConocoPhillips

96052-1680

Sample No.:

Project #: Date Reported:

Sample ID:

Bottom at 4 feet

8/2/2010

Sample Matrix:

Soil

Date Sampled: 7/14/2010

Preservative:

Cool

Date Analyzed: Analysis Needed:

7/14/2010 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

2,320

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Review

Scott Gonzales

Printed

Toni McKnight, EIT



Client:

ConocoPhillips

Project #:

96052-1680

Sample No.:

2

Date Reported:

8/2/2010

Sample ID:

North Wall 1

Date Sampled: 7/14/2010

Sample Matrix:

Soil

Date Analyzed:

7/14/2010

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

1,690

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analysi

SI

Review

Scott Gonzales

Printed

Toni McKnight, EIT



Client:

ConocoPhillips

96052-1680

Sample No.:

3

Sample ID:

South Wall

8/2/2010

Sample Matrix:

Soil

Date Sampled:

7/14/2010

Preservative:

Cool

Date Analyzed: Analysis Needed:

Date Reported:

Project #:

7/14/2010 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

64

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Printed

Scott Gonzales

Printed

Toni McKnight, EIT

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc com envirotech-inc com



Client:

ConocoPhillips

Project #:

96052-1680

Sample No.:

4

Date Reported:

8/2/2010

Sample ID:

East Wall Soil

Date Sampled:

7/14/2010

Sample Matrix: Preservative:

Cool

Date Analyzed: Analysis Needed: 7/14/2010 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

36

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 200 ppm standard. Zeroed before each sample

-Analyst

Review

Scott Gonzales

Printed

Toni McKnight, EIT



Client:

ConocoPhillips

96052-1680

Sample No.:

Sample ID:

Date Reported: 8/2/2010

Sample Matrix:

West Wall 1

7/14/2010

Preservative:

Soil

Date Sampled: Date Analyzed: Analysis Needed:

Project #:

7/14/2010 TPH-418.1

Condition:

Cool Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

456

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Scott Gonzales

Printed

Toni McKnight, EIT



Client:

ConocoPhillips

96052-1680

Sample No.:

6

- 12 12 2 2 2

Sample ID:

Bottom at 9 feet

8/2/2010

Sample Matrix:

Soil

Date Sampled: Date Analyzed:

Date Reported:

Project #:

7/14/2010 7/14/2010

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

	,	Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

44

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 200 ppm standard. Zeroed before each sample

-Analysi

Scott Gonzales

Printed

Toni McKnight, EIT



Client:

ConocoPhillips

96052-1680

Sample No.:

Sample ID:

Date Reported: 8/2/2010

North Wall 2

7/14/2010

Sample Matrix:

Soil

Date Sampled: Date Analyzed:

7/14/2010

Preservative:

Cool

Analysis Needed:

Project #:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

16

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Scott Gonzales

Printed

Toni McKnight, EIT



Client:

ConocoPhillips

96052-1680

Sample No.:

Project #: Date Reported:

8/2/2010

Sample ID:

West Wall 2

Date Sampled: 7/14/2010

Sample Matrix:

Soil

Date Analyzed:

7/14/2010

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

20

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla B 9A

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Review

Scott Gonzales

Printed

Toni McKnight, EIT



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

14-Jul-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	197	190	
	500		
	1000		

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Sett D. D.	8/2/2010
Analyst	Date
Scott Gonzales	
Print Name	
Toni Manualist	8/2/2010
Review	Date
Toni McKnight, EIT	

Print Name