

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Williams Production	Contact Michael K. Lane
Address PO Box 640	Telephone No. 505-634-4219
Facility Name Rosa 208 (API: 30-039-24654)	Facility Type Well Site

Surface Owner Bureau of Reclamation	Mineral Owner BLM	Lease No.
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LOCATION OF RELEASE

Unit Letter N	Section 15	Township 31 N	Range 06W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba RCVD MAR 4 '09
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Latitude 36.89520 Longitude -107.45346

OIL CONS. DIV.
DIST. 3

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release ~200 bbl	Volume Recovered ~100 bbl
Source of Release Produced Water Tank	Date and Hour of Occurrence 2/18/09 >11:45 AM	Date and Hour of Discovery Same
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell NMOCD, NRC #897884, Mark Kelly BLM, Mike Dombrowski BOR	
By Whom? Myke Lane	Date and Hour 2/18/09 ~12:00 – 12:45 PM	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume Impacting the Watercourse. ~70 bbls in Navajo Reservoir	

If a Watercourse was Impacted, Describe Fully.

Water from production tank washed out berm, traveled offsite down steep slope to lake. No oil sheen and no apparent salt impact.

Describe Cause of Problem and Remedial Action Taken.

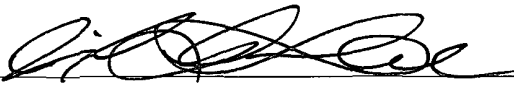
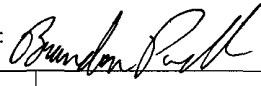
Water hauler failed to properly close valve and did not install plug (required spill prevention procedure). Valve allowed produced water to fill secondary containment. Berms were weakened due to winter weather and water washed out berm traveling offsite. Release detected by well pumper while checking tank levels on remote automation (Cygnet) system,

Upon discovery, well shutin, containment and tank drained, water offsite bermed off to limited water to lake, collected soil samples along impacted area and of produced water and lake. Williams met with water hauling contractor (SSS) and has implemented a no tolerance policy related to use of plugs. Williams is inspecting the integrity and condition of all tank secondary containments.

Describe Area Affected and Cleanup Action Taken.

Water traveling offsite stayed in a small drainage for approximately 140 feet to a culvert crossing, then traveled 150 feet in a stream down to the lake. Sampling of water and soils indicated minimal impact from hydrocarbons and/or salts. Results attached.

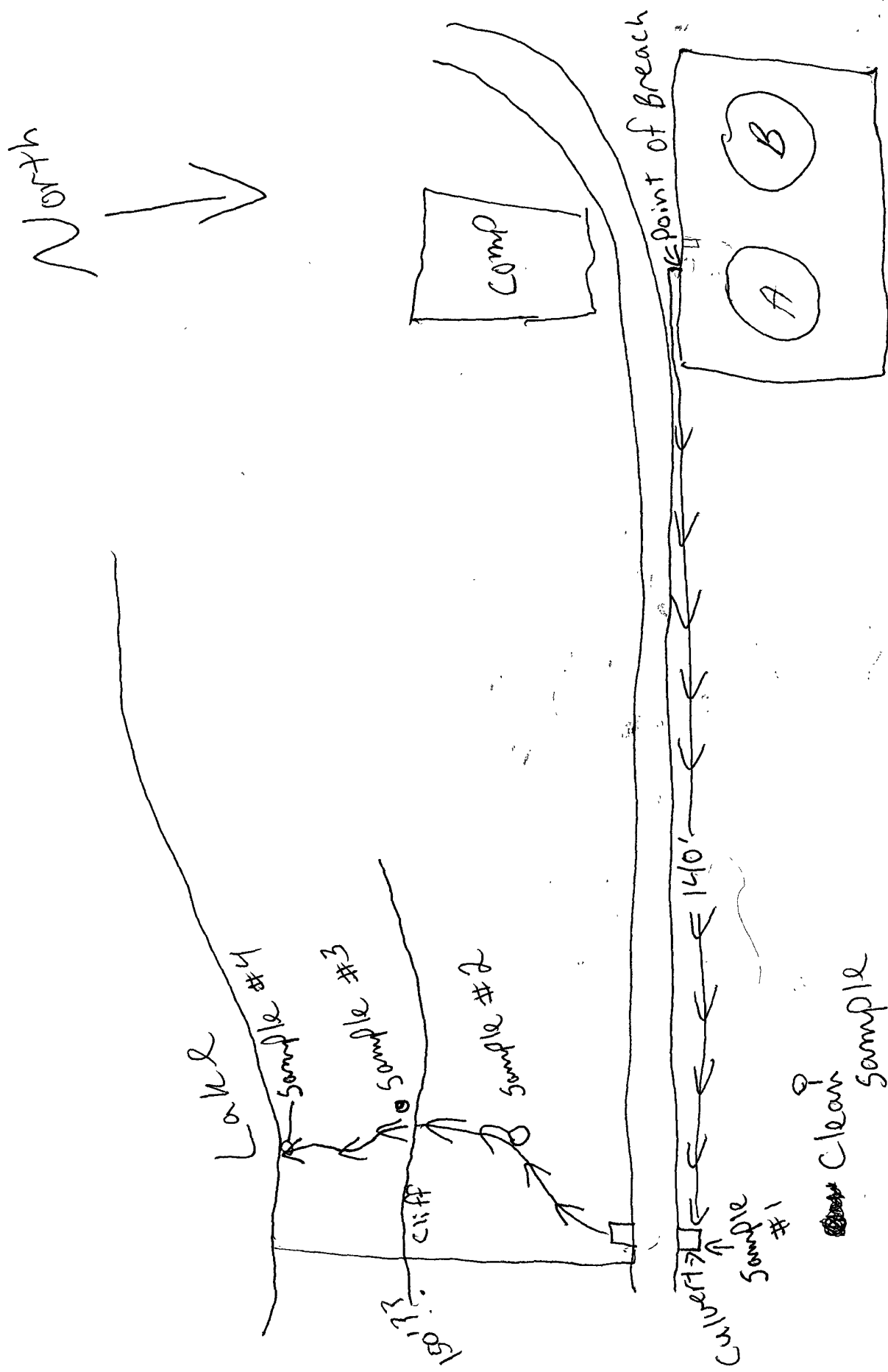
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Michael K. Lane	Approved by District Supervisor: 	
Title: SJB EH&S Specialist	Approval Date: 3/4/09	Expiration Date:
E-mail Address: myke.lane@williams.com	Conditions of Approval:	Attached ☐
Date: 3/02/09 Phone: (505) 330-3198		

* Attach Additional Sheets If Necessary

nBP0918949135

Rosa 208



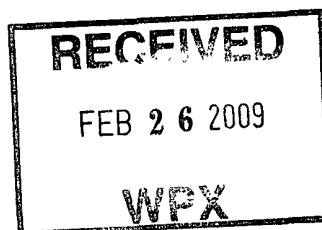
Lab Summary
Rosa 208 2-18-09 Spill

Sample	Date	Matrix	Description	TPH (8015) (ppm)	Benzene (ppm)	BTEX (ppm)	pH (su)	TDS (ppm)	EC (uhos/cm)	SAR (ratio)	Cl (ppm)
#1	39863	Soil	At Culvert Crossing	9.9	0.0035	0.319	6.85		120	0.02	3.13
#2	39863	Soil	1/2 down slope				7		88	0.001	5.8
#3	39863	Soil	Cliff				7.28		976	1.94	190
#4	39863	Soil	Before Lake	8.5	0.01	0.0915	8.7		1210	9.69	260
Clean	39863	Soil	Background on slope to lake				7.55		57.4	0.002	0.161
Lake	39863	water	"@spill entry				7.7	156	321	0.9	4.54
Prod Tk	39863	water	From tank drain				8.42	10900	18000	194	2860



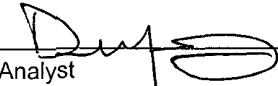
Client:	WPX	Project #:	04108-0003
Sample ID:	Above Colvort #1	Date Reported:	02-23-09
Laboratory Number:	49034	Date Sampled:	02-19-09
Chain of Custody:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Extracted:	02-20-09
Preservative:	Cool	Date Analyzed:	02-20-09
Condition:	Cool & Intact		

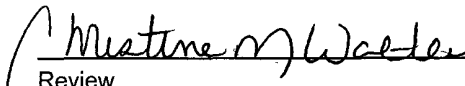
Parameter	Analytical Result	Units
pH	6.85	su
Conductivity @ 25° C	120	umhos/cm
Calcium	28.0	mg/Kg
Magnesium	<0.1	mg/Kg
Sodium	0.334	mg/Kg
Sodium Absorption Ratio (SAR)	0.02	ratio
Chloride	3.13	mg/Kg



Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Rosa #208.


Analyst


Review



Client:	WPX	Project #:	04108-0003
Sample ID:	1/2 Down #2	Date Reported:	02-23-09
Laboratory Number:	49035	Date Sampled:	02-19-09
Chain of Custody:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Extracted:	02-20-09
Preservative:	Cool	Date Analyzed:	02-20-09
Condition:	Cool & Intact		

Parameter	Analytical Result	Units
pH	7.00	su
Conductivity @ 25° C	88.0	umhos/cm
Calcium	31.2	mg/Kg
Magnesium	<0.1	mg/Kg
Sodium	0.020	mg/Kg
Sodium Absorption Ratio (SAR)	0.001	ratio
Chloride	5.80	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Rosa #208.

Analyst

Review



Client:	WPX	Project #:	04108-0003
Sample ID:	Cuff #3	Date Reported:	02-24-09
Laboratory Number:	49036	Date Sampled:	02-19-09
Chain of Custody:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Extracted:	02-23-09
Preservative:	Cool	Date Analyzed:	02-24-09
Condition:	Cool & Intact		

Parameter	Analytical Result	Units
pH	7.28	su
Conductivity @ 25° C	976	umhos/cm
Calcium	33.6	mg/Kg
Magnesium	164	mg/Kg
Sodium	123	mg/Kg
Sodium Absorption Ratio (SAR)	1.94	ratio
Chloride	190	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Rosa #208.

Analyst

Review

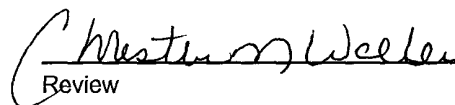
Client:	WPX	Project #:	04108-0003
Sample ID:	Before #4	Date Reported:	02-24-09
Laboratory Number:	49037	Date Sampled:	02-19-09
Chain of Custody:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Extracted:	02-23-09
Preservative:	Cool	Date Analyzed:	02-24-09
Condition:	Cool & Intact		

Parameter	Analytical Result	Units
pH	8.70	su
Conductivity @ 25° C	1,210	umhos/cm
Calcium	28.0	mg/Kg
Magnesium	2.93	mg/Kg
Sodium	202	mg/Kg
Sodium Absorption Ratio (SAR)	9.69	ratio
Chloride	260	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Rosa #208.


Analyst


Review



Client:	WPX	Project #:	04108-0003
Sample ID:	Clean	Date Reported:	02-23-09
Laboratory Number:	49038	Date Sampled:	02-19-09
Chain of Custody:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Extracted:	02-20-09
Preservative:	Cool	Date Analyzed:	02-20-09
Condition:	Cool & Intact		

Parameter	Analytical Result	Units
pH	7.55	su
Conductivity @ 25° C	57.4	umhos/cm
Calcium	20.4	mg/Kg
Magnesium	<0.1	mg/Kg
Sodium	0.033	mg/Kg
Sodium Absorption Ratio (SAR)	0.002	ratio
Chloride	0.161	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Rosa #208.

Analyst

Review



Client: WPX
Sample ID: Lake Water
Laboratory Number: 49039
Chain of Custody: 6383
Sample Matrix: Aqueous
Preservative: Cool
Condition: Intact

Project #: 04108-0003
Date Reported: 02-23-09
Date Sampled: 02-19-09
Date Received: 02-20-09
Date Extracted: N/A
Date Analyzed: 02-20-09

Parameter	Analytical Result	Units	RECEIVED FEB 26 2009 WPX	
pH	7.77	s.u.		
Conductivity @ 25° C	321	umhos/cm		
Total Dissolved Solids @ 180C	156	mg/L		
Total Dissolved Solids (Calc)	154	mg/L		
SAR	0.9	ratio		
Total Alkalinity as CaCO3	100.0	mg/L		
Total Hardness as CaCO3	81.1	mg/L		
Bicarbonate as CaCO3	100.0	mg/L	1.64	meq/L
Carbonate as CaCO3	<0.1	mg/L	0.00	meq/L
Hydroxide as CaCO3	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.303	mg/L	0.00	meq/L
Nitrite Nitrogen	0.003	mg/L	0.00	meq/L
Chloride	4.54	mg/L	0.13	meq/L
Fluoride	0.191	mg/L	0.01	meq/L
Phosphate	0.433	mg/L	0.01	meq/L
Sulfate	35.2	mg/L	0.73	meq/L
Iron	0.032	mg/L	0.00	meq/L
Calcium	28.0	mg/L	1.40	meq/L
Magnesium	2.70	mg/L	0.22	meq/L
Potassium	2.56	mg/L	0.07	meq/L
Sodium	19.4	mg/L	0.84	meq/L
Cations			2.53	meq/L
Anions			2.53	meq/L
Cation/Anion Difference			0.00%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Rosa #208.

Analyst

Review



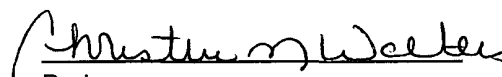
Client:	WPX	Project #:	04108-0003
Sample ID:	Prod. Wtr Tk	Date Reported:	02-23-09
Laboratory Number:	49040	Date Sampled:	02-19-09
Chain of Custody:	6383	Date Received:	02-20-09
Sample Matrix:	Aqueous	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	02-20-09
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	8.42	s.u.		
Conductivity @ 25° C	18,000	umhos/cm		
Total Dissolved Solids @ 180C	10,900	mg/L		
Total Dissolved Solids (Calc)	11,108	mg/L		
SAR	194	ratio		
Total Alkalinity as CaCO3	6,460	mg/L		
Total Hardness as CaCO3	88.1	mg/L		
Bicarbonate as CaCO3	6,460	mg/L	105.88	meq/L
Carbonate as CaCO3	<0.1	mg/L	0.00	meq/L
Hydroxide as CaCO3	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.070	mg/L	0.00	meq/L
Nitrite Nitrogen	0.014	mg/L	0.00	meq/L
Chloride	2,860	mg/L	80.68	meq/L
Fluoride	0.600	mg/L	0.03	meq/L
Phosphate	5.69	mg/L	0.18	meq/L
Sulfate	1.58	mg/L	0.03	meq/L
Iron	0.602	mg/L	0.02	meq/L
Calcium	5.10	mg/L	0.25	meq/L
Magnesium	18.4	mg/L	1.51	meq/L
Potassium	95.7	mg/L	2.45	meq/L
Sodium	4,200	mg/L	182.70	meq/L
Cations			186.92	meq/L
Anions			186.81	meq/L
Cation/Anion Difference			0.06%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Rosa #208.**

Analyst 


Review



Client:	WPX	Project #:	04108-0003
Sample ID	Above Colvort #1	Date Reported:	02-23-09
Laboratory Number:	49034	Date Sampled:	02-19-09
Chain of Custody:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Analyzed:	02-23-09
Preservative:	Cool	Date Extracted:	02-20-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3.5	0.9
Toluene	51.0	1.0
Ethylbenzene	117	1.0
p,m-Xylene	92.2	1.2
o-Xylene	55.2	0.9
Total BTEX	319	

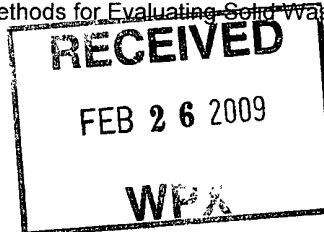
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa #208.



Analyst

Review



Client:	WPX	Project #:	04108-0003
Sample ID:	Before #4	Date Reported:	02-23-09
Laboratory Number:	49037	Date Sampled:	02-19-09
Chain of Custody:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Analyzed:	02-23-09
Preservative:	Cool	Date Extracted:	02-20-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	10.0	0.9
Toluene	29.4	1.0
Ethylbenzene	9.1	1.0
p,m-Xylene	26.0	1.2
o-Xylene	17.0	0.9
Total BTEX	91.5	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References. Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa #208.

Analyst

Review

Client:	N/A	Project #	N/A
Sample ID	02-23-BT QA/QC	Date Reported:	02-23-09
Laboratory Number:	49034	Date Sampled	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-23-09
Condition	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	6 7198E+004	6 7333E+004	0.2%	ND	0.1
Toluene	4 7914E+004	4 8010E+004	0.2%	ND	0.1
Ethylbenzene	4 0838E+004	4 0920E+004	0.2%	ND	0.1
p,m-Xylene	9 2788E+004	9 2974E+004	0.2%	ND	0.1
o-Xylene	4 0567E+004	4 0648E+004	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	3.5	3.8	8.6%	0 - 30%	0.9
Toluene	51.0	47.9	6.1%	0 - 30%	1.0
Ethylbenzene	117	109	7.1%	0 - 30%	1.0
p,m-Xylene	92.2	89.9	2.5%	0 - 30%	1.2
o-Xylene	55.2	49.7	10.0%	0 - 30%	0.9

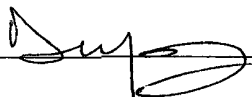
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	3.5	50.0	56.5	106%	39 - 150
Toluene	51.0	50.0	104	103%	46 - 148
Ethylbenzene	117	50.0	169	101%	32 - 160
p,m-Xylene	92.2	100	196	102%	46 - 148
o-Xylene	55.2	50.0	99.1	94%	46 - 148

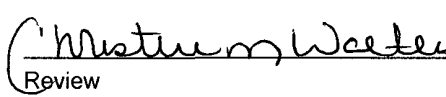
ND - Parameter not detected at the stated detection limit.

References Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments: **QA/QC for Samples 49020 - 49023, 49025 - 49026, 49031, 49033, 49034 and 49037.**

Analyst 

Review 



envirotech
Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

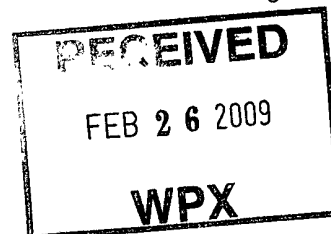
Client:	WPX	Project #:	04108-0003
Sample ID:	Above Colvort #1	Date Reported:	02-23-09
Laboratory Number:	49034	Date Sampled:	02-19-09
Chain of Custody No:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Extracted:	02-20-09
Preservative:	Cool	Date Analyzed:	02-23-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.7	0.2
Diesel Range (C10 - C28)	6.2	0.1
Total Petroleum Hydrocarbons	9.9	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Rosa #208.**



Analyst

Review



envirotech
Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	WPX	Project #:	04108-0003
Sample ID:	Before #4	Date Reported:	02-23-09
Laboratory Number:	49037	Date Sampled:	02-19-09
Chain of Custody No:	6383	Date Received:	02-20-09
Sample Matrix:	Soil	Date Extracted:	02-20-09
Preservative:	Cool	Date Analyzed:	02-23-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.8	0.2
Diesel Range (C10 - C28)	6.7	0.1
Total Petroleum Hydrocarbons	8.5	0.2

ND - Parameter not detected at the stated detection limit.

References. Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Rosa #208.**

Analyst

Review



**EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-23-09 QA/QC	Date Reported:	02-23-09
Laboratory Number:	49034	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-23-09
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.8029E+002	9.8069E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0207E+003	1.0211E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	3.7	3.5	5.4%	0 - 30%
Diesel Range C10 - C28	6.2	6.7	8.1%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	3.7	250	252	99.2%	75 - 125%
Diesel Range C10 - C28	6.2	250	252	98.4%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 49020 - 49023, 49025 - 49026, 49033, 49034 and 49037.

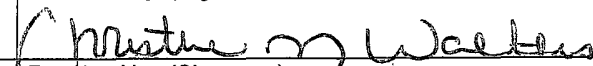
Analyst

Review

CHAIN OF CUSTODY RECORD

6383

RUSH

Client: WPX		Project Name / Location: Rosa 208				ANALYSIS / PARAMETERS															
Client Address: MIKE LANE		Sampler Name: MATT BASIE																			
Client Phone No.: 330 3198		Client No.: 4205 04108-003																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	SAR, EC, pH	Sample Cool	Sample Intact	
ADAMS CREEK #1		1501	49034	Soil Sludge Aqueous	1			☒	☒								☒	☒		☒	☒
1/2 DOWN #2		1505	49035	Soil Sludge Aqueous	1												☒	☒		☒	☒
LF #3		1509	49036	Soil Sludge Aqueous	1												☒	☒		☒	☒
EGGERS #4		1512	49037	Soil Sludge Aqueous	1			☒	☒								☒	☒		☒	☒
LEAH		1515	49038	Soil Sludge Aqueous	1												☒	☒		☒	☒
LAKE WATER		1513	49039	Soil Sludge Aqueous	1							☒								☒	☒
POND WATER		1457	49040	Soil Sludge Aqueous	1							☒								☒	☒
				Soil Sludge Aqueous																	
				Soil Sludge Aqueous																	
				Soil Sludge Aqueous																	
Relinquished by: (Signature) 				Date	Time	Received by: (Signature) 				Date	Time										
Relinquished by: (Signature)						Received by: (Signature)															
Relinquished by: (Signature)						Received by: (Signature)															



ENVIROTECH INC.

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FEB 26 2009