

APPROVALS

YEAR(S):

Hansen, Edward J., EMNRD

From:	Hansen, Edward J., EMNRD
Sent:	Tuesday, March 31, 2009 10:02 AM
То:	'Marcella Marquez'
Cc:	Powell, Brandon, EMNRD
Subject:	Approval to Reuse Remediated Biopile Soils for the Stabilization/Solidification of Drilling Mud and Tank Bottoms and Sludge

RE: Request for Approval to Reuse Remediated Biopile Soils for the Stabilization/Solidification of Drilling Mud and Tank Bottoms and Sludge
 JFJ Landfarm, LLC - Industrial Ecosystems Inc.
 JFJ Landfarm – Permit # NM01-0010B
 NW/4, SE/4, Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico

Dear Ms. Marquez:

The New Mexico Oil Conservation Division (OCD) has reviewed JFJ Landfarm, LLC's (JFJ) request, dated March 26, 2009, and analytical results to reuse the remediated soils in the following biopiles for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge:

Pile # 43 Gulf Terra/El Paso Pile # 108 Largo Pile # 111 Aztec Well Pile # 311 Basin Pile # 500 XTO Pile # 533 Burlington Pile # 543 Community Pile # 567 Community Pile # 577 Burlington Pile # 598 Community Pile # 598 Community Pile # 622 Burlington Pile # 639 Burlington Pile # 649 Conoco Pile # 662 Conoco

Based upon the information provided, the above-referenced biopiles are hereby approved for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge.

Please be advised that approval of this request does not relieve the JFJ of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve JFJ of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3489 or <u>edwardj.hansen@state.nm.us</u>.

Edward J. Hansen Hydrologist Environmental Bureau



P.O. Box 2043 Farmington, NM 87499

March 26, 2009

Edward Hansen

Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: Use of reclaimed soil

Dear Brad:

Recent analytical results show that the following biopiles(s) have reached acceptable levels as required by our NMOCD permit.

Industrial Ecosystems Inc.

Phone: (505) 632-1782

Fax: (505) 632-1876

Soil Reclamation Center RECEIVED

2009 MAR 27

FT49 CR 3150 FTAzrec, NM 87410

<u>Pile #</u>

1 110 #	_
# 43	Gulf Terra/El Paso
# 108	Largo
# 111	Aztec Well
# 311	Basin
# 500	XTO
# 533	Burlington
# 543	Community
# 567	Community
# 577	Burlington
# 592	Community
# 598	Community
# 622	Burlington
# 639	Burlington
# 649	Conoco
# 662	Conoco
are seekin	g your approval to re

We are seeking your approval to recycle this soil by using it to mix/solidify incoming liquid waste.

Respectfully Submitted,

marcueamarquez

Marcella Marquez Administrative Officer

Enclosure(s) – Analytical Reports

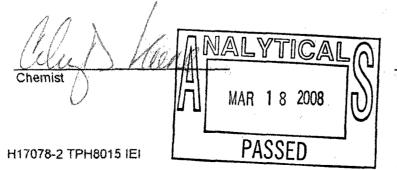


ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

LAB NUMBER	SAMPLE ID		GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)
ANALYSIS DATE	* ************************************		03/18/09	03/18/09
H17078-2	PILE # 43		<10.0	<10.0
				·
				a sta Anna anna anna anna anna anna anna ann
Quality Control		12 a	505	561
True Value QC			500	500
% Recovery		· · · · · · · · · · · · · · · · · · ·	101	112
Relative Percent	Difference		0.6	0.1

METHOD: SW-846 8015 M



23/25/199 Date

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CLIENT:	Industrial Ecosystems, Inc. Client Sample ID:				D: Gulf Terr	Gulf Terra/El Paso #43		
Lab Order:	0811466			Collection Dat	te: 11/24/200)8 12:55:00 PM		
Project:	JFJ Land Farm			Date Receive	ed: 11/26/200)8		
Lab ID:	0811466-14			Matr	ix: SOIL	· · ·		
Analyses	·	Result	PQL	Qual Units	DF	Date Analyzed		
EPA METHOD	8021B: VOLATILES					Analyst: DAN		
EPA METHOD Benzene		ND	0.050	mg/Kg	1	Analyst: DAN 12/3/2008 2:08:29 PM		
		ND ND	0.050 0.050	mg/Kg mg/Kg	1 1	-		
Benzene				0 0	1 1 1	12/3/2008 2:08:29 PM		
Benzene Toluene		ND	0.050	mg/Kg	1 1 1 1	12/3/2008 2:08:29 PM 12/3/2008 2:08:29 PM		
Benzene Toluene Ethylbenzene Xylenes, Total		ND ND	0.050 0.050	mg/Kg mg/Kg	1 1 1 1	12/3/2008 2:08:29 PM 12/3/2008 2:08:29 PM 12/3/2008 2:08:29 PM		
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	8021B: VOLATILES	ND ND ND	0.050 0.050 0.15	mg/Kg mg/Kg mg/Kg	1 1 1 . 1	12/3/2008 2:08:29 PM 12/3/2008 2:08:29 PM 12/3/2008 2:08:29 PM 12/3/2008 2:08:29 PM		

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	Е	Estimated value	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit

S Spike recovery outside accepted recovery limits RL Reporting Limit

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14

CLIENT:	Industrial Ecosysten	ns, Inc.		C	lient Sample ID:	Largo	#108
Lab Order:	0712353			. (Collection Date:	12/26	/2007 12:45:00 PM
Project:	JFJ Land Farm				Date Received:	12/27	/2007
Lab ID:	0712353-16				Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	3015B: DIESEL RANG	E ORGANICS					Analyst: SCC
Diesel Range O	rganics (DRO)	20	10		mg/Kg	1	1/2/2008 12:12:15 PM
Motor Oil Range	Organics (MRO)	ND	50		mg/Kg	1	1/2/2008 12:12:15 PM
Surr: DNOP	• •	92.3	61.7-135		%REC	1	1/2/2008 12:12:15 PM
EPA METHOD 8	015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0	•	mg/Kg	1	12/28/2007 11:19:56 PM
Surr: BFB		108	84-138		%REC	1	12/28/2007 11:19:56 PN
EPA METHOD 8	021B: VOLATILES						Analyst: NSB
Methyl tert-butyl	ether (MTBE)	ND	0.10		mg/Kg	1	12/28/2007 11:19:56 PN
Benzene		ND	0.050		mg/Kg	1	12/28/2007 11:19:56 PN
Toluene		ND	0.050		mg/Kg	1	12/28/2007 11:19:56 PN
Ethylbenzene		ND	0.050		mg/Kg	1	12/28/2007 11:19:56 PM
Xylenes, Total		ND	0.10		mg/Kg	1	12/28/2007 11:19:56 PM
Sdfr: 4-Bromo	ofluorobenzene	96.9	81.4-117		%REC	1	12/28/2007 11:19:56 PM

Hall Environmental Analysis Laboratory, Inc.

Date: 03-Jan-08

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/18/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

		CI
LAB NO. SA	MPLE ID	(mg/kg)
H17078-13 PIL	.E #108	144

		·····
6.06.17		
ann an thailean an thair an t	allantiitareen een argiin aan oo	
		*** ***********************************
Quality Control	,	500
True Value QC		500
% Recovery		100
Relative Percent D	Difference	< 0.1

METHOD: Standard Methods 4500-CI'B Note: Analysis performed on a 1:4 wtv aqueous extract.

chemist

<u>13/25/11</u> Date

H17078 IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

DRO
(>C ₁₀ -C ₂₈)
(ma/ka)

LAB NUMBER

SAMPLE ID

ANALYSIS DATI	- -	03/18/09
H17078-5	PILE # 111	18.2
······································	· · · · · · · · · · · · · · · · · · ·	in the second
	•	
Quality Control		561
True Value QC		500
% Recovery		112
Relative Percent	Difference	0.1

METHOD: SW-846 8015 M

AAN R		
Celub. Koene	MALYTICAL C 03/25/07	
Chemist	MAR 1 8 2008	
	PASSED	

H1/0/8-5 80150KO IEI

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RECEIVED

FE2 11 2009

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

		GRO	DRO	
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER S		(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	E	02/03/09	02/03/09	02/03/09
	PILE			2
	PILE		Contraction of the	
	PILE 111	<10.0	TUES	96
	PILE			
	PILE	17.8 - 2		2. 54 10 10
	PILE .			1 M 1
	PILE			
H16803-8 F	PILE 6			12 N 1
H16803-9 F	PILE	<		- 11
H16803-10 F	PILE			
Quality Control		487	574	510
True Value QC		500	500	500
% Recovery		97.4	115	102
Relative Percent	t Difference	4.1	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts.

Lab Director

H16803 TCL

02/04/199

Date

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Hall Envir	onmental Analysis Labo	ratory, Inc. D	ate: 30-Ju	1-08
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID	: Aztec We	ell #111
Lab Order:	0807323	Collection Date	: 7/22/2008	8 1:26:00 PM
Project:	JFJ Land Farm	Date Received	: 7/24/2008	8
Lab ID:	0807323-12	Matrix	: SOIL	
Analyses	Result	PQL Qual Units	DF	Date Analyzed

EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	7/26/2008 6:17:39 AM
Benzene	ND	0.050	mg/Kg	1	7/26/2008 6:17:39 AM
Toluene	ND	0.050	mg/Kg	1	7/26/2008 6:17:39 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/26/2008 6:17:39 AM
Xylenes, Total	ND	0.10	mg/Kg	1	7/26/2008 6:17:39 AM
Surr: 4-Bromofluorobenzene	96.1	81.4-117	%REC	1	7/26/2008 6:17:39 AM
EPA METHOD 300.0: ANIONS					Analyst: IC
Chloride	200	3.0	mg/Kg	_ي ، 10	7/30/2008 1:28:41 AM

Qualifiers:

*

Value exceeds Maximum Contaminant Level Е Value above quantitation range

Analyte detected below quantitation limits J

ND Not Detected at the Reporting Limit

Chiles recovery outside accented recovery limits c

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 12 of 12

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystem 0712353 JFJ Land Farm 0712353-03	s, Inc.		Collec	ample ID: tion Date: Received: Matrix:	12/26 12/27	/2007 9:45:00 AM /2007
Analyses		Result	PQL	Qual Units		DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range O	rganics (DRO)	20	10	mg/Kg	l	1	1/2/2008 9:42:29 AM
Motor Oil Range	e Organics (MRO)	ND	50	mg/Kg	}	1	1/2/2008 9:42:29 AM
Surr: DNOP		78.7	61.7-135	%REC	;	1	1/2/2008 9:42:29 AM
EPA METHOD	8015B: GASOLINE RAI	NGE					Analyst: NSB
Gasoline Range	organics (GRO)	ND	5.0	mg/Kg		1	12/28/2007 12:47:51 PM
Surr: BFB		108	84-138	%REC	;	1	12/28/2007 12:47:51 PM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl	ether (MTBE)	ND	0.10	mg/Kg	I	1	12/28/2007 12:47:51 PM
Benzene		ND	0.050	mg/Kg	1	1	12/28/2007 12:47:51 PM
Toluene		ND	0.050	mg/Kg	I	1	12/28/2007 12:47:51 PM
Ethylbenzene		ND	0.050	mg/Kg	1	1	12/28/2007 12:47:51 PM
Xylenes, Total		ND	0.10	mg/Kg		1	12/28/2007 12:47:51 PM
Surr: 4-Brome	ofluorobenzene	98.0	81.4-117	%REC		1	12/28/2007 12:47:51 PM

Hall Environmental Analysis Laboratory, Inc.

JAN - 3 2008 PASSED

Date: 03-Jan-08

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/18/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID		an The A		(mg/kg)
H17078-14	PILE #311		nyan kalin taka Anggan		32
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				Į.	
		1. 1. 1. 1. 1. 1. 1. 1.			:
	· ·	•	·	(· · ·)	
		,	i turi		
Quality Control		··· · · · ·			500
True Value QC	·		· · · · ·		500
% Recovery					100
Relative Perce	nt Difference				< 0.1

METHOD: Standard Methods 4500-CIB Note: Analysis performed on a 1:4 w.v aqueous extract.

Chemist PASSED H17078 IEI

125/10 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyse All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicab service: in no event shall Cardinal be liable for incidental or consoquential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarie affiliates or successors arising out of or related to the performance of services hereinder by Cardinal, regardless of whether such claims is based upon any of the above-stated reasons or otherwise. Resulrelate only to the samples identified above. This report shall not be reproduced except in full with written epproval of Cardinal Laboratories.

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystems, 0705249 JFJ Land Farm 0705249-12	Inc.		Co	nt Sample ID: llection Date: ate Received: Matrix:	5/15/2 5/17/2	2007 12:23:00 PM
Analyses		Result	PQL	Qual U	nits	DF	Date Analyzed
EPA METHOD 80	15B: DIESEL RANGE	ORGANICS	*				Analyst: SCC
Diesel Range Org	anics (DRO)	ND	10	mg	ј/Кg	1	5/20/2007 12:55:30 PM
Motor Oil Range (Organics (MRO)	ND	50	mg	g/Kg	1	5/20/2007 12:55:30 PM
Surr: DNOP		97.5	61.7-135	%	REC	1	5/20/2007 12:55:30 PM
EPA METHOD 80	15B: GASOLINE RANG	GE					Analyst: NSB
Gasoline Range (Drganics (GRO)	ND	5.0	mg	g/Kg	1	5/18/2007 11:40:45 PM
Surr: BFB		112	84-138	%	REC	1	5/18/2007 11:40:45 PM
EPA METHOD 80	21B: VOLATILES						Analyst: NSB
Methyl tert-butyl e	ether (MTBE)	ND	0.10	mg	g/Kg	1	5/18/2007 11:40:45 PM
Benzene		ND	0.050	m	g/Kg	1	5/18/2007 11:40:45 PM
Toluene		ND	0.050	mg	g/Kg	1	5/18/2007 11:40:45 PM
Ethylbenzene		ND	0.050	mg	g/Kg	1	5/18/2007 11:40:45 PM
Xylenes, Total		ND	0.10	m	g/Kg	1	5/18/2007 11:40:45 PN
Surr: 4-Bromof	luorobenzene	87.9	68.2-109	%	REC	1	5/18/2007 11:40:45 PN

Hall Environmental Analysis Laboratory, Inc.

MALYTICAL MAY 2 1 2007 PASSED

Qualifiers:

*

1

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

B Analyte detected in the associated Method Blank

Date: 21-May-07

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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12/19



ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/18/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID		Cl (mg/kg)
H17078-15	PILE #500		192
		· · · · · · · · · · · · · · · · · · ·	
	·	· .	
· ·			
·			
			······································
n da manda da sa			
Quality Control		le se	500
True Value Q	5	and the second	500
% Recovery			100
Relative Perc	ent Difference		< 0.1

METHOD: Standard Methods 4500-CIB Note: Analysis performed on a 1.4 w:v aqueous extract.

Chemist 2008 H17078 IEI PASSED

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GI\/EN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)
ANALYSIS DATE		03/20/09	03/20/09
H17078-19	PILE # 533	<10.0	51.1
	······································		
	· · · · · · · · · · · · · · · · · · ·		
			1
		*	
Quality Control		494	556
True Value QC		500	500
% Recovery		98.8	111
Relative Percent	Difference	0.6	5.6

METHOD: SW-846 8015 M

Chemist MAR 2008 PASSED H17078-19 TPH8015 IEI

Date

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Hall Envir	onmental Analysis Laborator	y, Inc. Date:	09-Feb-07	
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	Burling	ton 533
Lab Order:	0701333	Collection Date:	1/25/20	07 12:40:00 PM
Project:	JFJ Land Farm	Date Received:	1/29/20	07
Lab ID:	0701333-07	Matrix:	SOIL	
Analyses	Result	PQL Qual Units	DF	Date Analyzed

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8021B: VOLATILES Analyst: LMM Methyl tert-butyl ether (MTBE) ND 0.10 mg/Kg 1 1/30/2007 5:30:32 PM Benzene ND 0.050 mg/Kg 1 1/30/2007 5:30:32 PM Toluene ND 0.050 mg/Kg 1 1/30/2007 5:30:32 PM Ethylbenzene ND 0.050 mg/Kg 1 1/30/2007 5:30:32 PM Xylenes, Total ND 0.15 mg/Kg 1/30/2007 5:30:32 PM 1 Surr: 4-Bromofluorobenzene 95.9 %REC 68.2-109 1/30/2007 5:30:32 PM 1

Qualifiers:

Value exceeds Maximum Contaminant Level *

Е Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level

RL Reporting Limit



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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

		CI (mp/lim)
LAB NO.	SAMPLEID	(mg/kg)
H16948-16	PILE #533	176
	· · · · · · · · · · · · · · · · · · ·	· •
······································		
Quality Contr	lo	500
True Value C	2C	500
% Recovery		100
······································	cent Difference	<0.1
		-
ETHOD: Star	ndard Methods	4500-CI'B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

02/24/09 Date 2008 PASSED

H16948 IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

LAB NÜMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)
ANALYSIS DATE	4000000000000000000000000000000000000	03/20/09	03/20/09
H17078-20	PILE # 543	<10.0	37.6
			- - -
Quality Control		494	556
True Value QC	*********	500	500
% Recovery		98.8	111
Relative Percent	Difference	0.6	5.6

METHOD: SW-846 8015 M

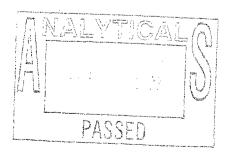
Chemist H17078-20 TPH8015 IEI

Date

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onmental Analysis La	aborate	bry, Inc.	ate: 26-Feb	
Industrial Ecosystems, Inc.	·	Client Sample ID:	Communit	ty #543
0802255		Collection Date:	2/19/2008	2:30:00 PM
JFJ Land Farm		Date Received:	2/21/2008	
0802255-18		Matrix:	SOIL	
Re	sult	PQL Qual Units	DF	Date Analyzed
	Industrial Ecosystems, Inc. 0802255 JFJ Land Farm 0802255-18	Industrial Ecosystems, Inc. 0802255 JFJ Land Farm	Industrial Ecosystems, Inc.Client Sample ID:0802255Collection Date:JFJ Land FarmDate Received:0802255-18Matrix:	Industrial Ecosystems, Inc.Client Sample ID:Communit0802255Collection Date:2/19/2008JFJ Land FarmDate Received:2/21/20080802255-18Matrix:SOIL

EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: SMP
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	2/23/2008 11:08:41 AM
Benzene	ND	0.050	mg/Kg	1	2/23/2008 11:08:41 AM
Toluene	ND	0.050	mg/Kg	1	2/23/2008 11:08:41 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/23/2008 11:08:41 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/23/2008 11:08:41 AM
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg	1	2/23/2008 11:08:41 AM
1,3 <u>;</u> 5-Trimethylbenzene	ND	0.050	mg/Kg	1	2/23/2008 11:08:41 AM
Surr: Dibromofluoromethane	88.7	64.4-119	%REC	1	2/23/2008 11:08:41 AM



Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

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- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 18 of 18

12



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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/24/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID		(mg/kg)
H17078-20	PILE #543		432
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		· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	
Quality Contr	ol	3	500
True Value O	C		500
% Recovery			100
Relative Perc	ent Difference	1	< 0.1
METHOD: Stan	idard Methods		4500-CIB

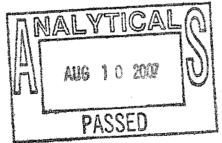
METHOD: Standard Methods Note: Analysis performed on a 1:4 w/v aqueous extract.

Chemist Ni PASSED H17078 IEI

Date

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					n oampie ioi	commu	mily noor
Lab Order:	0708103			Co	llection Date:	8/7/2001	7 8:45:00 AM
Project:	JFJ Land Farm			D	ate Received:	8/8/2001	7
Lab ID:	0708103-01				Matrix:		
Analyses		Result	PQL	Qual Ur	nits	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range C	Organics (DRO)	12	10	mg	/Kg	1	8/9/2007 4:11:57 PM
Motor Oil Rang	e Organics (MRO)	ND	50	mg	/Kg	1	8/9/2007 4:11:57 PM
Surr: DNOP		95.0	61.7-135	%F	REC	1	8/9/2007 4:11:57 PM
EPA METHOD	8015B: GASOLINE RAN	IGE					Analyst: LMM
Gasoline Rang	e Organics (GRO)	ND	5.0	mg	/Kg	1	8/9/2007 11:39:57 AM
Surr: BFB		102	84-138	%F	REC	1	8/9/2007 11:39:57 AM
EPA METHOD	8021B: VOLATILES						Analyst: LMM
Methyl tert-buty	l ether (MTBE)	ND	0.10	mg	/Kg	1	8/9/2007 11:39:57 AM
Benzene		ND	0.050	mg	/Kg	1	8/9/2007 11:39:57 AM
Toluene		ND	0.050	mg	/Kg	1	8/9/2007 11:39:57 AM
Ethylbenzene		ND	0.050	mg	I/Kg	1	8/9/2007 11:39:57 AM
Xylenes, Total		ND	0.10	mg	ı/Kg	1	8/9/2007 11:39:57 AM
Surr: 4-Brom	ofluorobenzene	90.1	68.2-109	%F	REC	1	8/9/2007 11:39:57 AM



fiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	E	Value above quantitation range		Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits		Maximum Contaminani Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Lunit

S Spike recovery outside accepted recovery limits

2/15

Qualifi

Hall Environmental Analysis Laboratory, Inc.

Industrial Ecosystems, Inc.

CLIENT:

Date: 10-Aug-07

Client Sample ID: Community #567



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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/18/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN

Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID	Cl
	PILE #567	(mg/kg) 32
		······································
n 1997 - An and an an an All Marillon an an a'		
		96 - 1999 (1999) (1997)
· · · · · · · · · · · · · · · · · · ·		
	Панта — то полого столова навлавание и у о такод на тор се о Пантуруна поточно навление одруга на болу во	9990000 du Order unagenter function de contraction de c
Quality Control	นแบบรายและสาราสาราสาราสาราสาราสาราสาราสาราสาราสาร	500
True Value QC	997 - 1999 - 1999 - 1999 - 1997 - 199	500
% Recovery		100
Relative Percen	t Difference	< 0.1
· · ·		
ETHOD: Standa	rd Methods	4500-CIB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Chemist PASSED

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystem 0704405 JFJ Land Farm 0704405-14	s, Inc.		Date R	-	4/25/2 4/26/2	007 11:32:00 AM
Analyses		Result	PQL	Qual Units		DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS		<u></u>			Analyst: SCC
Diesel Range C	Drganics (DRO)	13	10	mg/Kg		1	4/28/2007 9:04:55 PM
Motor Oil Rang	e Organics (MRO)	68	50	mg/Kg		1	4/28/2007 9:04:55 PM
Surr: DNOP		99.8	61.7-135	%REC		1	4/28/2007 9:04:55 PM
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Rang	e Organics (GRO)	ND	5.0	mg/Kg		1	4/27/2007 8:04:28 PM
Surr: BFB		113	84-138	%REC		1	4/27/2007 8:04:28 PM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Methyl tert-buty	/I ether (MTBE)	ND	0.10	mg/Kg		1	4/27/2007 8:04:28 PM
Benzene		ND	0.050	mg/Kg		1	4/27/2007 8:04:28 PM
Toluene		ND	0.050	mg/Kg		1	4/27/2007 8:04:28 PM
Ethylbenzene		ND	0.050	mg/Kg		1	4/27/2007 8:04:28 PM
Xylenes, Total		ND	0.10	mg/Kg		1	4/27/2007 8:04:28 PM
Surr: 4-Brom	nofluorobenzene	90.2	68.2-109	%REC		1	4/27/2007 8:04:28 PM

Hall Environmental Analysis Laboratory, Inc.

NAL 200 APR 2 6 PASSED

Qualifiers:

Value exceeds Maximum Contaminant Level *

- E Value above quantitation range
- Analyte detected below quantitation limits J
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits 14 / 18S

Date: 30-Apr-07

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL. Reporting Limit



ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

CI

4500-CIB

LAB NO.	SAMPLE ID		(rng/kg)
H16948-2	PILE #577	- -	304
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na, on a rean, que a , an 1999, Berlin Mantenerer e propagaga (MA) 1881, a aparagan			
		· · ·	
		· · · ·	
	·		
		-	
Quality Control			500
True Value QC	a dalam a matematika ana ang ang ang ang ang ang ang ang an	· · · · · · · · · · · · · · · · · · ·	500
% Recovery			100
Relative Percer	t Difference		<0.1

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

AL FEB 2 0 2008 PASSED

02/24/09 Date

H16948 IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)
ANALYSIS DATE		03/18/09	03/18/09
H17078-6	PILE # 592	<10.0	49,4
			1 -
			s - 3 - 5.
Quality Control	· · ·	.505	561
True Value QC		500	500
% Recovery		101	112
Relative Percent	Difference	0.6	0.1

METHOD: SW-846 8015 M

Chemist 2008 18 MAR PASSED H17078-6 TPH8015 IEI

03/25/09

Date

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

LAB NUMBER SAMPLE ID

ANALYSIS DATE

:	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
	03/19/09	03/19/09	03/19/09	03/19/09
	<0.050	<0.050	<0.050	<0.300

ANALISIS DALL		00118/08	03/19/09	03/19/09	03/18/08
H17078-6 PILE #592		<0.050	<0.050	<0.050	<0.300
				-	
		· · · ·			
	• • •				
		· · · · · ·			
	· · · ·		· ·		
				.[:	
			· ·		
Quality Control		0.050	0.051	0.050	0.150
True Value QC		0.050	0.050	0.050	0.150
% Recovery		100	102	100	100
Relative Percent Difference		3.0	1.8	1.9	2.0
METUODI EDA CINI DAS COO1D	· · · · · · · · · · · · · · · · · · ·	······································		······	

METHOD: EPA SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist 2008 8 MAR PASSED

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/24/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID	CI (mg/kg)
H17078-6	PILE #592	16
		·
-		
		:
a (a manadara)		
Quality Contro	1	500
True Value QC		500
% Recovery		100
Relative Perce	Int Difference	< 0.1

METHOD: Standard Methods 4500-CI'B Note: Analysis performed on a 1:4 w:v aqueous extract.

2008 8 MAR PASSED

73/25/19s Date

H17078 IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN

Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

LAB NUMBER	SAMPLE ID			GRO (C ₆ -C ₁₀ (mg/kg)		DRO (>C ₁₀ -C ₂₈) (mg/kg)
ANALYSIS DATE	* . * . * * .			03/19/0	09	03/19/09
H17078-7	PILE # 598			<10	.0	32.7
						······································
		·····				

Quality Control				5(05	561
True Value QC		34 - A	e t	5(500
% Recovery				1(21	112
Relative Percent	Difference			0	.6	0.1

METHOD: SW-846 8015 M

Chemist Date 2008 MAR 1 8 PASSED H17078-7 TPH8015 IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

ETHYL TOTAL BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID.

	03/19/09	03/19/09	03/19/09	03/19/09
й. 11 с. 11 с.	<0.050	<0.050	<0.050	<0.300
ŀ				
				-
	0.050	0.051	0.050	0.150
	0.050	0.050	0.050	0.150
	100	102	100	100
	3.0	1.8	1.9	2.0
		<0.050 0.050 0.050 100	<0.050 <0.050 0.050 0.051 0.050 0.051 0.050 0.050 100 102	<0.050 <0.050 <0.050 0.050 0.050 0.050 0.050 0.050 0.051 0.050 0.050 0.050 0.050 0.050 0.050 100 102 100 100

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist 2008 MAR 1.8PASSED

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/24/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID		Cl (mg/kg)
H17078-7	PILE #598		16

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			· · ·

· · · ·			
Quality Control	**************************************		500
True Value QC	······	· · · · · · · · · · · · · · · · · · ·	500
% Recovery	-		100
Relative Perce	nt Difference		< 0.1
METHOD: Stand	ard Methods		4500-CI'B

Note: Analysis performed on a 1:4 w/v aqueous extract.

Chemist 2008 8 MAR PASSED

03/25/09 Date

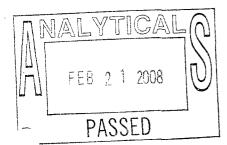
H17078 IEI

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CLIENT:	CLIENT: Industrial Ecosystems, Inc.			Client Sample ID: Burlington #622				
Lab Order:	0802255			Collection Da	te: 2/19/2008	8 12:46:00 PM		
Project:	JFJ Land Farm			Date Receive	ed: 2/21/2008	3		
Lab ID:	0802255-15		Matrix: SOIL					
Analyses		Result	PQL	Qual Units	DF	Date Analyzed		
EPA METHOD	8015B: DIESEL RANGE	ORGANICS			· · · · · · · · · · · · · · · · · · ·	Analyst: SCC		
Diesel Range C	rganics (DRO)	. 10	10	mg/Kg	1	2/22/2008 11:20:24 PM		
Motor Oil Range	e Organics (MRO)	ND	50	mg/Kg	1	2/22/2008 11:20:24 PM		
Surr: DNOP		97.3	61.7-135	%REC	1	2/22/2008 11:20:24 PM		
EPA METHOD	8015B: GASOLINE RAN	NGE				Analyst: NSB		
Gasoline Range	e Organics (GRO)	10	5.0	mg/Kg	1	2/22/2008 9:28:30 PM		
Surr: BFB		136	84-138	%REC	1	2/22/2008 9:28:30 PM		
EPA METHOD	8260B: VOLATILES SH	ORT LIST				Analyst: SMP		
Methyl tert-buty	l ether (MTBE)	ND	0.050	mg/Kg	1	2/23/2008 7:36:29 AM		
Benzene		ND	0.050	mg/Kg	1	2/23/2008 7:36:29 AM		
Toluene		ND	0.050	mg/Kg	1	2/23/2008 7:36:29 AM		
Ethylbenzene		ND	0.050	mg/Kg	1	2/23/2008 7:36:29 AM		
Xylenes, Total		ND	0.10	mg/Kg	1	2/23/2008 7:36:29 AM		
1,2;4-Trimethyll	penzene	ND	0.050	mg/Kg	1	2/23/2008 7:36:29 AM		
1,3,5-Trimethylt	penzene	ND	0.050	mg/Kg	1	2/23/2008 7:36:29 AM		
-	ofluoromethane	87.7	64.4-119	%REC	1	2/23/2008 7:36:29 AM		

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Feb-08



Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 15 of 18

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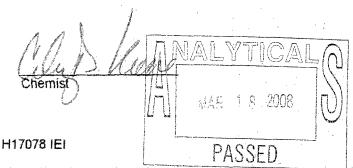


ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/18/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID		Cl (mg/kg)
H17078-22	PILE #622		64
			1
		· · ·	· ·
		· · · · · · · · · · · · · · · · · · ·	
· · · ·		arai	
		1999 - 199	
	**************************************	1999 - Anna 1997 - Anna 1997 - Anna 1997 - Anna 1997 - Anna 199 1997 - Anna 1997	
Quality Contro)l		500
True Value Ci	C		500
% Recovery	· · · · · ·	······································	100
Relative Perci	ent Difference		< 0.1
-			i •

METHOD: Standard Methods 4500-CIB Note: Analysis performed on a 1:4 w:v aqueous extract



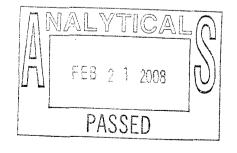
Date

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CLIENT: Industrial Ecosystems, Inc.		Client Sample ID: Burlington #639						
Lab Order:	r der: 0802255			Collection Date: 2/19/2008 2:00:00 PM				
Project:	JFJ Land Farm		Date Received: 2/21/2008					
Lab ID:	0802255-17			Matr	ix: SOIL			
Analyses		Result	PQL	Qual Units	DF	Date Analyzed		
EPA METHOD	8015B: DIESEL RANGE	ORGANICS		· · · · · · · · · · · · · · · · · · ·		Analyst: SCC		
Diesel Range C	Organics (DRO)	ND	10	mg/Kg	1	2/23/2008 12:29:46 AM		
Motor Oil Rang	e Organics (MRO)	ND	50	mg/Kg	1	2/23/2008 12:29:46 AM		
Surr: DNOP		76.4	61.7-135	%REC	1	2/23/2008 12:29:46 AM		
EPA METHOD	8015B: GASOLINE RAI	NGE				Analyst: NSB		
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2008 10:29:20 PM		
Surr: BFB		100	84-138	%REC	1	2/22/2008 10:29:20 PM		
EPA METHOD	8260B: VOLATILES SH	ORT LIST				Analyst: SMP		
Methyl tert-buty	l ether (MTBE)	ND	0.050	mg/Kg	1	2/23/2008 10:33:16 AM		
Benzene		ND	0.050	mg/Kg	1	2/23/2008 10:33:16 AM		
Toluene		ND	0.050	mg/Kg	1	2/23/2008 10:33:16 AM		
Ethylbenzene		ND	0.050	mg/Kg	1	2/23/2008 10:33:16 AM		
Xylenes, Total		ND	0.10	mg/Kg	1	2/23/2008 10:33:16 AM		
	benzene	ND	0.050	mg/Kg	1	2/23/2008 10:33:16 AM		
1,2,4-Trimethyli								
1,2,4-Trimethyl 1,3,5-Trimethyl	benzene	ND	0.050	mg/Kg	1	2/23/2008 10:33:16 AM		

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Feb-08



Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

17



ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/18/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID	· ·	Cl (mg/kg)
H17078-24	PILE #639		< 16
	· · · · · · · · · · · · · · · · · · ·		
	2004 0 1	······	1
Quality Control			500
True Value QC		······································	500
% Recovery	An the Address of the Conductor Announced to Control and Address and Address and Address and Address and Addres		100
Relative Perce	nt Difference		< 0.1

METHOD: Standard Methods 4500-CI'B Note: Analysis performed on a 1:4 w:v aqueous extract.

Chemist 2008 MAC Ľ. PASSED

03/25109 Date



ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN

LAB NUMBER

Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

GRO DRO (C₅-C₁₀) (>C₁₀-C₂₈) (mg/kg) (mg/kg)

ANALYSIS DATE: 03/20/09 03/20/09 H17078-8 **PILE # 649** <10.0 34.9 **Quality Control** 494 556 True Value QC 500 500 98.8 % Recovery 111 **Relative Percent Difference** 5.6 0.6

SAMPLE ID

METHOD: SW-846 8015 M

Chemist Date MAR 1 8 2008 PASSED H17078-8 TPH8015 IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

LAB NUMBER SAMPLE ID		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	
ANALYSIS D	ATE		03/19/09	03/19/09	03/19/09	03/19/09
H17078-8	PILE #649	· · · · · · · · · · · · · · · · · · ·	<0.050	<0.050	<0.050	<0.300
		·				

		· · ·				
				1.2		
	· · · · · · · · · · · · · · · · · · ·	·· .		:		
······································	1999-1999 (h. 1997) - 1997 - 1997 (h. 1997) - 1997 (h. 1997) - 1997) - 1997 (h. 1997) - 1997) - 1997 (h. 1997) 1999 - 1997 (h. 1997) - 1997 (h. 1997) - 1997 (h. 1997) - 1997 (h. 1997) - 1997) - 1997 (h. 1997) - 1997 (h. 19		n award a sa			+
Quality Contr	ol		0.050	0.051	0.050	0.150
True Value Q	C	· · · · ·	0.050	0.050	0.050	0.150
% Recovery			100	102	100	100
Relative Perc	ent Difference		3.0	1.8	1.9	2.0
METHOD: E	PA SW-846 8021B			:		

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 03/18/09 Reporting Date: 03/24/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Analysis Date: 03/18/09 Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID	an a	(mg/kg)
H17078-8	PILE #649		32

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	······································		·····
· ·			
		······	*****
Quality Control	1		500
True Value QC			500
% Recovery			100
Relative Perce	ont Difference		< 0.1

METHOD: Standard Methods 4500-CIB Note: Analysis performed on a 1:4 w:v aqueous extract.

Chemis 13 2008 8 MAR PASSED H17078 IEI

Date

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN

Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

LAB NUMBER	SAMPLE ID	·	DRO (>C ₁₀ -C ₂₈) (mg/kg)
ANALYSIS DATE	03/20/09		
H17078-9	PILE # 662	·	16.4
-			
	· · · · · ·	and the second	
		· · · ·	
9999 - 9 5 7 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	1999 1999 1999 1997 1997 1997 1997 1997		
Quality Control			556

METHOD: SW-846 8015 M

Relative Percent Difference

True Value QC

% Recovery

Chemist 2008 20 MAR PASSED H17078-9 8015DRO IEI

Date

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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	Cl*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	02/04/09	02/04/09	02/03/09
H16803-11 PILE	<		
H16803-12 PILE	<	<	
H16803-13 PILE			
H16803-14 PILE 662	<10.0		176
Quality Control	492	583	510
True Value QC	500	500	500
% Recovery	98.4	117	102
Relative Percent Difference	1.2	1.8	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI^{*}: Std. Methods 4500-CI^{*}B *Analyses performed on 1:4 w:v aqueous extracts.

Lab Director

Date

H16803 TCL IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 03/18/09 Reporting Date: 03/23/09 Project Number: 7165 Project Name: SAMPLES Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	03/19/09	03/19/09	03/19/09	03/19/09
H17078-9 PILE #662	<0.050	<0.050	<0.050	<0.300
			1	
			·····	
	- <u> </u>			
	1			
Quality Control	0.050	0:051	0.050	0.150
True Value QC	0.050	0.050	0.050	0.150
% Recovery	100	102	100	100
Relative Percent Difference	3.0	1.8	1.9	2.0
METHOD: EPA SW-846 8021B				· · ·

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist 2008 8 MAR PASSED

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Hansen, Edward J., EMNRD

From:	Hansen, Edward J., EMNRD
Sent:	Tuesday, March 31, 2009 9:52 AM
То:	'Marcella Marquez'
Cc:	Powell, Brandon, EMNRD
Subject:	Approval to Reuse Remediated Biopile Soils for the Stabilization/Solidification of Drilling Mud and Tank Bottoms and Sludge

RE: Request for Approval to Reuse Remediated Biopile Soils for the Stabilization/Solidification of Drilling Mud and Tank Bottoms and Sludge JFJ Landfarm, LLC - Industrial Ecosystems Inc. JFJ Landfarm – Permit # NM01-0010B NW/4, SE/4, Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico

Dear Ms. Marquez:

The New Mexico Oil Conservation Division (OCD) has reviewed JFJ Landfarm, LLC's (JFJ) request, dated February 27, 2009, and analytical results to reuse the remediated soils in the following biopiles for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge:

Pile # 106 Conoco	Pile # 570 Basin
Pile # 587 Basin	Pile # 616 Burlington
Pile # 617 Burlington	Pile # 645 Conoco
Pile # 651 Burlington	Pile # 653 Conoco

Based upon the information provided, the above-referenced biopiles are hereby approved for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge.

Please be advised that approval of this request does not relieve the JFJ of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve JFJ of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3489 or <u>edwardj.hansen@state.nm.us</u>.

Edward J. Hansen Hydrologist ' Environmental Bureau P.O. Box 2043 Farmington, NM 87499

Industrial Ecosystems Inc. Soil Reclamation Center

Phone: (505) 632-1782 Fax: (505) 632-1876 2009 FIR#42 CR 3PF9 1 22 Aztec, NM 874TO

February 27, 2009

Brad A. Jones Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: Use of reclaimed soil

Dear Brad:

Recent analytical results show that the following biopiles(s) have reached acceptable levels as required by our NMOCD permit.

<u> Pile #</u>	<u> Pile #</u>
# 106 Conoco	# 570 Basin
# 587 Basin	* # 616 Burlington
# 617 Burlington	* # 645 Conoco
# # 651 Burlington	• # 653 Conoco

We are seeking your approval to recycle this soil by using it to mix/solidify incoming liquid waste.

Respectfully Submitted,

Marcun Marguy-

Marcella Marquez Administrative Officer

Enclosure(s) – Analytical Reports



Sampling Date: 02/02/09

DRO

 $(>C_{10}-C_{28})$

(mg/kg)

GRO $(C_6 - C_{10})$

(mg/kg)

RECEIVED

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

CI*

(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS D	ATE	02/03/09	02/03/09	02/03/09
H16803-1	PILE 106	<10.0	31.1	32
H16803-2	PILE			
H16803-3	PILE			
H16803-4	PILE			
H16803-5	PILE			
H16803-6	PILE			
H16803-7	PILE C			
H16803-8	PILE	<		
H16803-9	PILE			
H16803-10	PILE			
Quality Contr	rol	487	574	510
True Value G	2C	500	500	500
% Recovery		97.4	115	102
Relative Perce	cent Difference	4.1	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.

EFB 2008 A 4 1 19 PASSED Lab Director

H16803 TCL (1E)

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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Lab Number: H16803-1 Sample ID: PILE 106 Analysis Date: 02/03/09 Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

Υ.	Sample Result	Method			True Value
VOLATILES (mg/kg)	H16803-1	Blank	QC	%Recov.	QC
Benzene	<0.050	<0.050	0.058	117	0.050
Toluene	<0.050	< 0.050	0.049	98.5	0.050
Ethylbenzene	<0.050	<0.050	0.050	99.8	0.050
m,p-Xylene	<0.100	<0.100	0.100	100	0.100
o-Xylene	<0.050	<0.050	0.055	110	0.050

	% RECOVERY	
Dibromofluoromethane	113	
Fluorobenzene	115	
Toluene-d8	76.1	
Bromofluorobenzene	79.2	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

2008 PASSED

02/04/09

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بالتمال هضي ال

DRO

(>C₁₀-C₂₈)

(mg/kg)

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

GRO

 $(C_6 - C_{10})$

(mg/kg)

Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

CI*

(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	02/03/09	02/03/09	02/03/09
H16803-1			
H16803-2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
H16803-3		et and a south and the	Contraction and
H16803-4 PILE 570	<10.0	<10.0	<u>< 16</u>
H16803-5			A CALL AND A CALL
H16803-6			
H16803-7			
H16803-8			
H16803-9	<1		
H16803-10	<1		
Quality Control	487	574	510
True Value QC	500	500	500
% Recovery	97.4	115	102
Relative Percent Difference	4.1	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.

FES 2 2008 PASSED Lab Director/ H16803 TCL 4E

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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Lab Number: H16803-4 Sample ID: PILE 570

Analysis Date: 02/03/09 Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

	Sample Result	Method			True Value
VOLATILES (mg/kg)	H16803-4	Blank	QC	%Recov.	QC
Benzene	<0.050	<0.050	0.058	117	0.050
Toluene	< 0.050	<0.050	0.049	98.5	0.050
Ethylbenzene	<0.050	< 0.050	0.050	99.8	0.050
m,p-Xylene	<0.100	<0.100	0.100	100	0.100
o-Xylene	<0.050	<0.050	0.055	110	0.050

	% RECOVERY
Dibromofluoromethane	109
Fluorobenzene	113
Toluene-d8	77,4
Bromofluorobenzene	87.5

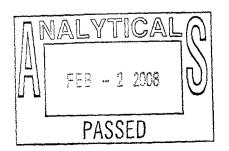
METHODS: EPA SW-846;8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

2 /04/ng

Date



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DRO

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

CI*

(mg/kg)

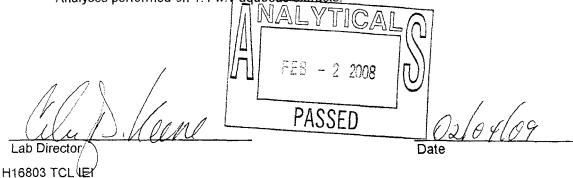
(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)
(mg/kg)	(mg/kg)

GRO

LAB NUMBER SAMPLE ID

ANALYSIS DATE	02/03/09	02/03/09	02/03/09
H16803-1			
H16803-2			*e
H16803-3			Siger State
H16803-4			
H16803-5 PILE 587	<10.0	<10.0	< 16
H16803-6			
H16803-7			and the second secon
H16803-8	A	Set 1	3
H16803-9			
H16803-10			
Quality Control	487	574	510
True Value QC	500	500	500
% Recovery	97.4	115	102
Relative Percent Difference	4.1	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v-aqueous extracts.



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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Lab Number: H16803-5 Sample ID: PILE 587 Analysis Date: 02/03/09 Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

	Sample Result	Method			True Value
VOLATILES (mg/kg)	H16803-5	Blank	QC	%Recov.	QC
Benzene	<0.050	<0.050	0.058	117	0.050
Toluene	< 0.050	<0.050	0.049	98.5	0.050
Ethylbenzene	0.092	<0.050	0.050	99.8	0.050
m,p-Xylene	<0.100	<0.100	0.100	100	0.100
o-Xylene	<0.050	<0.050	0.055	110	0.050

	% RECOVERY	
Dibromofluoromethane	113	
Fluorobenzene	120	
Toluene-d8	84.2	
Bromofluorobenzene	78.2	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director $|\Delta\rangle$ 2008 **F**8 PASSED

______ Date

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Sampling Date: 02/02/09
Sample Type: SOIL/SEDIMENT
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

GRO	DRO	
(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	Cl*
(mg/kg)	(mg/kg)	(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	02/03/09	02/03/09	02/03/09
H16803-1			
H16803-2	<i>d</i>		
H16803-3			
H16803-4			
H16803-5		an a state of the second	
H16803-6	27		
H16803-7 PILE 616	<10.0	<10.0	32
H16803-8			
H16803-9	Article and		Can t
H16803-10			
Quality Control	487	574	510
True Value QC	500	500	500
% Recovery	97.4	115	102
Relative Percent Difference	4.1	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts:

 $\overline{\mathbb{V}}$ 04/29 Lab Director/ Date H16803 TCL 4E1

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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Lab Number: H16803-7 Sample ID: PILE 616

Analysis Date: 02/03/09 Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

	Sample Result	Method			True Value
VOLATILES (mg/kg)	H16803-7	Blank	QC	%Recov.	QC
Benzene	<0.050	<0.050	0.058	117	0.050
Toluene	<0.050	< 0.050	0.049	98.5	0.050
Ethylbenzene	<0.050	<0.050	0.050	99.8	0.050
m,p-Xylene	<0.100	<0.100	0.100	100	0.100
o-Xylene	0.124	<0.050	0.055	110	0.050

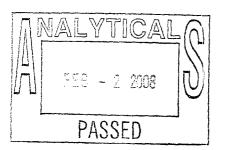
	% RECOVERY	
Dibromofluoromethane	96.8	
Fluorobenzene	115	
Toluene-d8	86.0	
Bromofluorobenzene	78.9	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

02/04/09 Date



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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

منامية وهي

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	02/03/09	02/03/09	02/03/09
H16803-1			
H16803-2			
H16803-3 PILE	<		
H16803-4 PILE	<	<	
H16803-5 PILE	<	<	
H16803-6 PILE	<		
H16803-7 PILE	<	<1	
H16803-8 PILE 617	<10.0	<10.0	48
H16803-9 PILE			
H16803-10 PILE	1	a sure	
Quality Control	487	574	510
True Value QC	500	500	500
% Recovery	97.4	115	102
Relative Percent Difference	4.1	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1;4 w:v aqueous extracts.

PASSED Lab Director H16803 TCL 4E

A4/09 Date

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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Lab Number: H16803-8 Sample ID: PILE 617

Analysis Date: 02/03/09 Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

	Sample Result	Method			True Value	3
VOLATILES (mg/kg)	H16803-8	Blank	QC	%Recov.	QC	
Benzene	<0.050	<0.050	0.058	117	0.050	٦
Toluene	< 0.050	<0.050	0.049	98.5	0.050	1
Ethylbenzene	0.101	< 0.050	0.050	99.8	0.050	
m,p-Xylene	<0.100	<0.100	0,100	100	0.100].
o-Xylene	0.120	<0.050	0.055	110	0.050	7

	% RECOVERY	
Dibromofluoromethane	116	
Fluorobenzene	112	
Toluene-d8	81.2	
Bromofluorobenzene	80.6	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

02/04/109 Date

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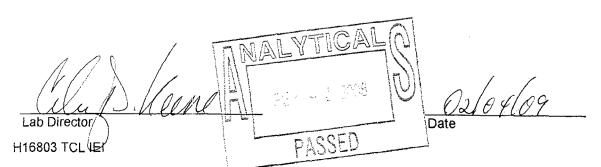
FEB 11 2009

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

		GRO	DRO	
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER	R SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
			T.	
ANALYSIS D		02/03/09	02/03/09	02/03/09
H16803-1	PILE	Sergen 23, ere		
H16803-2	PILE		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
H16803-3	PILE			1 and 1 and 1 and 1
H16803-4	PILE	<		
H16803-5	PILE			
H16803-6	PILE	<		111
H16803-7	PILE	4.4		
H16803-8	PILE			
H16803-9	PILE 645	<10.0	70.4	
H16803-10	PILE	and a second sec		
Quality Contr	ol	487	574	510
True Value Q	C	500	500	500
% Recovery		97.4	115	102
Relative Perc	ent Difference	4.1	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.



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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Lab Number: H16803-9 Sample ID: PILE 645 Analysis Date: 02/03/09 Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

	Sample Result	Method		-	Frue Valu	е
VOLATILES (mg/kg)	H16803-9	Blank	QC	%Recov.	QC	
Benzene	<0.050	<0.050	0.058	117	0.050	-
Toluene	<0.050	<0.050	0.049	98.5	0.050	
Ethylbenzene	0.122	<0.050	0.050	99.8	0.050	1
m.p-Xylene	< 0.100	<0.100	0.100	100	0.100	
o-Xylene	0.136	<0.050	0.055	110	0.050	

	% RECOVERY			
Dibromofluoromethane	104		 }	
Fluorobenzene	118	·····		
Toluene-d8	83.4			
Bromofluorobenzene	76.2	int -	11 . A. 2	3 1

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

02/04/09

Date

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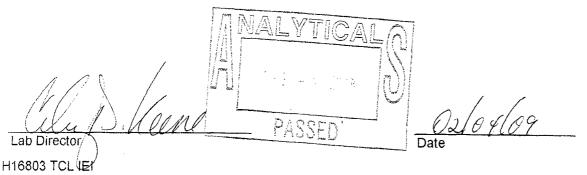
Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

	DRO	GRO
CI*	(>C ₁₀ -C ₂₈)	(C ₆ -C ₁₀)
(mg/kg)	(mg/kg)	(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS D	ATE	02/03/09	02/03/09	02/03/09
H16803-1	PILE			
H16803-2	PILE			
H16803-3	PILE			
H16803-4	PILE			
H16803-5	PILE			
H16803-6	PILE			
H16803-7	PILE			
H16803-8	PILE			
H16803-9	PILE			
H16803-10	PILE 651	<10.0	63.7	112
Quality Contr		487	574	510
True Value Q	IC	500	500	500
% Recovery		97.4	115	102
Relative Perce	cent Difference	4.1	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.



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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Lab Number: H16803-10 Sample ID: PILE 651 Analysis Date: 02/03/09 Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

	Sample Result	Method			True Value
VOLATILES (mg/kg)	H16803-10	Blank	QC	%Recov.	QC
Benzene	<0.050	<0.050	0.058	117	0.050
Toluene	<0.050	<0.050	0.049	98.5	0.050
Ethylbenzene	0.102	<0.050	0.050	99.8	0.050
m,p-Xylene	<0.100	<0.100	0.100	1.00	0.100
o-Xylene	0.119	<0.050	0.055	110	0.050

% RECOVERY	
105	·····
111	
86.1	
80.5	······································
	105 111

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

02/04/09 Date

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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

		*
Cl*	(>C ₁₀ -C ₂₈)	(C ₆ -C ₁₀)
(mg/kg)	(mg/kg)	(mg/kg)

DRO

GRO

LAB NUMBER SAMPLE ID

ANALYSIS DATE	02/04/09	02/04/09	02/03/09
H16803-11 PILE			
H16803-12 PILE 653	<10.0	<10.0	48
H16803-13 PILE			
H16803-14 PILE		Q	
Quality Control	492	583	510
True Value QC	500	500	510
% Recovery	98.4	117	102
Relative Percent Difference	1.2	1.8	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CIT: Std. Methods 4500-CITB *Analyses performed on 1:4 w:v aqueous extracts.

ab Director H16803 TCL IEI

02/04/119 Date

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Receiving Date: 02/03/09 Reporting Date: 02/04/09 Project Number: 7036 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Lab Number: H16803-12 Sample (D: PILE 653 Analysis Date: 02/04/09 Sampling Date: 02/02/09 Sample Type: SOIL/SEDIMENT Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

	Sample Result	Method			True Value
VOLATILES (mg/kg)	H16803-12	Blank	QC	%Recov.	QC
Benzene	<0.050	<0.050	0.058	117	0.050
Toluene	<0.050	<0.050	0.049	98.5	0.050
Ethylbenzene	0.107	<0.050	0.050	99.8	0.050
m,p-Xylene	<0.100	<0.100	0.100	100	0.100
o-Xylene	0.131	<0.050	0.055	110	0.050
	». %	RECOVERY			
Dibromofilloromethane		107			

Dibromofluoromethane	107	
Fluorobenzene	120	
Toluene-d8	92.1	
Bromofluorobenzene	84.4	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

PASSED

02/04/69

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Hansen, Edward J., EMNRD

Drilling Mud

RE: Request for Approval to Reuse Remediated Biopile Soils for the Stabilization/Solidification of Drilling Mud and Tank Bottoms and Sludge JFJ Landfarm, LLC - Industrial Ecosystems Inc. JFJ Landfarm – Permit # NM01-0010B NW/4, SE/4, Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico

Dear Ms. Marquez:

The New Mexico Oil Conservation Division (OCD) has reviewed JFJ Landfarm, LLC's (JFJ) request, dated March 10, 2009, and analytical results to reuse the remediated soils in the following biopile for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge:

Pile # 39 Basin Pile # 102 Key Pile # 103 XTO Pile # 112 Conoco Pile # 628 XTO Pile # 630 Burlington

Based upon the information provided, the above-referenced biopiles are hereby approved for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge.

Please be advised that approval of this request does not relieve the JFJ of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve JFJ of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3489 or <u>edwardj.hansen@state.nm.us</u>.

Edward J. Hansen Hydrologist Environmental Bureau



Industrial Ecosystems Inc. Soil Reclamation Center

Phone: (505) 632-1782 Fax: (505) 632-1876 #49 CR 3150 2009 MAR 16 PM Aztec 2000 87410

圈

March 10, 2009

Edward Hansen

Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: Use of reclaimed soil

Dear Brad:

Recent analytical results show that the following biopiles(s) have reached acceptable levels as required by our NMOCD permit.

<u> Pile</u> #	_
# 39	Basin
# 102	Key
# 103	XTO
# 112	Conoco
# 628	XTO
# 630	Burlington

We are seeking your approval to recycle this soil by using it to mix/solidify incoming liquid waste.

Respectfully Submitted,

marcelea marguez-

Marcella Marquez Administrative Officer

Enclosure(s) – Analytical Reports

CLIENT:	Industrial Ecosystems, I	nc.		Client Sample	ID: Basin	Pile #39
Lab Order:	0612260			Collection D	ate: 12/21	/2006 10:55:00 AM
Project:	JFJ Land Farm			Date Receiv	ved: 12/26	/2006
Lab ID:	0612260-15			Mat	rix: SOIL	•
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE O	RGANICS				Analyst: SCC
Diesel Range C	Arganics (DRO)	39 -	10	mg/Kg	1	12/28/2006 5:59:17 AM
Sur: DNOP		79.0	61.7-135	%REC	1	12/28/2006 5:59:17 AM
EPA METHOD	8015B: GASOLINE RANG	E				Analyst: LMM
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1	12/28/2006 4:20:02 AM
Sur: BFB		122	84-138	%REC	1	12/28/2006 4:20:02 AM
EPA METHOD	8021B: VOLATILES					Analyst: LMM
Benzene		ND	0.050	mg/Kg	1	12/28/2006 4:20:02 AM
Toluene		ND	0.050	mg/Kg	1	12/28/2006 4:20:02 AM
Ethylbenzene		ND	0.050	mg/Kg	1	12/28/2006 4:20:02 AM
Xylenes, Total		ND	0.15	mg/Kg	1	12/28/2006 4:20:02 AM
Surt: 4-Brom	ofluorobenzene	91.9	68.2-109	%REC	1	12/28/2006 4:20:02 AM

Hall Environmental Analysis Laboratory, Inc.

Date: 03-Jan-07

Qualifiers:

*

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

- S Spike recovery outside accepted recovery limit 16/19
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level

RL Reporting Limit

Page 15 of 16



Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO. S		:	CI (mg/kg)
H16948-4 F	PILE #39	· .	320
۲			
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	1999 PH 199	· .	
		· · ·	
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······································			
Quality Control	······································		500
True Value QC	······································		500
% Recovery		;	100
Relative Percent	Difference		<0.1
METHOD: Standa	rd Methods	4	500-CI'B
	formed an did unit cause	at the second second	

Note: Analyses performed on 1:4 w:v aqueous extracts.

FEB 2 0 2008 PASSED

Dabylog Date

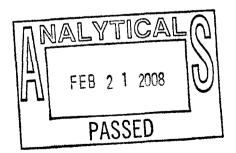
H10948 IEI

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CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID: Key #102	
Lab Order:	0802255	Collection Date: 2/19/2008 9:00:00 AM	
Project:	JFJ Land Farm	Date Received: 2/21/2008	
Lab ID:	0802255-01	Matrix: SOIL	
	· · · · · · · · · · · · · · · · · · ·	······	

Hall Environmental Analysis Laboratory, Inc.

Analyses	R	esult	PQL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL	RANGE ORG	ANICS				Analyst: SCC
Diesel Range Organics (DRO)	· . ·	29	10	mg/Kg	1	2/22/2008 10:04:30 AM
Surr: DNOP		79.8	61.7-135	%REC	1	2/22/2008 10:04:30 AM
EPA METHOD 8015B: GASOL	INE RANGE		. '	·		Analyst: NSB
Gasoline Range Organics (GRO)		ND	5.0	mg/Kg	1	2/22/2008 11:48:11 AM
Surr: BFB		101	84-138	%REC	1	2/22/2008 11:48:11 AM
EPA METHOD 8260B: VOLAT	ILES SHORT L	IST				Analyst: SMP
Methyl tert-butyl ether (MTBE)		ND	0.050	mg/Kg	1	2/22/2008 10:11:12 PM
Benzene		ND	0.050	mg/Kg	1	2/22/2008 10:11:12 PM
Toluene		ND	0.050	mg/Kg	1	2/22/2008 10:11:12 PM
Ethylbenzene		ND	0.050	mg/Kg	1	2/22/2008 10:11:12 PM
Xylenes, Total		ND	0.10	mg/Kg	1	2/22/2008 10:11:12 PM
1,2,4-Trimethylbenzene		ND	0.050	mg/Kg	1	2/22/2008 10:11:12 PM
1,3,5-Trimethylbenzene		ND	0.050	mg/Kg	1	2/22/2008 10:11:12 PM
Stirr: Dibromofluoromethane		88.3	64.4-119	%REC	1	2/22/2008 10:11:12 PM



1

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

Date: 26-Feb-08

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit



Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

	CI
LAB NO. SAMPLE ID	(mg/kg)
H16948-7 PILE #102	288
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	<0.1

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts.

hemist

FEB 2008 0 PASSED

Date

H16948 IEI

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CLIENT:	Industrial Ecosystem:	s, Inc.		Client Sample	ID: XTO #103	3 .
Lab Order:	0802255			Collection D	ate: 2/19/2008	9:10:00 AM
Project:	JFJ Land Farm			Date Receiv	ed: 2/21/2008	, }
Lab ID:	0802255-02			Mat	rix: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	an in die soner en state bestel			Analyst: SCC
Diesel Range C	Drganics (DRO)	97	10	mg/Kg	1	2/22/2008 11:11:01 AM
Surr: DNOP		113	61.7-135	%REC	۱	2/22/2008 11:11:01 AM
EPA METHOD	8015B: GASOLINE RAM	IGE				Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1 -	2/22/2008 12:18:49 PM
Surr: BFB		99.0	84-138	%REC	1	2/22/2008 12:18:49 PM
EPA METHOD	8260B: VOLATILES SH	ORT LIST				Analyst: SMP
Methyl tert-buty	/l ether (MTBE)	ND	0.050	mg/Kg	1	2/22/2008 10:46:28 PM
Benzene		ND	0.050	mg/Kg	1	2/22/2008 10:46:28 PM
Toluene		ND	0.050	mg/Kg	1	2/22/2008 10:46:28 PM
Ethylbenzene		ND	0.050	mg/Kg	1	2/22/2008 10:46:28 PM
Xylenes, Total		ND	0.10	mg/Kg	1	2/22/2008 10:46:28 PM
1,2,4-Trimethyl	benzene	ND	0.050	mg/Kg	1	2/22/2008 10:46:28 PM
1,3,5-Trimethyl	benzene	ND	0.050	mg/Kg	1	2/22/2008 10:46:28 PM
Surr: Dibrom	ofluoromethane	86.5	64.4-119	%REC	1	2/22/2008 10:46:28 PM

Hall Environmental Analysis Laboratory, Inc.

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	PA	1SSI	ED	

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

2

Page 2 of 18

Date: 26-Feb-08



PHONE (575) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO. S	AMPLE ID	
	PILE #103	(mg/kg)
1110340-0 1		
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a an an 1979 ann an ann an an ann an an an an an an	· · ·	
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	un handelin for many source de la resta de la fille de la segura de la fille de la segura de la segura de la se	
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	<0.1

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist 30.5

02/24/19

Date

H16948 IEI

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Lab Order:	0802255			Collection Date	2/19/2008	8 10:45:00 AM
Project:	JFJ Land Farm			Date Received	I: 2/21/2008	3
Lab ID:	0802255-08			Matrix	: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	······································	······································		Analyst: SCC
Diesel Range O	rganics (DRO)	ND	10	mg/Kg	1	2/22/2008 6:08:14 PM
Surr: DNOP		93.6	61.7-135	%REC	1	2/22/2008 6:08:14 PM
EPA METHOD	8015B: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2008 4:54:26 PM
Surr: BFB		101	84-138	%REC	1	2/22/2008 4:54:26 PM
EPA METHOD	8260B: VOLATILES SH	ORT LIST				Analyst: SMP
Methyl tert-butyl	ether (MTBE)	ND	0.050	mg/Kg	1	2/23/2008 3:29:08 AM
Benzene		ND	0.050	mg/Kg	1	2/23/2008 3:29:08 AM
Toluene		ND	0.050	mg/Kg	1	2/23/2008 3:29:08 AM
Ethylbenzene		ND	0.050	mg/Kg	1	2/23/2008 3:29:08 AM
Xylenes, Total		ND	0.10	mg/Kg	1	2/23/2008 3:29:08 AM
1,2,4-Trimethylb	penzene	ND	0.050	mg/Kg	1	2/23/2008 3:29:08 AM
1,3,5-Trimethylt	penzene	ND	0.050	mg/Kg	1	2/23/2008 3:29:08 AM
Surr: Dibromo	ofluoromethane	84.4	64.4-119	%REC	1	2/23/2008 3:29:08 AM

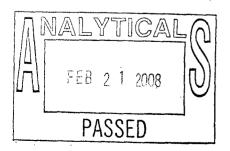
Hall Environmental Analysis Laboratory, Inc.

Industrial Ecosystems, Inc.

CLIENT:

Date: 26-Feb-08

Client Sample ID: Conoco #112



Qualifiers:

- * Value exceeds Maximum Contaminant LevelE Value above quantitation range
- J Analyte detected below quantitation limits
- 5 Analyte detected below quantitation mints
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 8 of 18



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO. SAMPLE ID	(mg/kg	I)
H16948-11 PILE #112	28	
	· · · · · · · · · · · · · · · · · · ·	

Quality Control	50	0
True Value QC	. 50	0
% Recovery	10	0
Relative Percent Difference	<0.	1

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

PASSED

02/24/09 Date

4500-CI'B

H16948 IEI

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CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosyster 0802255 JFJ Land Farm 0802255-10	ns, Inc.		Date Receive	e: 2/19/200	8 11:20:00 AM
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANG	E ORGANICS			فشعف ومطالكي يستحالهم المتكامية	Analyst: SCC
Diesel Range C	Organics (DRO)	ND	10	mg/Kg	1	2/22/2008 7:52:15 PM
Surr: DNOP		95.4	61.7-135	%REC	1	2/22/2008 7:52:15 PM
EPA METHOD	8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2008 5:55:15 PM
Surr: BFB		102	. 84-138	%REC	1	2/22/2008 5:55:15 PM
EPA METHOD	8260B: VOLATILES S	HORT LIST				Analyst: SMP
Methyl tert-buty	/I ether (MTBE)	ND	0.050	mg/Kg	1	2/23/2008 4:39:46 AM
Benzene		ND	0.050	mg/Kg	1	2/23/2008 4:39:46 AM
Toluene		ND	0.050	mg/Kg	1 ·	2/23/2008 4:39:46 AM
Ethylbenzene		ND	0.050	mg/Kg	1	2/23/2008 4:39:46 AM
Xylenes, Total		ND	0.10	mg/Kg	1	2/23/2008 4:39:46 AM
1,2,4-Trimethyl	benzene	ND	0.050	mg/Kg	1	2/23/2008 4:39:46 AM
1,3,5-Trimethyl	benzene	ND	0.050	mg/Kg	1	2/23/2008 4:39:46 AM
Surr: Dibrom	ofluoromethane	83.5	64.4-119	%REC	1	2/23/2008 4:39:46 AM

Hall Environmental Analysis Laboratory, Inc.

 \mathbb{A} 220 2008 PASSED

Qualifiers:

¥ Value exceeds Maximum Contaminant Level Value above quantitation range

- Е J
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank

Date: 26-Feb-08

Н Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 10 of 18

Land Farm 9404-07 R	Result	Date Received: Matrix: PQL Qual Units		Date Analyzed
				· · · · · · · · · · · · · · · · · · ·
Land Farm		Date Received:	9/19/2008	
9404		Collection Date:	9/16/2008	1:45:00 PM
strial Ecosystems, Inc.		Client Sample ID:	XTO#628	
		and the second		

3.0

mg/Kg

760

Hall Environmental Analysis Laboratory, Inc.

Date: 01-Oct-08

10

9/26/2008 5:27:37 PM

SEP 1 9 2008 PASSED

Qualifiers:

Chloride

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S ____ Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 7 of 24

CLIENT:	Industrial Ecosystems	, Inc.		Client Sample II): Burlingtor	n #630
Lab Order:	0802255			Collection Date	e: 2/19/2008	12:10:00 PM
Project:	JFJ Land Farm			Date Received	1: 2/21/2008	
Lab ID:	0802255-13			Matrix	K: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS				Analyst: SCC
Diesel Range C	Drganics (DRO)	- 11	10	mg/Kg	1 .	2/22/2008 9:36:23 PM
Surr: DNOP		104	61.7-135	%REC	1 ′	2/22/2008 9:36:23 PM
EPA METHOD	8015B: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2008 8:27:36 PM
Surr: BFB		102	84-138	%REC	1	2/22/2008 8:27:36 PM
EPA METHOD	8260B: VOLATILES SHO	ORT LIST				Analyst: SMP
Methyl tert-buty	/I ether (MTBE)	ND	0.050	mg/Kg	1	2/23/2008 6:25:46 AM
Benzene		ND	0.050	mg/Kg	. 1	2/23/2008 6:25:46 AM
Toluene		ND	0.050	mg/Kg	1	2/23/2008 6:25:46 AM
Ethylbenzene		ND	Ó.050	mg/Kg	1	2/23/2008 6:25:46 AM
Xylenes, Total		ND	0.10	mg/Kg	1	2/23/2008 6:25:46 AM
1,2,4-Trimethyl	benzene	ND	0.050	mg/Kg	1	2/23/2008 6:25:46 AM
1,3,5-Trimethyl	benzene	ND	0.050	mg/Kg	1	2/23/2008 6:25:46 AM
Surr: Dibrom	ofluoromethane	87.5	64.4-119	%REC	1	2/23/2008 6:25:46 AM

Hall Environmental Analysis Laboratory, Inc.

den e

Date: 26-Feb-08

PASSED

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit



Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO. SAMPLE ID	CI (mg/kg)
H16948-21 PILE #630	80
	1
	· ·
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	<0.1

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

4500-CI'B

FE8 2 0 2008 PASSED H16948 IEI

02/24/109 Date

PLEASE NOTE: Lisbility 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 enalyses 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 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 arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



March 3, 2009

Marcella Marquez JFJ Landfarm, L.L.C. Industrial Ecosystems Inc. Soil Reclamation Center P.O. Box 2043 Farmington, New Mexico 87499

RE: Request for Approval to Reuse Remediated Biopile Soils for the Stabilization/Solidification of Drilling Mud and Tank Bottoms and Sludge JFJ Landfarm, LLC - Industrial Ecosystems Inc. JFJ Landfarm – Permit # NM01-0010B NW/4, SE/4, Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico

Dear Ms. Marquez:

The New Mexico Oil Conservation Division (OCD) has reviewed JFJ Landfarm, LLC's (JFJ) your request, dated February 26, 2009, and analytical results to reuse the remediated soils in the following biopile for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge:

Pile # 105B Graves Pile # 4 Elmridge Pile # 17 Burlington Pile # 46 Basin Pile #54 Basin Pile # 65 Duke Pile # 212 Basin Pile # 503 Williams Pile # 516 Burlington Pile # 557 Dugan Pile # 571 Burlington Pile # 575 Basin Pile # 612 Burlington Pile # 627 XTO Pile # 631 Burlington Pile # 656 Conoco

Pile # 110 Key Energy Pile # 12 Basin Pile # 26 Conoco Pile # 48 Williams Pile # 60 Red Willow Pile # 67 Basin Pile # 334 Basin Pile # 504 Community Pile # 518 Burlington Pile # 559 Basin Pile # 574 Basin Pile # 610 Burlington Pile # 625 Burlington Pile # 655 Community Pile # 634 Burlington



Marcella Marquez Permit NM1-0010B March 3, 2009 Page 2 of 2

Based upon the information provided, the above-referenced biopile is hereby approved for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge.

Please be advised that approval of this request does not relieve the JFJ of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve JFJ of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3489 or edwardj.hansen@state.nm.us.

Sincerely,

Indu

Edward J. Hansen Hydrologist Environmental Bureau

EJH:ejh

cc: OCD District III Office, Aztec



P.O. Box 2043 Farmington, NM 87499

February 26, 2009

Brad A. Jones

Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: Use of reclaimed soil

Dear Brad:

Recent analytical results show that the following biopiles(s) have reached acceptable levels as required by our NMOCD permit.

Industrial Ecosystems Inc.

Fax: (505) 632-1876

Soil Reclamation Center $E \cup A \lor V \models D$

2 PM 1#28CR 3150

Aztec, NM 87410

Phone: (505) 632-1782 2009 MAR

Pile #	Pile #
# 105B Graves	# 110 Key Energy
# 4 Elmridge 🧹	# 12 Basin 🧹
# 17 Burlington —	# 26 Conoco 🗹
# 46 Basin	# 48 Williams –
# 54 Basin /	# 60 Red Willow 🧹
# 65 Duke	# 67 Basin -
# 212 Basin	# 334 Basin
# 503 Williams	# 504 Community [~]
# 516 Burlington	# 518 Burlington /
# 557 Dugan -	# 559 Basin -
# 571 Burlington ~	# 574 Basin 🧹
# 575 Basin —	# 610 Burlington -
# 612 Burlington /	# 625 Burlington /
# 627 XTO 🧹	# 655 Community 🦯
# 631 Burlington -	# 634 Burlington
# 656 Conoco	

We are seeking your approval to recycle this soil by using it to mix/solidify incoming liquid waste.

Respectfully Submitted,

marculeamarguez

Marcella Marquez Administrative Officer

Enclosure(s) - Analytical Reports

CLIENT:	Industrial Ecosystems, Ir	nc.		Client Sample ID	: Graves #	105-B	
Lab Order:	0811466		Collection Date: 11/24/2008 3:50:00 PM				
Project:	JFJ Land Farm			Date Received	: 11/26/20	08	
Lab ID:	0811466-25			Matrix	: SOIL		
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	
EPA METHOD	8015B: DIESEL RANGE OF	RGANICS				Analyst: SCC	
Diesel Range C	Drganics (DRO)	ND	10	mg/Kg	1	12/2/2008	
Surr: DNOP		85.6	61.7-135	%REC	1.	12/2/2008	
EPA METHOD	8015B: GASOLINE RANGE	:				Analyst: DAN	

58.8-123

%REC

1

89.8

PASSED

Qualifiers:

Surr: BFB

Е Estimated value

*

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 25 of 25

12/4/2008 2:17:46 AM

Hall Envi	ronmental Analys	is Aborat		<u>CA</u> 2008		Date:	05-Aug-	08
CLIENT: Project:	Industrial Ecosystems, JFJ Land Farm	Inc.	PASSE			Lat) Order:	0807324
Lab ID:	0807324-01				Collection	Date:	7/22/200	8 1:45:00 PM
Client Sample Analyses	e ID: Crawes #10	Result	POL	Qual	M Units	latrix:	SOIL DF	Date Analyzed
) 300.0: ANIONS	210	3.0	Q uu.	mg/Kg		10	Analyst: SLE 7/30/2008 10:39:05 PN
Lab ID: Client Sample	0807324-02 e ID: Baska #101					Date: Iatrix:		8 2:05:00 PM
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOL Chloride	0 300.0: ANIONS	710	3.0		mg/Kg		10	Analyst: SLI 7/30/2008 10:56:30 Pt
Lab ID: Client Sampl	0807324-03 e ID: Red Cedar #103					Date: Iatrix:		8 2:20:00 PM
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHON Chloride	0 300.0: ANIONS	600	3.0		mg/Kg		10	Analyst: SL 7/30/2008 11:13:54 P
Lab ID: Client Sampl	0807324-04 e ID: Commonly an #58		<u> </u>	(n Date: Iatrix:		8 2:45:00 PM
Analyses		Result	PQL	Qual	Units			Date Analyzed
EPA METHO Chloride	D 300.0: ANIONS	590	3.0		mg/Kg		10	Analyst: SL 7/30/2008 11:31:18 P
Lab ID: Client Samp	0807324-05 le ID: Bart rejon #59					n Date: Aatrix:		8 2:53:00 PM
Analyses	·	Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHO Chloride	D 300.0: ANIONS	150	. 3.0		mg/Kg		10	Analyst: SL 7/30/2008 11:48:43 P
Lab ID: Client Samp	0807324-06 le ID: Graves #105B				Collection N	n Date: Aatrix:)8
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHC Chloride	D 300.0: ANIONS	340	- 3.0		mg/Kg		10	Analyst: SL 7/31/2008 12:06:07 A
Qualifiers:	 Value exceeds Maximum Value above quantitation J Analyte detected below qu ND Not Detected at the Report S pike recovery outside action 	range uantitation limits ting Limit	its -		H Holdir MCL Maxin	ng times fo	or preparati aminant Le	ociated Method Blank on or analysis exceeded vel Page 1

CLIENT:	Industrial Ecosystems	, Inc.		C	lient Sample]	D: Grave	s 105- B
Lab Order:	0701333				Collection Da	te: 1/25/2	2007 11:42:00 AM
Project:	JFJ Land Farm				Date Receive	ed: 1/29/2	2007
Lab ID:	0701333-14				Matr	ix: SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range (Drganics (DRO)	240	10		mg/Kg	1	2/7/2007 6:09:49 AM
Surr: DNOP		106	61.7-135		%REC	1	2/7/2007 6:09:49 AM
EPA METHOD	8015B: GASOLINE RAN	GE					Analyst: LMM
Gasoline Rang	e Organics (GRO)	ND	5.0		mg/Kg	1	1/30/2007 9:01:10 PM
Surr: BFB		241	84-138	S	%REC	1	1/30/2007 9:01:10 PM
EPA METHOD	8021B: VOLATILES						Analyst: LMM
Methyl tert-but	yl ether (MTBE)	ND	0.10		mg/Kg	1	1/30/2007 9:01:10 PM
Benzene		ND	0.050		mg/Kg	1	1/30/2007 9:01:10 PM
Toluene		ND	0.050		mg/Kg	⊳1	1/30/2007 9:01:10 PM
Ethylbenzene		ND	0.050		mg/Kg	1	1/30/2007 9:01:10 PM
Xylenes, Total		ND	0.15		mg/Kg	1	1/30/2007 9:01:10 PM
Surr: 4-Bron	nofluorobenzene	126	68.2-109	S	%REC	1	1/30/2007 9:01:10 PM

Date: 09-Feb-07

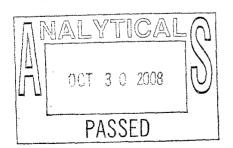
Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits 15/29
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 11-Nov-08

Amalunan		Decult	POI Qual Units	DF	Data Analyzad
Lab ID:	0810611-15		Matrix:	SOIL	
Project:	JFJ Land Farm		Date Received:	10/30/2008	
Lab Order:	0810611		Collection Date:	10/29/2008	1:00:00 PM
CLIENT:	Industrial Ecosystems, In	c.	Client Sample ID:	Key Energy	#110

Analyses	Result	rų. V	ual Units	DF	Date Analyzeu
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/3/2008
Surr: DNOP	97.1	61.7-135	%REC	1	11/3/2008
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/1/2008 7:31:32 PM
Surr: BFB	93.5	58.8-123	%REC	1	11/1/2008 7:31:32 PM



Qualifiers:

* Value exceeds Maximum Contaminant LevelE Estimated value

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Lab ID:	0701333-12	Matrix:	SOIL		
Project:	JFJ Land Farm	Date Received:		1/29/2007	
Lab Order:	0701333	Collection Date:	1/25/20	07 11:50:00 AM	
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	Key 11	0	

EPA METHOD 8021B: VOLATILES					Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	1/30/2007 8:01:00 PM
Benzene	ND	0.050	mg/Kg	1	1/30/2007 8:01:00 PM
Toluene	ND	0.050	mg/Kg	1	1/30/2007 8:01:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	1/30/2007 8:01:00 PM
Xylenes, Total	ND	0.15	mg/Kg	1	1/30/2007 8:01:00 PM
Surr: 4-Bromofluorobenzene	102	68.2-109	%REC	1	1/30/2007 8:01:00 PM

ć				
ualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	Ε	Value above quantitation range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
.*	S	Spike recovery outside accepted recovery limits $1.3/29$		Page 12 o

of 24

- Qua



ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

			C
LAB NO. SAMPLE ID	· · · · ·		(mg/kg)
H16948-10 PILE #110			288
۹. ««۲۳۷۹» (۱۹۷۹) «۱۹۷۹» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲۰۰۰» «۲			
	······································	:	
		· ·	
Quality Control			500
True Value QC			500
% Recovery		:	100
Relative Percent Difference			<0.1

METHOD: Standard Methods Note: Analyses performed on 1:4 w.v aqueous extracts.

4500-CIB

FEB

0

PASSED

2

2008

Chemist

24/199 Date

H16948 IEI

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. All claims, including those for negligence and any other cause whateover shall be deemed waived unlass made in witting 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 incrude by Client, its subsidiaries, atfillates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystems 0705249 JFJ Land Farm 0705249-02	s, Inc.		Date Rece	Date:	5/15/20 5/17/20	007 10:06:00 AM
Analyses		Result	PQL	Qual Units		DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range C	Drganics (DRO)	ND	10	mg/Kg		1	5/18/2007 4:13:54 PM
Surr: DNOP		96.7	61.7-135	%REC		1	5/18/2007 4:13:54 PM
EPA METHOD	8015B: GASOLINE RAM	NGE					Analyst: NSB
Gasoline Rang	e Organics (GRO)	ND	5.0	mg/Kg		1	5/18/2007 4:40:00 PM
Surr: BFB		111	84-138	%REC		1	5/18/2007 4:40:00 PM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Methyl tert-buty	/I ether (MTBE)	ND	0.10	mg/Kg		1	5/18/2007 4:40:00 PM
Benzene		ND	0.050	mg/Kg		1	5/18/2007 4:40:00 PM
Toluene		ND	0.050	mg/Kg		1	5/18/2007 4:40:00 PM
Ethylbenzene		ND	0.050	mg/Kg	7	1	5/18/2007 4:40:00 PM
Xylenes, Total		ND	0.10	mg/Kg		1	5/18/2007 4:40:00 PM
Surr: 4-Brom	ofluorobenzene	86.6	68.2-109	%REC		1	5/18/2007 4:40:00 PM

Date: 21-May-07

U shi Y. A 12. 15-PASSED

Qualifiers:

*

.

- E Value above quantitation range
- 3 Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

В

2/19

CLIENT:	Industrial Ecosyst	ems, Inc.		Clier	nt Sample ID	: Elmridge	#4		
Lab Order: 0811466			Collection Date: 1				1/24/2008 8:31:00 AM		
Project:	JFJ Land Farm			D	ate Received	11/26/200)8		
Lab ID:	0811466-01		·		Matrix	: SOIL	·		
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	300.0: ANIONS						Analyst: RAGS		
Chloride		260	3.0		mg/Kg	10	12/11/2008 10:44:46 PM		
			•						

MALYTICAL MALYTICAL PASSED

*

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Envir	onmental Analy	ate: 21-1	Мау-07			
CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystem 0705249 JFJ Land Farm 0705249-05	is, Inc.		Date Receiv	ate: 5/15	5/2007 10:40:00 AM 7/2007
Analyses		Result	PQL (Qual Units	DF	Date Analyzed
	8015B: DIESEL RANG Drganics (DRO)	E ORGANICS ND	10	mg/Kg	1	Analyst: SCC 5/18/2007 5:57:07 PM
Surr: DNOP		79.3	61.7-135	%REC	1	5/18/2007 5:57:07 PM
EPA METHOD	8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Rang	e Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2007 7:10:34 PM
Surr: BFB		112	84-138	%REC	1	5/18/2007 7:10:34 PM
EPA METHOD	8021B: VOLATILES					Analyst: NSB
Methyl tert-buty	Methyl tert-butyl ether (MTBE)		0.10	mg/Kg	1	5/18/2007 7:10:34 PM
Benzene		ND	0.050	mg/Kg	1	5/18/2007 7:10:34 PM
Toluene		ND	0.050	mg/Kg	1	5/18/2007 7:10:34 PM
Ethylbenzene		ND	0.050	mg/Kg	* 1	5/18/2007 7:10:34 PM
Xylenes, Total		ND	0.10	mg/Kg	1	5/18/2007 7:10:34 PM
Surr: 4-Brom	nofluorobenzene	87.0	68.2-109	%REC	1	5/18/2007 7:10:34 PM

PASSED

Qualifiers:

*

- Е Value above quantitation range
- Analyte detected below quantitation limits J
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits S

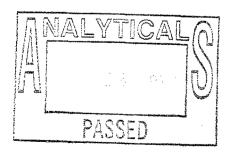
Value exceeds Maximum Contaminant Level

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 5 of 16

Date: 12-Dec-08

CLIENT:	Industrial Ecosyster	ns, Inc.		Client Sample II	D: Basin #12	
Lab Order:	0811466			Collection Dat	te: 11/24/2008	3 8:50:00 AM
Project:	JFJ Land Farm	••		Date Receive	d: 11/26/2008	3
Lab ID:	0811466-02			Matri	ix: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS	an a		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Analyst: RAGS
Chloride		64	0.30	mg/Kg	· 1	12/10/2008 2:57:04 PM



*

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 2 of 25

CLIENT: Industrial Ecos		s, Inc. Client Sample ID:			ID: Burlin	Burlington #17		
Lab Order:	0711113			Collection Da	ate: 11/5/2	11/5/2007 10:15:00 AM		
Project:	JFJ Land Farm			Date Receiv	ed: 11/8/2	2007		
Lab ID:	0711113-06			Mat	rix: SOIL			
Analyses		Result	PQL	Qual Units	DF	Date Analyzed		
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	·			Analyst: SCC		
Diesel Range C	organics (DRO)	15	10	mg/Kg	1	11/13/2007 3:08:38 AM		
Motor Oil Range	e Organics (MRO)	ND	50	mg/Kg	1	11/13/2007 3:08:38 AM		
Surr: DNOP		110	61.7-135	%REC	1	11/13/2007 3:08:38 AM		
EPA METHOD,	8015B: GASOLINE RAI	NGE				Analyst: NSB		
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1	11/12/2007 4:14:32 PM		
Surr: BFB		108	84-138	%REC	1	11/12/2007 4:14:32 PM		

0.10

0.050

0.050

0.050

0.10

68.2-109

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%REC

ND

ND

ND

ND

ND

100

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8021B: VOLATILES

Methyl tert-butyl ether (MTBE)

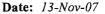
Surr: 4-Bromofluorobenzene

Benzene

Toluene

Ethylbenzene

Xylenes, Total



1

1

1

1

1

1

MALYTIC	ALQ
NOV - 8 2	
PASSE	D

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

7

Analyst: NSB

11/12/2007 4:14:32 PM



05

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

			UI (mailea)
	AMPLE ID		(mg/kg)
H16948-3 P	ILE #17		336
		· · · · · · · · · · · · · · · · · · ·	·
	· · ·	·	
			•
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Quality Control			500
True Value QC			500
% Recovery			100
Relative Percent	Difference		<0.1

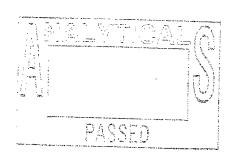
METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

02/54/09 A Date Chemist. FEB 2008 20 PASSED H16948 IEI

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 analysi. All claims, including those for negligence and any other cause whatsoever shall be deemed watved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicat 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 subsidiari affiliates or successors arising out of or related to the performance of services hereunder by Cardinal', regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Rest relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Date: 12-Dec-08

CLIENT:	Industrial Ecosystem	s, Inc.		Clien	it Sample ID	: Conco #26	· ·
Lab Order: 0811466				Co	llection Date	: 11/24/2008	12:30:00 PM
Project:	JFJ Land Farm			D	ate Received	: 11/26/2008	
Lab ID:	0811466-13				Matrix	: SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	The Adding Harpert Provide A Care A			i ni na manana na manina na kili kini ni 2000 ili 1970 ili 1970 ili 1970 ili 1970 ili 1970 ili 1970 il 1970 ili	Analyst: SCC
Diesel Range C	Drganics (DRO)	ND	10		mg/Kg	1	12/2/2008
Surr: DNOP		83.5	61.7-135		%REC	1	12/2/2008
EPA METHOD	8015B: GASOLINE RAM	IGE					Analyst: DAM
Gasoline Range	e Organics (GRO)	ND	5.0		ṁg/Kg	1	12/3/2008 1:37:54 PM
Surr: BFB	· ·	92.3	58.8-123		%REC	1	12/3/2008 1:37:54 PM
EPA METHOD	8021B: VOLATILES					·	Analyst: DAM
Benzene		ND	0.050		mg/Kg	1	12/3/2008 1:37:54 PM
Toluene		ND	0.050		mg/Kg	1	12/3/2008 1:37:54 PM
Ethylbenzene		ND	0.050		mg/Kg	1	12/3/2008 1:37:54 PM
Xylenes, Total		ND	0.15		mg/Kg	1	12/3/2008 1:37:54 PM
Surr: 4-Brom	ofluorobenzene	103	66.8-139		%REC	1	12/3/2008 1:37:54 PM



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Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 13 of 25

- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystem 0809404 JFJ Land Farm 0809404-24	s, Inc.		Co	it Sample ID: llection Date: ate Received: Matrix:	9/16/2008 9/19/2008	11:35:00 AM
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range O	rganics (DRO)	310	100		mg/Kg	10	9/23/2008
Surr: DNOP		0	61.7-135	S	%REC	10	9/23/2008
EPA METHOD	8015B: GASOLINE RAI	NGE					Analyst: DAM
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	9/25/2008 12:25:27 AM
Surr: BFB		83.8	58.8-123		%REC	1	9/25/2008 12:25:27 AM
EPA METHOD	300.0: ANIONS						Analyst: SLB
Chloride		170	3.0		mg/Kg	10	9/29/2008 3:12:56 PM

Qualifiers:

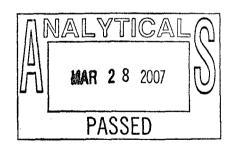
* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

Date: 01-Oct-08

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Han Environmental Analysis Laboratory, me.						28-Mai	r-07
CLIENT:	Industrial Ecosystem	is, Inc.		С	lient Sample ID:		
Lab Order:	0703336				Collection Date:	3/21/20	007 11:30:00 AM
Project:	JFJ Land Farm				Date Received:	3/22/20	007
Lab ID:	0703336-08				Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 801	5B: DIESEL RANG	E ORGANICS	· · · · · · · · · · · · · · · · · · ·		·····		Analyst: SCC
Diesel Range Orga	nics (DRO)	ND	10		mg/Kg	1	3/27/2007 1:04:42 AM
Motor Oil Range Oi	rganics (MRO)	55	50		mg/Kg	1	3/27/2007 1:04:42 AM
Surr: DNOP		88.8	61.7-135		%REC	1	3/27/2007 1:04:42 AM
EPA METHOD 801	15B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Or	ganics (GRO)	ND	5.0		mg/Kg	1	3/26/2007 3:14:25 PM
Surr: BFB		110	84-138		%REC	1	3/26/2007 3:14:25 PM
EPA METHOD 802	21B: VOLATILES						Analyst: NSE
Methyl tert-butyl et	her (MTBE)	ND	0.10		mg/Kg	1	3/26/2007 3:14:25 PM
Benzene		ND	0.050		mg/Kg	1	3/26/2007 3:14:25 PM
Toluene		ND	0.050		mg/Kg	1	3/26/2007 3:14:25 PM
Ethylbenzene		ND	0.050		mg/Kg	1	3/26/2007 3:14:25 PM
Xylenes, Total		ND	0.10		mg/Kg	1	3/26/2007 3:14:25 PM
Surr: 4-Bromofluorobenzene		89.9	68.2-109		%REC	1	3/26/2007 3:14:25 PM



Qua	litiers:	
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- E Value above quantitation range
 - Analyte detected below quantitation limits J
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

- MCL Maximum Contaminant Level
- RL Reporting Limit



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

			C
LAB NO.	SAMPLE ID	•	(mg/kg)
H16948-5	PILE #46	·	320
			,

Quality Contro			500
True Value QC			500
% Recovery			100
Relative Perce	nt Difference		<0.1
ETHOD: Stand	ard Methods	· .	4500-CIB

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

FEB 20 2008 hemist PASSED

Date

H16948 IEI

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. 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 liable for incidental or consequential damages, including, without limitation; business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereinder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

CLIENT:	Industrial Ecosystem	is, Inc.		Client Sample I	D: Willia	ams #48
Lab Order:	0705249			Collection Dat	te: 5/15/2	2007 11:32:00 AM
Project:	JFJ Land Farm			Date Receive	d: 5/17/2	2007
Lab ID:	0705249-08			Matri	ix: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	EORGANICS				Analyst: SCC
Diesel Range C	Draanics (DRO)	ND	10	mg/Kg	1	5/18/2007 7:41:06 PM
Surr: DNOP		87.7	61.7-135	%REC	1	5/18/2007 7:41:06 PM
EPA METHOD	8015B: GASOLINE RA	NGE				Analyst: NSE
Gasoline Rang	e Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2007 9:40:38 PM
Surr: BFB		110	84-138	%REC	1	5/18/2007 9:40:38 PM
EPA METHOD	8021B: VOLATILES					Analyst: NSE
Methyl tert-buty	yi ether (MTBE)	ND	0.10	mg/Kg	1	5/18/2007 9:40:38 PM
Benzene		ND	0.050	mg/Kg	1	5/18/2007 9:40:38 PM
Toluene		ND	0.050	mg/Kg	1	5/18/2007 9:40:38 PM
Ethylbenzene		ND	0.050	mg/Kg	້ 1	5/18/2007 9:40:38 PM
Xylenes, †otal		ND	0.10	mg/Kg	1	5/18/2007 9:40:38 PM
Surr: 4-Bron	nofluorobenzene	85.9	68.2-109	%REC	1	5/18/2007 9:40:38 PM

MALYTICAL MAY 2 1 2007 PASSED

Date: 21-May-07

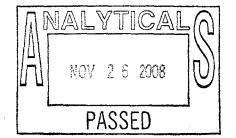
			······································		
Qualifiers:	÷	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	-	E	Value above quantitation range	н	Holding times for preparation or analysis exceeded
		J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	:	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	1	S	Spike recovery outside accepted recovery limits		Page 8

8/19

Page 8 of 16

CLIENT:	Industrial Ecosystem	is, Inc.		Client Sample	ID: Williams	#48
Lab Order:	0811466			Collection Da	ate: 11/24/200	8 9:15:00 AM
Project:	JFJ Land Farm			Date Receiv	ed: 11/26/200	
Lab ID:	0811466-03			Mat	rix: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS	میں نیست بر تکن _{یب می} ک نسب				Analyst: RAGS
Chloride		93	0.30	mg/Kg	1	12/10/2008 3:14:28 PM

Date: 12-Dec-08



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Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 3 of 25

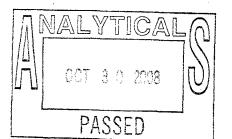
CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystem: 0704405 JFJ Land Farm 0704405-09	s, Inc.		C	ient Sample ID: Collection Date: Date Received: Matrix:	4/25/2 4/26/2	2007 10:10:00 AM
Analyses	· · · · · · · · · · · · · · · · · · ·	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range C	Drganics (DRO)	75	10	I	mg/Kg	1	4/28/2007 7:20:53 PM
Surr: DNOP		105	61.7-135		%REC	1	4/28/2007 7:20:53 PM
EPA METHOD	8015B: GASOLINE RAM	NGE					Analyst: NSB
Gasoline Rang	e Organics (GRO)	ND	5.0	5	mg/Kg	1	4/27/2007 4:03:39 PM
Surr: BFB		113	84-138		%REC	1	4/27/2007 4:03:39 PM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Methyl tert-buty	yl ether (MTBE)	ND	0.10	1	mg/Kg	1	4/27/2007 4:03:39 PM
Benzene		ND	0.050		mg/Kg	1	4/27/2007 4:03:39 PM
Toluene		ND	0.050	1	mg/Kg "	1	4/27/2007 4:03:39 PM
Ethylbenzene		ND	0.050	1	mg/Kg	1	4/27/2007 4:03:39 PM
Xylenes, Total		ND	0.10	ļ	mg/Kg	1	4/27/2007 4:03:39 PM
Surr: 4-Brom	nofluorobenzene	90.0	68.2-109		%REC	1	4/27/2007 4:03:39 PM

Date: 30-Apr-07

Qualifiers: * Value exceeds Maximum Contaminant Level В Analyte detected in the associated Method Blank Е Value above quantitation range Holding times for preparation or analysis exceeded Н Analyte detected below quantitation limits J MCL Maximum Contaminant Level ND Not Detected at the Reporting Limit RL Reporting Limit Spike recovery outside accepted recovery limits 9 / 18 Page 9 of 16 S

CLIENT: Industrial Ecosystems, Inc.				Client Sample ID: Basin #54			
Lab Order:	0810611	• • •		Collection	Date:	10/29/2008	9:30:00 AM
Project: JFJ Land Farm			Date Received: 10/30/2008			3	
Lab ID:	0810611-05			Ν	latrix:	SOIL	
Analyses		Result	PQL	Qual Units		DF	Date Analyzed
EPA METHOD	300.0: ANIONS						Analyst: SLB
Chloride		440	3.0	mg/Kg		10	11/10/2008 11:42:08 AN

Date: 11-Nov-08



Qualifiers:

E Estimated value

*

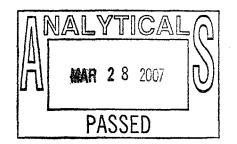
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 5 of 24

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystem 0703336 JFJ Land Farm 0703336-05	ıs, Inc.		Client Sample ID: Collection Date: Date Received: Matrix:		2007 10:20:00 AM 2007
Analyses		Result		Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANG	EORGANICS		· · · · · · · · · · · · · · · · · · ·		Analyst: SCC
Diesel Range (Organics (DRO)	11	10	mg/Kg	1	3/26/2007 9:05:54 PM
Surr: DNOP		96.0	61.7-135	%REC	1	3/26/2007 9:05:54 PM
EPA METHOD	8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Rang	e Organics (GRO)	ND	5.0	mg/Kg	1	3/26/2007 1:44:15 PM
Surr: BFB		112	84-138	%REC	1	3/26/2007 1:44:15 PM
EPA METHOD	8021B: VOLATILES					Analyst: NSB
Methyl tert-but	yl ether (MTBE)	ND	0.10	mg/Kg	1	3/26/2007 1:44:15 PM
Benzene		ND	0.050	mg/Kg	1	3/26/2007 1:44:15 PM
Toluene		ND	0.050	mg/Kg	1	3/26/2007 1:44:15 PM
Ethylbenzene		ND	0.050	mg/Kg	≈1	3/26/2007 1:44:15 PM
Xylenes, Total		ND	0.10	mg/Kg	1	3/26/2007 1:44:15 PM
Surr: 4-Bron	nofluorobenzene	91.4	68.2-109	%REC	1	3/26/2007 1:44:15 PM



Qualifiers:

*

- E Value above quantitation range
- J Analyte detected below quantitation limits

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

B Analyte detected in the associated Method Blank

Date: 28-Mar-07

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

5/15

Hall Envir	ronmental Anal	tory, Inc. Date: 12-Dec-08					
CLIENT:	Industrial Ecosyster	ns, Inc.		Client Sample II	D: Red Will	ow #60	
Lab Order:	0811466		Collection Date: 11/24/2008 9:30:00 AM				
Project: JFJ Land Farm			Date Received: 11/26/2008				
Lab ID:	0811466-04			Matri	x: SOIL		
Analyses	· ·	Result	PQL (Qual Units	DF	Date Analyzed	
EPA METHOD	300.0: ANIONS				<u></u>	Analyst: RAGS	
Chloride		140	3.0	mg/Kg	10	12/11/2008 11:02:10 PM	

\square	MAL	YT	ICA	
	NGY	2.6	2008	D
	P/	ASS	ED	

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Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits S

Value exceeds Maximum Contaminant Level

В Analyte detected in the associated Method Blank

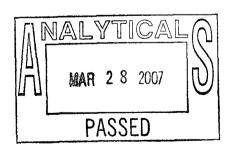
Н Holding times for preparation or analysis exceeded

Page 4 of 25

- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:	JENT: Industrial Ecosystems, Inc. Client Sample ID:			Duke 6	55			
Lab Order:	0703336		Collection Date:			3/21/2007 10:42:00 AM		
Project:	JFJ Land Farm				Date Received:	3/22/20	007	
Lab ID:	0703336-06				Matrix:	SOIL		
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	
EPA METHOD	BO15B: DIESEL RANGE	ORGANICS					Analyst: SCC	
Diesel Range O	rganics (DRO)	14	10		mg/Kg	1	3/26/2007 11:56:28 PM	
Motor Oil Range	e Organics (MRO)	56	50		mg/Kg	1	3/26/2007 11:56:28 PM	
Surr: DNOP		95.1	61.7-135		%REC	1	3/26/2007 11:56:28 PM	
EPA METHOD	8015B: GASOLINE RAI	NGE					Analyst: NSB	
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	3/26/2007 2:14:20 PM	
Surr: BFB		109	84-138		%REC	1	3/26/2007 2:14:20 PM	
EPA METHOD	8021B: VOLATILES						Analyst: NSB	
Methyl tert-butyl	ether (MTBE)	ND	0.10		mg/Kg	1	3/26/2007 2:14:20 PM	
Benzene		ND	0.050		mg/Kg	1	3/26/2007 2:14:20 PM	
Toluene		ND	0.050		mg/Kg	1	3/26/2007 2:14:20 PM	
Ethylbenzene		ND	0.050		mg/Kg	1	3/26/2007 2:14:20 PM	
Xylenes, Total		ND	0.10		mg/Kg	1	3/26/2007 2:14:20 PM	
Surr: 4-Brome	ofluorobenzene	88.4	68.2-109		%REC	1	3/26/2007 2:14:20 PM	

Hall Environmental Analysis Laboratory, Inc.Date: 28-Mar-07



Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	E	Value above quantitation range	н	Holding times for preparation or analysis exceeded
	j	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit

S Spike recovery outside accepted recovery limits

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6/15



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO.	SAMPLE ID	CI ⁻ (mg/kg)
H16948-6	PILE #65	192
	ng anna y 2 pp 1880 in ann an a	
	aa gerennen gerennen an de seeren aan de seeren de see	
······		
<u>`</u>		
Quality Contro	X	500
True Value Q	C	500
% Recovery		100
Relative Perc	ent Difference	<0.1

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts.

FEB 2008 0 Chemist PASSED

02/24/09 Date

H16948 IEI

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Date: 12-Dec-08

CLIENT:	Industrial Ecosystem	s, Inc.		Client Sample II): Basin #67	
Lab Order:	0811466			Collection Date	e: 11/24/200	8 1:25:00 PM
Project:	JFJ Land Farm	·		Date Received	1: 11/26/200	8
Lab ID:	0811466-16			Matri	K: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	a an			Analyst: SCC
Diesel Range C	rganics (DRO)	ND	10	mg/Kg	1	12/2/2008
Surr: DNOP		85.6	61.7-135	%REC	1	12/2/2008
EPA METHOD	8015B: GASOLINE RAI	NGE				Analyst: DAM
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1	12/3/2008 3:09:24 PM
Surr: BFB		92.9	58.8-123	%REC	1	12/3/2008 3:09:24 PM
EPA METHOD	8021B: VOLATILES					Analyst: DAM
Benzene		ND	0.050	mg/Kg	1	12/3/2008 3:09:24 PM
Toluene		ND	0.050	mg/Kg	1	12/3/2008 3:09:24 PM
Ethylbenzene		ND	0.050	mg/Kg	1	12/3/2008 3:09:24 PM
Xylenes, Total		ND	0.15	mg/Kg	1	12/3/2008 3:09:24 PM
Surr: 4-Brom	ofluorobenzene	102	66.8-139	%REC	1	12/3/2008 3:09:24 PM
EPA METHOD	300.0: ANIONS					Analyst: RAGS
Chloride		16	0.30	mg/Kg	1	12/10/2008 7:18:13 PM

	VALYTICAL	\bigcirc
	1977 <u>- 1</u> 4 19 88	D
-	PASSED	

*

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

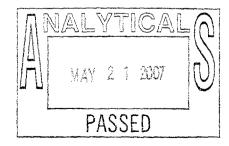
Value exceeds Maximum Contaminant Level

- $B \qquad \text{Analyte detected in the associated Method Blank} \, \cdot \,$
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 16 of 25

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystems 0705249 JFJ Land Farm 0705249-10	s, Inc.		Date Receiv	ate: 5/15/	2007 12:00:00 PM 2007
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	-			Analyst: SCC
Diesel Range (Drganics (DRO)	ND	10	mg/Kg	1	5/18/2007 9:59:50 PM
Surr: DNOP		87.3	61.7-135	%REC	1	5/18/2007 9:59:50 PM
EPA METHOD	8015B: GASOLINE RAM	NGE				Analyst: NSB
Gasoline Rang	e Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2007 10:40:51 PM
Surr: BFB		111	84-138	%REC	1	5/18/2007 10:40:51 PM
EPA METHOD	8021B: VOLATILES					Analyst: NSB
Methyl tert-but	yl ether (MTBE)	ND	0.10	mg/Kg	1	5/18/2007 10:40:51 PM
Benzene		ND	0.050	mg/Kg	1	5/18/2007 10:40:51 PM
Toluene		ND	0.050	mg/Kg	1	5/18/2007 10:40:51 PM
Ethylbenzene		ND	0.050	mg/Kg	[*] 1	5/18/2007 10:40:51 PM
Xylenes, Total		ND	0.10	mg/Kg	1	5/18/2007 10:40:51 PM
Surr: 4-Bron	nofluorobenzene	86.3	68.2-109	%REC	1	5/18/2007 10:40:51 PM

Date: 21-May-07



Qualifiers:

*

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

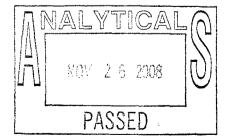
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

10/19

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CLIENT:	Industrial Ecosysten	ns, Inc.		Clier	t Sample ID:	Basin #212	,
Lab Order:	0811466			Co	llection Date:	: 11/24/2008	9:45:00 AM
Project:	JFJ Land Farm			D	ate Received:	11/26/2008	- -
Lab ID:	0811466-05				Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS				and and a second se		Analyst: RAGS
Chloride	,	430	3.0		mg/Kg	10	12/11/2008 11:54:25 PM

Date: 12-Dec-08



*

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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CLIENT:	Industrial Ecosystem	is, Inc.		Clie	ent Sample ID:	Basin	#334
Lab Order:	0712353			С	ollection Date:	12/26	/2007 10:00:00 AM
Project:	JFJ Land Farm			J	Date Received:	12/27	/2007
Lab ID:	0712353-04		,		Matrix:		
Analyses	· ·	Result	PQL	Qual L	Jnits	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANG	E ORGANICS			<u> </u>		Analyst: SCC
Diesel Range C	Organics (DRO)	25	10	n	ng/Kg	1	1/2/2008 10:12:20 AM
Motor Oil Range	e Organics (MRO)	ND	50	n	ng/Kg	1	1/2/2008 10:12:20 AM
Surr: DNOP		97.8	61.7-135	%	6REC	1	1/2/2008 10:12:20 AM
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	5.0	π	ng/Kg	1	12/28/2007 1:18:01 PM
Surr: BFB	· ·	111	84-138	%	6REC	1	12/28/2007 1:18:01 PM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Methyl tert-buty	l ether (MTBE)	ND	0.10	rr	ng/Kg	1	12/28/2007 1:18:01 PM
Benzene		ND	0.050	n	ng/Kg	1	12/28/2007 1:18:01 PM
Toluene		ND	0.050	'n	ng/ Kg	1	12/28/2007 1:18:01 PM
Ethylbenzene		ND	0.050	n	ng/Kg	1	12/28/2007 1:18:01 PM
Xylenes, Total		ND	0.10	'n	ng/Kg	1	12/28/2007 1:18:01 PM
Surr: 4-Brom	ofluorobenzene	100	81.4-117	%	6REC	1	12/28/2007 1:18:01 PM

JAN - 3 2008 PASSED

Date: 03-Jan-08

Qualifiers:

*

Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO. 8	SAMPLE ID		CI (mg/kg)
H16948-13 F	PILE #334		272
		••••••••••••••••••••••••••••••••••••••	
			A
-	·	-	
	· · · · · · · · · · · · · · · · · · ·		
			1. A 2000 A 20. A.
Quality Control			500
True Value QC	· ·		500
% Recovery			100
Relative Percent	Difference		<0.1

METHOD: Standard Methods Note: Analyses performed on 1:4 w/v aqueous extracts. 4500-CIB

temist 2008 FA PASSED

92/24/09

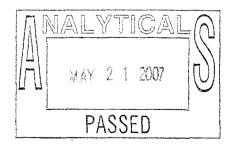
Date

H16948 IEI

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CLIENT: Lab Order:	Industrial Ecosystem 0705249	is, Inc.			ent Sample ID: ollection Date:		ams #503 2007 12:45:00 PM	
Project:	JFJ Land Farm				Date Received:	: 5/17/2	2007	
Lab ID:	0705249-13			Matrix:		SOIL		
Analyses		Result	PQL	Qual U	Jnits	DF	Date Analyzed	
EPA METHOD	8015B: DIESEL RANGI	ORGANICS					Analyst: SCC	
Diesel Range C	Drganics (DRO)	ND	10	r	ng/Kg	1	5/20/2007 1:29:49 PM	
Motor Oil Rang	e Organics (MRO)	ND	50	r	ng/Kg	1	5/20/2007 1:29:49 PM	
Surr: DNOP		68.1	61.7-135	0	%REC	1	5/20/2007 1:29:49 PM	
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: NSB	
Gasoline Rang	e Organics (GRO)	ND	5.0	r	ng/Kg	1	5/19/2007 12:10:47 AM	
Surr: BFB		112	84-138	C	%REC	1	5/19/2007 12:10:47 AM	
EPA METHOD	8021B: VOLATILES						Analyst: NSB	
Methyl tert-buty	/l ether (MTBE)	ND	0.10	r	ng/Kg	1	5/19/2007 12:10:47 AM	
Benzene		ND	0.050	r	ng/Kg	1	5/19/2007 12:10:47 AM	
Toluene		ND	0.050	ſ	ng/Kg	1	5/19/2007 12:10:47 AM	
Ethylbenzene		ND	0.050	ſ	ng/Kg	1	5/19/2007 12:10:47 AM	
Xylenes, Total		ND	0.10	r	ng/Kg	1	5/19/2007 12:10:47 AM	
Surr: 4-Brom	ofluorobenzene	87.4	68.2-109	C	%REC	1	5/19/2007 12:10:47 AM	

Date: 21-May-07



Qualifiers:

*

- Value exceeds Maximum Contaminant Level E Value above quantitation range
- Analyte detected below quantitation limits J
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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13/19



ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO. S		Cl (ma/ka)
	ILE #503	(mg/kg)
T10340-13 F		I 444
		······································
	······································	:
		······································
W. 511110.000		
	····	·
Quality Control	· · ·	500
True Value QC	· .	500
% Recovery		100
Relative Percent	Difference	<0.1

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

2002 Ö PASSED

02/04/09 Date

4500-CIB

H16948 IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 02/23/09 Reporting Date: 02/25/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

LAB NUMBER

Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: AB

GRO DRO (C₆-C₁₀) (>C₁₀-C₂₈) (mg/kg) (mg/kg)

ANALYSIS DATE: 02/24/09 02/24/09 PILE # 504 H16948-26 <10.0 <10.0 **Quality Control** 570 583 **True Value QC** 500 500 117 % Recovery 114 **Relative Percent Difference** 5.3 6.0

SAMPLE ID

METHOD: SW-846 8015 M

2008 PASSED

H16948-26 TPH8015 IEI

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Hall Environmental Analysis Laboratory, Inc.					Date	12-Oct-06 ·		
CLIENT:	Industrial Ecosystems,	Inc.		C	lient Sample ID:	Pile 50	D4 XTO/CDX	
Lab Order:	0610098			Collection Date:	10/9/2006 9:30:00 AM			
Project:	JFJ Land Farm				Date Received:	10/10/	2006	
Lab ID:	0610098-04				Matrix	SOIL		
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	

				Analyst: NSB
ND	0.10	mg/Kg	2	10/11/2006 10:24:50 PM
ND	0.10	mg/Kg	2	10/11/2006 10:24:50 PM
ND	0.10	mg/Kg	2	10/11/2006 10:24:50 PM
ND	0.30	mg/Kg	2	10/11/2006 10:24:50 PM
95.0	76.8-115	%REC	2	10/11/2006 10:24:50 PM
	ND ND ND	ND 0.10 ND 0.10 ND 0.30	ND 0.10 mg/Kg ND 0.10 mg/Kg ND 0.30 mg/Kg	ND 0.10 mg/Kg 2 ND 0.10 mg/Kg 2 ND 0.10 mg/Kg 2 ND 0.30 mg/Kg 2

Qualifiers:	*	Value exceeds Maximum Contaminant Level	в	Analyte detected in the associated Method Blank
	Е	Value above quantitation mage	н	Holding times for preparation or analysis exceeded
	ł	Analyte detected below quantitation limits	MCL.	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits $5/14$		Page 4 of 11

Hall Envir	atory, Inc. Date: 12-Dec-08						
CLIENT:	Industrial Ecosystems, In	c.		Client San	ple ID:	Communi	ity #504
Lab Order:	0811466			Collectio	n Date:	11/24/200	08 10:06:00 AM
Project:	JFJ Land Farm			Date R	eceived:	11/26/200)8
Lab ID:	0811466-06				Matrix:	SOIL	
Analyses	₩ ¹ ₩	Result	PQL	Qual Unit	s	DF	Date Analyzed
EPA METHOD	300.0: ANIONS						Analyst: RAGS
Chloride		140	3.0	mg/K	g ·	10	12/12/2008 12:11:50 AM

NALYTICAL	
PASSED	

*

Qualifiers:

Value exceeds Maximum Contaminant Level E Estimated value

J Analyte detected below quantitation limits

Not Detected at the Reporting Limit ND

- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc. Date:						21-Ma	21-May-07		
CLIENT: Lab Order:	Industrial Ecosystem 0705249	is, Inc.			-	Burlington #516 5/15/2007 1:00:00 PM			
Project:	JFJ Land Farm			Dat	e Received:	5/17/20	007		
Lab ID:	0705249-14				Matrix:	SOIL	· .		
Analyses	<i></i>	Result	PQL	Qual Unit	s	DF	Date Analyzed		
EPA METHOD	8015B: DIESEL RANGE	EORGANICS					Analyst: SCC		
Diesel Range C	Organics (DRO)	ND	10	mg/K	g	1	5/20/2007 2:04:10 PM		
Surr: DNOP		98.1	61.7-135	%RE	C	1	5/20/2007 2:04:10 PM		
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: NSB		
Gasoline Rang	e Organics (GRO)	ND	5.0	mg/K	g	1	5/19/2007 12:40:46 AM		
Surr: BFB		111	84-138	%RE	С	1	5/19/2007 12:40:46 AM		
EPA METHOD	8021B: VOLATILES						Analyst: NSB		
Methyl tert-buty	/I ether (MTBE)	ND	0.10	mg/K	g	1	5/19/2007 12:40:46 AM		
Benzene		ND	0.050	mg/K	9	1	5/19/2007 12:40:46 AM		
Toluene		ND	0.050	mg/K	9	1	5/19/2007 12:40:46 AM		
Ethylbenzene		ND	0.050	mg/K	g '	1	5/19/2007 12:40:46 AM		
Xylenes, Total		ND	0.10	mg/K	g	1	5/19/2007 12:40:46 AM		
Surr: 4-Brom	ofluorobenzene	86.5	68.2-109	%RE	с	1	5/19/2007 12:40:46 AM		

NAY. 2007 2 PASSED

* Value exceeds Maximum Contaminant Level В Analyte detected in the associated Method Blank E Value above quantitation range н Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits MCL Maximum Contaminant Level ND Not Detected at the Reporting Limit RL Reporting Limit S Spike recovery outside accepted recovery limits

14/19

Page 14 of 16

Qualifiers:

Hall Environmental Analysis Laborator				tory, Inc. Date: 11-Nov-08					
CLIENT: Industrial Ecosystems, Inc.			Client Sample ID: Burlington #516						
Lab Order:	0810611			Collection Dat	te: 10/29/20	08 10:15:00 AM			
Project:	JFJ Land Farm			Date Receive	d: 10/30/20	08			
Lab ID:	0810611-08		Matrix: SO			SOIL			
Analyses	- -	Result	PQL	Qual Units	DF	Date Analyzed			
EPA METHOD	300.0: ANIONS	····		· · · · · · · · · · · · · · · · · · ·		Analyst: SLB			
Chloride		95	0.30	mg/Kg	1	11/7/2008 7:27:29 PM			

OCT 3 0 2008	
PASSED	

Qualifiers:	*	Value exc
	Е	Estimated

- Value exceeds Maximum Contaminant Level
- value J
- Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank

- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level

Reporting Limit RL

Page 8 of 24

Analyses		Result	PQL Qual	Units	DF	Date Analyzed
Lab ID:	0702228-08			Matrix:	SOIL	
Project:	JFJ Land Farm			Date Received:	2/21/20	007
Lab Order:	0702228			Collection Date:	2/20/20	007 9:15:00 AM
CLIENT:	Industrial Ecosystems, In	с.	C	lient Sample ID:	Burling	gton 518

Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS			······	Analyst: SCC
Diesel Range Organics (DRO)	23	10	mg/Kg	1	2/21/2007 9:08:53 PM
Surr: DNOP	90.0	61.7-135	%REC	1	2/21/2007 9:08:53 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2007 12:32:09 AM
Surr: BFB	107	84-138	%REC	1	2/22/2007 12:32:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	2/22/2007 12:32:09 AM
Benzene	ND	0.050	mg/Kg	1	2/22/2007 12:32:09 AM
Toluëne	ND	0.050	mg/Kg	<u>,</u> 1	2/22/2007 12:32:09 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/22/2007 12:32:09 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/22/2007 12:32:09 AM
Surr: 4-Bromofluorobenzene	90.1	68.2-109	%REC	1	2/22/2007 12:32:09 AM

PASSED

Qualifiers:	*	Value exceeds Maxir

- Value exceeds Maximum Contaminant Level
 E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits 8/14
- B Analyte detected in the associated Method Blank

Date: 22-Feb-07

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 8 of 12

CLIENT:	Industrial Ecosystems, Inc.		Client Sample ID: Burlington #518					
Lab Order:	0811466			Co	llection Dat	te: 11/24/200	8 10:42:00 AM	
Project:	JFJ Land Farm		Date Received: 11/26/2008				8	
Lab ID:	0811466-08		Matrix: SOIL					
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	
EPA METHOD	300.0: ANIONS		7 3 سەئىپىر ب ەرەللە ككە كەك كەكرىپى				Analyst: RAGS	
Chloride		220	3.0		mg/Kg	10	12/12/2008 12:46:39 AM	

Date: 12-Dec-08

A BOY 2 9 2008 PASSED

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Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 8 of 25

CLIENT: Lab Order:	Industrial Ecosystems 0702228	s, Inc.			ient Sample ID: Collection Date:	•	
Project:	JFJ Land Farm				Date Received:	2/21/2	2007
Lab ID:	0702228-10				Matrix:	SÓIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range (Drganics (DRO)	ND	10		mg/Kg	1	2/21/2007 10:16:46 PM
Surr: DNOP		70.0	61.7-135		%REC	1	2/21/2007 10:16:46 PM
EPA METHOD	8015B: GASOLINE RAN	IGE					Analyst: NSB
Gasoline Rang	e Organics (GRO)	ND	5.0		mg/Kg	1	2/22/2007 1:32:12 AM
Surr: BFB		108	84-138		%REC	1	2/22/2007 1:32:12 AM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Methyl tert-buty	yl ether (MTBE)	ND	0.10		mg/Kg	1	2/22/2007 1:32:12 AM
Benzene		ND	0.050		mg/Kg	1	2/22/2007 1:32:12 AM
Toluene		ND	0.050		mg/Kg	1	2/22/2007 1:32:12 AM
Ethylbenzene		ND	0.050		mg/Kg	1	2/22/2007 1:32:12 AM
Xylenes, Total		ND	0.10		mg/Kg	1	2/22/2007 1:32:12 AM
Surr: 4-Brom	nofluorobenzene	90.8	68.2-109		%REC	1	2/22/2007 1:32:12 AM

PASSED

Qualifiers:

Frank Press

Section Super States

1. A

* Value exceeds Maximum Contaminant Level

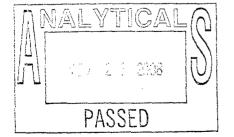
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limit: 10 / 14
- B Analyte detected in the associated Method Blank

Date: 22-Feb-07

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:	Industrial Ecosyster	ns, Inc.	C	lient Sample II	D: Dugans #	557		
Lab Order:	0811466			Collection Dat	e: 11/24/200	08 11:02:00 AM		
Project:	JFJ Land Farm			Date Receive	d: 11/26/200	11/26/2008		
Lab ID:	0811466-09			Matri	x: SOIL			
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed		
EPA METHOD Chloride	300.0: ANIONS	600	3.0	mg/Kg	10	Analyst: RAGS 12/12/2008 1:04:04 AM		

Date: 12-Dec-08



*

Qualifiers:

E Estimated value

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

9

Page 9 of 25

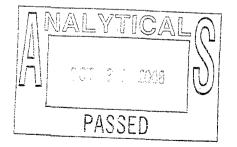
Date: 11-Nov-08

CLIENT:	Industrial Ecosystems, Inc.
Lab Order:	0810611
Project:	JFJ Land Farm
Lab ID:	0810611-16

Client Sample ID: Basin #559 Collection Date: 10/29/2008 1:20:00 PM Date Received: 10/30/2008

Matrix: SOIL

Analyses	Result	PQL O	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/3/2008
Surr: DNOP	101	61.7-135	%REC	1	11/3/2008
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/1/2008 8:01:51 PM
Surr: BFB	95.2	58.8-123	%REC	1	11/1/2008 8:01:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	0.050	mg/Kg	1	11/4/2008 12:12:40 PM
Toluene	ND	0.050	mg/Kg	1	11/4/2008 12:12:40 PM
Ethylbenzene	ND	0.050	mg/Kg	1	11/4/2008 12:12:40 PM
Xylenes, Total	ND	0.15	mg/Kg	1	11/4/2008 12:12:40 PM
Surr: 4-Bromofluorobenzene	117	66.8-139	%REC	1	11/4/2008 12:12:40 PM



Qualifiers:

E Estimated value

*

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S
- Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 16 of 24

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosysten 0809036 JFJ Land Farm 0809036-11	ns, Inc.	Client Sample ID: Basin #559 Collection Date: 9/2/2008 11:35:00 Date Received: 9/3/2008 Matrix: SOIL				
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANG	E ORGANICS					Analyst: SCC
Diesel Range C	Organics (DRO)	340	100		mg/Kg	10	9/6/2008
Surr: DNOP		0	61.7-135	s	%REC	10	9/6/2008
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: DAM
Gasoline Range	e Organics (GRO)	ND	5.0		mg/Kg	1	9/13/2008 4:23:29 AM
Surr: BFB		78.6	58.8-123		%REC	1	9/13/2008 4:23:29 AM
EPA METHOD	300.0: ANIONS						Analyst: SLB
Chloride		170	3.0		mg/Kg	10	9/11/2008 10:39:31 AM

Qualifiers:

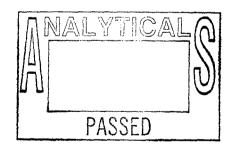
- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accented recovery limits
- B Analyte detected in the associated Method Blank

Date: 17-Sep-08

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

		and the second secon	
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID: Burlington 57	1
Lab Order:	0701333	Collection Date: 1/25/2007 1:2	0:00 PM
Project:	JFJ Land Farm	Date Received: 1/29/2007	
Lab ID:	0701333-05	Matrix: SOIL	

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	33	10	mg/Kg	1	2/6/2007 11:58:36 PM
Surr: DNOP	102	61.7-135	%REC	1	2/6/2007 11:58:36 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: LMM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/30/2007 3:30:22 PM
Surr: BFB	107	84-138	%REC	1	1/30/2007 3:30:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	1/30/2007 3:30:22 PM
Benzene	ND	0.050	mg/Kg	. 1	1/30/2007 3:30:22 PM
Toluene	ND	0.050	mg/Kg	۰ ٦	1/30/2007 3:30:22 PM
Ethylbenzene	ND	0.050	mg/Kg	1	1/30/2007 3:30:22 PM
Xylenes, Total	ND	0.15	mg/Kg	1	1/30/2007 3:30:22 PM
Surr: 4-Bromofluorobenzene	87.9	68.2-109	%REC	1	1/30/2007 3:30:22 PM



NALY FEB PASSED

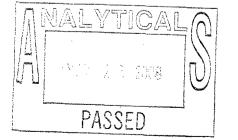
Date: 09-Feb-07

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits 6 / 29
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:	Industrial Ecosysten	ns, Inc.		Client Sample II	D: Burlingto	n #571
Lab Order:	0811466			Collection Dat	e: 11/24/200)8 11:16:00 AM
Project:	JFJ Land Farm			Date Receive	d: 11/26/200)8
Lab ID:	0811466-10			Matri	x: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS					Analyst: RAGS
Chloride		330	3.0	mg/Kg	10	12/12/2008 1:21:29 AM

Date: 12-Dec-08



*

Qualifiers:

E Estimated value

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS; INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 02/23/09 Reporting Date: 02/25/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: AB

DRO (>C₁₀-C₂₈) (mg/kg)

LAB NUMBER SAMPLE ID

 ANALYSIS DATE:
 02/24/09

 H16948-24
 PILE # 574
 <10.0</td>

 Quality Control
 583

 True Value QC
 500

 % Recovery
 117

 Relative Percent Difference
 6.0

METHOD: SW-846 8015 M

Date Chemist FEB 1 2008 PASSED H16948-24 8015DRO IEI

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Analyses	Resul		DF	Date Analyzed		
Lab ID:	0809404-16	Matrix	: SOIL			
Project:	JFJ Land Farm	Date Received	: 9/19/2008	3		
Lab Order:	0809404	Collection Date	: 9/16/2008	8 9:00:00 AM		
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID	: Basin #57	: Basin #574		

Date: 01-Oct-08

Hall Envi ronmental Analysis Laboratory Inc

· EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/24/2008 6:20:48 PM
Surr: BFB	88.4	58.8-123	%REC	1	9/24/2008 6:20:48 PM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	170	3.0	mg/Kg	10	9/29/2008 12:53:39 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range J Analyte detected below quantitation limits
- ND
- Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 16 of 24



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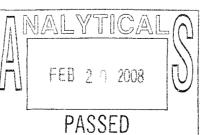
ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	02/23/09	02/23/09	02/23/09	02/23/09
H16948-24 PILE #574	<0.050	<0.050	<0.050	<0.300
				· · · · · · · · · · · · · · · · · · ·
		·		·····
		- - - -		www
Quality Control	0.055	0.055	0.055	0,166
True Value QC	0.050	0.050	0.050	0.150
% Recovery	110	110	110	111
Relative Percent Difference	<1.0	3.4	2.5	2.9
METHOD: EPA SW-846 8021B		*****	·····	

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist





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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 02/23/09 Reporting Date: 02/25/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: AB

DRO (>C₁₀-C₂₈) (mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DA	TE:	02/24/09
H16948-23	PILE # 575	<10.0
Quality Control		583
True Value QC		500
% Recovery		117
Relative Percer		

METHOD: SW-846 8015 M

Date L FEB 2 n 2008 PASSED H16948-23 8015DRO IEI

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CLIENT:	Industrial Ecosystems, Ind			Clien	t Sample ID:	Basin #575	
Lab Order:	0809404			Col	lection Date:	9/16/2008	9:55:00 AM
Project:	JFJ Land Farm		Date Received: 9/19/2008			,	
Lab ID:	0809404-19				Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
	8015B: GASOLINE RANGE						Analyst: DAR
	8015B: GASOLINE RANGE e Organics (GRO)	ND	5.0		mg/Kg	1	Analyst: DAN 9/24/2008 7:52:03 PM
		ND 90.2	5.0 58.8-123		mg/Kg %REC	1 1	•
Gasoline Rang Surr: BFB						1 1	9/24/2008 7:52:03 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		Page 19 o

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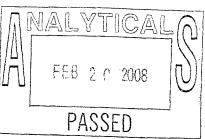
ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	02/23/09	02/23/09	02/23/09	02/23/09
H16948-23 PILE #575	<0.050	<0.050	<0,050	<0.300
		· · · · · · · · · · · · · · · · · · ·		
	,			
		- ·		
		;		
Quality Control	0.055	0.055	0.055	0.166
True Value QC	0.050	0.050	0.050	0.150
% Recovery	110	110	110	111
Relative Percent Difference	<1.0	3.4	2.5	2.9
METHOD: EPA SW-846 8021B	·····	:	d.	······

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Ostado 9

Date

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CLIENT.	industrial Ecosystem	s, mc.		Ci	ent Sample ID:	Burm	ngton #610
Lab Order:	0708103			C	Collection Date:	8/7/2(007 10:12:00 AM
Project:	JFJ Land Farm				Date Received:	8/8/20	007
Lab ID:	0708103-07				Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range C	Drganics (DRO)	ND	10	ſ	mg/Kg	1	8/9/2007 7:12:07 PM
Motor Oil Rang	e Organics (MRO)	ND	50	r	mg/Kg	1	8/9/2007 7:12:07 PM
Surr: DNOP		96.6	61.7-135	(%REC	1	8/9/2007 7:12:07 PM
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: LMM
Gasoline Range	e Organics (GRO)	ND	5.0	(mg/Kg	1	8/9/2007 2:39:59 PM
Surr: BFB		107	84-138	(%REC	1	8/9/2007 2:39:59 PM
EPA METHOD	8021B: VOLATILES						Analyst: LMM
Methyl tert-buty	I ether (MTBE)	ND	0.10	1	mg/Kg	1	8/9/2007 2:39:59 PM
Benzene		ND	0.050	r	mg/Kg	1	8/9/2007 2:39:59 PM
Toluene		ND	0.050	r	mg/Kg	1	8/9/2007 2:39:59 PM
Ethylbenzene		ND	0.050	1	mg/Kg	1	8/9/2007 2:39:59 PM
Xylenes, Total		ND	0.10	r	mg/Kg	1	8/9/2007 2:39:59 PM
Surr: 4-Brom	ofluorobenzene	94.5	68.2-109		%REC	1	8/9/2007 2:39:59 PM

CLIENT: Industrial Ecosystems, Inc. Client Sample ID: Burlington #610

VALYTICAL	\mathbb{O}
AUG 1 0 2007	J
PASSED	1

- * Value exceeds Maximum Contaminant Level
- Ε Value above quantitation range
- Analyte detected below quantitation limits J
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- ₿ Analyte detected in the associated Method Blank
- н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

8/15



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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO. SAMPL	.E. ID	:	(mg/kg)
H16948-1 PILE #6	510		304
	· · ·		
		i	
		•••	
Quality Control		· ·	500
True Value QC			500
% Recovery			100
Relative Percent Differ	ence		<0.1

METHOD: Standard Methods

4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

FEB 2 0 2008 PASSED

<u>2124/09</u> Date

H16948 IEI

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CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystems 0712353 JFJ Land Farm 0712353-08	s, Inc.		Date Re	n Date:	12/26 12/27	/2007 11:10:00 AM
Analyses		Result	PQL	Qual Units		DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range C	Organics (DRO)	22	10	mg/Kg		1	1/2/2008 11:12:08 AM
Surr: DNOP		94.2	61.7-135	%REC		1	1/2/2008 11:12:08 AM
EPA METHOD	8015B: GASOLINE RAM	NGE					Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg		1	12/28/2007 3:18:25 PM
Surr: BFB		109	84-138	%REC		1	12/28/2007 3:18:25 PM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Methyl tert-buty	l ether (MTBE)	ND	0.10	mg/Kg		1	12/28/2007 3:18:25 PM
Benzene		ND	0.050	mg/Kg		1	12/28/2007 3:18:25 PM
Toluene		ND	0.050	mg/Kg	•	1	12/28/2007 3:18:25 PM
Ethylbenzene		ND	0.050	mg/Kg		1	12/28/2007 3:18:25 PM
Xylenes, Total		ND	0.10	mg/Kg		1	12/28/2007 3:18:25 PM
Surr: 4-Brom	ofluorobenzene	98.7	81.4-117	%REC		1	12/28/2007 3:18:25 PM

Date: 03-Jan-08

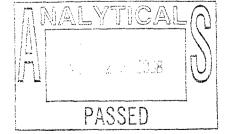
CA A JAN (۲) 2008 PASSED

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:	Industrial Ecosystem	ns, Inc.		Client Sample II): Burlingto	n #612
Lab Order:	0811466			Collection Date	e: 11/24/200	08 11:36:00 AM
Project:	JFJ Land Farm			Date Received	i: 11/26/200)8
Lab ID:	0811466-11			Matrix	K: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS				an a	Analyst: RAGS
Chloride		62	0.30	mg/Kg	1	12/10/2008 6:25:59 PM

Date: 12-Dec-08



*

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 11 of 25

CLIENT:	Industrial Ecosystems,	, Inc.		Client Sample	ID: Burlington	n #625
Lab Order:	0806270			Collection Da	ate: 6/16/2008	10:20:00 AM
Project:	JFJ Land Farm			Date Receiv	ed: 6/18/2008	
Lab ID:	0806270-04			Mat	rix: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	فكارب تلثكان محمدات يسب		*	Analyst: SCC
Diesel Range C	organics (DRO)	ND	10	mg/Kg	1	6/20/2008 6:31:51 AM
Surr: DNOP		71.6	61.7-135	%REC	1	6/20/2008 6:31:51 AM
EPA METHOD	8015B: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	5.0	m g/Kg	1	6/24/2008 3:45:10 PM
Surr: BFB		93.0	84-138	%REC	1	6/24/2008 3:45:10 PM
EPA METHOD	8021B: VOLATILES					Analyst: NSB
Methyl tert-buty	l ether (MTBE)	ND	0.10	mg/Kg	1	6/24/2008 3:45:10 PM
Benzene		ND	0.050	mg/Kg	1	6/24/2008 3:45:10 PM
Toluene		ND	0.050	mg/Kg	1	6/24/2008 3:45:10 PM
Ethylbenzene		ND	0.050	mg/Kg	1	6/24/2008 3:45:10 PM
Xylenes, Total		ND	0.10	m g/Kg	1	6/24/2008 3:45:10 PM
Surr: 4-Brom	ofluorobenzene	91.2	81.4-117	%REC	1	6/24/2008 3:45:10 PM
EPA METHOD	9056A: ANIONS					Analyst: SLB
Chloride		130	1.5	mg/Kg	5	6/25/2008 9:30:17 PM

Date: 30-Jun-08

	JUN 18 2008	<u>S</u>				
PASSED						

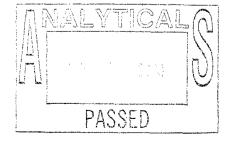
Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:	Industrial Ecosyste	ms, Inc.		Clier	nt Sample II): Burlington	#625
Lab Order:	0811466			Co	llection Dat	e: 11/24/200	8 11:56:00 AM
Project:	JFJ Land Farm			D	ate Received	1: 11/26/200	8
Lab ID:	0811466-12				Matri	K: SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS						Analyst: RAGS
Chloride		34	0.30		mg/Kg	1	12/10/2008 6:43:24 PM

Date: 12-Dec-08



*

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level

RL Reporting Limit

Page 12 of 25



ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 02/23/09 Reporting Date: 02/25/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: AB

GRO DRO (C₆-C₁₀) (>C₁₀-C₂₈) (mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE:		02/24/09	02/24/09	
H16948-22	PILE # 627	<10.0	<10.0	
11/11/10-11-11/11/10-11/11-11-11-11-11-11-11-11-11-11-11-11-				
ورو و و و و و و و و و و و و و و و و و و			······	
			!	
		· ·		
Quality Control		570	583	
True Value QC	anna an ann an ann an an an ann ann ann	500	500	
% Recovery	an an 1999 an an an 1999 an an 19	114	117	
Relative Percer	nt Difference	5.3	6.0	

METHOD: SW-846 8015 M

Chemist Date 2008 FB 9 PASSED H16948-22 TPH8015 IEI

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: ZL

		ETHYL	TOTAL
BENZENE	TOLUENE	BENZENE	XYLENES
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	02/23/09	02/23/09	02/23/09	02/23/09
H16948-22 PILE #627	<0.050	<0.050	<0.050	<0.300
	******			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				·
Quality Control	0.055	0.055	0.055	0.166
True Value QC	0.050	0.050	0.050	0,150
% Recovery	110	110	110	111
Relative Percent Difference	<1.0	3.4	2.5	2.9

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

ostallog Date

FEB 2 0 2008 PASSED

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EDA METHOD	300.0: ANIONS		· · · · · · · · · · · · · · · · · · ·		Analyst: SL
Analyses		Result	PQL Qual Units	DF	Date Analyzed
Lab ID:	0809404-01		Matrix:	SOIL	
Project:	JFJ Land Farm		Date Received:	9/19/2008	
Lab Order:	0809404		Collection Date:	9/16/2008	11:45:00 AM
CLIENT:	 Industrial Ecosystems, In 	ic.	Client Sample ID:	XTO #627	1

3.0

mg/Kg

760

Hall Environmental Analysis Laboratory, Inc.

Date: 01-Oct-08

10

9/26/2008 11:46:40 AM

	NALYTICAL	0
[]]	SEP 1 9 2008	Ø
	PASSED	

Qualifiers:

Chloride

* Value exceeds Maximum Contaminant Level

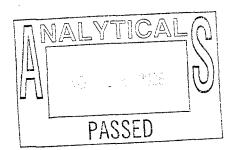
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 1 of 24

\$22

Date: 12-Dec-08

CLIENT:	Industrial Ecosystem	s, Inc.		Client	Sample I	D: Communit	y #655		
Lab Order:	0811466			Collection Date:			11/24/2008 3:40:00 PM		
Project:	JFJ Land Farm			Dat	te Receive	d: 11/26/200	8		
Lab ID:	0811466-24				Matri	ix: SOIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC		
Diesel Range C	Irganics (DRO)	ND	10	r	ng/Kg	1	12/2/2008		
Surr: DNOP		86.5	61.7-135	c	%REC	1	12/2/2008		
EPA METHOD	8015B: GASOLINE RAI	NGE		•			Analyst: DAM		
Gasoline Range	Organics (GRO)	ND	5.0	r	ng/Kg	1	12/4/2008 1:47:31 AM		
Surr: BFB		89.8	58.8-123	c.	%REC	1	12/4/2008 1:47:31 AM		
EPA METHOD	8021B: VOLATILES						Analyst: DAM		
Benzene		ND	0.050	r	ng/Kg	1	12/4/2008 1:47:31 AM		
Toluene		ND	0.050		ng/Kg	1	12/4/2008 1:47:31 AM		
Ethylbenzene		ND	0.050	r	ng/Kg	1	12/4/2008 1:47:31 AM		
Xylenes, Total		ND	0.10	r	ng/Kg	1	12/4/2008 1:47:31 AM		
Surr: 4-Brom	ofluorobenzene	100	66.8-139	Q	%REC	1	12/4/2008 1:47:31 AM		
EPA METHOD	300.0: ANIONS						Analyst: RAGS		
Chloride		22	3.0	r	ng/Kg	10	12/12/2008 3:58:09 AM		



*

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 24 of 25



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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

Receiving Date: 02/23/09 Reporting Date: 02/25/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN

Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: AB

GRO DRO

LAB NUMBER

SAMPLE ID

 $(C_6 - C_{10})$ (>C10-C28) (mg/kg) (mg/kg)

ANALYSIS DATE		02/24/09	02/24/09
H16948-20	PILE # 631	<10.0	<10.0
Quality Control		570	583
True Value QC		500	500
% Recovery		114	117
Relative Percent	Difference	5.3	6.0

METHOD: SW-846 8015 M

Chemist H16948-20 TPH8015 IEI PASSED

221

Date

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ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1782

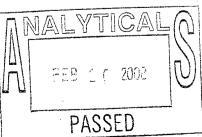
Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	02/23/09	02/23/09	02/23/09	02/23/09
H16948-20 PILE #631	<0.050	<0.050	<0.050	<0.300
Quality Control	0.055	0.055	0.055	0.166
True Value QC	0.050	0.050	0.050	0.150
% Recovery	110	110	110	111
Relative Percent Difference	<1.0	3.4	2.5	2.9
METHOD: EPA SW-846 8021B		J.+		

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Date

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Hall Envi	onmental Analysis Lab	oratory, Inc. Da	te: 01-Oct-08
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	Burlington #631
Lab Order:	0809404	Collection Date:	9/16/2008 12:35:00 PM
Project:	JFJ Land Farm	Date Received:	9/19/2008
Lab ID:	0809404-03	Matrix:	SOIL
Analyses	Resu	t PQL Qual Units	DF Date Analyzed

Analyses	Result	PQL Q	ual Units	Dr	Date Analyzeu	
EPA METHOD 300.0: ANIONS	· · ·				Analyst: SLB	-
Chloride	670	3.0	mg/Kg	10	9/26/2008 12:21:28 PM	

	VALYTICA	LA
	827 1.9 2008	
μŬ		
	PASSED	

Qualifiers:

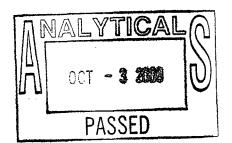
- * Value exceeds Maximum Contaminant Level
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 3 of 24

Date: 16-Oct-08

CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID: Burlington #634
Lab Order:	0810074	Collection Date: 10/2/2008 11:35:00 AM
Project:	JFJ Land Farm	Date Received: 10/3/2008
Lab ID:	0810074-03	Matrix: SOIL

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS	<u></u>			Analyst: SCC
Diesel Range Organics (DRO)	69	10	mg/Kg	1	10/7/2008
Surr: DNOP	87.4	61.7-135	%REC	1	10/7/2008
EPA METHOD 8015B: GASOLINE RANG	GE		•	• •	Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/15/2008 3:33:17 PM
Surr: BFB	115	58.8-123	%REC	1	10/15/2008 3:33:17 PM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	97	0.30	mg/Kg	1	10/14/2008 3:56:30 AM



Qualifiers:

*

- Value exceeds Maximum Contaminant Level Value above quantitation range
- E Value above quantitation rangeJ Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

;

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Envir	onmental Analysis Labo	ratory, Inc. Date:	11-Nov-08
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID: Bur	lington #634
Lab Order:	0810611	Collection Date: 10/2	9/2008 3:25:00 PM
Project:	JFJ Land Farm	Date Received: 10/3	0/2008
Lab ID:	0810611-23	Matrix: SOI	L ·
Analyses	Result	PQL Qual Units	DF Date Analyzed

EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	0.050	mg/Kg	1	11/2/2008 3:37:31 AM
Toluene	ND	0.050	mg/Kg	1	11/2/2008 3:37:31 AM
Ethylbenzene	ND	0.050	mg/Kg	1	11/2/2008 3:37:31 AM
Xylenes, Total	ND	0.15	mg/Kg	1	11/2/2008 3:37:31 AM
Surr: 4-Bromofluorobenzene	118	66.8-139	%REC	.1	11/2/2008 3:37:31 AM

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 23 of 24

	8015B: DIESEL RANGE ORGA	NICS	, the filler of the second physical second		Analyst: SC
Analyses	Re	sult	PQL Qual Units	DF	Date Analyzed
Lab ID:	0810611-21		Matrix: SOIL		
Project:	JFJ Land Farm		Date Received: 10/30/2008		
Lab Order:	0810611		Collection Date:	10/29/200	8 2:55:00 PM
CLIENT:	Industrial Ecosystems, Inc.		Client Sample ID: Conoco #656		

EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/3/2008
Surr: DNOP	95.1	61.7-135	%REC	1	11/3/2008
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/2/2008 2:36:46 AM
Surr: BFB	95.8	58.8-123	%REC	1	11/2/2008 2:36:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	0.050	mg/Kg	1	11/2/2008 2:36:46 AM
Toluene	ND	0.050	mg/Kg	1	11/2/2008 2:36:46 AM
Ethylbenzene	ND	0.050	mg/Kg	1	11/2/2008 2:36:46 AM
Xylenes, Total	ND	0.15	mg/Kg	1	11/2/2008 2:36:46 AM
Surr: 4-Bromofluorobenzene	118	66.8-139	%REC	1,	11/2/2008 2:36:46 AM



Qualifiers:

E Estimated value

*

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

B Analyte detected in the associated Method Blank

Date: 11-Nov-08

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 21 of 24



ANALYTICAL RESULTS FOR INDUSTRIAL ECOSYSTEMS, INC. ATTN: MARCELLA MARQUEZ 49 CR 3150 AZTEC, NM 87410 FAX TO: (505) 632-1876

Receiving Date: 02/23/09 Reporting Date: 02/24/09 Project Number: 7085 Project Name: SOIL SAMPLES Project Location: NOT GIVEN Analysis Date: 02/24/09 Sampling Date: 02/20/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: CK Analyzed By: TR

LAB NO.	SAMPLE ID	CI ⁻ (mg/kg)
H16948-18	PILE #656	80
	r an de ante en ante en les ante en ante ante	Net talanda an
	м. «Ана-тапай буду 2011. Г. А. Ана-тапандар у МАУ А. С. так так так буду у бак так так бар болго улар мара мари Ва са	
Quality Control	unan mananan an	500
True Value QC		500
% Recovery		100
Relative Perce	nt Difference	<0.1
ETHOD: Stand	ard Methods	4500-CI ⁻ B

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

hemist PASSED

02/24/09 Date

H16948 IEI

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Bill Richardson Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



February 19, 2009

Marcella Marquez JFJ Landfarm, L.L.C. Industrial Ecosystems Inc. Soil Reclamation Center P.O. Box 2043 Farmington, New Mexico 87499

RE: Request for Approval to Reuse Remediated Biopile Soils for the Stabilization/Solidification of Drilling Mud and Tank Bottoms and Sludge JFJ Landfarm, LLC - Industrial Ecosystems Inc. JFJ Landfarm – Permit # NM01-0010B NW/4, SE/4, Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico

Dear Ms. Marquez:

The New Mexico Oil Conservation Division (OCD) has reviewed JFJ Landfarm, LLC's (JFJ) your request, dated November 14, 2008, and analytical results to reuse the remediated soils in the following biopile for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge:

Pile # 07 Community Pile # 22 Basin Pile # 560 Community Pile # 601 Burlington Pile # 605 Burlington Pile # 650 Conoco Pile # 20 Williams Pile # 328 Basin Pile # 584 Community Pile # 602 Burlington Pile # 632 Burlington

Based upon the information provided, the above-referenced biopile is hereby approved for the stabilization and/or solidification of incoming drilling mud and tank bottoms and sludge.

Please be advised that approval of this request does not relieve the JFJ of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve JFJ of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3489 or edwardi hansen@state.nm.us.

Sincerely. Edward J. Hanse

Hydrologist Environmental Bureau

EJH:ejh

cc: OCD District III Office, Aztec







P.O. Box 2043 Farmington, NM 87499

November 14, 2008

Brad A. Jones Environmental Engineer Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: Accumulation of Soils

Dear Brad:

This letter is being sent to you regarding your request for a proposal to address the accumulation of soils within the facility boundary. As per previous discussions, JFJ Landfarm/Industrial Ecosystems would like to apply remediated soils on top of the pipelines located within our facility.

Industrial Ecosystems Inc. UEIVED

Phone: (505) 632-1782

Fax: (505) 632-1876

Soil Reclamation Center NOV 20 PM 1 53

#49 CR 3150

Aztec, NM 87410

As per 19.15.36.15.F-Treatment zone closure performance standards, we are currently in the process of obtaining analytical reports. Upon achieving closure performance standards, approval will be obtained from the pipeline operators and a request to reuse/dispose of the soils will be submitted to NMOCD.

Sincerely,

marceleamarquez

Marcella Marquez Administrative Officer



P.O. Box 2043 Farmington, NM 87499 Industrial Ecosystems Inc. Soil Reclamation Center

> Phone: (505) 632-1782 Fax: (505) 632-1876

#49 CR 3150 Aztec, NM 87410

November 14, 2008

Brad A. Jones Environmental Engineer Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: Use of reclaimed soil

Dear Brad:

Recent analytical results show that the following biopiles(s) have reached acceptable levels as required by the NMOCD.

- Pile # 07 Community
- Pile # 20 Williams
- Pile # 22 Basin
- Pile # 328 Basin
- Pile # 560 Community
- Pile # 584 Community
- Pile # 601 Burlington
- Pile # 602 Burlington
- Pile # 605 Burlington
- Pile # 632 Burlington
- Pile # 650 Conoco

We are seeking your approval to recycle this soil by using it to mix/solidify incoming liquid waste.

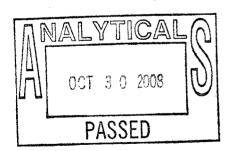
Sincerely,

marcelea marguez

Marcella Marquez Administrative Officer

Enclosure(s) – Analytical Reports

Hall Envir	ronmental Analy	sis Labora	tory, In	c.	Date: 11-No	ov-08	
CLIENT: Industrial Ecosystems, Inc.			Client Sample ID: Community #7				
Lab Order:	0810611		Collection Date: 10/29/2008 8:15:0			08 8:15:00 AM	
Project:	JFJ Land Farm	d Farm		Date Receive	08		
Lab ID: 0810611-01			Matrix: SOIL				
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	
EPA METHOD	300.0: ANIONS	······································				Analyst: SLB	
Chloride		710	3.0	mg/Kg	10	11/10/2008 10:15:06 AN	



* Value exceeds Maximum Contaminant LevelE Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 1 of 24

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystem 0705249 JFJ Land Farm 0705249-04	ıs, Inc.		Collection D Date Receiv	ate: 5/15/2			
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed		
EPA METHOD	8015B: DIESEL RANG	ORGANICS		······································		Analyst: SCC		
Diesel Range C	Organics (DRO)	ND	10	mg/Kg	1	5/18/2007 5:22:47 PM		
Motor Oil Range	e Organics (MRO)	ND	50	mg/Kg	1	5/18/2007 5:22:47 PM		
Surr: DNOP		92.2	61.7-135	%REC	1	5/18/2007 5:22:47 PM		
EPA METHOD	8015B: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2007 6:40:30 PM		
Surr: BFB		111	84-138	%REC	1	5/18/2007 6:40:30 PM		
EPA METHOD	8021B: VOLATILES					Analyst: NSB		
Methyl tert-buty	l ether (MTBE)	ND	0.10	mg/Kg	1	5/18/2007 6:40:30 PM		
Benzene		ND	0.050	mg/Kg	1	5/18/2007 6:40:30 PM		
Toluene		ND	0.050	mg/Kg	1	5/18/2007 6:40:30 PM		
Ethylbenzene		ND	0.050	mg/Kg	`1	5/18/2007 6:40:30 PM		
Xylenes, Total		ND	0.10	mg/Kg	1	5/18/2007 6:40:30 PM		
Surr: 4-Brom	ofluorobenzene	86.3	68.2-109	%REC	1	5/18/2007 6:40:30 PM		

Date: 21-May-07

CA $\sqrt{|}$ 2007 uwenda WAY PASSED

Qualifiers:

*

- Value exceeds Maximum Contaminant Level Е Value above quantitation range
- }
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

В

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Lab Order:	0810611			Coll	ection Dat	te: 10/29/200	8 3:50:00 PM
Project:	JFJ Land Farm			Dat	te Receive	d: 10/30/200	8
Lab ID:	0810611-24				Matri	ix: SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGI	E ORGANICS					Analyst: SCC
Diesel Range C	organics (DRO)	ND	10	I	mg/Kg	1	11/3/2008
Surr: DNOP		98.1	61.7-135		%REC	1	11/3/2008
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: DAM
Gasoline Range	e Organics (GRO)	ND	5.0		mg/Kg	1	11/2/2008 4:07:33 AM
Surr: BFB		95.9	58.8-123		%REC	1	11/2/2008 4:07:33 AM
EPA METHOD	8021B: VOLATILES						Analyst: DAM
Benzene		ND	0.050		mg/Kg	1	11/2/2008 4:07:33 AM
Toluene		ND	0.050	1	mg/Kg	1	11/2/2008 4:07:33 AM
Ethylbenzene		ND	0.050	i	mg/Kg	1	11/2/2008 4:07:33 AM
Xylenes, Total		ND	0.15	I	mg/Kg	1	11/2/2008 4:07:33 AM
Surr: 4-Brome	ofluorobenzene	119	66.8-139	(%REC	. _. 1	11/2/2008 4:07:33 AM

Industrial Ecosystems, Inc.

CLIENT:

Date: 11-Nov-08

Client Sample ID: Williams #20

PASSED

Qualifiers:

* Value exceeds Maximum Contaminant LevelE Estimated value

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT: Lab Order: Project: Lab ID:	Industrial Ecosystem 0809404 JFJ Land Farm 0809404-21	s, Inc.	Client Sample ID: W Collection Date: 9/ Date Received: 9/ Matrix: SC				9/16/2008 10:35:00 AM 9/19/2008		
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed	
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	التكريبي والمتحدين فعلا تبالام					Analyst: SCC	
Diesel Range O	Irganics (DRO)	320	100		mg/Kg		10	9/23/2008	
Surr: DNOP		0	61.7-135	S	%REC		10	9/23/2008	
EPA METHOD	8015B: GASOLINE RAN	NGE						Analyst: DAN	
	8015B: GASOLINE RAN Organics (GRO)	NGE ND	5.0		mg/Kg		1	Analyst: DAN 9/24/2008 10:54:07 PM	
			5.0 58.8-123		mg/Kg %REC		1 1	9/24/2008 10:54:07 PM	
Gasoline Range Surr: BFB		ND					1 1	•	

Date: 01-Oct-08

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Hall Environmental Analysis Labor:			atory, Inc. Date: 11-Nov-08				08		
CLIENT: Industrial Ecosystems, Inc.				Clier	it Sample I	D: Basin #22	2		
Lab Order:	0810611				Collection Date: 10/29/2008 8:50:00 AM				
Project:	JFJ Land Farm		Date Received:			ed: 10/30/200)8		
Lab ID: 0810611-03			Matrix: SOIL						
Analyses]	Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	300.0: ANIONS						Analyst: SLB		
Chloride		750	3.0		mg/Kg	10	11/10/2008 10:49:55 AN		

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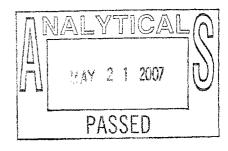
* Value exceeds Maximum Contaminant LevelE Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Envir	onmental Analy	sis Labora	tory, Ir	nc.	Date:	21-Ма	ny-07	
CLIENT: Lab Order:	Industrial Ecosystem 0705249	is, Inc.			lient Sample ID: Collection Date:	Basin #22 5/15/2007 11:00:00 AM		
Project:	JFJ Land Farm				Date Received:		5/17/2007	
Lab ID:	0705249-06				Matrix:	SOIL	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	
EPA METHOD	8015B: DIESEL RANG	ORGANICS					Analyst: SCC	
Diesel Range Organics (DRO)		ND	10		mg/Kg	1	5/18/2007 6:31:47 PM	
Motor Oil Range	e Organics (MRO)	ND	50		mg/Kg	1	5/18/2007 6:31:47 PM	
Surr: DNOP		76.0	61.7-135		%REC	1	5/18/2007 6:31:47 PM	
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: NSE	
Gasoline Range	e Organics (GRO)	ND	5.0		mg/Kg	1	5/18/2007 8:40:33 PM	
Surr: BFB		113	84-138		%REC	1	5/18/2007 8:40:33 PM	
EPA METHOD	8021B: VOLATILES						Analyst: NSE	
Methyl tert-buty	l ether (MTBE)	ND	0.10		mg/Kg	1	5/18/2007 8:40:33 PM	
Benzene		ND	0.050	`	mg/Kg	1	5/18/2007 8:40:33 PM	
Toluene		ND	0.050		mg/Kg	1	5/18/2007 8:40:33 PM	
Ethylbenzene		ND	0.050		mg/Kg	1	5/18/2007 8:40:33 PM	
Xylenes, Total		ND	0.10		mg/Kg	1	5/18/2007 8:40:33 PM	
Surr: 4-Brom	ofluorobenzene	87.7	68.2-109		%REC	1	5/18/2007 8:40:33 PM	



*

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits ND
- Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank

- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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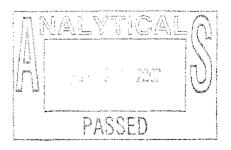
Hall Environmental Analysis Labor:			Tatory, Inc. Date: 11-Nov-08						
CLIENT:	Industrial Ecosystem	s, Inc.		Clien	t Sample I	D: Basin #32	28		
Lab Order:	0810611		Collection Date: Date Received:			te: 10/29/200	: 10/29/2008 9:55:00 AM : 10/30/2008		
Project:	JFJ Land Farm					ed: 10/30/200			
Lab ID:	0810611-07				Matr	ix: SOIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	300.0: ANIONS	<u> </u>	i i i i i i i i i i i i i i i i i i i				Analyst: SLB		
Chloride		660	3.0		mg/Kg	10	11/10/2008 12:51:45 PM		

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* Value exceeds Maximum Contaminant LevelE Estimated value

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:	Industrial Ecosystem	ns, Inc.		C	lient Sample ID:	Basin #328		
Lab Order:	0705249				Collection Date:	5/15/20	5/15/2007 12:15:00 PM	
Project:	JFJ Land Farm				Date Received:		5/17/2007	
Lab ID:	0705249-11				Matrix:			
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	
EPA METHOD	8015B: DIESEL RANG	E ORGANICS					Analyst: SCC	
Diesel Range Organics (DRO)		ND	10		mg/Kg	1	5/20/2007 12:21:05 PM	
Motor Oil Rang	e Organics (MRO)	ND	50		mg/Kg	1	5/20/2007 12:21:05 PM	
Surr: DNOP		104	61.7-135		%REC	1	5/20/2007 12:21:05 PM	
EPA METHOD	8015B: GASOLINE RA	NGE					Analyst: NSE	
Gasoline Range	e Organics (GRO)	ND	5.0		mg/Kg	1	5/18/2007 11:10:49 PM	
Surr: BFB		111	84-138		%REC	1	5/18/2007 11:10:49 PM	
EPA METHOD	8021B: VOLATILES						Analyst: NSE	
Methyl tert-buty	/I ether (MTBE)	ND	0.10		mg/Kg	1	5/18/2007 11:10:49 PN	
Benzene		ND	0.050		mg/Kg	1	5/18/2007 11:10:49 PN	
Toluene		ND	0.050		mg/Kg	1	5/18/2007 11:10:49 PN	
Ethylbenzene		ND	0.050		mg/Kg	1	5/18/2007 11:10:49 PN	
Xylenes, Total		ND	0.10		mg/Kg	1	5/18/2007 11:10:49 PN	
Surr: 4-Brom	ofluorobenzene	86.3	68.2-109		%REC	1	5/18/2007 11:10:49 PM	



Qualifiers:

- Value exceeds Maximum Contaminant Level * Е
- Value above quantitation range
- J Analyte detected below quantitation limits
- NDNot Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

11/19



CLIENT:

Project:

Lab ID:

Lab Order:

Hall	Envir	onmental	Analysis	Laboratory,	Inc.

Industrial Ecosystems, Inc.

0810611

JFJ Land Farm

0810611-17

Date: 11-Nov-08

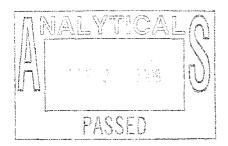
 Client Sample ID:
 Community #560

 Collection Date:
 10/29/2008 1:40:00 PM

 Date Received:
 10/30/2008

 Matrix:
 SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	ORGANICS			ini ili Approximati di Car	<u></u>	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	r	mg/Kg	1	11/3/2008
Surr: DNOP	99.5	61.7-135	C	%REC	1	11/3/2008
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	г	mg/Kg	1	11/1/2008 8:32:08 PM
Surr: BFB	93.0	58.8-123	c	%REC	1	11/1/2008 8:32:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050	ſ	mg/Kg	1	11/1/2008 8:32:08 PM
Toluene	NÐ	0.050	r	mg/Kg	1	11/1/2008 8:32:08 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/1/2008 8:32:08 PM
Xylenes, Total	ND	0.15	1	mg/Kg	1	11/1/2008 8:32:08 PM
Surr: 4-Bromofluorobenzene	111	66.8-139	(%REC	1	11/1/2008 8:32:08 PM



Qualifiers:

* Value exceeds Maximum Contaminant LevelE Estimated value

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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CLIENT:	LIENT: Industrial Ecosystems, Inc.			Client Sample ID: Community #560					
Lab Order:	0809036			Co	llection Date:	9/2/2008 11:55:00 AM			
Project:	JFJ Land Farm			D	ate Received:	9/3/2008			
Lab ID:	0809036-12			Matu		SOIL			
Analyses	· · · · · · · · · · · · · · · · · · ·	Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC		
Diesel Range O	Irganics (DRO)	140	100		mg/Kg	10	9/6/2008		
Motor Oil Range	e Organics (MRO)	980	500		mg/Kg	10	9/6/2008		
Surr: DNOP		0	61.7-135	S	%REC	10	9/6/2008		
EPA METHOD	8015B: GASOLINE RAI	NGE					Analyst: DAM		
Gasoline Range	e Organics (GRO)	ND	5.0		mg/Kg	1	9/13/2008 4:53:57 AM		
Surr: BFB		88.1	58.8-123		%REC	1	9/13/2008 4:53:57 AM		
EPA METHOD	300.0: ANIONS						Analyst: SLB		
Chloride		170	3.0		mg/Kg	10	9/11/2008 10:56:56 AM		

Date: 17-Sep-08

Qualifiers:

*

- Value exceeds Maximum Contaminant Level Е
- Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Chiles recovery outcide accented recovery limits ¢

- Analyte detected in the associated Method Blank
- н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

В

Hall Environmental Analysis Laboratory,				nc.	Date: 11-No	00-08
CLIENT:	Industrial Ecosyster	ns, Inc.		Client Sample	e ID: Communi	ity #584
Lab Order:	0810611			Collection I	Date: 10/29/200)8 10:35:00 AM
Project:	JFJ Land Farm			Date Recei	ived: 10/30/200)8
Lab ID:	0810611-09		Matrix: SOIL			
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS					Analyst: SLB
Chloride		720	3.0	mg/Kg	10	11/10/2008 2:36:11 PM

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Qualifiers:

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* Value exceeds Maximum Contaminant Level Е Estimated value

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- . RL Reporting Limit

Lab Order:	0708103			Collection Date	: 8/7/20	007 9:00:00 AM
Project:	JFJ Land Farm			Date Received	: 8/8/20	007
Lab ID:	0708103-02			Matrix	: SOIL	
Analyses		Result	PQL (Jual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANG	E ORGANICS	······			Analyst: SCC
Diesel Range C	Drganics (DRO)	31	10	mg/Kg	1	8/9/2007 5:24:25 PM
Motor Oil Rang	e Organics (MRO)	ND	50	mg/Kg	1	8/9/2007 5:24:25 PM
Surr: DNOP		104	61.7-135	%REC	1	8/9/2007 5:24:25 PM
EPA METHOD	8015B: GASOLINE RA	NGE				Analyst: LMM
Gasoline Range	e Organics (GRO)	ND	5.0	mg/Kg	1	8/9/2007 9:09:51 PM
Surr: BFB		113	84-138	%REC	1	8/9/2007 9:09:51 PM
EPA METHOD	8021B: VOLATILES					Analyst: LMM
Methyl tert-buty	/I ether (MTBE)	ND	0.10	mg/Kg	1	8/9/2007 9:09:51 PM
Benzene		ND	0.050	mg/Kg	1	8/9/2007 9:09:51 PM
Toluene		ND	0.050	mg/Kg	1	8/9/2007 9:09:51 PM
Ethyibenzene		ND	0.050	mg/Kg	<u>ີ</u> 1	8/9/2007 9:09:51 PM
Xylenes, Total		ND	0.10	mg/Kg	1	8/9/2007 9:09:51 PM
Surr: 4-Brom	nofluorobenzene	102	68.2-109	%REC	1	8/9/2007 9:09:51 PM

Industrial Ecosystems, Inc.

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CLIENT:

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Qualifiers:

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- Value exceeds Maximum Contaminant Level E Value above quantitation range
- Analyte detected below quantitation limits J
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 10-Aug-07

Client Sample ID: Community #584

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.Date: 11-Nov-08							
CLIENT: Industrial Ecosystems, Inc.			Client Sample ID: Burlington #601				
Lab Order:	0810611			Collection Da	te: 10/29/200	08 10:50:00 AM	
Project:	JFJ Land Farm			Date Receive	ed: 10/30/200)8	
Lab ID:	D: 0810611-10		Matrix: SOIL				
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS			. ·		Analyst: SLE		
Chloride		240	3.0	mg/Kg	10	11/10/2008 2:53:35 PN	

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* Value exceeds Maximum Contaminant LevelE Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

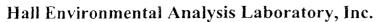
H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

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Lab ID:	0708103-04			1	Matrix: SOIL	
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHO	D 8015B: DIESEL RANG	E ORGANICS				Analyst: SCC
Diesel Range	e Organics (DRO)	NĎ	10	mg/Kg	1	8/9/2007 6:00:36 PM
Motor Oil Rai	nge Organics (MRO)	ND	50	mg/Kg	1	8/9/2007 6:00:36 PM
Surr: DNO	P	99.6	61.7-135	%REC	1	8/9/2007 6:00:36 PM
EPA METHO	D 8015B: GASOLINE RA	NGE				Analyst: LMM
Gasoline Rar	nge Organics (GRO)	ND	5.0	mg/Kg	1	8/9/2007 1:09:52 PM
Surr: BFB		111	84-138	%REC	1	8/9/2007 1:09:52 PM
EPA METHO	D 8021B: VOLATILES					Analyst: LMM
Methyl tert-bi	utyl ether (MTBE)	ND	0.10	mg/Kg	1	8/9/2007 1:09:52 PM
Benzene		ND	0.050	mg/Kg	1	8/9/2007 1:09:52 PM
Toluene		ND	0.050	mg/Kg	1	8/9/2007 1:09:52 PM
Ethylbenzene	ç	ND	0.050	mg/Kg	1	8/9/2007 1:09:52 PM
Xylenes, Tota	al	ND	0.10	mg/Kg	1	8/9/2007 1:09:52 PM
Surr: 4-Bro	omofluorobenzene	99.9	68.2-109	%REC	1	8/9/2007 1:09:52 PM



Industrial Ecosystems, Inc.

0708103

JFJ Land Farm

CLIENT:

Project:

Lab Order:

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- Not Detected at the Reporting Limit ND
- S Spike recovery outside accepted recovery limits

Date: 10-Aug-07

Client Sample ID: Burlington #601 Collection Date: 8/7/2007 9:22:00 AM Date Received: 8/8/2007

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	PA	15	SE	ED	

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.Date: 11-Nov-08							
CLIENT:	Industrial Ecosysten	ns, Inc.		Client	Sample I	D: Burlington	n #602
Lab Order:	0810611			Coll	ection Da	te: 10/29/200	8 11:15:00 AM
Project:	JFJ Land Farm		Date Received: 10/30/		ed: 10/30/200	//2008	
Lab ID:	0810611-11		Matrix: SOIL				
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS		·····	1			Analyst: SLB
Chloride		310	3.0		mg/Kg	10	11/10/2008 3:10:59 PM

PASSED

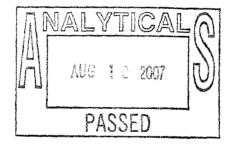
* Value exceeds Maximum Contaminant Level Е Estimated value

- J Analyte detected below quantitation limits
- Not Detected at the Reporting Limit ND
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank

- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:Industrial Ecosystems, Inc.Client Sample ID:Burlington #602Lab Order:0708103Collection Date:8/7/2007 9:35:00 AMProject:JFJ Land FarmDate Received:8/8/2007Lab ID:0708103-05Matrix:SOIL

Analyses	Result	PQL Qi	ial Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			<u></u>	Analyst: SCC
Diesel Range Organics (DRO)	11	10	mg/Kg	1	8/9/2007 6:36:33 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/9/2007 6:36:33 PM
Sufr: DNOP	105	61.7-135	%REC	1	8/9/2007 6:36:33 PM
EPA METHOD 8015B: GASOLINE RAN	GE				Analyst: LMM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/9/2007 1:39:50 PM
Surr: BFB	101	84-138	%REC	1	8/9/2007 1:39:50 PM
EPA METHOD 8021B: VOLATILES					Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	8/9/2007 1:39:50 PM
Benzene	ND	0.050	mg/Kg	1	8/9/2007 1:39:50 PM
Toluene	ND	0.050	mg/Kg	1	8/9/2007 1:39:50 PM
Ethylbenzene	ND	0.050	mg/Kg	× 1	8/9/2007 1:39:50 PM
Xylenes, Total	ND	0.10	mg/Kg	1	8/9/2007 1:39:50 PM
Surr: 4-Bromofluorobenzene	89.8	68.2-109	%REC	1	8/9/2007 1:39:50 PM



Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

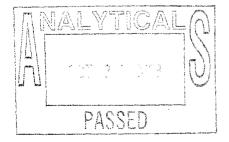
Date: 10-Aug-07

- H Holding times for preparation or unatysis exceeded MCL Maximum Contaminant Level
- RL Reporting Limit

6/15

CLIENT:	Industrial Ecosystem	is, Inc.		Client Sample II): Burlingto	Burlington #605 10/29/2008 11:40:00 AM		
Lab Order:	0810611			Collection Dat	e: 10/29/200			
Project:	JFJ Land Farm		Date Received: 10/30			2008		
Lab ID:	0810611-12		Matrix: SOIL					
Analyses		Result	PQL	Qual Units	DF	Date Analyzed		
EPA METHOD	300.0: ANIONS		<u> </u>			Analyst: SLB		
Chloride		410	3.0	mg/Kg	10	11/10/2008 3:28:24 PM		

Date: 11-Nov-08



Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Lab ID:	0709318-01				Matrix: SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8	015B: DIESEL RANG	SE ORGANICS			·····	Analyst: SCC
Diesel Range Or	ganics (DRO)	22	10	mg/Kg	1	9/27/2007 4:25:13 PM
Motor Oil Range	Organics (MRO)	69	50	mg/Kg	1	9/27/2007 4:25:13 PM
Surr: DNOP		94.3	61.7-135	%REC	1	9/27/2007 4:25:13 PM
EPA METHOD 8	015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0	mg/Kg	1	9/29/2007 4:26:50 AM
Surr: BFB		110	84-138	%REC	1	9/29/2007 4:26:50 AM
EPA METHOD 8	021B: VOLATILES					Analyst: NSB
Methyl tert-butyl	ether (MTBE)	ND	0.10	mg/Kg	1	9/29/2007 4:26:50 AM
Benzene		ND	0.050	mg/Kg	1	9/29/2007 4:26:50 AM
Toluene		ND	0.050	mg/Kg	1	9/29/2007 4:26:50 AM
Ethylbenzene		ND	0.050	mg/Kg	1	9/29/2007 4:26:50 AM
Xylenes, Total		ND	0.10	mg/Kg	1	9/29/2007 4:26:50 AM
Surr: 4-Bromo	fluorobenzene	100	68.2-109	%REC	1	9/29/2007 4:26:50 AM

Industrial Ecosystems, Inc.

0709318

JFJ Land Farm

CLIENT:

Project:

Lab Order:

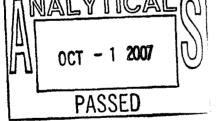
MAI CA **OCT** 2007

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Ŀ Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

1/15

Client Sample 1D: Burlington #605 Collection Date: 9/21/2007 11:42:00 AM Date Received: 9/24/2007



Date: 01-Oct-07



Date: 11-Nov-08

Analyses	Res	ult PQL Qual Units	DF	Date Analyzed
Lab ID:	0810611-20	Matrix:	SOIL	
Project:	JFJ Land Farm	Date Received:	10/30/2008	
Lab Order:	0810611	Collection Date:	10/29/2008	2:35:00 PM
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	Burlington	#632

1 kilai joos	1100-11	~ 1 - 1	C		2000 / 100 Juli
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	13	10	mg/Kg	1	11/3/2008
Surr: DNOP	99.4	61.7-135	%REC	1	11/3/2008
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/1/2008 10:03:20 PM
Surr: BFB	94.5	58.8-123	%REC	1	11/1/2008 10:03:20 PM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	0.050	mg/Kg	1	11/1/2008 10:03:20 PM
Toluene	ND	0.050	mg/Kg	1	11/1/2008 10:03:20 PM
Ethylbenzene	ND	0.050	mg/Kg	1	11/1/2008 10:03:20 PM
Xylenes, Total	ND	0.15	mg/Kg	1	11/1/2008 10:03:20 PM
Surr: 4-Bromofluorobenzene	115	66.8-139	%REC	<u>,</u> 1	11/1/2008 10:03:20 PM

PASSED

Qualifiers:

- * Value exceeds Maximum Contaminant Level Ε
- Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- Reporting Limit RL

CLIENT:	Industrial Ecosystem	s, Inc.		Clier	nt Sample II	D: Burlingt	on #632
Lab Order:	0810074			Co	llection Dat	e: 10/2/20	08 10:55:00 AM
Project:	JFJ Land Farm			D	ate Receive	d: 10/3/20	08
Lab ID:	0810074-01				Matri	x: SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	······				Analyst: SCC
Diesel Range C	organics (DRO)	240	10		mg/Kg	1	10/7/2008
Surr: DNOP		106	61.7-135		%REC	1	10/7/2008
EPA METHOD	8015B: GASOLINE RAM	NGE	• •				Analyst: DAM
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	10/15/2008 10:38:30 PM
Surr: BFB		90.8	58.8-123		%REC	1	10/15/2008 10:38:30 PM
	300.0: ANIONS						Analyst: SLB
Chloride		170	1.5		mg/Kg	5	10/14/2008 2:44:35 PM

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit



Date: 11-Nov-08

Client Sample ID: Conoco #650 **CLIENT:** Industrial Ecosystems, Inc. Lab Order: 0810611 Collection Date: 10/29/2008 2:15:00 PM **Project:** JFJ Land Farm Date Received: 10/30/2008 Matrix: SOIL Lab ID: 0810611-19 . n DE WT ...

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: SCC			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/3/2008
Surr: DNOP	94.8	61.7-135	%REC	1	11/3/2008
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/1/2008 9:32:58 PM
Surr: BFB	97.0	58.8-123	%REC	1	11/1/2008 9:32:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	0.050	mg/Kg	1	11/1/2008 9:32:58 PM
Toluene	ND	0.050	m g/Kg	1	11/1/2008 9:32:58 PM
Ethylbenzene	ND	0.050	mg/Kg	1	11/1/2008 9:32:58 PM
Xylenes, Total	ND	0.15	mg/Kg	1	11/1/2008 9:32:58 PM
Surr: 4-Bromofluorobenzene	123	66.8-139	%REC	1	11/1/2008 9:32:58 PM

PASSED

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Envi	ronmental Analysis Laborate	ate: 16-Oct-08		
CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	Conoco #6	50
Lab Order:	0810074	Collection Date:	10/2/2008	11:50:00 AM
Project:	JFJ Land Farm	Date Received:	10/3/2008	
Lab ID:	0810074-04	Matrix:	SOIL	
Analyses	Result	POL Qual Units	DF	Date Analyzed

	v	• •	
CI IENT.	Inductrial Ecosystems Inc	Client	Samula ID.

Analyses	Nesun	ryn y	ual Units	Dr	Date Analyzeu
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS			<u></u>	Analyst: SCC
Diesel Range Organics (DRO)	250	10	mg/Kg	1	10/7/2008
Surr: DNOP	101	61.7-135	%REC	1	10/7/2008
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/15/2008 4:03:45 PM
Surr: BFB	92.8	58.8-123	%REC	1	10/15/2008 4:03:45 PM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	170	1.5	mg/Kg	5	10/14/2008 3:19:24 PM

* Value exceeds Maximum Contaminant Level

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank

- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit