District I
d625 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												
_30-0	045-	26406				OPERA?	<b>FOR</b>		☐ Initi	al Report	X	Final Report
Name of Co	<del>`</del>			tion Corp		Contact	Kurt 1					
Address		2.0. Box				Telephone N						
Facility Nar	ne Ra:	inbow S	<u>eeker</u>	#1	1	acility Typ	e Perman	nent	Pit			
Surface Ow	ner J	Private		Mineral C	Owner	Privat	е	,	Lease N	lo. FEE		
				LOCA	ATION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/\	West Line	County		
G	29	31N	13W	1510	N	orth	1450	Ea	st	San	Juar	n
			La		439 N	J Longitud	le 108 223	9 W		L		
Latitude 36.87439 N Longitude 108.2239 W												
NATURE OF RELEASE  Type of Release												
	ease Belo	ow grade	perman	ent pit re	lease		lour of Occurrence			Hour of Dis		
Was Immedia		Given?				If YES, To		***				
			Yes L	No 🛚 Not Re	equired			n.				
By Whom?						Date and H				•		
Was a Watero	course Reac		Yes X	l No		If YES, Vo	lume Impacting	the Wate				444
10 - 11/										RCVD H	<b>R 14</b>	11
If a Watercou	rse was im	pacted, Descr	ibe Fully.	•						OIL CO	4S. DI	V.
N/A										DIS	Г. З	
	_											
Describe Cau	se of Proble	em and Reme	dial Action	ı Taken.*								
During pe	rmanent	pit clo	sure a	chloride	and TE	PH impac	t were disc	cover	ed. A	five-po	oint o	composite
				ide and 10				d the	thresh	nold lim	nits (	of
L			_	reliminary	_							
Describe Are	a Affected	and Cleanup A	Action Tak	en.* Contamir alysis data,	nation	was addr	essed under	the '	'spill r	ule" 19	15.30	o of
				alysis data, then re-samp								
Chloride a	ind 31-m	g/kg TPH	(8015 M	thd). The Ch	nloride	and TPH	releases d	o not	pose a	threat t	o gro	undwater
				"Final" C-1								
				is true and comp id/or file certain r								
				ce of a C-141 repo								
				investigate and r								
federal state.	iment. In a or local lay	ddition, NMC ws and/or regi	OCD accepulations	tance of a C-141	report do	es not reliev	e the operator of	respons	ibility for c	ompliance v	with any	other
, , , , , , , , , , , , , , , , , , , ,	/ >	/		<i>-</i> /\			OIL CON	SERV	'ATION	DIVISION	ON	
Signatura	Kunt	F Fam		(1)						_	<del></del>	
Signature:	INVI	109			$\longrightarrow$ ,	Innrawad hu	District Supervis	/	01/	2.1		
Printed Name	: Kurt	Fagrel	ius			spproved by	District Supervis	0.0	al st	M	***	
Title:	VP E	xplorat	ion		A	Approval Da	te: 3/14/11		Expiration	Date:		
E-mail Addre	ss: kfag:	relius@du	ıganpro	duction.co	om (	Conditions of	f Approval:			Attached		
Data	3/10/2	2011	Dhana	EAE 20E 10	21	NTKI	1122138	710		/ Macrice		
Date: * Attach Addi			arv	505-325-18	∠⊥	11011	1144120	ПО		1		



August 17, 2010

MIKE SANDOVAL

**DUGAN PRODUCTION** 

P. O. BOX 420

FARMINGTON, NM 87499

RE: PIT CLOSURES

Enclosed are the results of analyses for samples received by the laboratory on 08/10/10 9:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celegi Keine



### Analytical Results For:

**DUGAN PRODUCTION** MIKE SANDOVAL P. O. BOX 420 FARMINGTON NM, 87499 Fax To. (505) 327-4043

Received: Reported: 08/10/2010

08/17/2010

Project Name:

PIT CLOSURES

Project Number: Project Location: RAINBOW SEEKER #1 TANK PIT

NOT GIVEN

Sampling Date:

08/05/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: RAINBOW SEEKER #1 (H020598-01)

BTEX 8021B	mg	/kg	Analyze	ed By: ZL					
Analyte	Result	Reporting Limit	Analyzeri	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene+	<0.050 0.050		08/13/2010	2010 ND		91.7	1.00	7.96	
Toluene <sup>+</sup>	< 0.050	0.050	08/13/2010	ND	0.981	98.1	1.00	16.9	
Ethylbenzene <sup>1</sup>	< 0.050	0.050	08/13/2010	ND	0.977	97.7	1.00	4.07	
Total Xylenes <sup>1</sup>	<b>~</b> 0.150	0.150	08/13/2010	ND	3.15	105	3.00	5.79	
Surrogate 4-Bromofluorobenzene (PH	117	% 80-120	)						
Chloride, SM4500CI-B	mg,	mg/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/11/2010	ND	432	108	400	0.00	
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% kecovery	True Value QC	RPD	Qualitier
TPH 418.1	108	100	08/12/2010	ND	970	95.1	1020	1.82	
TPH 8015M	mg,	'kg	Analyze	d By: AB					QM-05
Analyte	Result	Reporting Limit	Analyzed	Methori Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	0.01	08/11/2010	ND	162	80.8	200	0.217	
DRO >C10-C28	122	10.0	08/11/2010	ND	163	81.5	200	1.77	
Surrogate 1-Chlorooctane	80 5	%. = 70-130							
Surrogate 1-Chlorooctadecane	83.4	% 70-130							

### Cardinal Laboratories

"=Accredited Analyte

Appear for the country of the country and the country of the count



### **Notes and Definitions**

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable

MD Analyte NOT DEFECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

11 Insufficient time to reach temperature

Chloride by SM4S00Cl-B does not require samples be received at or below 6°C.

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories '=Accredited Analyte

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Cercy & trune -

GREEN Analytical
------------------

Analytical Laboratories

Client: Jugan Jed

Contact: Mike Sandova/

Address.

Phone Number: 330-0929

FAX Number

# CHAIN OF CUSTODY RECORD

Page	of	

MOILS	N	0	Ţ	ES
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- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

PO# La abou seeker

Table 1. – Matrix Type

1 = Surface Water, 2 = Ground Water

3 = Soil/Sediment, 4 = Rinsate, 5 = Oil

6 = Waste, 7 = Other (Specify)

Samplers Signature:

FOR GAL USL ONLY
GAL JOB #

Lab Name: Green Anal	lytical Labor	ratories	(9	70) 24	7-4220	) F	4X (9	970)	247-	4227	,				An	alyse	es Re	eauir	red					
	Street, Duran																			{				
	Collection Miscellaneous Preservative(s)							(s)																
Sample ID H20598 Rajabow Speker #1	Date	Time	Collected by: (Init)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HINO3	HCL	H2SO4	NAOH	Other (Specify)	Tank Pix	BTEY,	1.814 HOT	TIPH SOIS	ر ر						Comme	ents
Ranbow speker 1	8-5-10	11:00		3	1										//									
2.																	İ					ļ	·	
3.																								
4																								
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10.				-		<del>                                     </del>	1					$\dashv$			7		71			-				
Relinquished by:	1///	/	L	Date:	6-	10	Time	471	دم	Recei	ved b		/t	<del>-</del>	$\int_{\Lambda}$	10	<del>/                                    </del>	_			Date:		Tim	e.
Relinquished by	rug		·	Date:			Time	<u> </u>	ی	Rece	veil∕6	L.	1	Te	M	Še	2	<u>د</u>			Date	10	19 Tig	7.30

\* Sample Reject. | | Return [ ] Dispose [ ] Store (30 Days)

5°C CAI #26

Kainhow Seekor #1



Confirmation Sample Ar

January 11, 2011

MIKE SANDOVAL

DUGAN PRODUCTION

P. O. BOX 420

FARMINGTON, NM 87499

RE: PIT CLOSURES

Enclosed are the results of analyses for samples received by the laboratory on 01/05/11 10:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



### Analytical Results For:

**DUGAN PRODUCTION** MIKE SANDOVAL P. O. BOX 420 FARMINGTON NM, 87499 Fax To: (505) 327-4043

Received:

01/05/2011

Sampling Date:

01/04/2011

Reported:

01/11/2011

Soil

Sampling Type:

Cool & Intact

Project Name:

PIT CLOSURES

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

EARTHEN PIT RAINBOW SEEKER #1

Project Location: NOT GIVEN

### Sample ID: RAINBOW SEEKER #1 (H100023-01)

BTEX 8260B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result Reporting Limit <0.100 0.100 <0.100 0.100		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*			01/09/2011	ND	1.87	93.7	2.00	1.13	
Toluene*			01/09/2011	ND	1.89	94.6	2.00	0.641	
Ethylbenzene*	<0.100	0.100	01/09/2011	ND	1.92	95.8	2.00	0.369	
Total Xylenes*	<0.300	0.300	01/09/2011	ND	5.45	90.8	6.00	1.33	
Surrogate Dibromofluoromethane	114	% 80-120							
Surrogate Toluene-d8	104	% 80-120							
Surrogate 4-Bromofluorobenzene	110	% 80-120							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	768	16.0	01/07/2011	ND	432	108	400	0.00	
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	545	100	01/07/2011	ND	1140	114	1000	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	01/10/2011	ND	250	100	250	4.93	
DRO >C10-C28	31.0	10.0	01/10/2011	ND	232	92.8	250	6.25	
Total TPH C6-C28	31.0	10.0	01/10/2011						
Surrogate. 1-Chlorooctane	104	% 70-130							
Surrogate 1-Chlorooctadecane	110	% 70-130							

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses any other cause whatsoever shall be deemed waved unless made in winting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors anising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, methoding, without limitation, butuness interruptions, loss of use, or loss of profits incurred by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related only the temporary and the profounded except in full with written approval of Cardinal Laboratomers.

Celey D. Keine

And	alytical poratories		<u>(</u>	CHA		<u>OF</u>	CI	<u>JS'</u>	<u>TC</u>	<u>)D</u>	Y	RE	EC(	<u>or</u>	<u>RD</u>								Page_	o	of
Client: Magan 9 Contact. Mke So Address.	(Mod.	/	_	NOTES.  1) Ensure proper container packaging  2) Ship samples promptly following collection.  3) Designate Sample Reject Disposition.  Table 1 - Matrix Type  1 = Surface Water, 2 = Ground Water  3 = Soil/Sediment, 4 = Rinsate, 5 = Oil										1	RGALUS										
Phone Number: 330- FAX Number. 33.7	0929 413.	:			signate Ecz/ ct Nam		-					- - - - -	1								- 				
Lab Name: Green Ana	lytical Labor	ratories	(9	970) 24	7-4220	) F.	AX (9	970)	247-	422	7	·	Π		Aı	nalys	es R	.equi	red						
Address: 75 Suttle	Street, Durar	1go, CO 81	303																	T	T				
	Colle	ection		Miscel	laneou	S		Pre	eserv	atıv	e(s)		V			_									
Sample ID  HIDDO 23  Kainfau Sechei F	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOII	Other (Specify)	Earther F.	たのか	10H 418.	10x 4010	7						Cor	nment	S
Kainhau	1-4-11	1:30	<u> </u>	ļ		ļ							_							<u> </u>					
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Relinquished by.	Sar Co			Date.			Time		إحر	7		#44 by:		0	<u>رس</u> که درا	10	<u></u>		<del></del>		Daje	15		Tymy.	15
* Sample Reject.     Return	Dispose	[   Store (3	0 Days)				1			-gr	AA	<u> </u>	<u>v</u>		سري م		50	2	-	_ #	2	6	<u>, e</u>		Page

Page 4 of 4



Invoice Number: 15861

Invoice Date: Dec 31, 2010

Page:

1

Industrial Ecosystems Inc.

P.O. Box 1202 Flora Vista, NM 87415

PH: (505) 632-1782 Fa

Fax: (505) 632-1876

TAX I.D. #94-3200034

PLEASE REMIT PAYMENT TO:

Industrial Ecosystems, Inc.

PO Box 1202

Flora Vista, NM 87415

Sold To: DUGAN PRODUCTION CORP

709 E MURRAY DRIVE

FARMINGTON, NM 87499-0420

Location: MIKE SANDOVAL

**RAINBOW SEEKER #1** 

Contact	Payment Terms	Due Date	Customer PO
MIKE SANDOVAL	Net 30 Days	1/30/11	

Quantity	Description	Unit Price	Extension
1.00 96.00	DATE OF SERVICE: 12/28/10  IEI WO#15417  MATERIAL TRANSPORTED BY RALPH MILLER, D-07/T-75  DISPOSED OF SOIL  CHLORIDE TEST	15.00 17.50	15.00 1,680.00
APPROVED FOR PAY			

# FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782

ACCOUNTS ARE DUE NET 30 DAYS PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES

Subtotal 1,695.00
Sales Tax 107.00
Total Invoice Amount 1,802.00

TOTAL 1,802.00





Invoice Number: 15862

Invoice Date:

Dec<sub>3</sub>1, 2010

Page:

1

Industrial Ecosystems Inc.

P.O. Box 1202 Flora Vista, NM 87415

PH: (505) 632-1782 Fax: (505) 632-1876

TAX I.D. #94-3200034

PLEASE REMIT PAYMENT TO:

Industrial Ecosystems. Inc.

PO Box 1202

Flora Vista, NM 87415

Sold To: DUGAN PRODUCTION CORP

709 E MURRAY DRIVE

**FARMINGTON, NM 87499-0420** 

Location: MIKE SANDOVAL

RAINBOW SEEKER, #1

Contact	Payment Terms	Due-Date	Customer PO
MIKE SANDOVAL	Net 30 Days	1/30/11	

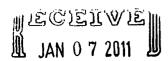
Description	Unit Price	Extension
DATE OF SERVICE: 12/29/10		
IEI WO #15418		
MATERIAL TRANSPORTED BY RALPH MILLER, D-07/T-75		
DISPOSED OF SOIL		
DISPOSAL PER YARD	17.50	420.00
i		
ENT BY		
CORP		
	DATE OF SERVICE: 12/29/10  IEI WO #15418  MATERIAL TRANSPORTED BY RALPH MILLER, D-07/T-75  DISPOSED OF SOIL  DISPOSAL PER YARD	DATE OF SERVICE: 12/29/10  IEI WO #15418  MATERIAL TRANSPORTED BY RALPH MILLER, D-07/T-75  DISPOSED OF SOIL  DISPOSAL PER YARD  17.50

# FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND **COLLECTION CHARGES** 

Subtotal	420.00
Sales Tax	26.51
Total Invoice Amount	446.51

446.51 **TOTAL** 





Invoice Number: 15892

Invoice Date:

Jan 7, 2011

Page:

1

Industrial Ecosystems Inc.

P.O. Box 1202 Flora Vista, NM 87415 PH: (505) 632-1782 Fa:

Fax: (505) 632-1876

TAX I.D. #94-3200034

PLEASE REMIT PAYMENT TO:

Industrial Leosystems, Inc.

PO Box 1202

Flora Vista, NM 87415

Sold To: DUGAN PRODUCTION CORP

709 E MURRAY DRIVE

**FARMINGTON, NM 87499-0420** 

Location: MIKE SANDOVAL RAINBOW SEEKER #1

Contact	Payment Terms	Due Date	Customer PO
MIKE SANDOVAL	Net 30 Days	2/6/11	1 11 15 15 15 15 15 15 15 15 15 15 15 15 15 15

Quantity	Description	Unit Price	Extension
	DATE OF SERVICE: 1/3/11 - 1/4/11		
	IEI WO #154/1		
	MATERIAL TRANSPORTED BY RALPH MILLER, D07		
•	DISPOSED OF CONTAMINATED SOIL		
24.00	DISPOSAL PER YARD	17.50	420.0
; ;			
and an a			
	•		
İ			

# FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES

Subtotal	420.00
Sales Tax	26.51
Total Invoice Amount	446.51

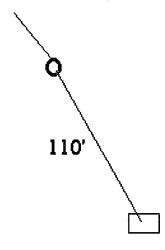
**TOTAL** 

446.51

# Dugan Production Rainbow Seeker #1 Seperator Pit



Reference Point: Well head



10'W X10'L X5'D

From Reference Point Go S. 20 degrees SE. For a Distance of 110' to Center of Pit.

Permanent pit: Rainbow Seeker #1

API number: 30-045-26406

Results of sample analysis on the five-point composite sample collected on the subject permanent pit exceeded limits permissible under the "pit rule" (19.15.17.13.C) (see attached C-141 with analytic results).

The Environmental Bureau of the Oil Conservation Division (OCD) in Santa Fe is hereby provided a C-144 (closure report) and an "initial" C-141 (release notification) with analytic results of soil testing. The closure date on the C-144 (box 21) shows the date that the soil analysis did not meet pit rule standards. Also, this letter hereby provides notice that the subject permanent pit will be closed according to the requirements of the "spill rule" (19.15.30).

The OCD district office in Aztec is hereby provided a copy of the "initial report" C-141 (release notification) with analytic results of soil testing and also notice that the subject permanent pit will be closed according to the requirements of the "spill rule" (19.15.30). Assessment, clean-up and remediation of the reported spill will be done in accordance with the spill rule under the authority of the Aztec District office of the OCD. The "final report" C-141 with photo documentation of site reclamation will be sent to the Aztec District office of the OCD.

Following clean-up of the reported release and determination that the release is not a threat to groundwater contamination, the permanent pit will be closed in accordance with the approved C-144 (closure plan) and will include the following:

- 1. Stockpiled sub-surface soil will be used to backfill pit and re-contour (to a final or intermediate cover that blends with the surrounding topography). A minimum of fourfeet of compacted, non-waste containing, earthen material will be used as backfill.
- 2. Stockpiled surface soil will be used as a cover over the backfilled pit and disturbed area no longer needed for production operations. The soil cover will include either the background thickness of top soil or one-foot of suitable material to establish vegetation at the site whichever is greater. The soil cover will be constructed to the sites existing grade and prevent water collection or ponding and erosion of the cover material.
- 3. Disturbed areas will be seeded the first growing season after the pit is closed. Seeding will be accomplished by drilling on contour whenever possible or by other division approved methods. BLM stipulated seed mixes will be used on all Federal lands and OCD approved seed mixes (administratively approved if required) will be used on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two consecutive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. Seeding or planting will be continued until successful vegetative growth occurs.
- 4. The Aztec District office of the OCD will be notified after each re-seeding operation and after successful re-vegetation has been achieved.

Kurt Fagrelius VP – Exploration. Dugan Production Corp. Farmington, New Mexico 87401 505-325-1821 (O), 505-320-8248 (C) kfagrelius@duganproduction.com

Lease Name:	Rainbow	Seeker #1				
API No.: 30-04	15-26406					
Cita Chaoifia I						
Site Specific I			4 4 9 9 10		1	
Depth to	425-ft	Distance to Surface	1,100-ft	Wellhead Protection Area	6,000-ft	
Groundwater		Water Body		Distance from Water Source		
Total Ranking	Score					
Depth to	Ranking	Distance to Surface	Ranking	Wellhead Protection Area	Ranking Score	Total Ranking
Groundwater	Score	Water Body	Score	Distance from Water Source	Yes =20, No=0	Score
<50-feet	20	<200-feet	20	<1000-feet from water source	0	
50 - 99	10	200 - 1000	10	<200-feet domestic water	0	
>100-feet	0	>1000-feet	0			0
		Total	Dankina	<u> </u>	Commis	
		Ranking Score		Sample		
······································	<u> </u>	>19	10 - 19	0 - 9	Analysis	
Benzene (mg/k	(g)	10 <b>10</b> 10 < <b>0.050</b>				
BTEX (mg/kg)		50	50	50	<0.150	
TPH (mg/kg)		100	1000	5000	108	
Chorides (mg/l	(g)	N.A.	N.A.	N.A.	6000	
Note: Analytic	l al method	l Is used for Benzene S	L W-846, B I	  TEX SW-846, TPH 418.1 and 0 	     Chlorides 4500-C 	1-B.
C-144 ranking	= 0. Chl	oride release does not	t pose a tl	hreat to groundwater contamina	tion.	

J

### Rainbow Seeker #1 Hydrogeologic Report

The Rainbow Seeker #1 is located on Private land on the northwest rim of the San Juan Basin, in San Juan County, New Mexico. The area is characterized as an arid, "badlands" topography bordered on the west by a "hogback" of basin-ward dipping, rock outcrops covered with sage and isolated stands of juniper. To the east is an elevated, flatlying dry mesa with sage and sparse grass. The area is poorly drained by arroyos that drain to the south and eventually into the La Plata River drainage. These arroyos carry minimal amounts of water during seasonal periods of rain and snow melt.

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Rainbow Seeker #1 location (Exhibit 2). Six water wells were located 6,000 - 8,000 feet to the southeast and northeast. The wells were drilled to a depth of between 18 and 500 feet. The depth to ground water was reported from 2 to 70 feet. The wells are all located in the La Plata River valley, an area with irrigation ditches and stock ponds. The results of the search are shown on Exhibit 1.

The main source of water in the region is from irrigation water that is taken from the La Plata River and transported in unlined ditches to fields south and east (1-1/2-2 miles) of the below grade tank. Ground water may be encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 20-70 feet below the surface. However, the below grade tank is not located in an arroyo; the closest arroyo is 1,100-feet to the southwest.

The Nacimiento Formation extends from the surface down to a depth of approximately 780-feet. From surface down to 425-feet the section is comprised of mudstone / shale with traces of silt. There is siltstone at 425-440, 580-600, 660-670 and 720-750 that has very poor reservoir quality but may contain marginal amounts of poor quality water. Shale content in the Nacimiento increases to the west toward the outcrop and recharge area (Stone, 1983).

The Nacimiento can be a source of ground water for livestock purposes and more rarely domestic use in some areas near the outcrop. But at the subject location there are not any sand layers in the section above the 425-foot depth. The Nacimiento is not expected to contain significant quantities of ground water in the area of the proposed below grade tank.

The underlying Ojo Alamo is from 780-858 feet, is very poorly developed in the area and is comprised of three 10-25 foot thick sands that could contain groundwater.

Based on electric open hole logs, the iWATERS database, literature reviewed, depth to ground water ranges from 25 - 50 feet below the surface in and along the major drainages in the area. Moving away from the rivers and washes, ground water depth drops rapidly to greater than 200 feet below the surface. At the location of the subject below grade tank, small amounts of ground water might be found at depths of approximately 425-750 feet from a thin, isolated siltstone stringers in the Nacimiento Formation. A deeper source of ground water would include the Ojo Alamo from 780-858 feet below the surface.

This Hydrogeologic Report was prepared by Mr. Kurt Fagrelius, Geologist for Dugan Production. Mr. Fagrelius has been employed as a geologist for Dugan for the past 31-years, received a MS in Geology from NMIMT in Socorro, NM and a BS in Geology from FLC in Durango, CO.

- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.
- Brown, D.R., and Stone, W.J., 1979, Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.
- Levings, G.W., Craigg, S.D., Dam, W.L. Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, Atlas HA-720-A, Sheet 1 and 2.
- Thorn, C.R., Levings, G.W., Craigg, S.D., Dam, W.L., and Kernodle. J.M., 1990, Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S.G.S, Atlas HA-720-B, Sheet 1 and 2.

H. DUGAN PRODUCTION CORP.

RAINBOWSEEKER#1 FEE LEASE API#30-045-26406 SW/4, NE/4, UNIT G SEC. 29, T31N, R13W LAT. 36°52'28" LONG. 108°13' 24" SAN JUAN COUNTY, NM FOR EMERGENCY CALL (505)325-1823

Rainbow Seeker #1 Earthen Pit Close 3-9-11

From:

Kurt Fagrelius

Wednesday, February 23, 2011 5:15 PM Sent:

'Powell, Brandon, EMNRD', Spencer, Bertha; Evan Rowland (erowland@slo.state.nm.us); To:

'dave\_mankiewicz@nm.blm.gov', 'Mark\_Kelly@nm.blm.gov'; 'lucas\_vargo@blm.gov'

Cc: Kurt Fagrelius; Johnny Lane; Mike Sandoval

Attachments: 72-Hr Notice to Close Permanent Pits 3-1 Thru 3-3-2011.xls

Dear Mr. Brandon Powell, Ms. Bertha Spencer, Mr. Evan Rowland, Mr. Dave Mankiewicz, Mr. Mark Kelly and Mr. Lucas Vargo.

Dugan Production Corp is hereby giving notice that Dugan will be closing the permanent pits on the following well pads.

1) Phantom Ranch #1

- 2) Marathon #1 (Separator)
- 3) Drip Tank #1 (600-ft from Greek's Fete #2)
- Nice #1 4)
- Rainbow Seeker #1

Site specific and soil analysis information for each permanent pit is included in the enclosed attachment.

Those highlighted in blue (#'s 1, 3 & 4) are located on Federal Surface, the one highlighted in red (#2) is located on Navajo Indian Alloted Surface and the one highlighted in black (#5) is on Private surface.

Permanent pits will be closed starting Tuesday, February 1, 2011 thru Thursday, February 3, 2011.

If you have any questions or require additional information, please contact me.

Kurt Fagrelius Dugan Production Corp. 709 East Murray Drive Farmington, New Mexico 87401 505-325-1821 (O), 505-320-8248 (C)

# Dugan Production Corp. Permanent Pits to Close 3-1 thru 3-3-2011

Lease Name	Phantom Ranch #1	Marathon #1 Separator	Drip Tank #1 by Greek's Fete #2
API Number	30-045-26409	30-045-26436	N.A.
	<u></u> -, -,		
Surface Owner - Notice Sent	Federal	Indian Allotment	Federal
Location - UL, Sec., Twp, Rge	F-21-T24N-R8W	A-4-T23N-R10W	B-24-T30N-R15W
Latitude	36.30156 N	36.26132 N	36.80409 N
Longitude	107.6888 W	107.89362 W	107.36689 W
Benzene (<0.2 mg/kg)	<0.050 mg/kg	<0.100 mg/kg	<0.100 mg/kg
Betex (<50 mg/kg)	<0.150 mg/kg		<0.300 mg/kg
TPH - Analytic Mthd-418.1 (<100 mg/kg)		989 mg/kg	<100 mg/kg
TPH=GRO + DRO - Analytic Mthd-8015 (<1000 mg/kg)	<10.0 mg/kg	241 mg/kg	<10 mg/kg
Chlorides (<250 mg/kg)	1700 mg/kg	1070 mg/kg	672 mg/kg
Thresholds as per "Pit Rule" 19.15.17 NMAC are			
highlighted in red.		• • • • •	
Thresholds as per "Spill Rule" 19.15.30 NMAC are			
highlighted in blue.	<u> </u>	<b>-</b>	

# Dugan Production Corp. Permanent Pits to Close 3-1 thru 3-3-2011

Nice #1 Separator	Rainbow Seeker #1
30-045-26499	30-045-26406
Federal	Private
P-7-T30N-R14W	G-29-T31N-R13W
36.82378 N	36.87439 N
108.34379 W	108.22339 W
<0.050 mg/kg	<0.100 mg/kg
<0.150 mg/kg	<0.300 mg/kg
<100 mg/kg	545 mg/kg
11.4 mg/kg	31 mg/kg
1020 mg/kg	768 mg/kg

From: postmaster@duganproduction.com
Sent: Wednesday, February 23, 2011 5:16 PM

To: Kurt Fagrelius

Subject: Delivery Status Notification (Relay)

Attachments: ATT41863.txt; Untitled Attachment





ATT41863.txt (409 Untitled Attachment

B)

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

Brandon.Powell@state.nm.us

From:

postmaster@duganproduction.com

Sent:

Wednesday, February 23, 2011 5:16 PM

To:

Kurt Fagrelius

Subject:

Delivery Status Notification (Relay)

Attachments:

ATT41872.txt; Untitled Attachment





ATT41872.txt (422 Untitled Attachment

B)

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

erowland@slo.state.nm.us

From:

To:

Rowland, Evan [erowland@slo.state.nm.us] Kurt Fagrelius Thursday, February 24, 2011 9.10 AM Read: Sent:

Subject:

Your message

erowland@slo.state.nm.us To:

Subject:

was read on 2/24/2011 9:10 AM.

From:

Sent:

postmaster@duganproduction.com Wednesday, February 23, 2011 5:17 PM

To:

Kurt Fagrelius

Subject:

Delivery Status Notification (Relay)

Attachments:

ATT41884.txt; Untitled Attachment





ATT41884.txt (396 Untitled Attachment

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

Bertha.Spencer@bia.gov

From:

Sent:

mkelly@blm.gov Thursday, February 24, 2011 5:58 AM Kurt Fagrelius

To:

Return Receipt

Your

document:

was

Mark Kelly/FFO/NM/BLM/DOI

received

by:

at:

02/24/2011 05:58:25 AM

From:

Sent:

dmankiew@blm.gov Thursday, February 24, 2011 7:27 AM Kurt Fagrelius

To:

Return Receipt

Your

document:

was

Dave Mankiewicz/FFO/NM/BLM/DOI

received

by:

at:

02/24/2011 07:27:03 AM

From:

Sent:

lvargo@blm.gov Friday, February 25, 2011 9:29 AM Kurt Fagrelius

To:

Return Receipt

Your

document:

was

Lucas Vargo/FFO/NM/BLM/DOI

received

by:

at:

02/25/2011 09:29:02 AM

From: System Administrator

To: Kurt Fagrelius; Johnny Lane; Mike Sandoval Sent: Wednesday, February 23, 2011 5:15 PM

Subject: Delivered: Delivery Status Notification (Success)

### Your message

To: 'Powell, Brandon, EMNRD'; Spencer, Bertha; Evan Rowland (erowland@slo.state.nm.us); 'dave\_mankiewicz@nm.blm.gov';

'Mark\_Kelly@nm.blm.gov'; 'lucas\_vargo@blm.gov' Kurt Fagrelius; Johnny Lane; Mike Sandoval

Cc: Kurt Fagrelit

Subject:

Sent: 2/23/2011 5:15 PM

### was delivered to the following recipient(s):

Kurt Fagrelius on 2/23/2011 5:15 PM Johnny Lane on 2/23/2011 5:15 PM Mike Sandoval on 2/23/2011 5:15 PM

From:

Mike Sandoval

Sent:

Thursday, February 24, 2011 6:33 AM

To:

Kurt Fagrelius

Subject:

Read:

Attachments: Read\_ .txt

From:

Johnny Lane

Sent:

Thursday, February 24, 2011 7:13 AM

To:

Kurt Fagrelius

Subject:

Read:

Attachments: Read\_ .txt