# GW - <u>32</u>

# GENERAL CORRESPONDENCE

YEAR(S):

10/05 -> 9/05

District II 1301 W. Grand Avenue, Artesia, NM 88210 Energy Minerals	f New Mexico		Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate
1000 Rio Brazos Road, Aztec, NM 87410Off ConseDistrict IV1220 South1220 South1220 South	th St. Francis Dr. Fe, NM 87505		Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
	on and Corrective Activ		
	OPERATOR	Initia	l Report 🗌 Final Report
Name of Company Giant Industries, Inc.	Contact James Romero		
Address Rt. 3, Box 7	Telephone No. 505-722-0227		
Facility Name Giant Industries, Inc.	Facility Type Refinery		
Surface Owner Giant Industries, Inc. Mineral Owner	Giant Industries, Inc.	Lease N	0.
LOCATIO	ON OF RELEASE		
Unit LetterSectionTownshipRangeFeet from theNort3315N15W	h/South Line Feet from the Ea	st/West Line	County McKinley
Latitude30° 29' 30"	<b>Longitude</b> 108° 24" 40"		
NATURI	E OF RELEASE		
Type of Release Transmix	Volume of Release 2184 gal		covered 1747 gal
Source of Release Tank 232	Date and Hour of Occurrence 10/17/05 @ 1705 to 1725	Date and H 10/17/05@	Hour of Discover
Was Immediate Notice Given?	If YES, To Whom?		
Yes No "*Not Required	Carl Chavez, OCD; Hope Mor		D; Denny Foust, OCD
By Whom? James Romero was a Watercourse Reached?	Date and Hour 10/05/05 @ 12:0 AF YES, Volume Impacting the W		
$\square \text{ Yes } \boxtimes \text{ No}$		vatoreourse.	
If a Watercourse was Impacted, Describe Fully. No watercourse was In	mpacted		
Describe Cause of Problem and Remedial Action Taken: Between 170: (gasoline/diesel) ran over. At 1730 the release was discovered and n containment and did not reach any waterways			
Describe Area Affected and Cleanup Action Taken Upon discovery pe and approximately 80% (1747gallons) was recovered. Cause(s) of t			cuum truck was dispatched
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedie or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective the NMOCD marked as "Final Repor ate contamination that pose a threat t	actions for rele t" does not relie o ground water	ases which may endanger eve the operator of liability , surface water, human health
	OIL CONSE	RVATION	DIVISION
Signature			
Printed Name: JAMES ROMERO	Approved by District Supervisor:		
Title: Environmental Engineer	Approval Date:	Expiration I	Date:
E-mail Address: Jromero@Giant.com	Conditions of Approval:		Attached
Date: Oct 18, 2005 Phone: 505-722-0227 * Attach Additional Sheets If Necessary			

ا بر	Price, Wayne	, EMNRD
	From:	James Romero [jromero@giant.com] Sent: Mon 10/3/2005 4:14 PM
•	то:	Price, Wayne, EMNRD; Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD
	Cc:	Ed Riege; Ed Rios; Steve Morris; Johnny Sanchez; Stan Fisher
	Subject:	Release Notification and Corrective Action
•	Attachments:	<u>     Release Notification API Secondary.doc(53KB)</u>

Wayne, Carl, Denny and Hope:

Attached you will find an electronic version of C-141 Release Notification for a release which occurred into our secondary containment at our API Separator. A hard copy will follow this email via certified mail with lab results attached.

Attachments can contain viruses that may barm your computer. Attachments may not display correctly.

<<Release Notification API Secondary.doc>>

DISCLAIMER: The information contained in this e-mail message may be privileged, confidential and protected from disclosure. If you are not the intended recipient, any further disclosure, use, dissemination, distribution or copying of this message or any attachment is strictly prohibited. If you think you have received this e-mail message in error, please e-mail the sender at the above address and permanently delete the e-mail. Although this e-mail and any attachments are believed to be free of any virus or other defect that might affect any computer system into which they are received and opened, it is the responsibility of the recipient to ensure that they are virus free and no responsibility is accepted by Giant Industries, Inc. or its affiliates for any loss or damage arising in any way from their use.

District I 1625 N. French			۲			New Mex and Natura	ico			Form C-141 Revised October 10, 2003
1301 W. Grand District III 1000 Rio Brazos District IV 1220 S. St. Franc	Road, Azteo	c, NM 87410		1220	South	vation Div St. France, NM 875	is Dr.			Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
			Rele	ease Notific	cation	and Co	orrective A	ction		
						<b>OPERA</b>	TOR		🛛 Initia	ll Report 🔲 Final Report
Name of Co Address Rt		Biant Industri	ies, Inc.				nes Romero No. 505-722-02	27		
		Industries, In	IC.			Facility Typ		21		
		Industries, Ir		Mineral C		Giant Indus			Lease N	lo.
		,		· · · · · · · · · · · · · · · · · · ·		N OF RE				
Unit Letter	Section 33	Township 15N	Range 15W	Feet from the		South Line	Feet from the	East/V	Vest Line	County McKinley
· ·	I	Latitu	de	30° 29'	 30"	Longitud	e 108° 24" 40	 0"		
						OF REL				
		e into Second		ainment			Release 210 Ga	llons	Volume Re	ecovered 210 Gallons
Source of Re	lease API	Separator Se	econdary	containment			Iour of Occurrenc <b>5/05n – 9/15/05</b>		Date and 1 9/15/05 @	Hour of Discover
Was Immedi	ate Notice (		Yes 🛛	No 🗌 Not Re	quired	If YES, To				
By Whom?							Iour 10/03/05@			
Was a Water	course Read		Yes 🗵	No		If YES, Vo	olume Impacting t	the Wate	ercourse.	
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	No watercourse	was Imj	pacted	<u></u>			
noted water	within the	secondary co	ontainmen	nt of the API sep	arator.	Samples we		taken in	for labora	and ponds, Giant personnel atory testing which indicated ment.
weekly inspe	ections and	will pump th	ie second:	ary as necessary.	Furth	ermore, Gia	nt will update O	CD and	NMED on	l and Giant has initiated a weekly basis (via our OCD renditures (RFE) to repair the
regulations a public health should their or the enviro	Il operators or the envi operations h nment. In a	are required t ronment. The nave failed to	o report as acceptane adequately OCD accept	nd/or file certain i ce of a C-141 repo y investigate and i	release nort by the remediate	otifications a e NMOCD m e contaminat	nd perform correct arked as "Final R ion that pose a thr ve the operator of	ctive act eport" d eat to gi respons	ions for rele loes not rele cound water bility for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
							<u>OIL CON</u>	<u>SERV</u>	ATION	DIVISION
Signature:		······································				A	District Summer's			
Printed Nam	e: JAMES	ROMERO				Approved by	District Supervis	or:		
Title: Enviro	onmental Er	ngineer				Approval Da	te:		Expiration	Date:
E-mail Addr	ess: Jromer	ro@Giant.com	1			Conditions o	f Approval:			Attached 🛛
		one: 505-722-0 ets If Necess								



#### COVER LETTER

September 30, 2005

Steve Morris Giant Refining Co Rt. 3 Box 7 Gallup, NM 87301 TEL: (505) 722-0258 FAX (505) 722-0210

RE: Stormwater Separator Effluent Water

Order No.: 0509109

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 9/12/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager



4901 Hawkins NE Suite D Albuquerque, NM 87109 505.345.3975 = Fax 505.345.4107 www.hallenvironmental.com

CLIENT:	Giant Refining Co			Cli	ent Sample ID	: SW Se	p Effluent
Lab Order:	0509109				<b>Collection Dat</b>	te: 9/9/2	005 11:30:00 AM
Project:	Stormwater Separator I	Effluent Water					
Lab ID:	0509109-01				Matri	ix: AQL	IEOUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS						Analyst: MAP
Fluoride		2.1	0.50		mg/L	5	9/13/2005
Chloride		90	0.50		mg/L	5	9/13/2005
Phosphorus, O	rthophosphate (As P)	2.6	2.5	н	mg/L	5	9/13/2005
Sulfate		2300	25		mg/L	50	9/16/2005
Nitrate (As N)+	Nitrite (As N)	5.0	0.50		mg/L	5	9/15/2005
EPA METHOD	8015B: DIESEL RANGE						Analyst: SCC
Diesel Range C	Drganics (DRO)	1.9	1.0		mg/L	1	9/21/2005 12:09:57 PM
Motor Oil Rang	e Organics (MRO)	ND	5.0		mg/L	1	9/21/2005 12:09:57 PM
Surr: DNOP		126	58-140		%REC	1	9/21/2005 12:09:57 PM
EPA METHOD	8015B: GASOLINE RANG	SE					Analyst: NSB
Gasoline Rang	e Organics (GRO)	3.0	0.25		mg/L	5	9/17/2005 2:18:49 AM
Sur: BFB		113	7 <del>9</del> .7-118		%REC	5	9/17/2005 2:18:49 AM
EPA METHOD	8260B: VOLATILES						Analyst: HLM
Benzene		82	2.0		µg/L	2	9/14/2005
Toluene		290	20		µg/L	20	9/13/2005
Ethylbenzene		35	2.0		µg/L	2	9/14/2005
Methyl tert-buty	yl ether (MTBE)	3.8	2.0		µg/L	2	9/14/2005
1,2,4-Trimelhy	benzene	110	2.0		µg/L	2	9/14/2005
1,3,5-Trimethy	lbenzene	91	2.0		µg/L	2	9/14/2005
1,2-Dichloroeth	nane (EDC)	ND	2.0		µg/L	2	9/14/2005
1,2-Dibromoetl	hane (EDB)	ND	2.0		µg/L	2	9/14/2005
Naphlhalene		42	4.0		µg/L	2	9/14/2005
1-Methylnapht	halene	110	8.0		µg/L	2	9/14/2005
2-Methylnapht	halene	99	8.0		µg/L	2	9/14/2005
Acetone		ND	20		µg/L	2	9/14/2005
Bromobenzen	8	ND	2.0		µg/L	2	9/14/2005
Bromochlorom	elhane	ND	2.0		µg/L	2	9/14/2005
Bromodichloro	methane	ND	2.0	·	µg/L	2	9/14/2005
Bromoform		ND	2.0		µg/L	2	9/14/2005
Bromomethan	e	ND	4.0		µg/L	2	9/14/2005
2-Butanone		ND	20		µg/L	2	9/14/2005
Carbon disulfi	de	ND	20		µg/L	2	9/14/2005
Carbon Tetrac	hloride	ND	2.0		µg/L	2	9/14/2005
Chlorobenzen	e	ND	2.0		µg/L	2	9/14/2005
Chloroethane		ND	4.0		µg/L	2	9/14/2005
Chloroform		ND	2.0		µg/L	2	9/14/2005
Chloromelhan	e	ND	2.0		µg/L	2	9/14/2005
2-Chlorotolue	ne	ND	2.0		µg/L	2	9/14/2005
4-Chlorotolue	ne	ND	2.0		µg/L	2	9/14/2005

<del>\_\_</del>,

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 1/21

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 1 of 5

CLIENT: **Giant Refining Co** Lab Order: 0509109 **Project:** Stormwater Separator Effluent Water

#### Client Sample ID: SW Sep Effluent Collection Date: 9/9/2005 11:30:00 AM

Lab ID:

0509109-01

Matrix: AQUEOUS

alyses	Result	PQL (	Qual Units	DF	Date Analyzed
dis-1,2-DCE	2.1	2.0	µg/L	2	9/14/2005
ds-1,3-Dichloropropene	ND	2.0	µg/L	2	9/14/2005
1,2-Dibromo-3-chloropropane	ND	4.0	µg/L	2	9/14/2005
Dibromochloromethane	ND	2.0	µg/L	2	9/14/2005
Dibromomethane	ND	4.0	µg/L	2	9/14/2005
1,2-Dichlorobenzene	ND	2.0	µg/L	2	9/14/2005
1,3-Dichlorobenzene	ND	2.0	µg/L	2	9/14/2005
1,4-Dichlorobenzene	ND	2.0	µg/L	2	9/14/2005
Dichlorodifluoromethane	ND	2.0	µg/L	2	9/14/2005
1,1-Dichloroethane	ND	2.0	µg/L	2	9/14/2005
1,1-Dichloroethene	ND	2.0	µg/L	2	9/14/2005
1.2-Dichloropropane	ND	2.0	µg/L	2	9/14/2005
1,3-Dichloropropane	ND	2.0	µg/L	2	9/14/2005
2,2-Dichloropropane	ND	2.0	µg/L	2	9/14/2005
1,1-Dichloropropene	ND	2.0	µg/L	2	9/14/2005
Hexachlorobutadiene	ND	2.0	µg/L	2	9/14/2005
2-Hexanone	ND	20	µg/L	2	9/14/2005
Isopropylbenzene	14	2.0	µg/L	2	9/14/2005
4-Isopropyltoluene	13	2.0	µg/L	2	9/14/2005
4-Methyl-2-pentanone	ND	20	µg/L	2	9/14/2005
Methylene Chloride	ND	6.0	µg/L	2	9/14/2005
n-Butylbenzene	14	2.0	µg/L	2	9/14/2005
n-Propylbenzene	4.5	2.0	µg/L	2	9/14/2005
sec-Butylbenzene	8.9	2.0	μg/L	2	9/14/2005
Styrene	ND	2.0	µg/L	2	9/14/2005
lert-Butyibenzene	ND	2.0	μg/L	2	9/14/2005
1,1,1,2-Tetrachloroethane	ND	2.0	μg/L	2	9/14/2005
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	2	9/14/2005
Tetrachloroethene (PCE)	ND	2.0	μg/L	2	9/14/2005
trans-1,2-DCE	ND	2.0	µg/L	2	9/14/2005
trans-1,3-Dichloropropene	ND	2.0	μg/L	2	9/14/2005
1,2,3-Trichlorobenzene	ND	2.0	μg/L	2	9/14/2005
1,2,4-Trichlorobenzene	ND	2.0	γg/L	2	9/14/2005
1,1,1-Trichloroethane	ND	2.0	μg/L	2	9/14/2005
1.1.2-Trichloroelhane	ND	2.0	µg/L	2	9/14/2005
Trichloroethene (TCE)	ND	2.0	μg/L	2	9/14/2005
Trichlorofluoromethane	ND	2.0	μg/L	2	9/14/2005
1,2,3-Trichloropropane	ND	4.0	μg/L	2	9/14/2005
Vinyl chloride	ND	2.0	µg/L	2	9/14/2005
Xylenes, Total	850	20	µg/L	20	9/13/2005
Surr: 1,2-Dichloroethane-d4	93.4	87.7-108	%REC	2	9/14/2005
Sur: 4-Bromofluorobenzene	104	88.4-125	%REC	2	9/14/2005

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 2/21 R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 2 of 5

-----**CLIENT: Giant Refining Co** Lab Order: 0509109 **Project:** Stormwater Separator Effluent Water Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent Collection Date: 9/9/2005 11:30:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Surr. Dibromofluoromethane	100	83.1-111		%REC	2	9/14/2005
Surr: Toluene-d8	97.1	85.9-109		%REC	2	9/14/2005
EPA METHOD 8270C: SEMIVOLATILES						Analyst: Bl
Acenaphthene	ND	10		µg/L	1	9/15/2005
Acenaphthylene	ND	10		µg/L	1	9/15/2005
Aniline	ND	10		µg/L	1	9/15/2005
Anthracene	ND	10		µg/L	1	9/15/2005
Azobenzene	ND	10		µg/L	1	9/15/2005
Benz(a)anthracene	ND	15		µg/L	1	9/15/2005
Benzo(a)pyrene	ND	10		µg/L	1	9/15/2005
Benzo(b)fluoranthene	ND	10		µg/L	1	9/15/2005
Benzo(g,h,i)perylene	ND	10		µg/L	1	9/15/2005
Benzo(k)fluoranthene	ND	10		µg/L	1	9/15/2005
Benzoic acid	ND	50		µg/L	1	9/15/2005
Benzyi alcohol	ND	20		µg/L	1	9/15/2005
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	9/15/2005
Bis(2-chlaroethyl)ether	ND	15		µg/L	1	9/15/2005
Bis(2-chloroisopropyl)ether	ND	15		µg/L	1	9/15/2005
Bis(2-ethyihexyl)phthalate	ND	15		µg/L	1	9/15/2005
4-Bromophenyl phenyl elher	ND	10		µg/L	1	9/15/2005
Butyl benzyl phthalate	ND	15		µg/L	1	9/15/2005
Carbazole	ND	10		µg/L	1	9/15/2005
4-Chloro-3-methylphenol	ND	20		µg/L	1	9/15/2005
4-Chloroaniline	ND	20		µg/L	1	9/15/2005
2-Chloronaphthalene	ND	10		µg/L	1	9/15/2005
2-Chiorophenol	ND	10		µg/L	1	9/15/2005
4-Chlorophenyl phenyl ether	ND	15		µg/L	1	9/15/2005
Chrysene	ND	15		µg/L	1	9/15/2005
Di-n-butyl phthalate	ND	10		µg/L	1	9/15/2005
Di-n-octyl phthalate	ND	15		µg/L	1	9/15/2005
Dibenz(a,h)anthracene	ND	10		µg/L	1	9/15/2005
Dibenzofuran	ND	10		µg/L	1	9/15/2005
1,2-Dichlorobenzene	ND	10	•	µg/L	1	9/15/2005
1,3-Dichlorobenzene	ND	10		µg/L	1	9/15/2005
1,4-Dichlorobenzene	ND	10		µg/L	1	9/15/2005
3,3 <sup>-</sup> -Dichlorobenzidine	ND	15	i	µg/L	1	9/15/2005
Diethyl phthalate	ND	10	ł	µg/L	1	9/15/2005
Dimethyl phthalate	ND	10	1	µg/L	1	9/15/2005
2,4-Dichlorophenol	ND	10		µg/L	1	9/15/2005
2,4-Dimethylphenol	ND	10	)	µg/L	1	9/15/2005
4,6-Dinitro-2-methylphenol	ND	· 50	)	µg/L	1	9/15/2005
2,4-Dinitrophenol	ND	50	)	µg/L	1	9/15/2005

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range \* - Value exceeds Maximum Contaminant Level 3/21

Page 3 of 5

Date: 30-Sep-05

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----**CLIENT: Giant Refining Co** Lab Order: 0509109 **Project:** Stormwater Separator Effluent Water Lab ID: 0509109-01

#### Client Sample ID: SW Sep Effluent Collection Date: 9/9/2005 11:30:00 AM

.....

Lab ID: 0509109-01	<b>m</b>		···· · -		latrix:		·
Lnalyses	Result	PQL	Qual			DF	Date Analyzed
2,4-Dinitrotoluene	ND	10		µg/L		1	9/15/2005
2,6-Dinitrotoluene	ND	10		µg/L		1	9/15/2005
Fluoranihene	ND	10		µg/L		1	9/15/2005
Fluorene	ND	10		µg/L		1	9/15/2005
Hexachlorobenzene	ND	10		µg/L		1	9/15/2005
Hexachlorobutadiene	ND	10		µg/L		1	9/15/2005
Hexachlorocyclopentadiene	ND	10		µg/L		1	9/15/2005
Hexachloroethane	ND	10		µg/L		1	9/15/2005
Indeno(1,2,3-cd)pyrene	ND	10		µg/L		1	9/15/2005
Isophorone	ND	10		µg/L		1	9/15/2005
2-Methylnaphthalene	ND	10		µg/L		1	9/15/2005
2-Methylphenol	ND	15		µg/L		1	9/15/2005
3+4-Methylphenol	ND	.10		µg/L		1	9/15/2005
N-Nitrosodi-n-propylamine	ND	10		µg/L		1	9/15/2005
N-Nitrosodimethylamine	ND	10		µg/L		1	9/15/2005
N-Nitrosodiphenylamine	ND	10		µg/L		1	9/15/2005
Naphthalene	ND	10		µg/L		1	9/15/2005
2-Nitroaniline	ND	50		µg/L		1	9/15/2005
3-Nitroaniline	ND	50		µg/L		1	9/15/2005
4-Nitroaniline	ND	20		µg/L		1	9/15/2005
Nitrobenzene	ND	10		µg/L		1	9/15/2005
2-Nitrophenol	ND	15		µg/L		1	9/15/2005
4-Nitrophenol	ND	50		µg/L		1	9/15/2005
Pentachlorophenol	ND	50		µg/L		1	9/15/2005
Phenanthrene	ND	10		μg/L		1	9/15/2005
Phenol	ND	10		µg/L		1	9/15/2005
Pyrene	ND	15		μg/L		1	9/15/2005
Pyridine	ND	30		μg/L		1	9/15/2005
1,2,4-Trichlorobenzene	ND	10		µg/L		1	9/15/2005
2,4,5-Trichlorophenol	ND	10		µg/L		1	9/15/2005
2,4,6-Trichlorophenol	ND	15		μg/L		1	9/15/2005
Surr: 2,4,6-Tribromophenol	79.6	16.6-150		%REC		1	9/15/2005
Surr: 2-Fluoroblphenyl	67.4	19.6-134		%REC		1	9/15/2005
Surr: 2-Fluorophenol	44.4	9.54-113		%REC		1	9/15/2005
Surr: 4-Terphenyl-d14	57.4	22.7-145		%REC		1	9/15/2005
Surr: Nilrobenzene-d5	63.4	14.6-134		%REC		1	9/15/2005
Surr: Phenol-d6	29.1	10.7-80.3		%REC		1	9/15/2005
EPA 120.1: SPECIFIC CONDUCTANCE							Analyst: MA
Spedific Conductance	5700	0.010		µmhos/cm		1	9/20/2005
·							Analyst: CM
EPA METHOD 7470: MERCURY	ND	0.00020		mg/L		1	Analyst: Civit 9/13/2005
Mercury	140	0.00020				•	OF TOLEGUE
Qualifiers: ND - Not Detected at the Rep	orting Limit		S	- Spike Rec	overy out	side acco	epted recovery limits
J - Analyte detected below qua	-	s		L - RPD outsi	-		

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

4/21

Page 4 of 5

CLIENT:	Giant Refining Co			Clie	ent Sample I	D: SW Sep	Effluent
Lab Order:	0509109				Collection L	ate: 9/9/20	05 11:30:00 AM
Project:	Stormwater Separator El	fluent Water	r				
Lab ID:	0509109-01				Ma	trix: AQUI	EOUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010: TO	TAL RECOVERABLE META	LS					Analyst: NMO
Arsenic		ND	0.020		mg/L	1	9/29/2005 11:05:29 AM
Barium		0.063	0.020		mg/L	1	9/29/2005 11:05:29 AM
Cadmium		ND	0.0020		mg/L	1	9/29/2005 11:05:29 AM
Calcium		58	1.0		mg/L	1	9/29/2005 11:05:29 AM
Chromium		0.0072	0.0060		mg/L	1	9/29/2005 11:05:29 AM
Lead		ND	0.0050		mg/L	1	9/29/2005 11:05:29 AM
Magnesium		14	1.0		mg/L	1	9/29/2005 11:05:29 AM
Potassium		6.2	1.0		mg/L	1	9/29/2005 11:05:29 AM
Selenium		ND	0.050		mg/L	1	9/29/2005 11:05:29 AM
Silver		ND	0.0050		mg/L	1	9/29/2005 11:05:29 AM
Sodium		1200	100		mg/L	100	9/29/2005 12:23:00 PM
EPA METHOD	150.1: PH						Analyst: MAP
рH		7.09	0.010		pH units	1	9/23/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 5 /

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits

E - Value above quantitation range

Page 5 of 5

	Giant Retining Co						QC SL	QC SUMMARY REPORT	REPO	RT
Work Order: U2U2109 Project: Stormwa	0009109 Stormwater Separator Effluent Water	/ater						W	Method Blank	lank
Sample ID MBLK	Balch ID: R16631	Test Code: E300	E300	Units: mg/L		Analysis	Date	Prep Date		
Cilent ID:		Run ID:	LC_050912A			SeqNo:	399210			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD R	RPDLImit	Qual
Fluoride		0.1					e a comme a status de la comme de la co			
Chloride		0.1								
Phosphorus, Orthophosphate (As P)		0.5								
Sulfate Nitrate (As N)+Nitrite (As N)	ON ON	0.1								
Sample ID MBLK	Batch ID: R16660	Test Code: E300	E300	Units: mg/L		Analysis	Analysis Date 9/14/2005	Prep Date		
Client ID:		Run ID:	LC_050914A			SeqNo:	400301			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LawLimit	HighLimit RPD Ref Val	%RPD RPDLimit	RPDLIMI	Qual
Fluoride		0.1								
Chloride	Q	0.1								
Phospharus, Orthophosphate (As P)		0.5								
Sulfate		0.5								
Nitrate (As N)+Nitrite (As N)	QN	0.1								
Sample ID MBLK	Batch ID: R16660	Test Code: E300	E300	Units: mg/L		Analysis	Analysis Date 9/14/2005	Prep Date		
Client ID:		Run 1D:	LC_050914A			SeqNo:	400340			
Analyte	Result	Par	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	RPDL (mít	Qual
Fluoride		0.1								
Phosphorus, Orthophosphate (As P)	DN (1 sk)	0.5								
Sulfate		0.5								
Nitrate (As N)+Nitrite (As N)	Q	0.1								
	ND - Not Detected at the Reporting Limit		ערטי		noontad maa			-		

CLJENT: Work Order: Project:	Giant Refining Co 0509109 Stormwater Separator Effluent Water	Juent We	- 1						QC SUMMARY REPORT Method Blank	MAR	Y REPORT Method Blank	In the second se
Sample ID MBLK Client ID:	Batch ID: R16676	76	Test Code: E300 Run ID: LC 0	E300 LC_050915A	Units: mg/L		Analysis SeqNo:	Analysis Date 9/15/2005 SeqNo: 400686	/2005 36	Prep Date	te .	
Analyte	ŭ	Result	Par	SPK value	SPK Ref Val	%REC	LawLimit	LowLimit HighLimit	RPD Ref Val	%RPD	RPOLimit	Qual
Fluoride Chloride Phosphorus, Orthophosphate (As P) Sulfate Nitrale (As N)+NIrtite (As N)	phosphate (As P) te (As N)		0.1 0.5 0.5 0.1						;			
Sample ID MB-8767	67 Batch ID: 8767		Test Code:	Code: SW8015	Units: mg/L		Analysit	: Date 9/21/	Analysis Date 9/21/2005 10:32:22 AM	Prep Da	Prep Date 9/16/2005	
Client ID:			Run ID:	FID(17A) 2_050920A	50920A		SeqNo:	402340	0			
Analyte	R	Result	Par	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Motor Oll Range Organics (MRO) Surr: DNOP		ND ND 1.318	- 20	-	0	132		<b>140</b>	<b>D</b>			
Sample ID RB-II 5ml Client ID:	imi Batch ID: R16692	2	Test Code: Run ID:	Code: SW8015 U	Units: mg/L 16B		Analysis SeqNo:	5 Date 9/16/20 401082	Analysis Date   9/16/2005  11:46:06  PM SeqNo:	Prep Date	e	
Analyte	R	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Vai	%RPD	RPOLImit	Qual
Gasoline Range Organics (GRO) Surr: BFB		20.06	0.05	50		100	7.87	118	o			

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B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits

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Qualifiers:

Project: Stormw		alcr									
Sample ID MB-8746 Client ID:	Batch (D: 8746	Test Code: Run ID:	Test Code: SW8270C L Run ID: ELMO_050915A	Units: µg/L 5A		Analysis SeqNo:	Analysis Date   9/15/2005 SeqNo:	5/2005 760	Prep [	Prep Date 9/13/2005	L.S.
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	l RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	Q	9						an a martin ann an a	!	· · ·	
Acenaphthylene	Q	10									
Aniline	QN	10									
Anthracene	QN	5									
Azobenzene	QN	₽									
Benz(a)anthracene	Q	15									
Benzo(a)pyrene	Ð	9									
Benzo(b)/luoranthene	QN	10									
Benzo(g,h,i)perylene	Q	₽									
Benzo(k)fluoranthene	<u>n</u>	5									
Benzoic acid	QN	50									
Benzyi alcohoi	Q	20									
Bis(2-chloroethoxy)methane	ON	10									
Bis(2-chioroethyl)ether	Q	15									
Bis(2-chioroisopropyl)ether	QN	15									
Bis(2-ethylhexyl)phthalate	QN	15									
4-Bramophenyl phenyl ether	QN	10									
Butyi benzyl phthalate	Q	15									
Carbazole	QN	10									
4-Chioro-3-methylphenol	Q	20									
4-Chloroaniline	Q	20									
2-Chloronaphthalene	QN	5									
2-Chlarophenaí	Ð	<b>1</b> 0									
4-Chlorophenyl phenyl ether	QN	15									
Chrysene	QN	15									
Di-n-butyf phthalate	QN	10									
Di-n-octyl phthalate	QN	15									
Dibenz(a,h)anthracene	DN	10									
Qaalifiers: ND - Not I	ND - Not Detected at the Reporting Limit		C. Smi	S - Smitha Recovery cuttoide accessed recovery limits	orestad vero	limite		a A and a decision of the second			
				AN REELEVIL CHARTER	DAAL DOLDAND	A CITY INNING		B - Analyte detected in the associated Method Blank	ted in the assoc	stated Method B	lank

Project:       Stormwater Separator Effluent Water         Dibenzofuran       ND         1,2-Dichlorobenzene       ND         1,3-Dichlorobenzene       ND         1,4-Dichlorobenzene       ND         3,3'-Dichlorobenzene       ND         3,3'-Dichlorobenzene       ND         3,3'-Dichlorobenzene       ND         1,4-Dichlorobenzene       ND         2,4-Dichlorobenzene       ND         2,4-Dichlorophenol       ND         2,4-Dinitrophenol       ND         2,4-Dinitrophenol       ND         2,4-Dinitrophenol       ND         2,4-Dinitrophenol       ND			
nizofuran Olchlorobenzene Dlchlorobenzene Dlchlorobenzene hyl phthalate ethyl phthalate Olchlorophenol Dinturo-2-methylphenol Dinturophenol			Method Blank
Dichlorobenzene Dichlorobenzene Dichlorobenzene hyl phthalate ethyl phthalate Dichlorophenol Dintyrophenol Dintyrophenol			
Dichlorobenzene Dichlorobenzene Nyl phthalate ethyl phthalate Dichlorophenol Dinttrophenol Dinttrophenol			
Dichlorobenzene Dichlorobenzidine ivyl phthalate Dichlorophenol Dinitrophenol Dinitrophenol			
:Dichlorobertzidine nyl phthalate Sithyl phthalate Dichlorophenol Dinitrophenol Dinitrophenol			
yl phthalate sthyf phthalate Jichlorophenol Jinitro-2-methylphenol Jinitrophenol	ND 15		
thyi phthalate Dichlorophenol Dimethyiphenol Dinitrophenol Dinitrophenol	UD 10		
iichlorophenal Dimethylphenol Dinltra-2-methylphenol Dinltraphenal	UN 10		
limethytphenol Initra-2-methylphenol Initraphenol	01 10		
Initra-2-methylphenol Initraphenol Initra-tetrano	01 10		
linitraphenol Indicatorization	ND 50		
فيتعالمه المرابع	ND 50		
	01 10		
2,6-Dinitrototuene	UD 10		
Fluoranthene	ND 10		
Fluorene	UD 10		
Hexachlorobenzene			
Hexachlorobutadiene	<b>D</b> 1		
Hexachlorocyclopentadiene	UD 10		
Hexachloroethane			
Indeno(1,2,3-cd)pyrene	01 10		
isophorone	01 10		
2-Methyinaphthalene	01 D		
2-Methylphenol	ND 15		
3+4-Methylphenol	ND 10		
N-Nitrosodi-n-propylamine	01 10		
N-Nitrosodimethy/amine	01 10		
N-Nitrosodiphenylamine	10 J0		
Naphthalene	OL OL		
2-Nitroaniline	ND 50		
3-Nitroaniline	ND 50		
4-Nitroaniline	02 20		
Nitrobenzene	ND 10		
2-Nitrophenol	ND 15		
Ounlificars: ND - Not Detected at the Reporting Limit	ing Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank

<b>CLIENT:</b>	CLIENT: Giant Refining Co							OC SU	OC SUMMARY REPORT	/ REP(	ORT
Work Order:	0209109							) ) )			
Project:	Stormwater Separator Effluent Water	Water								Method Blank	blank
4-Nitrophenol	QN	50									
Pentachiorophenol	QN	50									
Phenanthrene	QN	<del>5</del>									
Phenol	QN	5									
Pyrene	QN	15									
Pyridine	QN	30									
1,2,4-Trichlorobenzene	UN ND	10									
2,4,5-Trichlorophenol	QN	<b>0</b>									
2,4,6-Trichlorophenol	QN	15									
Surr: 2,4,6-Tribromophenol	iophenol 138.8	•	200	0	69.4	16.6	150	0			
Surr. 2-Fluorobiphenyl	anyl 66.54	0	100	0	66.5	19.6	134	0			
Surr: 2-Fluorophenol	124.7	0	200	Ð	62.4	9.54	113	•			
Surr: 4-Terphenyl-d14	d14 77.86	0	100	0	6.77	22.7	145	0			
Surr: Nitrobenzene-d5	-d5 70.12	o	100	o	70.1	14.6	134	0			
Surr: Phenol-d6	86.4	0	200	<b>O</b>	43.2	10.7	80.3	0			
Sample ID MB-8742	Batch ID: 8742	Test Code:	Code: SW7470	Units: mg/L		Analysi	Analysis Date 9/13/2005	/2005	Prep Dat	Prep Date 9/13/2005	5
Client ID:		Run ID:	MI-LA254_050913B	0913B		SeqNo:	399552	52			
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Mercurv		0.0002						•			

S - Spika Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

Qualifiers:

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Work Order: Project:		0509109 Stormwater Separator Effluent Water	/ater						Method Blank		Method Blank	lank
Sample ID MB Client ID:	MB-8823	Balch (D: 8823	Test Code: Run ID:	Test Code: SW6010A Run ID: ICP_050929A	Units: mg/L		Analysis SeqNo:	s Date 9/29/20 405128	Analysis Date   9/29/2005 9:53:00 AM SeqNo:        405128	Prep Da	Prep Date 9/27/2005	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit		HighLimit RPD Ref Val	047%	RPOLImit	Qual
Arsenic	•	QN	0.02						•			
Barlum		QN	0.02									
Cadmium		Q	0.002									
Calcium		QN	•									
Chromium		QN	0.008									
Lead		QN	0.005									
Magnesium		Q										
Potassium		Q	-									
Selenium		Q	0.05									
Silver		QN	0.005									
Sodium		Q	-									
Qualifiers:	ND - Not De	ND - Not Detected at the Reporting Limit		S - Spil	S - Spike Recovery outside accepted recovery limits	accepted reco	very limits		B - Analyte detected in the associated Method Blank	in the associa	ted Method B	ank
	I - Analvie d	i - Analyte detected below munuitation timits	ite	R . RPI	R - RPD outside accepted receivery limite	Provenu limite						

CLIENT: Giant Re Work Order: 0509109 Project: Stormwa	Giant Refining Co										
	)							QC SUI	<b>QC SUMMARY REPORT</b>	Y REP(	JRT
	0509109 Stormwater Separator Effluent Water	ater						,		Method Blank	31ank
Sample ID Sml rb	Batch ID: R16641	Test Code:	e: SW8260B	Units: pg/L		Analysis	Analysis Date 9/13/2005	/2005	Prep Date	ate	
		Run ID:	VAL_050913A			SeqNo:	399592	92			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	Hight.Imit RPD Ref Val	%RPD	%RPD RPDLimit	Qual
Benzene	. 9	1						,			
Toluene	Ð	-									
Ethylbenzene	QN	-									
Methyl tert-butyl ether (MTBE)	BE) ND	-									
1,2,4-Trimethylbenzene	QN	-									
1,3,5-Trimethylbenzene	QN	-									
1,2-Dichloroethane (EDC)	<b>UN</b>	-									
1,2-Dibromoethane (EDB)	QN	-									
Naphthalene	ON .	<b>N</b>	•				÷			•	
1-Methylnaphthalene	QN	4			·						
2-Methylnaphthalene	<b>GN</b>	4									
Acetone	QN	10									
Bromobenzene	ON	-									
Bromochloromethane	QN	-									
Bromodichloromethane	QN	-									
Bromoform	QN	-									
Bromomethane	QN	N									
2-Butanone	ON	10									
Carbon disutlide	QN	10									
Carbon Tetrachloride	QN	-									
Chlorobenzene	QN	-									
Chloroethane	ND	8									
Chloroform	QN	-									
Chloromethane	ON	-									
2-Chlorotoluene	UN	-							•		
4-Chiaratoluene	QN	-									
dis-1,2-DCE	QN	-									
Onalifiers: ND - Nc	ND - Not Detected at the Reporting Limit	-	S - Sni	S - Snike Recovery nutcide needed recovery limite	e nrrented reco	were limite		A A A A A A A A A A A A A A A A A A A			•
						VEV RENES			THE PARTY OF A THE PA		

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Work Order: 0509109 Project: Stormwater			OC SUMMARY REPORT
Project: Stormwater			
	Stormwater Separator Effluent Water		MICLING BIANK
cis-1,3-Dichloropropene	QN		
1,2-Dibromo-3-chloropropane	Q	2	
Dibromochloromethane	QN	_	
Dibromomethane	QN	6	
1,2-Dichlorobenzene	<u> </u>	_	
1,3-Dichlorobenzene	QN		
1,4-Dichlorobenzene	QN	_	
Dichlorodilluoromethane	QN	_	
1,1-Dichloroethane	CN N	_	
1,1-Dichioroethene	QN	-	
1,2-Dichloropropane	QN	_	
1,3-Dichloropropane	QN		
2,2-Dichloropropane	QN	_	
1,1-Dichioropropene	QN		
Hexachlorobutadiene	QN	_	
2-Hexanone	ND 10		
lsopropylbenzene	QN		
4-lsapropyltatuene	QN		
4-Methyl-2-pentanone	11 DN		
Methylene Chloride	QN		
n-Butytbenzene	GN		
n-Propylbenzene	QN		
sec-Butylbenzene	QN		
Styrene	QN		
tert-Butylbenzene	DN		
1,1,1,2-Tetrachloroethane	QN		-
1,1,2,2-Tetrachloroethane	UN ND		
Tetrachioroethene (PCE)	UD DN		
trans-1,2-DCE			
Irans-1,3-Dichloropropene	UN DN		
1,2,3-Trichlorobenzene	UN DN		
1,2,4-Trichlorobenzene	UN T		
1,1,1-Trichloroethane	QN		
Qualifiers: ND - Not Detect	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Amalyte detected in the associated Method Blank

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B - Analyte detected in the associated Method Blank	:	ary limits	cepted recove	ery outside ac	S - Spike Recovery outside accepted recovery limits		Reporting Limit	ND - Not Detect	Oualifiers:
	;								:
•					•				
	•								
0	109	85.9	95.8	0	10	0	9.582	<b>4</b> B	Surr: Toluene-d8
0	111	83.1	101	0	¢	0	10.09	Surr: Dibromofluoromethane	Surr: Dibromo
	125	88.4	104	0	10	0	10.42	Surr. 4-Bromofluorobenzene	Surr: 4-Bromo
0	108	87.7	94.9	0	10	0	9.492	Surr: 1,2-Dichloroethane-d4	Surr: 1,2-Dich
						-	Q		Xylenes, Total
,									Vinvi chinride
-						- ~	UN 0 482	lethane 200000	Trichlorofluoromethane
						<b>-</b>	Q	(TCE)	Trichloroethene (TCE)
							Q	thane	1,1,2-Trichloroethane
							tor Effluent Water	Stormwater Separator Effluent Water	Project:
Method Blank								0209109	Work Order:
								CIAIN NEUMING CO	

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Hall Environmental Analysis Laboratory	Giant Refining Co
Hall Envirc	<b>CLIENT:</b>

0509109

Work Order:

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Date: 30-Sep-05

QC SUMMARY REPORT Laboratory Control Spike - generic

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Client ID:         Run ID:         LC_050912A           Analyte         Result         PQL         SPK value         S           Fluoride         0.1         SPK value         S         S           Fluoride         0.5202         0.1         0.5         S           Fluoride         0.5202         0.1         0.5         S           Prosphorus. Orthophosphate (As N)         4.815         0.1         3.5         S           Sulfate         0.5         0.1         0.5         5         S         10           Nitrate (As N)+Nitrite (As N)         3.424         0.1         3.5         10         3.5         S         10         3.5         S	SPK Ref Val %REC 0 104 0 97.6 0 97.6 0 97.8 Units: mg/L SPK Ref Val %REC	SeqNo: C LawLimit 3 90 6 90 8 90	High	
Result         PQL         SPK value         S           ns. Orthophosphate (As P)         0.5202         0.1         0.5         0.5           aus. Orthophosphate (As P)         4.88         0.1         0.5         10           s N)+Nitrite (As N)         3.424         0.1         3.5         10           b N)+Nitrite (As N)         3.424         0.1         3.5         10           D LCS-ST300-05021         Batch ID: R16660         Test Code:         E300         10         3.5           D LCS-ST300-05021         Batch ID: R16660         Test Code:         E300         10         3.5           D LCS-ST300-05021         Batch ID: R16660         Test Code:         E300         10         3.5           D LCS-ST300-05021         Batch ID: R16660         Test Code:         E300         10         3.5           Nus. Orthophosphate (As P)         0.4575         0.1         0.5         5         5           us. Orthophosphate (As N)         3.234         0.1         0.5         5         10			HighLimit RPD Ref V 110 110 110	
0.5202       0.1       0.5         us. Orthophosphate (As P)       4.815       0.1       5         4.815       0.1       5       10         9.843       0.5       9.843       0.5       5         9.843       0.5       9.843       0.1       3.5         9.817       3.424       0.1       3.5       10         9.817       3.424       0.1       3.5       10         D       LCS-ST300-05021       Batch ID: R16660       Test Code: E300       Run ID:       LC_050814A         Nutritie (As N)       Run ID:       PQL       SPK value       S         0.4679       0.1       0.5       5       5         us. Orthophosphate (As P)       4.701       0.5       5       5         0.1       0.5       0.1       0.5       5       5         s. N)+Nitrite (As N)       3.234       0.1       3.5       5				%RPD RPDLIMI
4.815       0.1       5         rus. Orthophosphate (As P)       4.88       0.5       5         9.843       0.5       10       3.424       0.1       3.5         0.8 N)+Nitrite (As N)       3.424       0.1       3.5       10         0.1 LCS-ST300-05021       Batch ID: R16660       Test Code:       E300       3.5         0.1 LCS-ST300-05021       Batch ID: R16660       Test Code:       E300       3.5         0.1 LCS-ST300-05021       Batch ID: R16660       Test Code:       E300       3.5         0.1 LCS-ST300-05021       Batch ID: R16660       Test Code:       E300       3.5         0.1 LCS-ST300-05021       Batch ID: R16660       0.1       0.5       5         0.1 LCS-ST300-05021       Batch ID: R16660       0.1       0.5       5         0.1 LCS-ST300-05021       Batch ID: R16660       0.1       0.5       5         0.2 LCS-ST300-05021       Batch ID: R16660       0.1       0.5       5         0.1 LCS-ST300-05021       Batch ID: R1679       0.1       0.5       5         0.2 LCS-ST300-05021       9.279       0.1       0.5       10         0.1 LCS-ST30       3.234       0.1       0.1       3.5	~ ~ ~ ~			
us. Orthophosphate (As P)       4.88       0.5       5         9.843       0.5       10         9.843       0.5       10         9.843       0.5       10         9.843       0.5       10         9.810       3.424       0.1       3.5         0.1       3.424       0.1       3.5         0.1       10       10       10         0.1       POL       SPK value       5         10       0.4575       0.1       0.5       5         us. Orthophosphate (As P)       4.701       0.5       5       10         vs. Orthophosphate (As N)       3.234       0.1       3.5       10	~			
9.843       0.5       10         s N)+Nitrite (As N)       3.424       0.1       3.5         D LCS-ST300-05021       Batch ID: R16860       Test Code: E300       3.5         Run ID:       LC_050914A       Run ID:       LC_050914A         Run ID:       Assult       POL       SPK value       5         us. Orthophosphate (As P)       4.701       0.5       5         us. Orthophosphate (As N)       3.234       0.1       3.5	~ ~ ~ ~			
s N)+Nitrite (As N) 3.424 0.1 3.5 D LCS-ST300-05021 Batch ID: R16860 Test Code: E300 Run ID: LC_050914A Run ID: LC_050914A Run ID: LC_050914A Run ID: C_050914A Run ID: C_050914A SPK value S 9.279 0.1 0.5 5 9.279 0.5 10 9.279 0.5 10 9.279 0.1 3.5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
D       LCS-ST300-05021       Batch ID: R16660       Test Code: E300         Run ID:       LC_050914A         Run ID:       Run ID:         Run ID:			110 0	
Run ID:         LC_050914A           Result         PQL         SPK value           vs. Orthophosphate (As P)         0.4679         0.1         0.5           vs. Orthophosphate (As P)         4.701         0.5         5           vs. N)+Nitrite (As N)         3.234         0.1         3.5		Analysis	Analysis Date 9/14/2005	Prep Date
Result         PQL         SPK value           0.4679         0.1         0.5           10. 4.575         0.1         0.5           10. 4.701         0.5         5           10         9.279         0.5         10           vs N)+Nitrite (As N)         3.234         0.1         3.5		SeqNo:	400302	
0.4679 0.1 4.575 0.1 0.5 4.701 0.5 9.279 0.5 4. N)+Nitrite (As N) 3.234 0.1		C LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit
4.575 0.1 rus. Orthophosphate (As P) 4.701 0.5 9.279 0.5 4s N)+Nitrite (As N) 3.234 0.1	0 93.6	60	110 0	•
4.701 0.5 9.279 0.5 3.234 0.1	0 81.5		110 0	
9.279 0.5 3.234 0.1	0 94.0		110 0	
3.234 0.1	0 92.8	8 06	110 0	
	0 92.4	4 90	110 0	
Sample ID LCS ST300-05021 Batch ID: R16660 Test Code: E300	Units: mg/L	Analysis	Analysis Date 9/14/2005	Prep Date
Client ID: LC_050914A		SeqNo:	400341	
Analyte Result PQL SPK value S	SPK Ref Val %REC	c LawLimit	HighLimit RPD Ref Val	%RPD RPDLimit
Fluoride 0.1 0.5	0 105		110 0	
Phosphorus, Orthophosphate (As P) 4.849 0.5 5				
Sulfate 9.705 0.5 10	0 97.1	90	110 0	
Nilrate (As N)+Nilrite (As N) 3.442 0.1 3.5				

R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits

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I         Baich ID: K16576         Test Code:         E300         Unlis: mg/L         Arabysis Date         P15/2005         Prep Date           Run ID:         LC_6569154         SeqNu:         SeqNu:         40667         SeqNu:         40667         SeqNu:         40667           Run ID:         LC_6569154         SPK ratival         SeqNu:         SeqNu:         40667         SeqNu:         40667           Run ID:         0.4769         0.1         0.5         0         910         0         10         0           4.684         0.1         0.5         0         95.7         90         110         0         10         <	1 Batch ID: R16 (As P) Batch ID: 876 Batch ID: 876										Laboratory Control Spike - genenc
Run D:         LC_060615A         SeqNo::         40067           Run D:         Spc.         Spc.<	(As P) Batch ID: 876 Batch ID: 876	Test Code: 1	300	Units: mg/L		Analysis	5 Date 9/15/	2005	Prep Da	le	
0,4766         0,1         0,5         0         95,1         90         110         0           4,684         0,1         5         0         93,7         90         110         0           9,526         0,5         1         0         95,7         90         110         0           9,529         0,5         10         0,5         90         110         0           9,529         0,5         10         10         10         0           9,529         0,5         10         95,7         90         110         0           9,529         1         3,50         0         110         0         110         0           Run D:         Fluit*ingU         54         40         110         0         110         0           Run D:         Fluit*ingU         Seglos         131         612         149         167         161           Run D:         Fluit*ingU         Malysis Dale 91/1/20529 AM         Perp Dale 91/1/2052         149         176         161           Run D:         Fluit*ingU         Malysis Dale 91/1/2052 140         Perp Dale 91/1/2052         149         161         161           <	(As P) Batch ID: 8767 Batch ID: 8767	ب	.C_050915A SPK value	SPK Ref Val	%REC	SeqNo: LowLimit	High	.7 RPD Ref Val	%RPD	RPDLimit	Qual
(A5 P)         (464 (A2 B)         0.1         5         0         9.3.1         9.0         110         0           3.351         0.5         5         0         9.5.3         9.0         110         0         9.5.3           3.351         0.5         1         3.5.2         0         10         10         0           3.351         0.1         3.5.2         0         110         9.5         10         0           3.351         1.0         35.2         0         110         10         0           Analysis         Felotinit         Flotinit         Flotinit         Flotinit         FPOLinit           Run ID:         Flotinit         SeqNo:         4.2344         Pol         Felotinit           Balch ID:         FFO         0         13         812         149         0         Pol           Balch ID:         FFO         1         5         10         10         Pol         Felotinit           Balch ID:         FFO         0         113         812         143         0         Pol         Felotinit           Balch ID:         FFO         0         113         812         143 <t< td=""><td>(As P) Batch ID: 876 Batch ID: 876 Batch ID: 876</td><td>0.1</td><td>0.5</td><td>0</td><td>95.4</td><td>06</td><td>110</td><td>0</td><td></td><td></td><td></td></t<>	(As P) Batch ID: 876 Batch ID: 876 Batch ID: 876	0.1	0.5	0	95.4	06	110	0			
(A5 P)         (4.83)         0.5         5         0         96.3         90         110         0           3.331         0.1         3.5         0         10         0         710         0         710         0           3.331         Test Code: SWB015         10         0         55.3         90         110         0         710         0           Run ID:         FID(17A)_2.050620A         SeqNo:         402341         149         0         710         710           Run ID:         FID(17A)_2.050620A         Malysis Date         1712005 11:36:34 MI         ProLimit         ProLimit           Balch ID:         RFF         FID         Malysis Date         1712005 11:36:34 MI         ProLimit           Balch ID:         RFF         Poll         Milt         HipLimit         RPD Ref Val         %RPD         ProLimit           Balch ID:         RFF         Poll         Milt         HipLimit         RPD Ref Val         %RPD         ProLimit           Balch ID:         RFF         Poll         Milt         HipLimit         RPD Ref Val         %RPD         ProLimit           SeqNo:         Poll         Poll         Milt         HipLimit         RPD Ref	(As P) Batch ID: 876 Batch ID: 876 Batch ID: 876	0.1	CJ CJ	0	93.7	6	110	0			
9.52b         0.5         10         0         57.7         90         110         0           3.351         0.1         3.5         0         95.7         90         110         0           Batch ID:<	Batch ID: 8767 Batch ID: 8767 Batch ID: 8767	0.5	5 S	0	96.7	6	110	0			
3.351         0.1         3.5         0         10         0         10         0           Batch ID: 8757         Test Code: SWB015         Units: mg/L         Analysis Date         9/2112005 11:05:28 AM         Pep Date         9/16/2005           Batch ID: 8767         Test Code: SWB015         Units: mg/L         SeqNo:         402341         Pep Date         9/16/2005           Run ID:         FID(17A) 2_050920A         SeqNo:         402341         Pep Date         9/16/2005           Batch ID:         B167         Test Code: SW8015         Units: mg/L         Analysis Date         9/21/2005 11:36:54 AM         Pep Date         9/16/2005           Batch ID:         Test Code: SW8015         Units: mg/L         Analysis Date         9/17/2005 11:36:54 AM         Pep Date         9/16/2005           Batch ID:         FID(17A) 2_050920A         SeqNo:         402344         Pep Date         9/16/2005           Batch ID:         FID(17A) 2_0509202A         SeqNo:         402344         Pep Date         9/16/2005           FibrUID:         POL         POL         SPK Ref Val         %REC         LowLIMI         RPD Ref Val         2/17         2/17         2/17         2/17         2/17         2/17         2/17         2/17         2/1	Batch ID: 876 Batch ID: 876 Batch ID: R16	0.5	10	0	95.3	06	110	0			
Batch ID:         Test Code:         SWB015         Unlis:         mg/L         Analysis         Date         Pige         Date         Pi	Batch ID: 876 Batch ID: 876 Batch ID: R18	0.1	3.5	a	95.7	06	110	0			
Run ID:         FID(17A) 2_050920A         SeqNo:         402341         Name         402341         Name         4024         Name         <	Balch ID: 876 Balch ID: R16	Test Code: 5	SWB015	Units: mg/L		Analysis	5 Date 9/21/	2005 11:05:28 AM	Prep Da	te 9/16/2005	
Result         PCL         SPK Kaf Val         %REC         LowLimit         FIPD Faf Val         %RPD         RPD Limit         RPD Faf Val         %RPD         RPD Faf V	Batch ID: 876 Batch ID: R18		"ID(17A) 2_0	50920A		SeqNo:		Ŧ			
6.532         1         5         0         131         81.2         149         0           Batch ID: 8767         Test Code: SW8015         Unlis: mg/L         Analysis Date         9/21/2005 11:36:54 AM         Prop Date         9/16/2005           Result         PQL         SPK value         SPK Kef Val         %RPC         Loulinit         HighLinit         RPD Ref Val         %RPD         RPDLinit           6.253         J         5         D         J05         81.2         149         6.532         21.7         23           8atch ID: R10692         J1         5         D         105         81.2         149         6.532         21.7         23           Batch ID: R10692         Test Code: SW8015         Unlis: mg/L         Analysis Date         9/17/2005 2:49:31 AM         Prop Date           Run ID:         Run ID:         PDFID_0509163         SeqNo:         401084         Prop Date         9/17/2005 2:49:31 AM         Prop Date           MutiD:         PDFID_0509163         SeqNo:         401084         PD         PD         PD           No         0.0.553         0.1         Nd         PD         PD         PD         PD           Run ID:         PD         <	Batch ID: 876 Batch ID: R16	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Batch ID: 8767         Test Code:         SW8015         Units:         Indix:         Maniyris         Date         9/16/2005         Prep Date         9/16/2005           Run ID:         FID(17A) 2_050920A         SeqNo:         402344         Prep Date         9/16/2005         Prep Date         9/16/2005           Result         PQL         SPK value         SPK Kef Val         %REC         LowLImit         RPD Ref Val         %RPD         RPD Limit           5.253         1         5         5         0         105         81.2         149         6.532         21.7         23           Batch ID:         R10682         Test Code:         SW8015         Units:         mg/L         Analysis         6.532         21.7         23           Run ID:         PIDFID_050016B         Analysis         Analysis         Analysis         Analysis         240105         21.7         23           Run ID:         PIDFID_050016B         Maniysis         Analysis         Analysis         2401084         Prep Date           Run ID:         PIDFID_050016B         Maniysis         Analysis         Analysis         2401084         Prep Date           Maniysis         O         0.05         0.5         0.0	Batch ID: 876 Batch ID: R16	-	2	0	131	81.2	149	0	•		
Run ID:         FID(17A) 2_050920A         SeqNo::         402344           Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         RPD Ref Val         %RPD         %RPD         %RPD         %RPD         PDLimit           5.253         1         5.263         1         5         81.2         149         6.532         21.7         23           Batch ID: R16692         Test Code:         W016         Untis: mg/L         Analysis Date         9117/2005 2:49:31 AM         Prop Date           Batch ID: R16692         Test Code:         SW0015         Untis: mg/L         Analysis Date         9117/2005 2:49:31 AM         Prop Date           Run ID:         PIDFID_050916B         SeqNo:         401084         401084         Prop Date           No         0.553         0.5         0         11         82.6         114         NPD Ref Val         %RPD         Prop Intit	Batch ID: R16	Test Code: 5	SW8015	Units: mg/L		Analysis	: Date 9/21/	2005 11:36:54 AM	Prep Da	te 9/16/2005	
Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         RPD Ref Val         %RP0         RPDLimit           5.253         1         5         5         0         105         81.2         149         6.532         21.7         23           Batch ID: R16692         Test Code:         W8015         Units:         MgL         Analysis         Bate         8172005         2.49:31 AM         Prep Date           Run ID:         PIDFID_050916B         SeqNo:         Analysis         Analysis         Analysis         PID Ref Val         Prep Date           Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         RPD Ref Val         %RPD         RPD Int           O)         0.553         0.05         0.5         0         111         82.6         114         0         YPD Ref Val         YPD Ref Val<	Batch ID: R16		"ID(17A) 2_0	10920A		SeqNa:	•	4			
5.253       1       5       0       105       81.2       149       6.532       21.7       23         Batch ID: R18692       Test Code: SW8015       Units: mg/L       Analysis Date 9/17/2005       8/17/2005       2:49:31       Amalysis       Prep Date         Run ID:       PIDFID_050916B       SeqNo:       401084       401084       Amalysis       101084       Amalysis       Amalysis       101084       Amalysis       101084       Amalysis       101084       Amalysis       111084       11108       1110       82.6       114       0       NRPD       RPDLimit       RPDLimit       RPDLimit       RPDLimit       RPDLimit       RPDLimit       RPDLimit       111       82.6       114       0       0       114       0       114	Batch ID: R16	Pal	SPK value	SPK Ref Val	%REC	LowLimit		RPD Ref Val	%RPD	RPDLImit	Qual
ID       GRO Ics 2.5ug       Batch ID: R16692       Test Code:       SW8015       Units:       mg/L       Analysis Date       9/17/2005       2:49:31 AM       Prep Date         D:       Run ID:       PIDFID_050916B       SeqNo:       401084       401084       Analysis Date       9/17/2005       8/10	GRO Ics 2.5ug	-	сı I	a	105	81.2	149	6.532	21.7	23	
D:     Run ID:     PIDFID_050916B     SeqNo::     401084       Result     POL     SPK value     SPK kef Val     %REC     LowLimit     HighLimit     RPD Ref Val     %RPD     RPDLimit       e Range Organics (GRO)     0.553     0.05     0.5     0     111     82.6     114     0	Stiant ID:	Test Code: 3	SW8015	Units: mg/L		Analysis	Date 9/17/	2005 2:49:31 AM	Prep Da	te	
e Range Organics (GRO) 0.553 0.05 0.5 0.5 0 111 82.6 114 PD Ref Vai %RPD RPDLimit 0.553 0.05 0.5 0.5 0 111 82.6 114 0		ë	1DFID_05091	68		SeqNo:	40108	4			
0.553 0.05 0.5 0 111 82.6 114		Pal	SPK value	SPK Ref Val	%REC	LawLimit		RPD Ref Val	%RPD	RPDLIMI	Qual
		0.05	0,5	D	111	82.6	114	0			
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J - Analyte detected below quantitation limits

ND - Not Detected at the Reporting Limit Qualifiers:

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S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

L.Sug         Batch ID: R16692         Test Code: SW8015         Units: mg/L         Analysis Date 91712005 3:19:50 AM         Prep Date 7172005 3:19:50 AM         Prep Date 713         Marphot Muture         Marphot Mu	2.5ug lics (GRO)	ID: R16692 Result 0.52 ID: R16641	Test Code: 1 Run ID: 1 PQL 0.05 Test Code: 1	SW8015 PIDFID_0509								•
Result         PCI.         SPK value         SPK Rat Val         %REC         LowLinnt         HighLinnt         RPD Rat Val         %RPD           6 Fange Organics (GRO)         0.52         0.05         0.5         0.5         0.5         0.5         0.55         0	lics (GRO)	Result 0.52 (D: R16641	P.Q.L 0.05 Test Code: 1		Units: mg/L 16B		Analysis SeqNo:	5 Date 9/17/ 40105	/2005 3:19:50 AM 36	Prep Da	e	
Range Organics (GRO)         0.52         0.05         0.5         0         104         82.6         114         0.553         6.15           ID<100ng (cs	lics (GRO)	0.52 (D: R16641	0.05 Test Code: 1	SPK value	SPK Ref Val	%REC	LowLimit		RPD Ref Val	%RPD	RPDLimit	Qual
		(D: R16641	Test Code: 1	0.5	0	104	82.6	114	0.553	6.15	8.39	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	client IU:			SW8260B VAL_050913/			Analysi: SeqNo:	s Date 9/13/ 39960	/2005 30	Prep Da	Ð	
e         16.3         1         20         0         92.6         81.4         130         0           erzene         21.99         1         20         0         110         90.8         128         0           erzene         21.46         1         20         0         107         89.6         134         0           erzene         21.46         1         20         0         107         89.6         134         0           doroethene         19.24         1         20         0         96.2         75.1         120         0           belthene (TCE)         17.35         1         20         0         86.7         75.8         110         0           lot 100 rg tree         1         20         0         86.7         75.8         110         0           lot 100 rg tree         1         20         0         86.7         75.8         110         0           lot 100 rg tree         116.4         1         20         0         86.7         75.8         110         10           lot 112.         Result         PQL         SPK Ref Val         %REC         LowLinit         HighLinit	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit		%RPD	RPDLimit	Qual
Image: constraint of the	Benzene	18.53	-	20	0	92.6	81.4	130	0			
Inforcethene         19.24         1         20         0         96.2         75.1         120         0           celtene (TCE)         17.35         1         20         0         86.7         75.8         10         0           celtene (TCE)         17.35         Test Code:         SW8260B         Units:         µg/L         Analysis Date         9/14/2005         Prep Date           Di 100ng Los         Batch ID:         Rtest V         VAL_050914B         SeqNo:         400222         Prep Date           Di         100, M         PCL         SPK kef Val         %REC         LowLimit         HighLimit         RPD Ref Val         %RPD           encene         22.94         1         20         0         115         90.8         128         0           encene         21.96         1         20         0         116         75.1         120         0           Analysis Date         110         75.0         81.4         90.8         110         0         0	Toluene Chlorobenzene	21.99 21.46	<del>.</del> .	88	0 0	110	90.8 89.6	128 134	0 0			
oathene (TCE)         17.35         1         20         0         B6.7         75.8         10         0         0           ID 100ng Ics         Batch ID: R16556         Test Code: SW8260B         Units: µg/L         Analysis Date         91/4/2005         Prep Da           .:         Run ID:         VAL_050914B         SeqNo:         400222         Analysis Date         91/4/2005         Prep Da           .:         Run ID:         VAL_050914B         SeqNo:         400222         400222         Analysis Date         91/4/2005         Prep Da           .:         Result         PCL         SPK value         SPK Ref Val         %REC         Low(Imit         HighLimit         RPD Ref Val         %RPD           enzene         22.94         1         20         0         97.2         81.4         0         0           enzene         21.96         1         20         0         115         90.8         128         0         0           ontoethene         21.96         1         20         0         110         75.1         120         0         0           for thene (TCE)         19.14         1         20         0         95.7         75.8         1	1,1-Dichloroethene	19.24	-	20	0	96.2	75.1	120	0			
ID         100ng Ics         Batch ID: R16656         Test Code:         SW8260B         Units:         µg/L         Analysis Date         µ14/2005         Prep Date           D:         Run ID:         VAL_050914B         SeqNo:         400222         400222         Prep Date         400222         Prep Date         400224         Prep Date         400224         Prep Date         400222         400222	Trichioroethene (TCE)	17.35	-	20	0	86.7	75.8	110	0			
Run ID:     VAL_050914B     SeqNo:     400222       Run ID:     VAL_050914B     SeqNo:     400224       Result     PQL     SPK rel Val     %REC     LowLimit     HighLimit     RPD Ref Val     %RPD       Result     19.44     1     20     0     97.2     81.4     130     0       Result     22.94     1     20     0     115     90.8     128     0       Result     22.42     1     20     0     112     89.6     134     0       Increatione     21.96     1     20     0     110     75.1     120     0       Increatione (TCE)     19.14     1     20     0     95.7     75.8     10     0		ID: R16656	Test Code: 4	SW8260B	·Units: µg/L		Analysis	Date 9/14/	12005	Prep Da	te -	
Result         PCL         SPK value         SPK Ref Val         %REC         LowLImit         HighLimit         RPD Ref Val         %RPD           e         19.44         1         20         0         97.2         81.4         130         0           e         22.94         1         20         0         115         90.8         128         0           enzene         22.42         1         20         0         112         80.6         134         0           enzene         21.96         1         20         0         112         80.6         134         0           oloroethene         21.96         1         20         0         95.7         75.8         10         0	Client ID:			VAL_050914E	m		SeqNo:		22			
19.44     1     20     0     97.2     81.4     130       22.94     1     20     0     115     90.8     128       22.42     1     20     0     112     89.6     134       ane     21.96     1     20     0     110     75.1     120       (TCE)     19.14     1     20     0     95.7     75.8     110	Anaiyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit		%RPD	RPDLimit	Qual
22.94     1     20     0     115     90.8     128       22.42     1     20     0     112     89.6     134       ane     21.96     1     20     0     110     75.1     120       (TCE)     19.14     1     20     0     95.7     75.8     110	Benzene	19.44	-	20	0	97.2	81,4	130	0			
22.42 1 20 0 112 89.6 134 ane 21.96 1 20 0 110 75.1 120 (TCE) 19.14 1 20 0 95.7 75.8 110	Точиеле	22.94	-	20	o	115	90.8	128	o			
21.96         1         20         0         110         75.1         120           19.14         1         20         0         95.7         75.8         110	Chlorobenzene	22.42	-	20	0	112	89.6	134	0			
19.14 1 20 0 95.7 75.8 110	1,1-Dichloroethene	21.96	-	20	0	110	75.1	120	0			
	Trichloroelhene (TCE)	19.14	-	20	D	95.7	75.8	110	0			

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

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B - Analyte detected in the associated Method Blank m .r

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Signal         Balch ID: 87450         Test Code: SW8270C         Units: ign1         Analysis Dale 415/2005         Prep Dale           Reach         Reach         Reach         Service         Units: ign1         Analysis Dale 415/2005         Prep Dale           Reach         Reach         10         100         00         73.5         11         233         0           Mychenol         73.54         10         100         00         73.6         112         200         0           Mychenol         73.54         10         100         100         0         73.6         112         0         0           Mychenol         146.3         200         0         74.7         15.4         113         0         0           Mychenol         146.3         200         0         73.6         114         0         0           More 0         0         72.8         114         12         73.3         0         0           More 0         0         0         73.3         73.3         0         0         0           More 0         0         0         73.3         73.3         0         0         0           More 0<	Project: Stol	Stormwater Separator Effluent Water	ater						Laboratory Control Spike - generic	Control	Spike - ge	nenc
Balch ID:         Fract Code:         SWMZ/TOC         Unlik:         Pg/L         Annayses use         Annayses use           Run ID:         ELMO_0509015A         SeqNo:         40076         3         11         123           73.5.4         10         100         0         73.5         11         123           146.1         10         100         0         73.5         11         123           146.3         200         0         73.5         11         123           146.1         10         100         0         74.7         15.4         119           70.8         10         100         0         73.5         12         123         133           70.3         10         100         0         70.8         12         123         134           70.3         50         200         0         6         70.3         122         123           70.4         10         200         200         0         70.3         123         114           80.4         10         200         0         74.1         12.6         140           70.6         11         70.6         100									1000		013/200	u
Run ID:         ELMO_050615A         SeqNo:         40076           Run ID:         FQL         SPK velue         SPK Ref Val         %REC         LowLmit         HighLmit           Result         70.1         SPK velue         SPK Ref Val         %REC         LowLmit         HighLmit           1         145.1         10         100         0         73.5         11         123           1         145.1         10         100         0         73.5         11         123           1         145.1         10         100         0         73.5         13         13           1         145.1         10         100         0         73.5         14         13           1         145.1         10         100         0         73.5         13         13           nordi         134.3         50         200         0         67.2         0.35         14           enol         134.3         50         200         0         67.2         0.35         14           enol         134.4         10         200         0         67.4         146         14           F4.1         7.53	Sample ID LCS-8746	Batch ID: 8746	Test Code:	SW8270C	Units: µg/L		Analysis	Date 9/15/	2005	in dar		n
Result         POL         SPK real Value         Value         Tab           73.54         10         100         0         73.5         11         123           145.1         146.3         200         0         74.7         15.4         119           145.1         10         100         0         74.7         15.4         119           145.1         10         100         0         74.7         15.4         123           145.1         10         100         0         74.0         9.00	Cilent ID:		Run ID:	ELMO_0509'	ISA		SeqNo:	40076	<u>1</u>			
73.54         10         100         0         73.5         11         12           Inythencl         145.1         10         200         0         7.4.7         15.4         119           Intere         63.32         10         200         0         7.4.7         15.4         119           Intere         63.32         10         100         0         7.3.7         9.33         122         120           Intere         7.0.74         10         100         0         7.0.7         9.33         122         120           Intere         7.0.74         10         100         0         7.0.7         9.33         122         120           Intere         7.0.74         10         100         0         7.0.7         9.33         122           Intere         7.0.74         10         100         0         7.0.7         9.33         73.1           Intere         7.0.74         10         100         0         7.0.7         9.33         73.1           Intere         7.0.7         8.34         100         0         7.4.1         12.6         140           Intere         7.0.7         7.33 <td>Analyte</td> <td>Result</td> <td>Pal</td> <td>SPK value</td> <td>SPK Ref Val</td> <td>%REC</td> <td>LawLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>048%</td> <td>RPDLimit</td> <td>Qual</td>	Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LawLimit	HighLimit	RPD Ref Val	048%	RPDLimit	Qual
Dytechenci         145.3         20         200         0         74.7         15.4         118           issere         155.1         10         200         0         72.8         12.2         12.2           resere         70.3         10         100         0         70.3         13.3           resere         70.3         10         100         0         70.7         9.93         13           ropylamine         70.3         10         100         0         70.7         9.93         122           ropylamine         70.3         50         200         0         70.7         9.93         13           enol         98.46         10         100         0         74.1         12.6         140           75.3         73.1         96         10         0         73.3         141           benzene         63.66         10         100         0         73.1         140           benzene         63.66         10         100         0         74.1         12.6         141           benzene         63.66         10         100         0         74.1         12.6         145	:	and the second	10	8	0	73.5	1	123	0			
145.1         10         200         0         72.6         12.2         13.3           63.22         10         100         0         70.3         16.9         100           70.8         10         100         0         70.3         8.13         13.3           70.4         50         200         0         63.2         13.43         3.13           80.04         50         200         0         67.0         7.03         8.13           80.48         10         200         0         67.1         7.53         73.1           74.05         15         100         200         0         67.1         7.53         73.1           74.05         10         100         0         74.1         7.53         73.1           74.0         10         100         0         67.1         7.33         73.1           74.0         101         100         0         74.1         7.53         73.1           74.0         101         100         0         74.1         7.53         74.1           75.2         101         101         100         0         77.1         101         101	4-Chlorn-3-methviohend	149.3	20	200	0	74.7	15.4	119	0			
ne         63.92         10         100         0         63.8         15.9         100         138 <td>-Chloronhenol</td> <td>145.1</td> <td>9</td> <td>200</td> <td>0</td> <td>72.6</td> <td>12.2</td> <td>122</td> <td>0</td> <td></td> <td></td> <td></td>	-Chloronhenol	145.1	9	200	0	72.6	12.2	122	0			
70.8         10         100         100         70.8         13         138           yjamine         70.74         10         100         0         70.7         9.33         122           70.74         50         200         0         67.2         -0.355         87.4           1         134.3         50         200         0         67.2         -0.355         14           1         134.3         50         200         0         67.2         -0.355         14           1         134.3         50         100         0         74.1         7.33         73.1           2ende         63.66         10         100         0         64.7         7.33         73.1           2ende         63.66         10         100         0         74.1         12.6         90.75           2ende         1015         87.4         Malysis Date 915         73.1         73.1         73.3         73.1           2ende         160         100         100         100         100         100         102           2ende         153.3         100         100         0         75.6         11         123<	. 4-Dichlorobenzene	63.92	9	100	0	63.9	16.9	100	0			
Vjarnine         70.74         10         100         0         70.7         9.83         122           80.04         50         200         0         67.2         -0.355         114           134.3         50         200         0         67.2         -0.355         114           2ene         60.04         50         200         0         67.2         -0.355         114           2ene         63.06         10         100         0         74.1         17.3         73.1           2ene         63.06         10         100         0         63.7         17.4         98.7           2ent         63.06         74.1         17.6         97.4         98.7           2ent         63.06         10         100         0         63.7         17.4         98.7           2ent         74.0         10.1         10.1         10.1         10.1         17.4         98.7           2ent         153.2         10         10         10.1         10.1         10.1         10.1           2ent         153.3         10         200         0         77.0         15.4         112           Pl	.4-Dinitrotoluene	70.8	10	100	0	70.8	13	138	o			
B0.04         50         200         0         40.0         -20.5         87.4           renol         134.3         50         200         0         64.7         7.53         73.1           bbmzene         63.46         10         0         67.2         0.355         87.4           bbmzene         63.66         10         0         67.2         0.355         73.1           bbmzene         63.66         10         0         63.7         17.4         98.7           bbmzene         63.66         10         0         67.4         7.53         73.1           cSD-Br44         Batch ID: 87.46         10         0         63.7         17.4         98.7           cSD-Br44         Batch ID: 87.46         7.41         17.4         98.7         73.1           cSD-Br44         POL         SPK Ref Val         SPK Ref Val         SPR Ref Val         20076           shrythenol         155.8         10         0         73.1         123           shrythenol         155.8         10         0         75.6         11         123           shrythenol         155.8         10         0         0         0	4-Nitrosodi-n-propylamin		10	100	Ð	70.7	9.93	122	0			
renol         134.3         50         200         0         67.2         -0.355         114           B9.48         10         200         0         44.7         7.53         73.1           B9.48         74.06         15         100         0         63.4         12.6         13.6           Obenzene         63.66         10         100         0         63.7         17.4         98.7           CSD-5746         Batch ID: 8745         Test Code:         SW8270C         Units: µg/L         Analysis Date 915/         910           CSD-5746         Batch ID: 8745         Fun ID:         ELMO_050915A         Seq/No:         40076           CSD-5746         Batch ID: 8746         PCL         SPK Ref Val         %REC         LowLinit         HghLinit           Batch ID: 8746         10:         100         0         75.6         11         123           Stripphenol         153.9         20         200         0         75.6         11         123           Stripphenol         153.8         10         0         75.6         13         126         13           Stripphenol         153.8         10         0         75.6         12 <td>-Nitrophenol</td> <td></td> <td>50</td> <td>200</td> <td>o</td> <td>40.0</td> <td>-20.5</td> <td>87.4</td> <td>o</td> <td></td> <td></td> <td></td>	-Nitrophenol		50	200	o	40.0	-20.5	87.4	o			
B9.48         10         200         0         4.17         7.53         73.1           74.06         15         100         0         74.1         12.6         100           Chlorobenzene         63.66         10         100         0         74.1         12.6         140           D         LCSD-B746         Batch ID: B745         Test Code:         SW270C         Unlits:         JMS/         24076           D         LCSD-B746         Batch ID: B745         Test Code:         SW270C         Unlits:         JMS/         24076           D         LCSD-B746         Batch ID: B745         Test Code:         SW270C         Unlits:         JMS/         24076         24076           D         LCSD-B746         Batch ID: B745         Test Code:         SW270C         Unlits:         JMS/         24076           D         LCSD-B746         SPA00         SPA00         SPA00         24076         24076         24076           D-S-methydynenol         155.3         20         200         0         77.0         15.4         119           Ordenole         156.3         10         0         77.0         75.4         122         122	Pentachlorophenol	134.3	. 50	200	o	67.2	-0.355	114	0			
74,06         15         100         0         74,1         12.6         140           Ichlorobenzene         63,66         10         100         0         63,7         17.4         98.7           ID         LCSD-5746         Batch ID: 8746         Test Code:         SW8270C         Units:         µg/L         Analysis Cate         915/           D         LCSD-5746         Batch ID: 8746         Test Code:         SW8270C         Units:         µg/L         Analysis Cate         915/           D:         LCSD-5746         Batch ID: 8746         Test Code:         SW8270C         Units:         µg/L         Analysis Cate         915/           D:         Result         PCL         SFK Kef Value         SFK Kef Val         %rREC         LowLimit         110           D:         153.9         20         200         0         75.2         122         122           Dinobence         66.08         10         100         0         75.2         122         123           Dinobence         66.18         10         100         0         75.2         122         128           Diorobenzene         66.18         10         100         0         75.3 <td>henol</td> <td>86.48</td> <td>10</td> <td>200</td> <td>0</td> <td>44.7</td> <td>7.53</td> <td>73.1</td> <td>0</td> <td></td> <td></td> <td></td>	henol	86.48	10	200	0	44.7	7.53	73.1	0			
Ichlorobenzene         63.66         10         100         0         63.7         17.4         BB.7           ID         LCSD-8746         Batch ID: 8746         Test Code:         SW8270C         Units: µg/L         Analysis Date         9167           ID         LCSD-8746         Batch ID: 8746         Test Code:         SW8270C         Units: µg/L         Analysis Date         9167           ID         LCSD-8746         Batch ID: 8746         Test Code:         SW8270C         Units: µg/L         Analysis Date         9167           ID         LCSD-8746         Test Code:         SW8270C         Units: µg/L         Analysis Date         9167           Inhene         75.82         10         100         0         75.6         11         123           0.3-methyphenol         155.39         20         200         0         75.2         122         122           0.10-norbiterzene         66.1         10         100         0         75.4         13         136           0.10-norbiterzene         68.18         10         100         0         74.9         3.55         14           0.10-norbiterzene         64.1         10         100         75.3         73.1	Vrene	74.06	15	100	•	74.1	12.6	140	•			
ID         LCSD-8746         Batch ID: 8746         Test Code:         SW8270C         Units:         µg/L         Analysis         Date         915           D:         LCSD-8746         Batch ID: 8746         Test Code:         SW8270C         Units:         µg/L         Analysis         Paoris         40076           D:         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit           Anthene         75.82         10         100         0         75.6         11         123           Anthene         75.82         10         100         0         75.6         11         123           Anthene         75.82         10         200         0         75.6         11         123           Anthene         75.33         10         200         0         75.2         122         122           Anthene         76.42         10         100         0         74.9         13         138           Anothenal         66.08         10         100         0         74.9         3.55         144           Anothenal         88.18         10         200         0         74.9	,2,4-Trichlorobenzene	63.66	10	100	0	63.7	17.4	98.7	0	I		
Run ID:         ELMO_050915A         SeqNo:         40078           Result         PQL         SPK Ket Val         SeqNo:         40078           Ihene         75.62         10         100         75.6         11         123           Ihene         75.62         10         100         0         75.6         11         123           Ihene         75.62         10         100         0         75.6         11         123           Ihene         75.62         10         100         0         75.2         122         136           Ihenol         160         100         0         76.2         12.2         138           Interol         160         100         0         75.2         12.2         138           Interol         160         100         0         76.2         12.2         138           Interol         144         13         138         138         138         138         138           Inthol         130         100         0         100         0         73.3         138           Inthol         138         138         138         138         133.55         144		Batch ID: 8746	Test Code:	SWB270C	Units: µg/L		Analysis	Date 9/15/	2005	Prep Da	ate 9/13/200	2
Result         PCL         SPK value         SPK Ref Val         Value         Induction           nihne         75.82         10         100         0         75.6         11         123           o-3-methylphenol         153.3         20         200         0         77.0         15.4         119           o-3-methylphenol         150.3         10         200         0         75.2         12.2         123           phenol         150.3         10         200         0         75.2         12.2         123           ohonberrzene         66.08         10         100         0         75.2         12.2         138           ooth-propylamine         68.18         10         100         0         76.4         13         138           forophenol         90.32         50         200         0         74.9         3.55         114           konoberzene         64         10         700         0         74.9         3.55         144           konoberzene         64         10         100         0         74.9         3.55         140           konoberzene         64         10         100         0 <td>tient ID:</td> <td></td> <td>Run ID:</td> <td>ELMO_0509</td> <td>15A</td> <td></td> <td>SeqNo:</td> <td>40076</td> <td>32</td> <td></td> <td></td> <td></td>	tient ID:		Run ID:	ELMO_0509	15A		SeqNo:	40076	32			
75.62       10       100       0       75.6       11       123         153.9       20       200       0       77.0       15.4       119         150.3       10       200       0       77.0       15.4       119         150.3       10       200       0       75.2       12.2       122         66.08       10       100       0       66.1       16.9       100         76.42       10       100       0       76.4       13       138         68.18       10       100       0       76.4       13       138         90.32       50       200       0       74.9       3.55       114         89.98       10       200       0       74.9       3.55       114         89.98       10       100       0       73.8       12.6       140         64       10       100       0       64.0       17.4       98.7         64 Detected at the Reporting Limit       S-Spike Recovery outside accepted recovery limits       17.4       98.7	nalyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit		%RPD	RPDLimit	Qual
153.9       20       200       0       77.0       15.4       119         150.3       10       200       0       75.2       12.2       122         66.08       10       100       0       76.1       16.9       100         76.42       10       100       0       66.1       13.2       122         66.08       10       100       0       76.4       13       138         76.42       10       100       0       76.4       13       138         68.18       10       100       0       74.9       3.5       114         90.32       50       200       0       74.9       3.55       114         89.98       10       200       0       74.9       3.55       114         64       10       200       0       73.8       12.5       87.4         64       10       100       0       64.0       17.4       98.7         64       10       100       0       64.0       17.4       98.7         64       10       100       0       64.0       17.4       98.7	reasonthene	75.62	10	100	0	75.6	11	123	73.54	2.79	30.5	
150.3       10       200       0       75.2       12.2       12.2       12.2         66.08       10       100       0       66.1       16.9       100         76.42       10       100       0       76.4       13       138         76.42       10       100       0       76.4       13       138         68.18       10       100       0       76.4       13       138         90.32       50       200       0       76.4       13       138         90.32       50       200       0       74.9       3.55       114         89.98       10       200       0       74.9       3.55       114         73.82       15       100       0       73.8       12.5       87.4         64       10       100       0       64.0       17.4       98.7         64       10       100       0       64.0       17.4       98.7         64       10       100       0       64.0       17.4       98.7         64       10       100       0       64.0       17.4       98.7         64       10	-Chlom-3-methylahenal	153.9	20	200	0	0.77	15.4	119	149.3	3.05	28.6	
66.08       10       100       0       66.1       16.9       100         76.42       10       100       0       76.4       13       138         68.18       10       100       0       76.4       13       138         68.18       10       100       0       68.2       9.93       122         90.32       50       200       0       45.2       12.5       87.4         149.8       50       200       0       74.9       3.55       114         89.98       10       200       0       74.9       3.55       144         89.98       10       200       0       73.8       12.6       140         73.82       15       100       0       73.8       12.6       140         64       10       100       0       64.0       17.4       98.7         64       10       100       0       64.0       17.4       98.7         64       10       100       0       64.0       17.4       98.7         64       10       100       0       64.0       17.4       98.7         64       10       1	-Chlorophenol	150.3	10	200	0	75.2	12.2	122	145.1	3.55	107	
76.42       10       100       0       76.4       13       138         68.18       10       100       0       68.2       9.93       122         90.32       50       200       0       45.2       12.5       87.4         149.8       50       200       0       74.9       3.55       114         89.98       10       200       0       74.9       3.55       140         73.82       15       100       0       73.8       12.6       140         64       10       100       0       64.0       17.4       98.7         61 Detected at the Reporting Limit       S-Spike Recovery outside accepted recovery limits       S-Spike Recovery outside accepted recovery limits	4-Dichlorobenzene	66.08	9	100	0	66.1	16.9	100	63.92	3.32	62.1	
68.18       10       100       0       68.2       9.93       122         90.32       50       200       0       45.2       12.5       87.4         149.8       50       200       0       74.9       3.55       114         89.98       10       200       0       74.9       3.55       140         73.82       15       100       0       73.8       12.6       140         64       10       100       0       64.0       17.4       98.7         61 Detected at the Reporting Limit       S-Spike Recovery outside accepted recovery limits       S-Spike Recovery outside accepted recovery limits	.4-Dinitrotoluene	76.42	₽	100	0	76.4	13	138	70.8	7.63	14.7	
90.32     50     200     0     45.2     12.5     87.4       149.8     50     200     0     74.9     3.55     114       89.98     10     200     0     45.0     7.53     73.1       73.82     15     100     0     73.8     12.6     140       64     10     100     0     64.0     17.4     98.7	V-Nitrosodi-n-propylamin		9	100	•	68.2	9.93	122	70.74	3.69	30.3	
Incrophenol         149.8         50         200         0         74.9         3.55         114           Romphenol         89.98         10         200         0         45.0         7.53         73.1           Rohlorobenzene         73.82         15         100         0         73.8         12.6         140           Rohlorobenzene         64         10         100         0         64.0         17.4         98.7           Richlorobenzene         64         10         100         0         64.0         17.4         98.7           Richlorobenzene         64         10         100         0         64.0         17.4         98.7           Richlorobenzene         8         100         0         5.5 kite Recovery outside accepted recovery limits         140	-Nitrophenol		50	200	0	45.2	12.5	87.4	80.04	12.1	36.3	
89.9B         10         200         0         45.0         7.53         73.1           73.82         15         100         0         73.8         12.6         140           richlorobenzene         64         10         100         0         64.0         17.4         98.7           iers:         ND - Not Detected at the Reporting Limit         S - Spike Recovery outside accepted recovery limits         S - Spike Recovery outside accepted recovery limits	Pentachlorophenol	149.8	50	200	0	74.9	3.55	114	134.3	10.9	49	
73.82         15         100         0         73.8         12.6         140           richlorobenzene         64         10         100         0         64.0         17.4         98.7           ichlorobenzene         54         10         100         0         64.0         17.4         98.7           iers:         ND - Not Detected at the Reporting Limit         5 - Spike Recovery outside accepted recovery limits         5 - Spike Recovery outside accepted recovery limits	henol	89.98	10	200	0	45.0	7.53	73.1	89.48	0.557	52.4	
richlorobenzene 64 10 100 0 64.0 17.4 98.7 iers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits	vrene	73.82	15	001	0	73.8	12.6	140	74.06	0.325	16.3	
ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits	,2,4-Trichlorobenzene		10	100	0	64.0	17.4	98.7	63.66	0.533	36.4	
ND - NOI DEIECTED III ILLE KEDDITUE TIUIII					bitto reverse cit.	anonantari an	timite			d in the action	I hodieM hein	quul
		Not Detected at the Reporting Limit		5 0	וואם הבנטעהוא שאונ	ם מההכלווכח וכה			in - cimit - a			

	<b>OC SUMMARY REPORT</b>	
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	<b>Giant Refining Co</b>	
	CLIENT:	

Giant Refining Co 0509109 Work Order:

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Sample ID LCS-8742	Batch ID: 8742	Test Code: SW7470	SW7470	Units: mg/L		Analysis	Analysis Date 9/13/2005	/2005	Prep U:	Prep Date 9/13/2005	-
Client ID:		Run ID:	MI-LA254_050913B	0913B		SeqNo:	399553	53			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004975	0.0002	0.005	o	99.5	75.2	134	0			
Sample ID LCSD-8742	Batch ID: 8742	Test Code: SW7470	SW7470	Units: mg/L		Analysis	Analysis Date 9/13/2005	/2005	Prep Da	Prep Date 9/13/2005	
Client ID:		Run ID:	MI-LA254_050913B	0913B		SeqNo:	399577	17			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Vat	%RPD	RPDLimit	Qual
Mercury	0.00498	0.0002	0.005	D	<b>99.</b> 6	75.2	134	0.004975	0.102	0	
Sample ID LCS-8823	Batch ID: 8823	Test Code:	Test Code: SW6010A	Units: mg/L		Analysis	Date 9/29/	Analysis Date 9/29/2005 9:56:02 AM	Prep Da	Prep Date 9/27/2005	
Client ID:		Run ID:	ICP_050929A			SeqNo:	405129	29			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5041	0.02	0.5	0	101	80	- 120	٥		•	
Barium	0.4623	0.02	0.5	0	92.5	80	120	D			
Cadmium	0.4612	0.002	0.5	0	92.2	80	120	o			
Calcium	49.25	¥	50	Ċ	98.5	80	120	o			
Chromium	0.4698	0.006	0.5	0	94.0	80	120	0			
Lead	0.4653	0.005	0.5	0	93.1	80	120	0			
Magnesium	47.33	-	50	0	94.7	80	120	0			
Potassium	49.46	-	50	o	98.9	80	120	D			
Selenium	0.4445	0.05	0.5	Ð	88.9	80	120	0			
Silver	0.4625	0.005	0.5	Ð	92.5	80	120	0			
Codition	50.78	Ŧ	50	c	102	80	120	c			

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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		:
<b>CLIENT:</b>	Giant Refining Co	
Work Order:	0209109	) ) ,

Laboratory Control Spike Duplicate QC SUMMARY REPORT

Project: Stormw	Stormwater Separator Effluent Water	Water						Laboratory Control Spike Duplicate	ontrol S	pike Uupl	Icate
Sample ID LCSD-8823	Batch (D: 8823	Test Code	est Code: SW6010A	Units: mg/L		Analysis	Date 9/28	Analysis Date 9/28/2005 9:58:26 AM	Prep Da	Prep Date 9/27/2005	
Client ID:		Run ID:	ICP_050929A			SeqNo:	405130	30			
Analyte	Result	Par	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLImit	Qual
Arsenic	0.4967	0.02	0.5	o	99.3	80	120	0.5041	1.48	20	
Bartum	0.466	0.02	0.5	0	93.2	80	120	0,4623	0.785	20	
Cadmium	0.4626	0.002	0.5	Ċ	92.5	80	120	0.4612	0.303	20	
Calcium	48.02	-	50	0	98.0	80	120	49.25	0.463	20	
Chromium	0.4692	0.006	0.5	0	93.8		120	0.4698	0.137	20	
Lead	0.4666	0.005	0.5	0	93.3	80	120	0.4653	0.289	20	
Magnesium	47.69	-	50	0	95.4	80	120	47.33	0.776	20	
Potassium	50.23	-	50	o	100	80	120	49.46	1.55	20	
Selenium	0.4472	0.05	0.5	Đ	89.4	80	120	0.4445	0.593	20	
Silver	0.4677	0.005	0.5	0	93.5	8	120	0.4625	1.11	20	
Sodium	50.07	-	50	0	100	80	120	50.78	1.40	20	

20/21

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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	Sample	Receipt (	Checklist				
Client Name GIANTREFIN			Date and Time	Received:		9/	12/2005
Work Order Number 0509109	$\cap$		Received by	AT			
Checklist completed by	Alon	. Da	9/12/0	25			
Matrix	Carrier name	<u>Client dro</u>	<u>p-off</u>				
Shipping container/cooler in good condition?		Yes 🗹	No 🗖	Not Presen			
Custody seals intact on shipping container/coo	ler?	Yes 🗌	No 🗖	Not Present		Not Shipped	
Custody seals intact on sample bottles?		Yes 🗋	No 🗹	N/A			
Chain of cuslody present?		Yes 🗹	No 🗖				
Chain of custody signed when relinquished an	d received?	Yes 🗹	No 🗖				
Chain of custody agrees with sample labels?		Yes 🗹	No 🗖				
Samples in proper container/bottle?		Yes 🗹	No 🗆				
Sample containers intact?		Yes 🗹	Νο				
Sufficient sample volume for indicated test?		Yes 🗹	No 🗆				
All samples received within holding time?		Yes 🗹	No 🗖				
Water - VOA vials have zero headspace?	No VOA vials subr	nitted 🛛	Yes 🗹	No 🗆	)		
Water - pH acceptable upon receipt?		Yes 🗹	No 🗔	N/A	ן		
Container/Temp Blank temperature?		1°	4° C ± 2 Accepta				
COMMENTS:							
						=====	
Client contacted	_ Date contacted:		Per	son contacted			
Contacted by:	Regarding		<b></b>			·····	
Comments:							
- <u></u>							
<u></u>							
						<del></del>	
Corrective Action							

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								_				<b>X</b> N	n c
4107												. ç d	
HALL ENVIRONMENTAL ANALYSIS LAEDRATORY 4901 Hawkins NE, Suite D Albuquerque, New Merkico 87109 Tel. 505.345.3975 Fax 505.345.4107 Www.hallenvironmental.com Seicides/PC8's (8082) CO, NO, NO, SO, SO, SA5.4107 MALYSIS REQUEST MALYSIS RECONTRACTORY MALYSIS REQUEST MALYSIS RECONTRACTORY MALYSIS RECONTRACTORY	6.5	x							· ·			63.1	
	B270 (Se	$\hat{\chi}$										(4)	Eto 9Ko
ADV ADV ADV ADV ADV ADV ADV	8260B (/	X										. V.	EZ
												۱۱ ۲	Hele 2
HALL ENVIRONMENTAL ANALYSIS REQUEST ABbuquerque, New Mexico 87109 Metals 7.00, NO <sub>3</sub> , PO <sub>4</sub> , SO, 1 Scicides/ PCB's (8082) Scicides/ PCB's (8082) Scicides/ PCB's (8082) Scicides/ PCB's (8082) MALYSIS REQUEST MALYSIS REQUEST	N B AADA Anions (F.	x							· ·			ż	▶ <u>↓</u>
HALL AND 80211 Albuquerquer Albuquer Albuduer Albuquer Albuduer			-									X	A.
ISOB borth ISOB borth ISOB borth	EDC (Me											V	T.
(r.402 bod)												à	Ĩ,Ñ
thod 80158 (Gas/Diesel)		$\frac{1}{\sqrt{2}}$						_					. Ş 🏹
		<u>×</u>	_			+					{	Hemarks:	NX.
MTBE + TMB's (8021)	1 + XJT8											Remai	<u> </u>
action		2										З С	
V.	HEAL No.	0309169-1									Į,	9/12/199	
	T	220											
ackage: Level 4 [ Catter Morre	e											4	_
DA/DC Package:	Preservative		-		_			-				lature	lature
	Preserval HgCl <sub>2</sub> HNO <sub>3</sub>												/: (Sigr
Benature:								+	•		J	Received By: (Signatur(e)	Received By: (Signature)
Other: Project Name: Project Manag	Number/Volume											Hece	Rece
Other: Project Name: Project Manager: Sampler: Sampler:	Numb												
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NON SON	, No.											<i>ĴĹ</i>	
Y RECOR	Sample I.D. No.	in											ature)
	San	SW									ļ	ad By: (Sign	: (Sign
1222 1210 222 222											! <sup>!</sup>	劉	hed By
	Matrix	H20									ŀ	Relinquished By: (Signature	Relinquished By: (Signature)
F.C.	1	0									_	_	B
N.OF.	Time	1130										Time: 9/330	Time:
CHAIN-OF-CUSTODY RECORD Client: Jan Kylining Address: But S Bog 7 Sally, NM 8739 / Flune #: 505 722 5833 Fax #: 505 722 5833	Date	501										2-0/21	Date:
	ł	9/2/		ł	ł	I	I	I	·		ļ	ñ N	lã

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District I 1625 N. French I District II 1301 W. Grand A District III 1000 Rio Brazos District IV 1220 S. St. France	Avenue, Arte Road, Aztec	esia, NM 88210 c, NM 87410		Energy Mir Oil C 1220	herals a conserv South	vation Div	Resources rision is Droot	• [[V] 200	ED 5	Submit 2 C District (	Form C-141 ised October 10, 2003 opies to appropriate Office in accordance th Rule 116 on back side of form
			Rele	ase Notific	ation	and Co	PrectiveA	etion	rion		
						OPERA	TOR DIVIS	ION	🖂 Initia	al Report	Final Report
Name of Co		Biant Industri	es, Inc.				nes Romero			Į	
Address Rt. Facility Nan		Industries, In	c			facility Typ	lo. 505-722-02 e Refinery	27			
				Minoral C					Lassa		
Surface Ow	ner Glant	Industries, Ir	IC.			iant Indust	· · · · · · · · · · · · · · · · · · ·		Lease N	10.	
<b></b>						OF RE				-	1
Unit Letter	Section 33	Township 15N	Range 15W	Feet from the	North/S	South Line	Feet from the	East/W	/est Line	County McKinley	
		Latitu	de	30° 29' 3	30"	Longitud	e108° 24" 40	0"			
				NAT	URE	OF REL	EASE				
		e into Second					Release 210 Gal			ecovered 21	
Source of Re	lease API	Separator Se	econdary	containment			lour of Occurrenc / <b>5/05n – 9/15/05</b>		Date and 1 9/15/05 (a	Hour of Dis 2 <b>0930</b>	scover
Was Immedia	ate Notice (		Yes 🛛	No 🗌 Not Rec	quired	If YES, To Wayne Pr	Whom? ice, OCD and Ho				
By Whom?							Iour 10/03/05@				
Was a Water	course Rea	ched?	Yes 🗵	] No		If YES, Vo	olume Impacting t	he Wate	rcourse.		
If a Watercou	urse was Im	pacted, Descr		No watercourse	was Imp	acted					
noted water	within the	secondary co	ontainmer		arator.	Samples we	re gathered and t	taken in	for labora	atory testing	Giant personnel 5 which indicated
weekly inspe	ections and	l will pump th	ie second:		Furth	ermore, Gia	nt will update O	CD and	NMED or	ı a weekly b	has initiated asis (via our OCD RFE) to repair the
regulations a public health should their or the enviro	Il operators or the envi operations I nment. In a	s are required t ironment. The have failed to	to report and acceptane adequately DCD accept	e is true and comp nd/or file certain 1 ce of a C-141 repo y investigate and 1 ptance of a C-141	elease no ort by the cemediate	otifications a NMOCD m contaminat	nd perform correct arked as "Final R ion that pose a thr ye the operator of	ctive acti leport" d reat to gr responsi	ions for rel oes not rel ound wate bility for c	eases which ieve the oper r, surface wa ompliance w	may endanger ator of liability ter, human health /ith any other
		>					<u>OIL CON</u>	<u>SEKV</u>	ATION	DIVISIC	
Signature				<u> </u>							
Printed Nam	e: JAMES	ROMERO				Approved by	District Supervis	sor:		, <u>, , ,</u>	
Title: Enviro	onmental E	ngineer		-i		Approval Da	te:		Expiration	Date:	
E-mail Addr	ess: Jrome	ro@Giant.con	1			Conditions o	f Approval:			Attached	$\boxtimes$
Date: Oct 3		one: 505-722-0 eets If Necess		<u> </u>							



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#### COVER LETTER

September 21, 2005

Steve Morris Giant Refining Co Rt. 3 Box 7 Gallup, NM 87301 TEL: (505) 722-0258 FAX (505) 722-0210

RE: Oil/Water Sep. Secondary Containment Wat

Order No.: 0509180

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 9/19/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager



4901 Hawkins NE Suite DE Albuquerque, NM 87109 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com

Hall Envir	onmental Analy	ysis Laborat	tory	]	Date: 21-Se	p-05
CLIENT:	Giant Refining Co		••••••••••••••••••••••••••••••••••••••	Client Sample	ID: API Sej	o. 2nd Containment
Lab Order:	0509180			Collection I	Date: 9/15/2	2005 11:50:00 AM
Project:	Oil/Water Sep. Seco	ondary Containme	ent Water			
Lab ID:	0509180-01			Ma	trix: AQU	EOUS
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD	8260: VOLATILES SH	ORT LIST				Analyst: <b>HLM</b>
Benzene		150	10	µg/L	10	9/20/2005
Toluene		130	10	µg/L	10	9/20/2005
Ethylbenzene		ND	10	µg/L	10	9/20/2005
Methyl tert-buty	/I ether (MTBE)	1000	10	µg/Ľ	10	9/20/2005
Xylenes, Total		58	10	µg/L	10	9/20/2005

86.1-121

%REC

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9/20/2005

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Qualifiers:

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Surr: 4-Bromofluorobenzene

r.

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

Page 1 of 1

CLIENT: Giant Re Work Order: 0509180 Project: Oil/Wate	Giant Refining Co 0509180 Oil/Water Sep. Secondary Containment Water	inment Wate	H					הה אר איר	QC SUMMARY REPORT Method Blank	Y REPORT Method Blank	In the second se
Sample ID 5ml rb Client ID:	Batch ID: R16716	Test Code: Run ID:	SW8260B VAL_050920A	Units: µg/L		Analysis SeqNo:	Analysis Date 9/20/2005 SeqNo: 401902	2005 2	Prep Date		
Analyte Benzene Toluene	Result ND ND	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD F	RPDLimit	Qual
routerie Ethylbenzene Methyl tert-butyl ether (MTBE) Xylenes, Total Surr: 4-Bromofluorobenzene	. 5	0	9	o	12	86.1	121	0			ت ر
Qualifiers: ND - Not E J - Analyte	ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits	its	S - Spik R - RPI	<ul> <li>S - Spike Recovery outside accepted recovery limits</li> <li>R - RPD outside accepted recovery limits</li> </ul>	accepted recor	very limits	Ш	B - Analyte detected in the associated Method Blank	in the associated	i Method Bla	ınk

Ample ID         100ng Jes         Batch ID: R16716         Test Code:         SwazeB         Units: ggL         Analysis Date 9202005         Frep Date           Rain ID:         Run ID:         VAL_06020A         SeqNo:         401905         Frep Date           Analysis         Run ID:         VAL_06020A         SeqNo:         401905         Frep Date           Analysis         Result         POL         SFK Ret Value         SFK Ret Value         SFK Ret Value           Analysis         100         0         96.4         WEC         Low/Umit         RPD Ret Value           Analysis         11         20         0         111         71         121         0           Analysis         1         20         0         111         77         121         0           Analysis         1         20         0         111         77         121         0	Test Code:       Swa200B       Units:       Ig/L       Analysis       Date       9/20/2005         Run ID:       VAL_050920A       SeqNo:       401905       SeqNo:       401905         Null       PQL       SPK kef Val       %EC       LowLimit       HighLimit       RPD Ref Val         27       1       20       0       96.4       80       130       0         23       1       20       0       117       77       121       0         33       1       20       0       117       77       121       0	Batch ID: <b>R16716</b> Result 19.27 23.3	SW8260B VAL_050920A SPK value S 20 20		Prep Dai
Result         PQL         SPK value         SPK Ref Val         %REC         LowImit         RPD Ref Val         %RPD         RPDLimit           19.27         1         20         0         36.4         80         130         0           23.3         1         20         0         117         77         121         0           23.3         1         20         0         117         77         121         0	Result         PQL         SPK value         SPK Ref val         %REC         LowImit         Initiant         RPD Ref val           13.27         1         20         0         96.4         80         130         0           23.33         1         20         0         117         77         121         0           23.33         1         20         0         117         77         121         0		SPK value SPK Ref V 20 20		%RPD
				2	5

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B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit -----

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Qualifiers:

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Hall Environmental Analysis Lab	oratory				-		
	Sample	Rece	eipt Chec	klist			
Client Name GIANTREFIN				Date and Time	Received:		9/19/2005
Work Order Number 0509180				Received by	GLS		
Checklist completed by Signature	hleppe.		G. Date	- 19- 05			
/ Matrix	Carrier name	<u>Clien</u>	t drop-off				
Shipping container/cooler in good condition?		Yes		No 🗌	Not Present		
Custody seals intact on shipping container/coole	r?	Yes		No 🗌	Not Present	Not Shippe	ed 🗹
Custody seals intact on sample bottles?		Yes		No 🗌	N/A		
Chain of custody present?		Yes		No 🗀			
Chain of custody signed when relinquished and r	received?	Yes		No 🗌			
Chain of custody agrees with sample labels?		Yes		No 🗌			
Samples in proper container/bottle?		Yes		No 🗋			
Sample containers intact?		Yes		No 🗔			
Sufficient sample volume for indicated test?		Yes		No 🗌			
All samples received within holding time?		Yes		No 🗌			
Water - VOA vials have zero headspace?	No VOA vials subm	nitted		Yes 🗹	No 🗌	]	
Water - pH acceptable upon receipt?		Yes		No 🗌	N/A 🔽	]	
Container/Temp Blank temperature?			<b>4°</b> 4	1° C ± 2 Accepta	able		
				f given sufficient			
COMMENTS:							
	<i>,</i>						
Client contacted	Date contacted:			Pers	son contacted		
Contacted by:	Regarding	<u> </u>					
Comments:							
							······································
				·			
Corrective Action							

<b>NTAL</b> ATORY 37109 05.345.4107		×318		×			
HALL ENVIRONMENTAL ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109 Tel. 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com	ANALYSIS REQUEST	a, NO₂, PO₄, SO₄) 0₃, NO₂, PO₄, SO₄) 2808) s (8082)	or (PNA or I RCBA 8 Metals N , C) , C)				H 48hr.
		(1.40)	BTEX + MTBE				Remarks: MUS
DA/DC Package: Std D Level 4 D Other: Project Name: Oil wath reparate	Project #:	Project Manager: Meru Merun Sampler: Corhund, Have Cop	Number/Volume HgCl <sub>2</sub> HND <sub>3</sub>				Received By: (Signature)
:CUSTODY RECORD	Address: Route 3 Pox 7 Salling NM 27301	# 505-722-3P33	Tax#:     Soge     Sample I.D. No.       Date     Time     Matrix     Sample I.D. No.	15/95 1150 H2 0 2 me intermed			19/03 0840 Relinquished By: (Signature) 19/03 0840 Etc. There Date: Inne: Relinquished By: (Signature)

#### Spill Report

Sent: Thursday, October 06, 2005 7:27 AM

To: Monzeglio, Hope, NMENV; James Romero; Price, Wayne, EMNRD; Foust, Denny, EMNRD; Chavez, Carl J, EMNRD

Cc: Chavez, Carl J, EMNRD

Subject: RE: Weekly Reporting (Week Four)

From: James Romero [mailto:jromero@giant.com]
Sent: Wed 10/5/2005 1:23 PM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Chavez, Carl J, EMNRD
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Chavez, Carl J, EMNRD
Subject: RE: Weekly Reporting (Week Four)

The Following is a summary of week four

1) Oil from our ponds has been removed with Riley completing work on Thursday Sept 29th (see pics from last weeks report titled "update to week three")

2) Follow up on OCD/NMED 9/8/05 site visit - Lab results from the old API Separator have been received (see attached lab results). As of 9/9/05, all the oil has been removed from the old API separator and it continues to be oil free. Moreover, due to the fact the above grab sample exceeded NMWQS for some parameters, another grab sample of the effluent will be taken this week and sent for lab analysis which will be forwarded to OCD and NMED. It should be noted the grab sample will be taken from the outlet of the old API separator where it enters Aeration Lagoon #1.

3) The Railroad Rack Lagoon has been fully remediated and will be backfilled 10/10/05. A full report with lab analysis and pics will be forward to NMED and OCD via email with regular mail to Wayne and Hope this week. 4) A new C 141 spill report was filed this week notifying OCD/NMED of a leak into the secondary of the new API separator. All the liquids from the secondary have been pumped and measures have been taken ensuring the secondary continues to stay dry (i.e., purge pumps). Moreover, work will begin on Monday 10/10/05 to repair the primary with work beginning on the east bay followed by the west bay. This item as been added to the weekly reporting to OCD and NMED and will continue until the problem has been corrected.

5) Lab results from AL2 to EP1 (Aug 12, Aug 23, Aug 30, Sept 9, Sept 15, and Sept 21) have been received and will be forward to OCD and NMED this week.

6) Our weekly sample from AL2 to EP1 will be taken on Thursday 10/6/05

7) Annual ground water sampling is continuing this week on SMW's

8) Fuhs was onsite to clean the lower stormwater basin (outfall #1) and also enlarged the basin



#### COVER LETTER

September 30, 2005

Steve Morris Giant Refining Co Rt. 3 Box 7 Gallup, NM 87301 TEL: (505) 722-0258 FAX (505) 722-0210

RE: Stormwater Separator Effluent Water

Order No.: 0509109

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 9/12/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager



4901 Hawkins NE■ Suite D■ Albuquerque, NM 87109 505.345.3975■ Fax 505.345.4107 www.hallenvironmental.com

CLIENT: C	Jiant Refining Co			Cli	ent Sample ID:	SW Ser	Effluent
	509109			Ch	-	-	005 11:30:00 AM
					Conection Date:	. 9/9/20	NO 11:30:00 AM
Project: S	tormwater Separator E	illuent Wate	21				
Lab ID: C	509109-01				Matrix	: AQU	EOUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300	0: ANIONS						Analyst: MAP
Fluoride		2.1	0.50		mg/L	5	9/13/2005
Chloride		90	0.50		mg/L	5	9/13/2005
Phosphorus, Orthop	hosphate (As P)	2.6	2.5	н	mg/L	5	9/13/2005
Sulfate		2300	25		mg/L	50	9/16/2005
Nitrate (As N)+Nitrite	e (As N)	5.0	0.50		mg/L	5	9/15/2005
EPA METHOD 801	5B: DIESEL RANGE						Analyst: SCC
Diesel Range Organ	vics (DRO)	1.9	1.0		mg/L	1	9/21/2005 12:09:57 PM
Motor Oil Range Or	ganics (MRO)	ND	5.0		mg/L	1	9/21/2005 12:09:57 PM
Sur: DNOP		126	58-140		%REC	1	9/21/2005 12:09:57 PM
EPA METHOD 801	5B: GASOLINE RANG	SE					Analyst: NSB
Gasoline Range Org	ganics (GRO)	3.0	0.25		mg/L	5	9/17/2005 2:18:49 AM
Sur: BFB		113	79.7-118		%REC	5	9/17/2005 2:18:49 AM
EPA METHOD 826	0B: VOLATILES						Analyst: HLM
Benzene		82	2,0		µg/L	2	9/14/2005
Toluene		290	20		µg/L	20	9/13/2005
Ethylbenzene		35	2.0		µg/L	2	9/14/2005
Methyl tert-butyl eth	er (MTBE)	3.8	2.0		µg/L	2	9/14/2005
1,2,4-Trimethylbenz	ene	110	2.0		µg/L	2	9/14/2005
1,3,5-Trimethylbenz	tene	91	2.0		µg/L	2	9/14/2005
1,2-Dichloroethane	(EDC)	ND	2.0		µg/L	2	9/14/2005
1,2-Dibromoethane	(EDB)	ND	2.0		µg/L	2	9/14/2005
Naphlhalene		42	4.0		µg/L	2	9/14/2005
1-Methylnaphthaler	)e	110	8.0		µg/L	2	9/14/2005
2-Methylnaphthaler	1e	99	8.0		µg/L	2	9/14/2005
Acetone		ND	20		µg/L	2	9/14/2005
Bromobenzene		ND	2.0		µg/L	2	9/14/2005
Bromochlorometha	ne	ND	2.0		µg/L	2	9/14/2005
Bromodichlorometh	ane	ND	2.0		µg/L	2	9/14/2005
Bromoform		ND	2.0		µg/L	2	9/14/2005
Bromomethane		ND	4.0		µg/L	2	9/14/2005
2-Butanone		ND	20		µg/L	2	9/14/2005
Carbon disulfide		ND	20		µg/L	2	9/14/2005
Carbon Tetrachlori	de	ND	2.0		µg/L	2	9/14/2005
Chlorobenzene		ND	2.0		µg/L	2	9/14/2005
Chloroethane		ND	4.0		µg/L	2	9/14/2005
Chloroform		ND	2.0		µg/L	2	9/14/2005
Chloromethane		ND	2.0		µg/L	2	9/14/2005
2-Chlorotoluene		ND	2.0	)	μg/L	2	9/14/2005
4-Chlorotoluene		ND	2.0	l i	µg/L	2	9/14/2005

#### ND - Not Detected at the Reporting Limit

Qualifiers:

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 1 / 21

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 1 of 5

and the second se	
CLIENT:	Giant Refining Co
Lab Order:	0509109
Project:	Stormwater Separator Effluent Water
Lab ID:	0509109-01

Client Sample ID: SW Sep Effluent Collection Date: 9/9/2005 11:30:00 AM

Matrix: AQUEOUS

nalyses	Result	PQL QI	al Units	DF	Date Analyzed
cis-1,2-DCE	2.1	2.0	μg/L	2	9/14/2005
cis-1,3-Dichlaropropene	ND	2.0	µg/L	2	9/14/2005
1,2-Dibromo-3-chloropropane	ND	4.0	µg/L	2	9/14/2005
Dibromochloromethane	ND	2.0	μg/L	2	9/14/2005
Dibromomethane	ND	4.0	µg/L	2	9/14/2005
1,2-Dichlorobenzene	ND	2.0	µg/L	2	9/14/2005
1,3-Dichlorobenzena	ND	2.0	µg/L	2	9/14/2005
1,4-Dichlorobenzene	ND	2.0	µg/L	2	9/14/2005
Dichlorodifluoromethane	ND	2.0	µg/L	2	9/14/2005
1,1-Dichloroethane	ND	2.0	µg/L	2	9/14/2005
1,1-Dichloroethene	ND	2.0	µg/L	2	9/14/2005
1,2-Dichloropropane	ND	2.0	µg/L	2	9/14/2005
1,3-Dichloropropane	ND	2.0	μg/L	2	9/14/2005
2,2-Dichloropropane	ND	2.0	µg/L	2	9/14/2005
1,1-Dichloropropene	ND	2.0	µg/L	2	9/14/2005
Hexachlorobutadiene	ND	2.0	µg/L	2	9/14/2005
2-Hexanone	ND	20	µg/L	2	9/14/2005
Isopropylbenzene	14	2.0	μg/L	2	9/14/2005
4-Isopropyltoluene	13	2.0	µg/L	2	9/14/2005
4-Methyl-2-pentanone	ND	20	µg/L	2	9/14/2005
Methylene Chloride	ND	6.0	µg/L	2	9/14/2005
n-Butylbenzene	14	2.0	µg/L	2	9/14/2005
n-Propylbenzene	4.5	2.0	µg/L	2	9/14/2005
sec-Butylbenzene	8.9	2.0	μg/L	2	9/14/2005
Styrene	ND	2.0	µg/L	2	9/14/2005
tert-Butylbenzene	ND	2.0	µg/L	2	9/14/2005
1,1,1,2-Tetrachloroethane	ND	2.0	μg/L	2	9/14/2005
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	2	9/14/2005
Tetrachloroethene (PCE)	ND	2.0	µg/L	2	9/14/2005
trans-1,2-DCE	ND	2.0	μg/L	2	9/14/2005
trans-1,3-Dichloropropene	ND	2.0	µg/L	2	9/14/2005
1,2,3-Trichlorobenzene	ND	2.0	µg/L	2	9/14/2005
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2	9/14/2005
1,1,1-Trichloroethane	ND	2.0	µg/Ĺ	2	9/14/2005
1,1,2-Trichloroethane	ND	2.0	µg/L	2	9/14/2005
Trichloroethene (TCE)	ND	2.0	µg/L	2	9/14/2005
Trichlorofluoromethane	ND	2.0	µg/L	2	9/14/2005
1,2,3-Trichloropropane	ND	4.0	µg/L	2	9/14/2005
Vinyl chloride	ND	2.0	µg/L	2	9/14/2005
Xylenes, Total	850	20	µg/L	20	9/13/2005
Surr: 1,2-Dichloroethane-d4	93.4	87.7-108	%REC	2	9/14/2005
Surr: 4-Bromofluorobenzene	104	88.4-125	%REC	2	9/14/2005

#### Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 2

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

name Level 2/21

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CLIENT: Giant Refining Co Lab Order: 0509109 **Project:** Stormwater Separator Effluent Water Lab ID: 0509109-01

Client Sample ID: SW Sep Effluent Collection Date: 9/9/2005 11:30:00 AM

Matrix: AQUEOUS

Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
Surr: Dibrom	ofluoromethane	100	83.1-111		%REC	2	9/14/2005
Surr: Toluene	e-d8	97.1	85.9-109		%REC	2	9/14/2005
EPA METHOD	8270C: SEMIVOLATILES						Analyst: BL
Acenaphthene		ND	10		µg/L	1	9/15/2005
Acenaphthylene	3	ND	10		μg/L	1	9/15/2005
Aniline		ND	10		µg/L	1	9/15/2005
Anthracene		ND	10		µg/L	1	9/15/2005
Azobenzene		ND	10		µg/L	1	9/15/2005
Benz(a)anthrac	ene	ND	15		µg/L	1	9/15/2005
Benzo(a)pyrene	3	ND	10		µg/L	1	9/15/2005
Benzo(b)fluorar		ND	10		µg/L	1	9/15/2005
Benzo(g,h,i)per		ND	10		µg/L	1	9/15/2005
Benzo(k)fluorar	lhene	ND	10		µg/L	1	9/15/2005
Benzoic acid		ND	50		µg/L	1	9/15/2005
Benzyl alcohol		ND	20		µg/L	1	9/15/2005
Bis(2-chloroeth	oxy)methane	ND	10		µg/L	1	9/15/2005
Bis(2-chloroeth		ND	15		µg/L	1	9/15/2005
Bis(2-chloroiso	propyl)ether	ND	15		µg/L	1	9/15/2005
Bis(2-ethylhexy	I)phthalate	ND	15		µg/L	1	9/15/2005
4-Bromophenyl	phenyl ether	ND	10		µg/L	1	9/15/2005
Butyl benzyl ph	thalate	ND	15		µg/L	1	9/15/2005
Carbazole		ND	10		µg/L	1	9/15/2005
4-Chloro-3-met	hylphenol	ND	20		µg/L	1	9/15/2005
4-Chloroaniline		ND	20		μg/L	1	9/15/2005
2-Chloronaphth	nalene	ND	10		µg/L	1	9/15/2005
2-Chloropheno	4	ND	10		µg/L	1	9/15/2005
4-Chloropheny	I phenyl ether	ND	15		µg/L	1	9/15/2005
Chrysene		ND	15		µg/L	1	9/15/2005
Di-n-butyl phth	alate	ND	10		µg/L	1	9/15/2005
Di-n-octyl phth		ND	15		µg/L	1	9/15/2005
Dibenz(a,h)ant		ND	10		µg/L	1	9/15/2005
Dibenzofuran		ND	10	ŀ	µg/L	1	9/15/2005
1,2-Dichlorobe	nzene	ND	10	1	µg/L	1	9/15/2005
1,3-Dichlorobe		ND	10	ŀ	µg/L	1	9/15/2005
1,4-Dichlorobe		ND	10		µg/L	1	9/15/2005
3,3 <sup>-</sup> -Dichlorobi		ND	15	i	µg/L	1	9/15/2005
Diethyl phthala		ND	10	ł	µg/L	1	9/15/2005
Dimethyl phtha		ND	10	)	µg/L	1	9/15/2005
2,4-Dichloroph		ND	10	)	µg/L	1	9/15/2005
2,4-Dimethylpl		ND	10	)	µg/L	1	9/15/2005
4,6-Dinitro-2-π		ND	<sup>-</sup> 50	)	µg/L	1	9/15/2005
2,4-Dinitrophe	• •	ND	50		μg/L	1	9/15/2005
Qualifiers:	ND - Not Detected at the Rep	orting Limit			S - Spike Recov	very outside acc	epted recovery limits
	J - Analyte detected below qu	antitation limit	5		R - RPD outsid	e accepted reco	very limits
	B - Analyte detected in the as	sociated Metho	d Blank		E - Value above	e quantilation ra	nge
	-						Page 2 of 5

\* - Value exceeds Maximum Contaminant Level 3/21 Page 3 of 5

CLIENT:	Giant Refining Co
Lab Order:	0509109
Project:	Stormwater Separator Effluent Water
Lab ID:	0509109-01

. . . . . . . . . .

Client Sample ID: SW Sep Effluent Collection Date: 9/9/2005 11:30:00 AM

Matrix: AQUEOUS

nalyses	Result	PQL Qu	al Units	DF	Date Analyzed
2,4-Dinitrotoluene	ND	10	μg/L	1	9/15/2005
2,6-Dinitrotaluene	ND	10	µg/L	1	9/15/2005
Fluoranlhene	ND	10	µg/L	1	9/15/2005
Fluorene	ND	10	µg/L	1	9/15/2005
Hexachlorobenzene	ND	10	μg/L	1	9/15/2005
Hexachlorobutadiene	ND	10	µg/L	1	9/15/2005
Hexachlorocyclopentadiene	ND	10	µg/L	1	9/15/2005
Hexachloroethane	ND	10	µg/L	1	9/15/2005
Indeno(1,2,3-cd)pyrene	ND	10	hð\r	1	9/15/2005
Isophorone	ND	10	μg/L	1	9/15/2005
2-Methylnaphthalene	ND	10	µg/L	1	9/15/2005
2-Methylphenol	ND	15	µg/L	1	9/15/2005
3+4-Methylphenol	ND	10	µg/L	1	9/15/2005
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	9/15/2005
N-Nitrosodimethylamine	ND	10	µg/L	1	9/15/2005
N-Nitrosodiphenylamine	ND	10	μg/L	1	9/15/2005
Naphthalene	ND	10	µg/L	1	9/15/2005
2-Nitroaniline	ND	50	μg/L	1	9/15/2005
3-Nitroaniline	ND	50	μg/L	1	9/15/2005
4-Nitroaniline	ND	20	µg/L	1	9/15/2005
Nitrobenzene	ND	10	μg/L	1	9/15/2005
2-Nitrophenol	ND	15	μg/L	1	9/15/2005
4-Nitrophenol	ND	50	µg/L	1	9/15/2005
Pentachlorophenol	ND	50	µg/L	1	9/15/2005
Phenanthrene	ND	10	µg/L	1	9/15/2005
Phenol	ND	10	µg/L	1	9/15/2005
Pyrene	ND	15	µg/L	1	9/15/2005
Pyridine	ND	30	µg/L	1	9/15/2005
1,2,4-Trichlorobenzene	ND	10	µg/L	1	9/15/2005
2,4,5-Trichlorophenol	ND	10	µg/L	1	9/15/2005
2,4,6-Trichlorophenol	ND	15	µg/L	1	9/15/2005
Surr. 2,4,6-Tribromophenol	79.6	16.6-150	%REC	1	9/15/2005
Surr: 2-Fluorobiphenyl	67.4	19.6-134	%REC	1	9/15/2005
Surr: 2-Fluorophenol	44.4	9.54-113	%REC	1	9/15/2005
Surr: 4-Terphenyl-d14	57.4	22.7-145	%REC	1	9/15/2005
Surr: Nilrobenzene-d5	63.4	14.6-134	%REC	1	9/15/2005
Surr: Phenol-d6	29.1	10.7-80.3	%REC	1	9/15/2005
EPA 120.1: SPECIFIC CONDUCTANCE					Analyst: MAP
Specific Conductance	5700	0.010	µmhos/cm	1	9/20/2005
EPA METHOD 7470: MERCURY					Analyst: CMC
Mercury	ND	0.00020	mg/L	1	9/13/2005
Qualifiers: ND - Not Detected at the Rep	orting Limit		S - Spike Recover	y outside acc	epted recovery limits
J - Analyte detected below qu	-	S	R - RPD outside a	-	
B - Analyte detected in the as			E - Value above q		-

\* - Value exceeds Maximum Contaminant Level 4 / 21

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Hall Envir	onmental Analys	is Labora	tory		Date: 30-Se	p-05
CLIENT:	Giant Refining Co			Client Sar	nple ID: SW Sep	e Effluent
Lab Order:	0509109			Collec	tion Date: 9/9/20	05 11:30:00 AM
Project:	Stormwater Separator	Effluent Wate	r			
Lab ID:	0509109-01				Matrix: AQUI	EOUS
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA 6010: TO	TAL RECOVERABLE ME	TALS				Analyst: NMO
Arsenic		ND	0.020	mg/L	1	9/29/2005 11:05:29 AM
Barium		0.063	0.020	mg/L	1	9/29/2005 11:05:29 AM
Cadmium		ND	0.0020	mg/L	1	9/29/2005 11:05:29 AM
Calcium		58	1.0	mg/L	1	9/29/2005 11:05:29 AM
Chromium		0.0072	0.0060	mg/L	1	9/29/2005 11:05:29 AM
Lead		ND	0.0050	mg/L	1	9/29/2005 11:05:29 AM
Magnesium		14	1.0	mg/L	1	9/29/2005 11:05:29 AM
Potassium		6.2	1.0	mg/L	1	9/29/2005 11:05:29 AM
Selenium		ND	0.050	mg/L	1	9/29/2005 11:05:29 AM
Silver		ND	0.0050	mg/L	1	9/29/2005 11:05:29 AM
Sodium		1200	100	mg/L	100	9/29/2005 12:23:00 PM
EPA METHOD	150.1: PH					Analyst: MAP
pН		7.09	0.010	pH unil	is 1	9/23/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

+ - Value exceeds Maximum Contaminant Level 5/21

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits

E - Value above quantitation range

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### Hall Environmental Analysis Laboratory

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	Giant Refining Co							QC SUMMARY REPORT	AMAR	Y REP(	DRT
work Urger: U2U91U9 Project: Stormwa	Stormwater Separator Effluent Water	Vater								Method Blank	3lank
Sample ID MBLK	Batch ID: R16631	Test Code: E300	E300 1 C 0500120	Units: mg/L		Analysis SeoNo	Analysis Date 9/12/2005 Sector 399210	ŋ	Prep Date	ale	
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride Chloride Phosphorus, Orthophosphate (As P) Sulfate Nitrate (As N)+Nitrite (As N)	CN CN CN CN CN CN CN CN CN CN CN CN CN C	0.1 0.1 0.5 0.5 0.1									
Sample ID MBLK Client ID:	Batch ID: R16660	Test Code: E300 Run ID: LC_0	E300 LC_050914A	Units: mg/L		Analysis SeqNo:	Analysis Date 9/14/2005 SeqNo: 400301	5	Prep Date	ate	
Analyte		Par	SPK value	SPK Ref Val	%REC	LawLimit	HighLimit RPD Ref Val	D Ref Val	лар	RPDLimit	Qual
Fluoride Chloride Phosphorus, Orthophosphate (As P) Sulfate Nitrate (As N)+Nitrite (As N)	As P) DN DN DN DN DN DN DN DN DN DN DN	0.1 0.1 0.5 0.5 0.5		· · ·			:				
Sample ID MBLK	Batch (D: <b>R16660</b>	Test Code: E300	E300	Unlts: mg/L		Analysis	Date	ſ	Prep Dale	ale	
Cilent IU: Analyte	Result	Run IV.	LC_USU914A SPK value	SPK Ref Val	%REC	seq.no: LowLimit	400340 HighLimit RPD Ref Val	D Ref Val	СчЯ%	RPDLimit	Qual
Fluoride Phosphorus, Orthophosphate (As P) Sulfate Nitrate (As N)+Nitrite (As N)	CN CN CN CN CN CN CN CN	0.1 0.5 0.5									
Qualifiers: ND - Not De	ND - Not Detected at the Reporting Limit J - Analyte detected below auantitation limits	ais	S - Spi R - RP	S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits	accepted reco	very limits	<b>B</b> - A	<ul> <li>B - Analyte detected in the associated Method Blank</li> </ul>	in the associ	iated Method E	3lank ,

rry limits

CLTENT: Work Order: Project:	Giant Refining Co 0509109 Stormwater Separator Effluent Water	ent Water		1			QC SUI	QC SUMMARY REPORT Method Blank	P <b>ORT</b> I Blanl
Sample ID MBLK Client ID:	Batch ID: R16676		ш ж			Anatysis SeqNo:	Date 9/15/	n	ļ
Analyte Fluoride Chloride Phosphorus, Orthophosphate (As P) Sulfate Nitrate (As N)+NItrite (As N)	a a	Sult POL ND 0.1 ND 0.5 ND 0.5 ND 0.5 ND 0.5	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Sample ID MB-8767 Client ID:	7 Batch ID: 8767	Test Co Run ID:	Test Code: SW8015 Units: Run ID: FID(17A) 2_050920A	Units: mg/L 350920A		Analysis SeqNo:		Prep Date 9/16/2005	5003
Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	R		t SPK value	SPK Ref Val	%REC 132	LowLimit 58	HighLimit RPD Ref Val	%RPD RPDLimit	R Qual
Sample ID RB-II 5ml Client ID:	Batch ID: R16	RL	ist Code: SW8015 U un ID: PJDFID_0509168	Units: mg/L 316B Sov parva		Analysis SeqNo:	Analysis Date 9/16/2005 11:46:06 PM SeqNo: 401082	Prep Date	Č
Analyte Gasoline Range Organics (GRO) Surr: BFB	yanics (GRO) 20.06 20.06	: : :		1	100	79.7	118 0		
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**C**ł

B · Analyte detected in the associated Method Blank

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S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

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Sommware Separator Effluent Water           6vd         Batch ID: 6746         Tast Code: SW270C         Units: gplL         Analysis Date eff15005         Peep 0a           6vd         Batch ID: 6746         Tast Code: SW270C         Units: gplL         Analysis Date eff15005         Peep 0a           6vd         Batch ID: 6746         Tast Code: SW270C         Units: gplL         Analysis Date eff15005         Peep 0a           8vd         10         10         Sevelo:         Sevelo:         4001/Imit         Peep 0a           8vd         10         10         N         N         Sevelo:         400760         MAPD           8vd         10         10         N         N         Sevelo:         400760         MAPD           8vd         10         10         N         N         Sevelo:         4000/Imit         MAPD           8vd         10         10         N         N         Sevelo:         4000/Imit         MAPD           8vd         10         10         10         N         MAPD         MAPD         MAPD           8vd         10         10         10         N         MAPD         MAPD         MAPD         MAPD           8v	Operation         Sommwerts Separator Effluent Water         Method Bit           mplo         Marker Separator Effluent Water         Amilysis Date 9112/005         Pep Date 9112/005           mplo         Marker Separator Effluent Water         Run (D: ELMO_055915A         Service         400760           mplo         Marker Separator Effluent Water         Run (D: ELMO_055915A         Service         400760           der         Pol         POL         Service         Service         400760           der         POL         Service         Service         400760         Service           der         POL         Service         Service         400760         Service         400760           der         POL         Service         Service         400760         Service         400760           der         POL         Service         Service         400760         Service         400760           der         POL         10         10         10         10         Service         400760         Service         20010         20101         20101         20101         20101         20101         20101         20101         20101         20101         20101         20101         20101         20101	Work Order: 0509109	109						
mpel ID         Mex 8746         Test ICode:         SW8270C         Units:         pgl.         Analysis         Date         Mary           ent ID:         Ent ID:         Run ID:         ELMO_050915A         Seq No:         4007           ayte         Run ID:         ELMO_050915A         Seq No:         4007           ayte         Run ID:         ELMO_050915A         Seq No:         4007           ensphthene         ND         10         POL         SPK Ref Val         %REC         LowLimit         4001           ensphthylene         ND         10         10         Mod         10         Mrecen         4007           abstrate         ND         10         10         Mod         10         Mrecen         4001           abstrate         ND         10         10         Mrecen         10         Mrecen         4001           abstrate         ND         10         10         Mrecen         10         Mrecen         4001           abstrate         ND         10         10         Mrecen         4001         4001           abstrate         ND         10         10         Mrecen         4001         4001         4001	mple         Mark 346         Batch 10: 3746         Tast Code:         WM23700         Units         Eurol 10: 3746         Tast Code:         WM23700         Tast Code:         Mark 37005         Perp Date         S173005         Perp Date         S17305         Perp Date <th< th=""><th></th><th>nwater Separator Effluent W</th><th>ater</th><th></th><th></th><th></th><th></th><th>Method Blank</th></th<>		nwater Separator Effluent W	ater					Method Blank
ent         ILI         Run D.         El MO_050915A         SerVici         Moli           ayte         Raeut         PQL         SFK value         SPK fret Val         Moli         Hight limit           enephhene         ND         10         SFK value         SPK fret Val         Moli         Hight limit           enephhene         ND         10         10         Moli         Moli         Hight limit           enephhene         ND         10         10         Moli         Moli         Hight limit           filte         ND         10         10         Moli         Moli         Hight limit           filte         ND         10         10         Moli         Hight limit         Hight limit           filte         ND         10         10         10         Moli         Hight limit           ratiol system         ND         10         10         Moli         Hight limit         Hight limit           ratiol system         ND         10         10         10         Moli         10         10         10         10         10         10         10         10         10         10         10         10         10         10	etcl         RunDis         Euro-056154         Service         A0076         FRD         A0076           More         Fead         POL         SFX Metrica         Service         A0076         SFX Metrica         Service         A0076         SFX Metrica         SFX D         PCD Link         PCD Frait         SFX D         SFX D         SFX D         SFX D         SFX D <t< th=""><th></th><th>Batch ID: 8746</th><th></th><th></th><th>Units: µg/L</th><th>Analysi</th><th>is Date 9/15/2005</th><th>Prep Date 9/13/2005</th></t<>		Batch ID: 8746			Units: µg/L	Analysi	is Date 9/15/2005	Prep Date 9/13/2005
ayto         Fasut         POL         SPK value         SPK def val         Math         HghLint           empohlhene         ND         10 <th>aye         Readt         QL         SPK keif val         WEC         LowLinni         RPD Linni         RPD Linni</th> <th>Client ID:</th> <th></th> <th>Run ID:</th> <th>ELMO_050915/</th> <th></th> <th>SeqNo</th> <th></th> <th></th>	aye         Readt         QL         SPK keif val         WEC         LowLinni         RPD Linni	Client ID:		Run ID:	ELMO_050915/		SeqNo		
Index         ND         10           encynthylene         ND         10           encynthylene         ND         10           filtraene         ND         10           filtraene         ND         10           bennzame         ND         10           benzame         ND         10           czólyluzanthene         ND         10           czólodophene         ND         10           czólodophenel         ND         10           czólosopophyleter         ND         10           berophenyl phenyleter         ND         10           berophenyl phenyleter         ND         10	Off         10         10           ensphhene         ND         10           ensphhene         ND         10           ensphhene         ND         10           berazene         ND         10           calophunacene         ND         10           calophunarthene         ND         10           calophunarthane         ND         10     <	Analyte	Result	Pal				HighLlmit	
enaphthylene         ND         10           timene         ND         10           raciolyneme         ND         15           c-entonenynjetter         ND         15           c-entonenynjetter         ND         10           for 3-entonenynjetter         ND         10           for 3-entonenynjetter         ND         10           for 3-entonenynjetter         ND         10           for 3-entonenynjetter         ND         10	enaphthylene         ND         10           line         ND         10           titrace         10         10           titra	Acenaphthene	ND	<b>1</b>					
Ime         ND         10           biracene         ND         10           biracene         ND         10           biracene         ND         10           biracene         ND         10           calanzere         ND         10           calanzere         ND         10           calanzere         ND         10           calanzere         ND         10           calanzerithere         ND         10           calonullucanthere         ND         10           calonullucanthere         ND         10           calonositylythere         ND         10           calonositylythere         ND         10           calonositylythere         ND         10           calonosotylythere         ND         10           calonosotylythere         ND         10           canopherylythere         ND         10           biorostropylthere         ND <td>Ille         ND         10           thracene         ND         10           thracene         ND         10           thracene         ND         10           tradiphracene         ND         10           tradiphracene         ND         10           tradiphracene         ND         10           tradiphraenthene         ND         15           Carbinotispenyi phenyi ether         ND         16           Carbinotispenyi phenyi ether         ND         10           thoronaltendi         ND         10           thoronaltendi         ND         10           thoronaltendi         ND         10           thoronaltendi         ND         10           thoronalte</td> <td>Acenaphthylene</td> <td>QN</td> <td>õ</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ille         ND         10           thracene         ND         10           thracene         ND         10           thracene         ND         10           tradiphracene         ND         10           tradiphracene         ND         10           tradiphracene         ND         10           tradiphraenthene         ND         15           Carbinotispenyi phenyi ether         ND         16           Carbinotispenyi phenyi ether         ND         10           thoronaltendi         ND         10           thoronaltendi         ND         10           thoronaltendi         ND         10           thoronaltendi         ND         10           thoronalte	Acenaphthylene	QN	õ					
Itracente         ND         10           Denrezente         ND         10           Zejanithracente         ND         10           Zejonithracente         ND         10           Zejonathylene         ND         10           Zeitorastynethane         ND         10           Zeitorastynethane         ND         16	Itracere         ND         10           Obenzane         ND         10           Obenzane         ND         16           Caligharthracene         ND         10           cacigharthracene         ND         10           cacidharthracene         ND         10           cachacosthysther         ND         10           c2-chlorosphory/phther         ND         15           c2-chlorosphory/phther         ND         15           c2-chlorosphory/phthalate         ND         10           c2-chlorosphory/phthalate         ND         10           c2-chlorosphory/phthalate         ND         15           c2-chlorosphory/phthalate         ND         10           c2-chlorosphory/phthalate         ND         10           caroote         ND         15           c2-chlorosphory/phthalate         ND<	Anlline	QN	10					
Obserzene         ND         10           oberzene         ND         15           za(a)pratinacióne         ND         10           za(a)funcranthene         ND         20           Za (a)funcranthene         ND         15           Ca (a)funcranthalate         ND         16           Ca (a)funcranthalate         ND         20           Ca (a)funcranthalate         ND <td>Observation         ND         10           Z(a)partimacenee         ND         15           Z(a)partimacenee         ND         10           Za(a)pytene         ND         10           Za(a)costhy/methane         ND         16           Za-chorosthy/pitter         ND         16</td> <td>Anthracene</td> <td>UN</td> <td>₽</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Observation         ND         10           Z(a)partimacenee         ND         15           Z(a)partimacenee         ND         10           Za(a)pytene         ND         10           Za(a)costhy/methane         ND         16           Za-chorosthy/pitter         ND         16	Anthracene	UN	₽					
rz(a)arthracene         ND         15           rz(a)pyrane         ND         10           rz(a)jyrane         ND         20           rz(a)jarjentene         ND         20           rz(a)droanthene         ND         20           rz(a)droanthene         ND         15           (2-chlorosipyrijeter         ND         15           (2-chlorosipyrijeter         ND         15           (2-chlorosipyrijeter         ND         15           (2-chlorosipyrijeter         ND         16           (2-chlorosipyrijeter         ND         16           (2-chlorosipropyrijeter         ND	nz(c)anthracene         ND         15           nz(c)ayrane         ND         10           nz(c)byrane         ND         10           nz(c)byrane         ND         10           nz(c)byrane         ND         10           nz(c)buranthene         ND         10           nz(c)buranthene         ND         10           nz(c)buranthene         ND         20           nz(c)buranthene         ND         20           nz(c)buranthene         ND         20           nz(c)buranthene         ND         10           nz(c)cationsynethene         ND         16           (2-chlorosibytimate         ND         16           (2-chlorosioproy(entere         ND <tr< td=""><td>Azobenzene</td><td>DN</td><td>₽</td><td></td><td></td><td></td><td></td><td></td></tr<>	Azobenzene	DN	₽					
nzo(a)byrene         ND         10           nzo(b)fluoranthene         ND         10           nzo(b)fluoranthene         ND         10           nzo(b)fluoranthene         ND         10           nzo(b)fluoranthene         ND         50           nzo(k)fluoranthene         ND         50           nzo(k)fluoranthene         ND         20           nzo(k)fluoranthene         ND         20           nzo(k)fluoranthene         ND         20           nzo(k)fluoranthene         ND         10           (2-chloroshyf)ether         ND         16           (2-chloroshyf)pither         ND         16           Somophery pit	match (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	Benz(a)anthracene	DN	15					
matrix         ND         10           rac(p,N)perylene         ND         10           rac(p,N)perylene         ND         10           rac(s)(M)ucranthene         ND         10           rac(s)(M)ucranthene         ND         10           rac(s)(M)ucranthene         ND         20           rac(s)(M)ucranthene         ND         20           rac(s)(M)ucranthene         ND         10           rac(s)(M)ucranthene         ND         16           (2-chlorosh)(m)(m)         16         16           (2-chlorosh)(m)(m)         16         16           (2-chlorosh)(m)(m)         ND         16           (2-chlorosh)(m)(m)         16         16           (2-chlorosh)(m)(m)         16         16           (2-chlorosh)(m)(m)         16         16           (2-chlorosh)(m)(m)(m)(m)         16         16           (2-chlorosh)(m)(m)(m)(m)(m)(m)(m)(m)(m)(m)(m)(m)(m)	rzd(b)fluorant/hene         ND         10           rzd(p,fluorant/hene         ND         10           rzd(p,fluorant/hene         ND         10           rzd(p,fluorant/hene         ND         20           rzd(p,fluorant/hene         ND         20           rzd(p,fluorant/hene         ND         20           rzy alcohoł         ND         20           rzy alcohoł         ND         16           (2-chloraethyty)ether         ND         15           (2-chloraethyty)ether         ND         15           (2-chloraethyty)ether         ND         15           (2-chloraethythatale         ND         16           (2-chloraethythatale         ND         16           (2-chloraethythatale         ND         15           (2-chloraethythatale         ND         20           (2-chloraethythatale         ND         20           (2-chloraethythatale         ND         16           (2-chloraethythatale         ND         20           (2-chloraethythatale         ND         20           (2-chloraethythatale         ND         20           (2-chloraethythatale         ND         20           (2-chlo	Benzo(a)pyrene	DN	<del>1</del>					
Tag (g, h.) perylene         ND         10           rack (g, h.) perylene         ND         50           rav al ecolod         ND         20           rav al ecolod         ND         20           rav al ecolod         ND         20           (2-chloroeshoyy) rethrane         ND         16           (2-chloroshoyy) rethrane         ND         15           (2-chloroshoyy) petrer         ND         15           (2-chloroshoyy) petrer         ND         16           (2-chloroshoyy) petrer         ND         15           (2-chloroshoyy) petrer         ND         16           (2-chloroshoyy) petrer         ND         16           (2-chloroshoyy) petrer         ND         16           (2-chloroshoyy) petrer         ND         16           (2-chloroshoyy) pheryl ether         ND         10           Dhorosholenol         ND         20           Dhorosholenol         ND         10           Dhorosholenol         ND         10           Dhorosholenol         ND         15           Dhorosholenol         ND         15           Dhorosholenol         ND         15           Dhoroch phralete<	Tack(g,h,l)perylene         ND         10           rac(g,h,l)perylene         ND         50           rac(s)fluceranthene         ND         20           rac(s) acid         ND         20           rac(s) acid         ND         20           rac(s) acid         ND         20           rac(s) acid         ND         16           c-chloroethyryl)ether         ND         15           (2-chlorostropyl)ether         ND         15           Vaconopheryl pither         ND         15           Somopheryl pither         ND         16           Somopheryl pither         ND         10           Somopherel         ND         10           Somopherel         ND         16           Allorospherel         ND         16           Somopherel         ND         16           Allorospherel         ND         16           Allorospherel         ND         16	Benzo(b)fluoranthene	DN	5					
mcc(x)fluoranthene         ND         10           mcc(x)fluoranthene         ND         50           mcv alcohol         ND         20           mcv alcohol         ND         20           (2-chlorenthry)enthane         ND         16           (2-chlorenthry)pither         ND         15           (2-chlorenthry)pither         ND         15           (2-chlorenthry)pither         ND         15           (2-chlorenthry)pither         ND         16           (2-chlorenthry)pither         ND         15           (2-chlorenthry)pitherate         ND         10           (X) benzyl pithery ether         ND         10           (X) benzyl pitheryl ether         ND         10           (X) consentine         ND         15           (X) consentine         ND         16           (X) consentine         ND         16           (X) consentine         ND         16           (X) consentine         ND </td <td>mcc(x)fluoranthene         ND         10           mcv(a acid         ND         50           mcv(a acid         ND         20           mcv(a acid         ND         20           22-chloroethry/methane         ND         16           (2-chloroethry/methane         ND         15           (2-chloroethry/methane         ND         15           (2-chloroethry/methane         ND         15           (2-chloroethry/methane         ND         15           (2-ethylhead         ND         16           (2-ethylhead         ND         16           (2-ethylhead         ND         16           (2-ethylhead         ND         16           (2-ethylhead         ND         10           (2-ethylhead         ND         20           (2-othoroethead         ND         10           (2-othoroeth</td> <td>Benzo(g,h,i)perylene</td> <td>QN</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td>	mcc(x)fluoranthene         ND         10           mcv(a acid         ND         50           mcv(a acid         ND         20           mcv(a acid         ND         20           22-chloroethry/methane         ND         16           (2-chloroethry/methane         ND         15           (2-chloroethry/methane         ND         15           (2-chloroethry/methane         ND         15           (2-chloroethry/methane         ND         15           (2-ethylhead         ND         16           (2-ethylhead         ND         16           (2-ethylhead         ND         16           (2-ethylhead         ND         16           (2-ethylhead         ND         10           (2-ethylhead         ND         20           (2-othoroethead         ND         10           (2-othoroeth	Benzo(g,h,i)perylene	QN	10					
matrix         ND         50           may alconot         ND         20           may alconot         ND         20           (2-chloroethorxy)methane         ND         16           (2-chloroethorxy)methane         ND         15           (2-chlorostoropyl)ether         ND         15           (2-chlorostoropyl)ether         ND         15           (2-chlorostoropyl)ether         ND         16           (2-chlorostoropyl)ether         ND         16           (2-chlorostoropyl)ether         ND         16           (2-chlorostoropyl)ether         ND         16           (2-chlorostoropyl)ether         ND         10           (2-chlorostoropyl)ether         ND         10           (2-chlorostoropyl)ether         ND         20           (2-chlorostoropyl)ether         ND         20           (2-chlorostoropyl)ether         ND         20           (2-chlorostoropyl)ether         ND         20           (2-chlorostoropylenyl)ethen         ND         20           (2-chlorostoropylenyl)ethen         ND         20           (2-chlorostoropylenyl)ethen         ND         20           (2-chlorostoropylethylohenel         ND </td <td>nzolc acid         ND         50           nzy alcohol         ND         20           nzy alcohol         ND         20           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         15           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         10           (10         16         10           Choroether         ND         16           Choroether</td> <td>Benzo(k)fluoranthene</td> <td>QN</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td>	nzolc acid         ND         50           nzy alcohol         ND         20           nzy alcohol         ND         20           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         15           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         16           (2-chloroethy)ether         ND         10           (10         16         10           Choroether         ND         16           Choroether	Benzo(k)fluoranthene	QN	10					
nzyl alcohol         ND         20           nzyl alcohol         10         10           (2-chloroshyl)ether         ND         15           (2-chlorospropyl)ether         ND         15           (2-chlorospropyl)ether         ND         15           (2-chlorospropyl)ether         ND         15           (2-chlorospropyl)ether         ND         16           bylorospreal         ND         10           blorosphenol         ND         10           blorosphenol         ND         16           c-ocyl phrhalate         ND         16           blorosphenol         ND         16           cocyl phrhalate         ND         16           blorosphenol         ND         16           cocyl phrhalate         ND         16           blorosphenol         16         10           cocyl phrhalate         ND         16	rzy alcohol         ND         20           rzy alcohol         ND         10           (2-chlorosthydyther         ND         15           (2-chlorosphydyther         ND         15           (2-chlorosphory/)ether         ND         15           (2-chlorosphory/)ether         ND         15           (2-chlorosphory/)ether         ND         16           (2-chlorosphory/)ether         ND         20           (2-chlorosphory/)ether         ND         20           (2-chlorosphorosphorosphile         ND         20           (2-chlorosphorosphile         ND         20           (2-chlorosphorosphile         ND         20           (2-chlorosphorosphile         ND         10           (2-chlorosphorosphile         ND         15           (2-chlorosphorosphile         ND         16           (2-chlorosphorosphile         ND         16           (2-chlorosphorosphorosphile         ND         16	Benzoic acid	DN	50					
(2-chloroethorxy)methane     ND     10       (2-chloroeispropy) ether     ND     15       (2-chloroisopropy) ether     ND     15       (2-chloroisopropy) ether     ND     15       (2-chloroisopropy) ether     ND     16       (2-chloroisopropy) ether     ND     16       (2-chloroisopropy) ether     ND     16       (2-chloroisopropy) ether     ND     16       Monophenyl phenyl ether     ND     10       Shloronaphthalene     ND     20       Chloronaphthalene     ND     20       Chlorophonenyl phenyl ether     ND     10       Chlorophonenyl phenyl ether     ND     15       Shlorophonenyl phenyl ether     ND     16       Cocyl phthalate     ND     16       Incorphensite     ND     16       Incorphilate     ND     16       Incorphilate     ND     16       Incorphilate     ND <td>(2-chloroethorxy)methane     ND     10       (2-chloroethorxy)methane     ND     15       (2-chloroisopropy)ether     ND     15       (2-chloroisopropy)ether     ND     15       (2-chloroisopropy)ether     ND     16       Morophenyl phenyl ether     ND     20       Chloroaphthalene     ND     20       Chloroaphthalene     ND     20       Chloroaphthalene     ND     10       Chloroaphthalene     ND     16       Chloroaphthalene     ND</td> <td>Benzyi alcohoi</td> <td>DN</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td>	(2-chloroethorxy)methane     ND     10       (2-chloroethorxy)methane     ND     15       (2-chloroisopropy)ether     ND     15       (2-chloroisopropy)ether     ND     15       (2-chloroisopropy)ether     ND     16       Morophenyl phenyl ether     ND     20       Chloroaphthalene     ND     20       Chloroaphthalene     ND     20       Chloroaphthalene     ND     10       Chloroaphthalene     ND     16       Chloroaphthalene     ND	Benzyi alcohoi	DN	20					
(2-chloroethyl)ether     ND     15       (2-chloroisopropyl)ether     ND     15       (2-chloroisopropyl)ether     ND     15       (2-ethylhexyl)phthalate     ND     10       (2-ethylhexyl)phthalate     ND     15       Somophenyl phtery     ND     15       Vyl benzyl phthalate     ND     16       Noro-3-methylphenol     ND     20       Chloro-3-methylphenol     ND     20       Chloro-3-methylphenol     ND     20       Chloro-3-methylphenol     ND     20       Chloro-3-methylphenol     ND     20       Chloro-shthalate     ND     20       Chlorophenol     ND     10       Chlorophenol     ND     15       Shouthalate     ND     10       Coctyl phthalate     ND     10       In-buly phthalate     ND     10       Indexted at the Reporting Limit     S-Splik Recovery outside accepted recovery limits	(2-chloroethyl)ether     ND     15       (2-chloroisopropyl)ether     ND     15       (2-chloroisopropyl)ether     ND     15       (2-chloroisopropyl)ether     ND     16       (2-chloroisopropyl)ether     ND     16       (2-chloroisopropyl)ether     ND     16       Nonophenyl phenyl ether     ND     16       Moroantiine     ND     20       Chloroaphthalene     ND     20       Chloroaphthalene     ND     20       Chloroaphthalene     ND     10       Chloroaphthalene     ND     10       Chloroaphthalene     ND     10       Chloroaphthalene     ND     16       Chloroaphthalene     ND     16 </td <td>Bis(2-chloroethoxy)methan</td> <td></td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Bis(2-chloroethoxy)methan		10					
ND         15           (2-chloroisopropyl)ether         ND         15           Momophenyl phenyl ether         ND         16           No mophenyl phenyl ether         ND         20           Chloro-3-methylphenol         ND         20           Chloro-3-methylphenol         ND         20           Chloro-1-methylphenol         ND         20           Chloro-1-methylphenol         ND         20           Chlorophenyl phenyl ether         ND         10           Chlorophenol         10         10 </td <td>(2-chloroisopropy/)ether       ND       15         (2-ethy/hexy/)phthalate       ND       16         Xomophenyl phenyl ether       ND       16         yl benzyl phthalate       ND       16         byl benzyl phthalate       ND       16         byl benzyl phthalate       ND       16         bhloro-3-methylphenol       ND       20         bhlorophenol       ND       10         cytyl phthalate       ND       10         enz(a.h)anthracene       ND       10         naufilfers:       ND - Not Detected at the Reporting Limit       S - Spike Recovery outside accepted recovery limits         1. Annor detected at the Reporting Limit       S - Spike Recovery outside accepted recovery limits</td> <td>Bis(2-chloroethyl)ether</td> <td>DN</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td>	(2-chloroisopropy/)ether       ND       15         (2-ethy/hexy/)phthalate       ND       16         Xomophenyl phenyl ether       ND       16         yl benzyl phthalate       ND       16         byl benzyl phthalate       ND       16         byl benzyl phthalate       ND       16         bhloro-3-methylphenol       ND       20         bhlorophenol       ND       10         cytyl phthalate       ND       10         enz(a.h)anthracene       ND       10         naufilfers:       ND - Not Detected at the Reporting Limit       S - Spike Recovery outside accepted recovery limits         1. Annor detected at the Reporting Limit       S - Spike Recovery outside accepted recovery limits	Bis(2-chloroethyl)ether	DN	15					
(2-ethylhexyl)phthalate     ND     15       Skomophenyl phenyl ether     ND     10       Nj benzyl phthalate     ND     15       vj benzyl phthalate     ND     10       vj benzyl phthalate     ND     10       vj benzyl phthalate     ND     20       bhoro-3-methylphenol     ND     20       choro-3-methylphenol     ND     20       choro-attine     ND     20       choro-attine     ND     10       chorophenol     ND     10       chorophenyl phenyl ether     ND     15       rysene     ND     10       n-butyl phthalate     ND     10       n-cotyl phthalate     ND     10       n-cotyl phthalate     ND     10       n-cotyl phthalate     ND     10	(2-ethylhexyl)phthalate     ND     15       Somophenyl phenyl ether     ND     10       N benzyl phthalate     ND     10       Ny benzyl phthalate     ND     10       Dhoro-3-methylphenol     ND     20       Chloro-3-methylphenol     ND     20       Chloro-aritine     ND     20       Chloro-aritine     ND     20       Chlorophenol     ND     10       Chlorophenol     10     10       Procyt) phthalate     ND     10       n-ocyt) phthalate     ND     10       n-ocyt) phthalate     ND     10       Indicate     ND     10       Indiffe	Bis(2-chloroisopropyl)ether	DN	15					
Anomophenyl phenyl ether         ND         10           Nj benzyl phthalate         ND         15           Nazole         ND         20           Chloro-3-methylphenol         ND         20           Chlorophenol         ND         10           Chlorophenol         ND         10           Chlorophenol         ND         15           Chlorophenol         ND         10	Somophenyl phenyl ether         ND         10           Nj benzyl phthalate         ND         15           vj benzyl phthalate         ND         10           bhoro-3-methylphenol         ND         20           choro-3-methylphenol         ND         20           choro-3-methylphenol         ND         20           choro-antilne         ND         20           choro-antilne         ND         10           choro-antilne         ND         10           chorophenol         ND         10           chorophenyl phenyl ether         ND         15           cycly phthalate         ND         10           n-butyl phthalate         ND         10           n-octyl phthalate         ND         10           n-octyl phthalate         ND         10           n-ottyl phthalate         ND	Bis(2-ethylhexyl)phthalate	QN	15					
yl benzyl phthalate     ND     15       chazole     ND     10       chazole     ND     20       chloroantilne     ND     20       chloroantilne     ND     20       chloroantilne     ND     10       chloroaphthalene     ND     10       chlorophenol     ND     10       chlorophenol     ND     10       chlorophenol     ND     15       chlorophenol     ND     10	kyl benzyl phthalate     ND     15       chazole     ND     10       chazole     ND     20       chloroantilne     ND     20       chloroantilne     ND     20       chloroaphthalene     ND     10       chlorophenol     ND     10       chlorophenol     ND     10       chlorophenol     ND     15       chlorophenol     ND     16       chlorophenol     ND     10       chlorophenol     ND     10       n-octyl phthalate     ND     10       nott	4-Bromophenyl phenyl ethe		<b>1</b>					
chazole         ND         10           Chloro3-methylphenol         ND         20           Chloroantine         ND         20           Chloroantine         ND         20           Chloroantine         ND         20           Chloroantine         ND         10           Chlorophenol         ND         10           Chlorophenol         ND         10           Chlorophenol         ND         15           Chlorophenol         10         10           Chlorophenol         ND         10           Chlorophenol         10         10           n-bulyl phthalate         ND         10           n-octyl phthalate         ND         10           n-octyl phthalate         ND         10           n-octyl phthalate         ND         10           noctyl phthalate         ND         10	chazole     ND     10       Chloro-3-methylphenol     ND     20       Chloroantine     ND     20       Chloroantine     ND     20       Chlorophenol     ND     10       Chlorophenol     ND     15       Tysene     ND     10       n-bulyl phthalate     ND       n-octyl phthalate     ND       n-octyl phthalate     ND       n-octyl phthalate     ND       ND     10       I.shund etcened     ND       I.shund etcened     ND       I. Andro detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits       I. Andro detected helow annativation limits     R - RPD austide accepted recovery limits	Butyi benzyi phthalate	DN	15					
Chloroantine     ND     20       Chloroantine     ND     20       Chloroantine     ND     20       Chloroantine     ND     10       Chlorophenol     ND     10       Chlorophenol     ND     10       Chlorophenol     ND     15       Chlorophenyl phenyl ether     ND     15       rysene     ND     16       n-bulyl phthalate     ND     16       n-octyl phthalate     ND     10       noctyl phthalate     ND     10       noctyl phthalate     ND     10       noctyl phthalate     ND     10	Chloro-3-methylphenol     ND     20       Chloroantline     ND     20       Chloroantline     ND     20       Chlorophenol     ND     10       Chlorophenol     ND     10       Chlorophenol     ND     15       Chlorophenol     ND     15       Tysene     ND     16       n-bulyl phthalate     ND     15       enz(a,h)anthracene     ND     10       unlifters:     ND-Not Detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits       1.1 Andworderench below annativation limits     R - RPD sustificancemeet recovery limits	Carbazole	ON	10					
Chloroantline     ND     20       Chloroaphthalene     ND     10       Chlorophenol     ND     10       Chlorophenol     ND     15       Chlorophenol     ND     15       Chlorophenol     ND     15       n-bulk phthalate     ND     16       n-bulk phthalate     ND     16       n-bulk phthalate     ND     10       n-octyl phthalate     ND     10       Inflers:     ND-Not Detected at the Reporting Limit     S-Spike Recovery outside accepted recovery limits	Chloroantline     ND     20       Chloroaphthalene     ND     10       Chlorophenol     ND     10       Chlorophenol     ND     15       Chlorophenol     ND     15       Tysene     ND     15       n-bulyl phthalate     ND     16       n-octyl phthalate     ND     16       enz(a,h)anthracene     ND     10       unliffers:     ND - Not Detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits       1.1 Androt detected before unumination limits     R - RPD outside accepted recovery limits	4-Chloro-3-methylphenol	ON	20					
Chloronaphthalene     ND     10       Chlorophenol     ND     10       Chlorophenol     ND     15       Chlorophenol     ND     15       Chlorophenol     ND     15       n-bully phthalate     ND     16       n-octyl phthalate     ND     10       enz(a,h)anthracene     ND     10       unlfiers:     ND - Not Detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits	Chloronaphthalene     ND     10       Chlorophenol     ND     10       Chlorophenyl phenyl ether     ND     15       Tysene     ND     15       n-bulyl phthalate     ND     15       n-octyl phthalate     ND     10       enz(a,h)anthracene     ND     10       unliffers:     ND - Not Detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits       1.1 Anslow detected helow quantitation limits     R - RPD austide accepted recovery limits	4-Chloroaniline	QN	20					
Chlorophenol     ND     10       Chlorophenyl phenyl ether     ND     15       No     15     15       n-bulyl phthalate     ND     10       n-octyl phthalate     ND     10       enz(a,h)anthracene     ND     10       unfifers:     ND - Not Detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits	Chlorophenol     ND     10       Chlorophenyl phenyl ether     ND     15       Norophenyl phenyl ether     ND     15       rysene     ND     10       n-bulyl phthalate     ND     10       n-octyl phthalate     ND     10       enz(a,h)anthracene     ND     10       unliffers:     ND - Not Detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits       1.1 Analve detected before unantination limits     R - RPD sutcide accepted recovery limits	2-Chloronaphthalene	DN	10					
Chlorophenyl phenyl ether     ND     15       rysene     ND     15       n-bulyl phthalate     ND     10       n-octyl phthalate     ND     10       enz(a,h)anthracene     ND     10       unffiers:     ND - Not Detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits	Chlorophenyl phenyl ether     ND     15       rysene     ND     15       n-bulyl phthalate     ND     10       n-octyl phthalate     ND     10       enz(a,h)anthracene     ND     10       unliffers:     ND - Not Detected at the Reporting Limit     S - Spike Recovery outside accepted recovery limits       1.1 Analve detected by the Network in timits     R - RPD outside accepted recovery limits	2-Chlorophenol	DN	10					
rysene ND 15 n-buly phthalate ND 10 n-octyl phthalate ND 10 enz(a,h)anthracene ND 10 nnLifters: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits	rysene ND 15 n-buly phthalate ND 10 n-octyl phthalate ND 10 enz(a,h)anthracene ND 10 unifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits 1. A malve detected helew quantitation limits R - RPD questide accepted recovery limits	4-Chlorophenyl phenyl ethe		15					
n-buly phthalate ND 10 n-octyl phthalate ND 15 enz(a,h)anthracene ND 10 10 unlifers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits	n-buly phthalate ND 10 n-octyl phthalate ND 15 enz(a,h)anthracene ND 10 unlifers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits 1. Analyse detected by Annaviation Limits R - RPD autoide accepted recovery limits 1. Analyse detected by Annaviation Limits R - RPD autoide accepted recovery limits	Chrysene	UN	15					
n-octyl phthalate ND 15 benz(a,h)anthracene ND 10 10 unlifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits	n-octyl phthalate ND 15 Jenz(a,h)anthracene ND 10 10 uniffers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits 1 - Analyse detected by Annavitation limits R - RPD autoide accepted recovery limits	Di-n-butyl phthalate	DN	10					
enz(a,h)anthracene ND 10 10 uniters: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits	enz(a,h)anthracene ND 10 ualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits 1 - Analyse detected below annativation limits R - RPD autoide accepted recovery limits	Di-n-octyl phthalate	ON	15					
unlifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits	uplifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits 1 - Analyse detected below annautivation limits R - RPD sustifie accepted recovery limits	Dibenz(a,h)anthracene	DN	10					
	1 - Amalyre detected helow dimension limits R - RPD outside accented remover limits	unlifiers:	ot Detected at the Reporting Limit		S - Snike	Recovery outside accepted re	coverv limits		d in the associated Method Blank
	R - RPD outside accented recovery limits								

CLIENT: Work Order:	Giant Refining Co		QC SUMMARY REPORT
Project:	Stormwater Separator Effluent Water		Method Blank
Dibenzofuran	ND 10	0	
1,2-Dichlorobenzene	QN	10	
1,3-Dichlorobenzene	ane ND 10	0	
1,4-Dichlorobenzene	ane ND 10	0	
3,3'-Dichlorobenzidine	ldine ND 15	5	
Diethyi phthalate	10 ND	0	
Dimethyl phthalate	e ND 10	0	
2,4-Dichlorophenol	01 ND 10	<b>t</b>	
2,4-Dimethylphenol		0	
4,6-Dinltro-2-methylphenol	DN	0	
2,4-Dinitrophenal	ND 50	0	
2,4-Dinitrataluene	DN		
2,6-Dinitrotoluene	DN	0	
Fluoranthene		0	
Fluorene		0	
Hexachlorobenzene	DN	0	
Hexachlorobutadiene	Q	0	
Hexachlorocyctopentadiene	DZ	0	
Hexachloroethane	DN N	Ō	
Indeno(1,2,3-cd)pyrene	GN	0	
Isaphorone	10 JO	D	
2-Methylnaphthalene	ane ND 10	0	
2-Methylphenol		5	
3+4-Methylphenal	QN		
N-Nitrasadi-n-propylamine		6	
N-Nitrosodimethylamine		0	
N-Nitrosodiphenylamine		6	
Naphthalene			
2-Nitroaniline		6	
3-Nitroaniline			
4-Nitroanlline	DN 20		
Nitrobenzene			
2-Nitraphenal	ND 15	ι. Γ	
Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank

CLIENT: Giant Re	Giant Refining Co								OC SUMMARY REPORT	TaO
Work Order: 0509109								うっと		
Project: Stormwa	Stormwater Separator Effluent Water	/ater							Method Blank	Blank
4-Nitrophenal	ON	50								
Pentachlorophenol	ON	50								
Phenanthrene	QN	₽								
Phenol	QN	10								
Pyrene	QN	15								
Pyridine	ND	30								
1,2,4-Trichlorobenzene	QN	10								
2,4,5-Trichlorophenol	QN	10								
2,4,6-Trichlorophenal	QN	15								
Surr: 2,4,6-Tribromophenol	138.8	0	200	0	69.4	16.6	150	0		
Surr. 2-Fluarobiphenyl	66.54	0	100	o	66.5	19.6	134	٥		
Surr: 2-Fluarophenol	124.7	0	200	Q	62.4	9.54	113	0		
Surr: 4-Terphenyl-d14	77.86	0	100	Ð	6.77	22.7	145	0		
Surr: Nitrobenzene-d5	70.12	0	100	Û	70.1	14.6	134	0		
Surr: Phenol-d6	86.4	o	200	0	43.2	10,7	80.3	D		
Sample ID MB-8742	Batch ID: 8742	Test Code: SW7470	SW7470	Units: mg/L		Analysis	Analysis Date 9/13/2005	05	Prep Date 9/13/2005	05
Client ID:		Run ID:	MI-LA254_050913B	0913B		SeqNo:	399552			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LawLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD RPDLimit	Qual

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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J - Analyte detected below quantitation limits

Qualifiers:

ND - Not Detected at the Reporting Limit

St 8	Giant Refining Co 0509109 Stormwater Separator Effluent Water	Vater					QC	SUMMA	QC SUMMARY REPORT Method Blank	<b>OR1</b> Blan
MB-8823	Batch ID: 8823 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	Test Code: Run ID: P.QL 0.02 0.005 0.005 0.005 0.005 0.005 0.005	Code: SW6010A ID: ICP_050929A POL SPK value 0.02 0.02 0.02 0.02 0.05 1 1 0.05 0.05 0.05 0.05	Units: mg/L SPK Rei Val	%REC L	Analysis E SeqNo: LowLimit I	Analysis Date 9/29/2005 9:53:00 AM SeqNo: 405128 wLlmit HighLimit RPD Ref Val		Prep Date 9/27/2005 %RPD RPDLimit	05 Qual
	2	<b>-</b>								
Q	ND - Not Detected at the Reporting Limit		S - Spi	<ul> <li>S - Spike Recovery outside accepted recovery limits</li> </ul>	accepted recove	ery limits	B - Analyte de	stected in the as	B - Analyte detected in the associated Method Blank	Blank

	Giant Refining Co					OC SUMMARY REPORT
Work Order: 0509109	09					
Project: Storm	Stormwater Separator Effluent Water	⁄ater				Method Blank
Sample ID 5ml rb	Batch ID: R16641	Test Code:	Code: SW8260B Units: µg/L	Jg/L Analysis Date 9/13/2005	/13/2005	Prep Date
Client ID:		Run ID:	VAL_050913A	SeqNo:	399592	
Analyte	Result	PQL	SPK value SPK Ref Val	%REC LowLimIt	HighLimit RPD Ref Val	%RPD RPDLimit Qual
Benzene	QN					
Toluene	Q	***				
Ethylbenzene	QN	-				
Methyl tert-butyl ether (MTBE)		-				
1,2,4-Trimethylbenzene	DN	-				
1,3,5-Trimethylbenzene	QN	F				
1,2-Dichloroethane (EDC)	QN	-				
1,2-Dibromoethane (EDB)	QN	۴-				
Naphthalene	QN	N				
1-Methylnaphthalene	ON	4				
2-Methylnaphthalene	QN	4				
Acetone	QN	10				
Bromobenzene	QN	<b>-</b>				
Bromochloromethane	QN	<b></b>				
Bromodichloromethane	DN	-				
Bromoform	QN	-				
Bromomethane	QN	2				
2-Butanone	DN	10				
Carbon disulfide	ON	10				
Carbon Tetrachloride	DN	<b>T</b>				
Chlorobenzene	QN	-				
Chloroethane	QN	7				
Chloroform	ΩN	-				
Chloromethane	QN	-				
2-Chloratoluene	QN	-				
4-Chlorotoluene	UN	-				
cis-1,2-DCE	QN	-				
Qualifiers: ND - Not	ND - Not Detected at the Reporting Limit		S - Spike Recover,	<ul> <li>S - Spike Recovery outside accepted recovery limits</li> </ul>	B - Analyte detector	B - Analyte detected in the accornated Mathod Blank

Project: Stormwater Separator Effluent Water cls-1,3-Dichloropropene ND 1,2-Dibromo-3-chloropropane ND Dibromochloromethane ND			
cis-1.3-Dichloropropene cis-1.3-Dibromo-3-chloropropane Dibromochloromethane Dibromomethane	Effluent Water		Method Blank
2-Cibicomo-3-chloropropane 2-Cibicomo-3-chloropropane Dibromomethane Dibromomethane			
Noramochloromethane	DN DN		
olbromomethane			
	ND 2		
1,2-Dichlorobenzene	ND		
1,3-Dichlorobenzene	DN		
1,4-Dichlorobenzene	UN DN		
Dichlorodiftuoromethane	UD DN		
1,1-Dichloroethane	DN		
1,1-Dichloroethene	5 ND		
1,2-Dichloropropane			
1,3-Dichlaropropane	DN		
2,2-Dichioropropane	DN DN		
1,1-Dichlaroprapene	ND 1		
Hexachlorobutadiene	۳ ۲		
2-Hexanone	01 10		
isopropylbenzene	ND ON		
4-lsapropyltaluene	UN D		
4-Methyl-2-pentanone	-		
Methylene Chloride	CN ON		
n-Butylbenzene	4 DN		
n-Propylbenzene	ND 1		
sec-Butylbenzene	UN DN		
Styrene	UN 1		
tert-Butylbenzene	UN 1		
1,1,1,2-Tetrachloroethane	P N		-
1,1,2,2-Tetrachloroethane	2N DN		
Tetrachloroethene (PCE)	ND 1		
trans-1,2-DCE	UD DN		
trans-1,3-Dichloropropene	DN DN		
1,2,3-Trichlorobenzene			
1,2,4-Trichlorobenzene	ND 1		
1,1,1-Trichloroethane	۲. ON		
Oualifiers: ND - Not Detected at the Reporting Limit	orting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank

B - Analyte detected in the associated Method Błank	<b>m</b> :	ery limits	<ul> <li>S - Spike Recovery outside accepted recovery limits</li> <li>R - RPD outside accented recovery limits</li> </ul>	overy outsid	S - Spike Rec Rec April		rting Limit nitation limits	ND - Not Detected at the Reporting Limit	ND - Not Det	Qualifiers:
œ	100 100	82 5.0	8. 2.0	0	0	0	9.582		_	Surr: Toluene-d8
00	11 10 10 10	83.1	9.56		0 0		9.582		oromethane	Surr: Toluene-d8 Surr: Toluene-d8
0000	108 111 109	87.7 88.4 85.9 85.9	94.9 101 95.8 95.8	0000	0 0 0 0	0000	9,492 10.42 9.582 9.582		oethane-d4 orobenzene oromethane 3	Surr: 1,2-Dichlaroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8
0000	108 111 109	87.7 88.4 83.1 85.9 85.9	94.9 101 95.8	0000	01 01 01 01		9.582 9.582 9.582		oethane-d4 orobenzene oromethane s	Vinyl chloride Xylenes, Total Surr: 1,2-Dichlor Surr: Dibromoflu Surr: Toluene-dB Surr: Toluene-dB
	108 111 109	87.7 88.4 83.1 85.9 85.9	94.9 101 95.8	0000	0 0 0 0	N 0 0 0 0	0.482 ND 9.492 10.42 9.582 9.582		ane oethane-d4 oromethane 3	1,2,3-Trichloropropane Vinyl chloride Xylenes, Total Surr: 1,2-Dichloroeth Surr: Dibromofluoron Surr: Toluene-dB
7	108 111 109	87.7 88.4 83.1 85.9 85.9	94.9 101 95.8	0000	0 0 0 0	- N 0000	0.482 ND 10.42 9.582 9.582		ane ane oethane-d4 orobenzene oromethane }	Trichlorofluoromethane (1,2,3-Trichloropropane Vinyl chloride Xylenes, Tatal Surr: 1,2-Dichloroeth Surr: 1,2-Dichloroeth Surr: Toluene-dB Surr: Toluene-dB
	108 111 109	87.7 88.8.3.1 85.9 85.9	94.9 101 95.8	0000	0000	~ ~ ~ N ~ ~ O O O O	ND ND 1482 9.492 10.42 9.582 9.582		ne SE) ane oethane-d4 orobenzene oromethane	1,1,2-Trichloroethane Trichloroethane (TCE) Trichloropropane Vinyl chloride Xylenes, Tucal Surr: 1,2-Dichloroet Surr: 4-Bromofluoro Surr: Toluene-dB Surr: Toluene-dB
	108 11 125 109	87.7 88.4 83.1 85.9	94.9 101 95.8	0000	0 0 0 0	~ ~ ~ N ~ ~ O O O O	ffluent Water ND ND 0.482 ND 0.482 10.42 10.09 9.582 9.582	er Separator E	Stormwat ne JE) hane ane oethane-d4 orobenzene oromethane a	Project: Trichloroethene (TC Trichloroethene (TC Trichlorofluorometh 1,2,3-Trichloroprop VInyl chloride Xylenes, Tatal Surr: 1,2-Dichlor Surr: 1,2-Dichlor Surr: Toluene-d8 Surr: Toluene-d8
Method Bla	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	83.1 83.1 85.9 85.9	8.96 101 8.58	0000	5 5 5 5 5	~~~ N ~ ~ 0 0 0 0	ffluent Water ND ND 0.482 ND 0.482 10.42 10.09 9.582 9.582	0509109 Stormwater Separator Effluent Water ND ND ND ND ND ND ND ND ND ND ND ND ND	0509109 Stormwat ne CE) nane ane oethane-d4 orobenzene oromethane 3	Work Order: Project: Trichloroethan 1,1,2-Trichloroethan 1,2,3-Trichloroethan 1,2,3-Trichloroethan 1,2,3-Trichloroethan 1,2,3-Trichloroethan 2,3-Trichloroethan Surr: 1,2-Dichlor Surr: 1,2-Dichlor Surr: Toluene-d8

	חוריטשרו כופל	•									
CLIENT: Giant Refining Co Work Order: 0509109 Project: Stormwater Separa	Giant Refining Co 0509109 Stormwater Separator Effluent Water	/ater						QC SI Laborato	QC SUMMARY REPORT Laboratory Control Spike - generic	REPO ke - gen	RT
Sample ID LCS-ST300-05021 Batch Client ID:	Batch ID: R16631	Test Code: E300 Run ID: LC_0	E300 LC_050912A	Units: mg/L		Analysis SeqNo:	Analysis Date 9/12/2005 SeqNo: 399211	/2005 11	Prep Date		
Analyte	Result	Par	SPK value	SPK Ref Val	%REC	LowLimit	HighLímit	RPD Ref Val	%RPD RP	RPDLimit	Qual
Fluoride	0.5202	0.1	0.5	0	104	06	110	0			
Chloride	4.815	0.1	сл I	0	96.3	06	110	0			
Phosphorus, Orthophosphate (As P)	4.88	0.5	ŝ	٥	97.6	06	110	0			
Sulfate	9.843	0.5	10	0	98.4	06	110	O			
Nitrate (As N)+Nitrite (As N)	3.424	0.1	3.5	o	97.8	06	110	0			
Sample ID LCS-ST300-05021 Batch	Batch ID: R16660	Test Code:	Code: E300	Units: mg/L		Analysis	Analysis Date 9/14/2005	/2005	Prep Date		
Client ID:		Run (D:	LC_050914A			SeqNo:	400302	02			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit		HighLimit RPD Ref Val	%RPD RP	RPDLimit	Qual
Fluoride	0.4679	0.1	0.5	0	93.6	6	110	<b>Q</b>			
Chtoride	4.575	0.1	5	0	91.5	06	110	G			
Phosphorus, Orthophosphate (As P)	4.701	0.5	IJ	0	94.0	06	110	0			
Sulfate	9.279	0.5	10	Q	92.8	6	110	0			
Nitrate (As N)+Nitrite (As N)	3.234	0.1	3.5	Q	92.4	08	110	۵			
Sample ID LCS ST300-05021 Batch	Batch ID: R16660	Test Code:	E300	Units: mg/L		Analysis	Analysis Date 9/14/2005	12005	Prep Date		
Client ID:		Run ID:	LC_050914A			SeqNo:	400341	41			
Analyte	Result	Par	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RP	RPDLimit	Qual
Fluoride	0,523	0.1	0.5	0	105	06	110	0			
Phosphorus, Orthophosphate (As P)	4.849	0.5	U)	0	97.0	06	110	0			
Sulfate	9.705	0.5	10	0	97.1	06	110	0			
Nitrate (As N)+Nitrite (As N)	3.442	0.1	3.5	0	98.3	06	110	٥			
Cuolifiere: NO - Not Defected at the Renortino 1 duit	the Renoming Limit		- S	S - Snike Recovery outside accented resovery limits	e accented rec	overv limits	•	R - Andvie detec	R - Analyte detected in the accordiated Method Blass.	Mathed Bl-	+
	clow quantitation lin	nits	R- RI	R - RPD outside accepted recovery limits	recovery limit	1					/ W

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Project: Stormwater	0509109 Stormwater Separator Effluent Water	/ater						QC SUMMARY REPURI Laboratory Control Spike - generic	MAKY ontrol Sp	REPC ike - ge	IKI neric
Sample ID LCS-ST300-05021 E Client ID:	Batch ID: R16676	Test Code: E300 Run ID: LC_0	E300 LC_050915A	Units: mg/L		Analysis Date SeqNo:	5 Date 9/15/2005 400587	10	Prep Date		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPI	RPD Ref Val	%КРО Я	RPDLimit	Qual
Fluoride	0.4769	0,1	0.5	0	95.4	06	110	<b>0</b>			
Chloride	4.684	0.1	5 C	0	93.7	60	110	0			
Phosphorus, Orthophosphate (As P)		0.5	сı	D	96.7	06	110	0			
Sulfate	9.529	0.5	10	0	95.3	90	110	Ģ			
Nitrate (As N)+Nitrite (As N)	3.351	0.1	3.5	o	95.7	06	110	٥			
Sample ID LCS-8767 B	Batch ID: 8767	Test Code: SW8015	SW8015	Units: mg/L		Analysis	Analysis Date 9/21/2005 11:05:28 AM	5 11:05:28 AM	Prep Date	Prep Date 9/16/2005	
Client ID:		Run ID:	FID(17A) 2_050920A	50920A		SeqNo:	402341				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	o Ref Val	%RPD R	RPDLimit	Qual
Diesel Range Organics (DRO)	6.532	-	5	0	131	81.2	149				
Sample ID LCSD-8767 B	Batch ID: 8767	Test Code: SW8015	SW8015	Units: mg/L		Analysis	Analysis Date 9/21/2005 11:36:54 AM	i 11:36:54 AM	Prep Date 9/16/2005	9/16/2005	
Client ID:		Run ID:	FID(17A) 2_050920A	10920A		SegNa:	402344				
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Diesel Range Organics (DRO)	5.253	-	ហ	a	105	81.2	149	6.532	21.7	23	
Sample ID GRO Ics 2.5ug B	Batch ID: R16692	Test Code: SW8015	SW8015	Units: mg/L		Analysis	Analysis Date 9/17/2005 2:49:31 AM	i 2:49:31 AM	Prep Date		
Client ID:		Run ID:	PIDFID_050916B	68		SeqNo:	401084				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPC	RPD Ref Val	%RPD R	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.553	0,05	0.5	D	111	82.6	114	0			

Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

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Qualifiers:

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B - Analyte detected in the associated Method Blank

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CLIENT: Giant Refu Work Order: 0509109 Project: Stormwate	Giant Refining Co 0509109 Stormwater Separator Effluent Water	/ater						QC SUMMARY REPORT Laboratory Control Spike Duplicate	IMAR ontrol S	Y REPO pike Dup	<b>DRT</b> licate
Sample ID GRO Icsd 2.5ug Client ID:	Batch ID: R16692	Test Code: SW8015 Run ID: PIDFID	SW8015 U PIDFID_050916B	Units: mg/L 16B		Analysis SeqNo:	Analysis Date 9/17/2005 3:19:50 AM SeqNo: 401086	<b>)5 3:19:50 AM</b>	Prep Date	ale	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	D Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0) 0.52	0.05	0.5	0	104	82.6	114	0.553	6.15	8.39	
Sample ID 100ng lcs	Batch ID: R16641	Test Code:	Test Code: SW8260B	Units: µg/L		Analysis	Analysis Date 9/13/2005	55	Prep Date	ate	
Client ID:		Run ID:	VAL_050913A	A		SeqNo:	399600				
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RF	RPD Ref Val	%RPD	RPDLImit	Quał
Benzene	18.53	1	20	o	92.6	81.4	130	0			
Toluene	21.99	F	20	o	110	90.8	128	D			
Chlorobenzene	21.46	-	20	0	107	89.6	134	0			
1,1-Dichloroethene	19.24	-	20	0	96.2	75.1	120	0			
Trichloroethene (TCE)	17.35	1	20	0	86.7	75.8	110	0	:		
Sample ID 100ng Ics	Batch ID: R16656	Test Code:	Test Code: SW8260B	Units: µg/L		Analysis	Analysis Date 9/14/2005	ñ	Prep Date	Ite	
Client ID:		Run ID:	VAL_050914B	70		SeqNo:	400222				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RF	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19,44	-	20	0	97.2	81.4	130	<b>0</b>			
Тоічепе	22.94	-	20	a	115	90.8	128	٥			
Chlorobenzene	22.42	-	20	0	112	89.6	134	0			
1,1-Dichloroethene	21.96	***	20	0	110	75.1	120	O			
Trichlaroethene (TCE)	19.14	*	20	0	95.7	75.8	110	0			

B - Analyte detected in the associated Method Blank

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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits

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Qualifiers:

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די הוברוי היי	Stormwater Separator Effluent Water	lent Water						Laboratory Control Spike - generic	Control S	pike - ge	nerio
Samola (D. 1. CS-8746	Batch ID: 8746	Test Code	Test Code: SW8270C	Units: µg/L		Analysis	Analysis Date 9/15/2005	05	Prep Da	Prep Date 9/13/2005	5
		Run ID:	ELMO_050915A	5A		SeqNo:	400761				
Analyte	Result	sult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RI	RPD Ref Val	0,4PD	RPDLimit	Qual
Arananhthana	73	73.54 10	100	o	73.5	7	123	0			
4-Chloro-3-methylahend			200	0	74.7	15.4	119	o			
2.Chloroofteon!			200	0	72.6	12.2	122	D			
<ol> <li>Undergeneration</li> <li>4-Dichlorobenzene</li> </ol>	63		100	0	63.9	16.9	100	0			
2.4-Dinitrotoluene	2	70.8 10	100	o	70.8	13	138	0			
N-Nitrosodi-n-propylamine		70.74 10	100	Ċ	70.7	9.93	122	D			
4-Nitrophenol		80.04 50	200	0	40.0	-20.5	87.4	0			
Pentachlorophenol	13	134.3 . 50	200	0	67.2	-0.355	114	0			
Phenol	68	89.48 10	200	0	44.7	7.53	73.1	o			
Pvrene	74	74.06 15	100	D	74.1	12.6	140	o			
1,2,4-Trichlorobenzene		63.66 10	100	D	63.7	17.4	98.7	0			
Sample ID LCSD-8746	Batch ID: 8746	Test Code:	SW8270C	Units: pg/L		Analysis	Analysis Date 9/15/2005	05	Prep Date	te 9/13/2005	2
Client ID:		Run ID:	ELMO_050915A	5A		SeqNo:	400762				
Analyte	Rec	Result PCL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RI	RPD Ref Val	%RPD	RPDLimit	Qual
Arananhthana	75	75.62 10	100	o	75.6	11	123	73.54	2.79	30.5	
4-Chloro-3-methylahenol			200	O	77.0	15.4	119	149.3	3.05	28.6	
2-Chlorohenol			200	Q	75.2	12.2	122	145.1	3.55	107	
1 4-Dichlorobenzene	66		100	0	66.1	16.9	100	63.92	3.32	62.1	
2.4-Dinitrotoluene	76	76.42 10	100	0	76.4	13	138	70.8	7.63	14.7	
N-Nitrosodi-n-propylamine		68.18 10	100	0	68.2	9.93	122	70.74	3.69	30.3	
4-Nitrophenol		90.32 50	200	D	45.2	12.5	87.4	80.04	12.1	36.3	
Pentachtorophenol	14		200	0	74.9	3.55	114	134.3	10.9	49	
Phenal	89	89.98 10	200	o	45.0	7.53	73.1	89.48	0.557	52.4	
Pvrene	73	73.82 15	100	0	73.8	12.6	140	74.06	0.325	16.3	
1,2,4-Trichlorobenzene		64 10	100	0	64.0	17.4	98.7	63.66	0.533	36.4	
			2					a had a h			1
Qualifiers: ND	ND - Not Detected at the Reporting Limit	g Limit	d2 - 2	- Spike Recovery outside accepted recovery limits	e accepica reu	סעפרץ וווווו	à	B - Analyte detected in the associated wiethod blank	D IN LOP assuch	aled ivicingo c	ыанк

work Urger: U Project: S	0509109 Stormwater Separator Effluent Wa	/ater						Laboratory Control Spike - generic	Control S	aboratory Control Spike - generic	IN I lieric
Sample ID LCS-8742 Client ID:	Batch ID: 8742	Test Code: SW7470 Run ID: MI-LA25	SW7470 Unit: MI-LA254_050913B	Units: mg/L 0913B		Analysis SeqNo:	Analysis Date 9/13/2005 SeqNo: 399553	005	Prep Dat	Prep Date 9/13/2005	
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004975	0.0002	0.005	0	99.5	75.2	134	0			
Sample ID LCSD-8742	2 Batch ID: 8742	Test Code: SW7470	SW7470	Units: mg/L		Analysis	Analysis Date 9/13/2005	005	Prep Dati	Prep Date 9/13/2005	
Client ID:		Run ID:	MI-LA254_050913B	0913B		SeqNo:	399577				
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00498	0.0002	0.005	0	9.6	75.2	134	0.004975	0.102	0	
Sample ID LCS-8823	Batch ID: 8823	Test Code:	Test Code: SW6010A	Units: mg/L		Analysis	Date 9/29/2	Analysis Date 9/29/2005 9:56:02 AM	Prep Dat	Prep Date 9/27/2005	
Client ID:		Run ID:	JCP_050929A	_		SeqNo:	405129				
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLlmit	HighLimit	RPD Ref Val	ИКРО	RPDLimit	Qual
Arsenic	0.5041	0.02	0.5	0	101	80	120	0			
Barium	0.4623	0.02	0.5	a	92.5	80	120	D			
Cadmium	0.4612	0.002	0.5	0	92.2	80	120	0			
Calcium	49.25	-	50	Ċ	98.5	80	120	0			
Chromium	0.4698	0.006	0.5	0	94.0	80	120	O			
Lead	0.4653	0.005	0.5	0	93.1	80	120	0			
Magnesium	47.33	-	50	0	94.7	80	120	0			
Potassium	49.46	-	50	0	98.9	80	120	0			
Selenium	0.4445	0.05	0.5	0	88.9	80	120	0			
Silver	0.4625	0.005	0.5	0	92.5	80	120	0			
E ipou	EU 70	T	50	c	103	U a	120	c			

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

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Qualifiers:

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CLIENT:	Giant Refining Co			<b>OC SUMMARY REPORT</b>
Work Order:	0509109		F	constant Control Califordiants
Project:	Stormwater Separator Effluent Wate	Water	-	
		Tent Cade: SWEDION   Inite: mail		Andrusis Data 0/30/3005 0-58-35 AM Drep Data 0/37/2005

,

Sample ID LCSD-8823	Batch ID: 8823	Test Code: SW6010A	SW6010A	Units: mg/L		Analysis	Date 9/29/	Analysis Date 9/29/2005 9:58:26 AM	Prep Da	Prep Date 9/27/2005	
Client ID:		Run ID:	ICP_050929A			SeqNo:	405130	0			
Analyte	Result	Par	SPK value	SPK Ref Val	%REC	LawLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4967	0.02	0.5	0	<b>99.3</b>	80	120	0.5041	1.48	20	
Banum	0.466	0.02	0.5	0	93.2	80	120	0.4623	0.785	20	
Cadmium	0.4626	0.002	0.5	0	92.5	80	120	0.4612	0.303	20	
Calcium	49.02	٢	50	0	98.0	80	120	49.25	0.463	20	
Chromium	0.4692	0.006	0.5	0	93.8		120	0.4698	0.137	20	
Lead	0.4666	0.005	0.5	o	93.3	80	120	0.4653	0.289	20	
Magnesium	47.69		50	o	95.4	80	120	47.33	0.776	20	
Potassium	50.23	-	50	0	100	80	120	49.46	1.55	20	
Selenium	0.4472	0.05	0.5	Φ	89.4	80	120	0.4445	0.593	20	
Silver	0.4677	0.005	0.5	0	93.5	80	120	0.4625	1.11	20	
Sadium	50.07	*	50	0	100	80	120	50.78	1.40	20	

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B • Analyte detected in the associated Method Blank

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits

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Qualifiers:

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	Sample	Receipt Che	CKIISI			
Client Name GIANTREFIN			Date and Time	Received:	9/	12/2005
Work Order Number 0509109	$\cap$		Received by	AT		
Checklist completed by	Him		9/12/0	15		
Signature		Date				
Matrix	Carrier name	<u>Client drop-off</u>				
Shipping container/cooler in good condition?		Yes 🗹		Not Present		
Custody seals intact on shipping container/coole	r?	Yes 🗌	No 🗔	Not Present	Not Shipped	$\checkmark$
Custody seals intact on sample bottles?		Yes 🗌	No 🗹	N/A		
Chain of custody present?		Yes 🗹	No 🗖			
Chain of custody signed when relinquished and	eceived?	Yes 🗹	No 🗀			
Chain of custody agrees with sample labels?		Yes 🗹	No 🗀			
Samples in proper container/bottle?		Yes 🗹	No 🗋			
Sample containers intact?		Yes 🗹	No 🗆			
Sufficient sample volume for indicated test?		Yes 🗹	No 🗖			
All samples received within holding time?		Yes 🗹	No 🗖			
Water - VOA vials have zero headspace?	No VOA vials subr	nitted 🗌	Yes 🗹	No 🗋		
Water - pH acceptable upon receipt?		Yes 🗹	No 🗔			
Container/Temp Blank temperature?			4° C ± 2 Accepta If given sufficient			
COMMENTS:						
Client contacted	Date contacted:		Pers	on contacted		
Contacled by:	Regarding					
Comments:						
	- <u></u>					
Corrective Action						
	······································					,

HALL ENVIRONMENTAL ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109 Tel. 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com	ANALVES 1982) 50 <sup>4</sup> ) 50 <sup>5</sup> ) 50 <sup>5</sup> ) 50 <sup>6</sup> 50 <sup>7</sup> ) 50 <sup>7</sup> 50 <sup>7</sup> 5	1 or PAA) stals 7 22 icides / PO2, PO, 1 icides / PCB's (80 (80	M + X318 TPH Metho TPH Metho EDB (Meth EDB (Meth B310 (PNA B310 (P				Remarks: Fen Can = aliene	Russian phy + on and child
QA/QC Package: Std □ Level 4 □ Other: Project Name: Stormworth Kepanets	Project #: Project Manager:	Eampler: U.L. Morris Sample: U.L. Morris Sample Temperature:	Number/Volume H9Cl <sub>2</sub> HNO <sub>3</sub> HEAL No.	+ 0309109-1			Repérved B: (Signature) 9/12/03	Received By: (Signature)
CHAIN-OF-CUSTODY RECORD Dient January	Address: Bute 5 800 7 Fallin, NN 87391	Phone #: 505 722 3633 Fax #: 505 722 0210	Date Time Matrix Sample I.D. No.	9/2/05/130/420 SW day. Glan			9/12/0-2 9330 Relinquished By: (Signature)	Date: Time: Relinquished By: (Signature)

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District 1
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505



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State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

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

					iiitta I	$\mathbf{c},$ $\mathbf{c}$	05			÷	
			Rele	ease Notific	atio	n and Co	orrective A	ction			
						OPERA	TOR	🖂 Initia	al Report		Final Report
Name of Co	mpany G	iant Industri	les, Inc.			Contact James Romero					
Address Rt	. 3, Box 7					Telephone No. 505-722-0227					
Facility Nar	ne Giant I	ndustries, In	ic.			Facility Typ	e Refinery				
Surface Ow	ner Giant I	ndustries, Ir	ıc.	Mineral C	)wner	Giant Industries, Inc. Lease No.					
				LOCA	ντιο	N OF RE	LEASE				
Unit Letter	Section 33	Township 15N	Range 15W	Feet from the		/South Line	Feet from the	East/West Line	County McKinley		
Latitude30° 29' 30" Longitude108° 24" 40" NATURE OF RELEASE											
Turne of Dala	Dologo	into Cocond	lam: Cant		UKE			llana Valuma Dr	action of 3	0.0.2	long
Type of Rele				ainment containment			Release 210 Gal	a contract of the second second second second second second second second second second second second second se	covered 2 Hour of Di		
Source of Re	lease Ari	Separator Se	conuary	containment			/5/05n – 9/15/05	9/15/05 (a		scover	
Was Immedia	ate Notice G					If YES, To			<u> </u>		
			Yes 🖂	No 🗌 Not Red	quired			ope Monzeglio, N	IMED		
By Whom?							Hour 10/03/05 @				
was a water	Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.         Yes       No										
If a Watercou	irse was Imp	pacted, Descr	ibe Fully.	No watercourse	was In	pacted		·			
Describe Cause of Problem and Remedial Action Taken. During monthly inspections of below grade tanks/sumps/pits/and ponds, Giant personnel noted water within the secondary containment of the API separator. Samples were gathered and taken in for laboratory testing which indicated exceedence of NMWQS (see attached lab results). Giant has no reason to believe the spill left the secondary containment.											
weekly inspe weekly Repo primary.	Describe Area Affected and Cleanup Action Taken. The Secondary containment was vacuumed and all water removed and Giant has initiated weekly inspections and will pump the secondary as necessary. Furthermore, Giant will update OCD and NMED on a weekly basis (via our OCD weekly Reporting) on the current status until the problem is corrected. Also, Giant has initiated an Request for Expenditures (RFE) to repair the primary.							ia our OCD to repair the			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.											
		<b>_</b>					OIL CON	SERVATION	DIVISIO	) <u>N</u>	- <u></u>
Signature:											
Printed Name	e: JAMES I	ROMERO				Approved by	District Supervis	or:			
Title: Enviro	onmental En	gineer				Approval Da	te:	Expiration	Date:		
E-mail Addre	ess: Jromero	o@Giant.com	1	· · · · · · · · · · · · · · · · · · ·		Conditions of Approval:		Attached			
Date: Oct 3 Attach Addi											
			· J								

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	on 9/29/2005 11:32 AM.	
Price, Wayne	can contain viruses that may the your computer. Attachments may not display contectly.	· · · · · · · · · · · · · · · · · · ·
From:	James Romero [jromero@giant.com]	Sent: Thu 9/29/2005 10:30 AM
To:	James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; C	
Cc:		
	Ed Riege; Steve Morris; Johnny Sanchez; Cobrain, Dave, NMENV	
Subject:	RE: Weekly Reporting (Update to Week three)	
Attachments:	<u>الَّ الْحَادِي Picture 045.jpg(756KB)</u> كَانَتُ Picture 046.jpg(623KB)	
The following is	is an update to our week three report:	
be completed I	r ponds has been removed with only a slight sheen remaining (see attached pio later this week early next {pic 45 is pond one/pic 46 is aeration 2] sample from AL-2 to EP1 will be gathered today	cs). Riley will continue to vacuum with
Oric	iginal Message	
	James Romero	
	Wednesday, September 28, 2005 10:18 AM	
	mes Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST	@state.nm.us'; 'carlj.chavez@state.nm
	Riege; Steve Morris; Johnny Sanchez	
Subjec	ct: RE: Weekly Reporting (Week Three)	
. '		
The foll	lowing is a summary of week three:	
- Betv - Loa *Estir 2) New 3) Two 4) A soi 5) A soi 6) The o 7) Railro 8) 2003 9) Eleva 10) Ann 11) " 12) Weo	y is continuing work on aeration lagoon 1 and 2 tween 9/20/05 - 9/26/05 58 trucks of oily wastewater were removed ads from the 55,000bbl tanks = 5/200bbl loads of sludge removed from tank and 15 truck loads of water removed imated time until pond cleanup is completed is next week / boom arrived and will be installed at the inlet to pond 2 new dry monitoring wells were installed by Precision Engineering (GWM-2/GW oil boring was completed for the proposed firewater pond - a sample was sent to oil sample was gathered for OCD and will be held onsite (per discussions with V old API separator continues to be oil free (we are awaiting lab result from previ- road Lagoon sampling is completed and mailed 9/27 rations for the Boundary wells are completed and included in the 2003 OCD Re- nual Groundwater sampling is underway this week on the OW wells " next week on the SMW wells eekly sampling from aeration 2 into evap pond 1 (AL-2 to EP-1) will be taken 9/2 Original Message From: James Romero Sent: Tuesday, September 20, 2005 10:06 AM To James Remero: 'Brice Wares EMNED': 'beeptember 20, 2005 10:06 AM	VM-3). Monthly Sampling will begin Oct o Precision for permeability testing (EM Vayne) ious sampling) will be backfilled next week sponse
	To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'D	FOUST@state.nm.us': 'carli.chavez@sta
	C: Ed Riege; Steve Morris; Johnny Sanchez	
	Subject: RE: Weekly Reporting (Week Two)	
	The following is a summary of week two:	
1	1) Riley is continuing work on aeration lagoon 2	
	<ul> <li>Between 9/13/05 - 9/19/05 36 trucks of oily wastewater were removed from</li> <li>Loads from the 55,000bbl tanks = 7/200bbl loads of sludge removed from t</li> </ul>	
	30 truck loads of water removed	was reported to OCD. During this time
	2) The wastewater line from the Pilot travel center failed causing a spill which v from Pilot was diverted into pond 9. The pipe was fixed on 9/16 and flow was re-	
	again which and repaired on 9/17. Again, flow was diverted into pond 9 until the	
, . V 3	via telephone 9/19. Moreover, a new valve was installed at the Pilot diversion 3) The new chopper pump should arrive this week, however, a new control values of the second secon	where flows are diverted into pond 9 or ve is needed which could delay installat
4	4) Weekly lab results were received for the week of 9/5/05 (sampling date 9/9/	05) Benzene=ND, Toluene=ND, Ethybe

Xylenes Total= 20ppb

A complete report/lab results will be forward to OCD and NMED. Other weekly sampling dates are 9/12/05 and 9/2 5) A conference call was held between OCD, NMED, Precision Engineering, and Giant to discuss the installation of tw was and and one boring. A report will be sent to OCD and NMED asking for concurrence of our plan prior to drilling. 6) Excavation on the RR Lago was completed and additional soil sample were taken (lab results expected next we

-----Original Message-----From: James Romero Sent: Thursday, September 15, 2005 1:33 PM To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm.us Cc: Ed Riege; Steve Morris; Johnny Sanchez Subject: RE: Weekly Reporting (Week One)

Wayne, the following is a summary of week one:

 The oil on the old separator was all removed by late Friday (see attached pic). Our maintenance manager is the source of the oil was the FCC unit storm drain. We've ordered absorbents to place in the storm drains
 Between 9/8/05 thru 9/12/05 34 trucks of sludge and 8 trucks of water have been removed.
 Evaporation pond one has been cleaned (very little oil remaining) and all efforts have been moved to aeration p attached pic)

3) Samples from the old API and aeration 2 into evap pond 1 have been taken and are at the lab

4) The diesel spill soil (25 cubic yards) has been moved to the land farm (see pic)

5) Water has been removed from the RR Lagoon. Fushe is onsite today excavating additional soil where sample contamination. Aslo, they will back fill the area near the railroad due to concerns about stability of the RR line.
6) A hazmat roll off has been ordered to haul all the F037 contaminated soil

7) A small spill (20 gallons) occurred 9/14/05 at Marketing tank #4. A formal C-141 was filed on 9/15/05

8) As of today we have not received lab analysis for our weekly sample (Hope's weekly sample)

9) Butterfly valves have been installed on both stormwater basins

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] **Sent:** Friday, September 09, 2005 1:05 PM **To:** James Romero **Subject:** RE: Weekly Reporting

We will call you tuesday.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

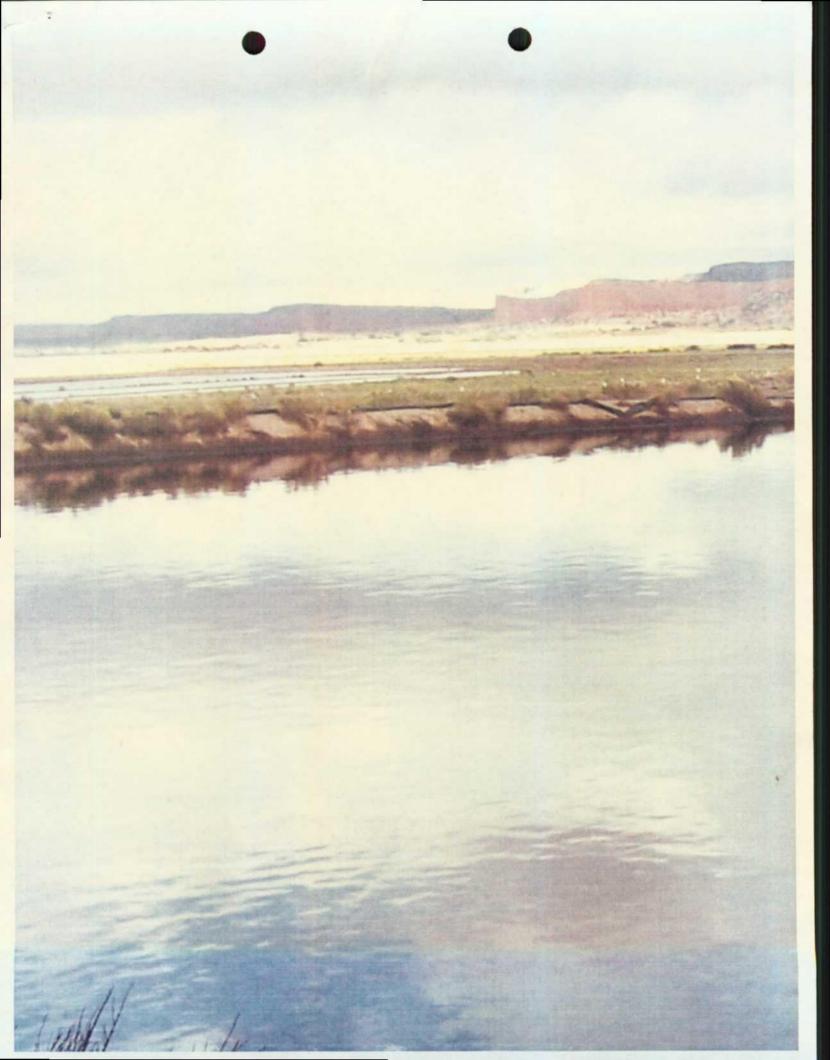
From: James Romero [mailto:jromero@giant.com] Sent: Fri 9/9/2005 1:07 PM To: Price, Wayne, EMNRD Subject: Weekly Reporting

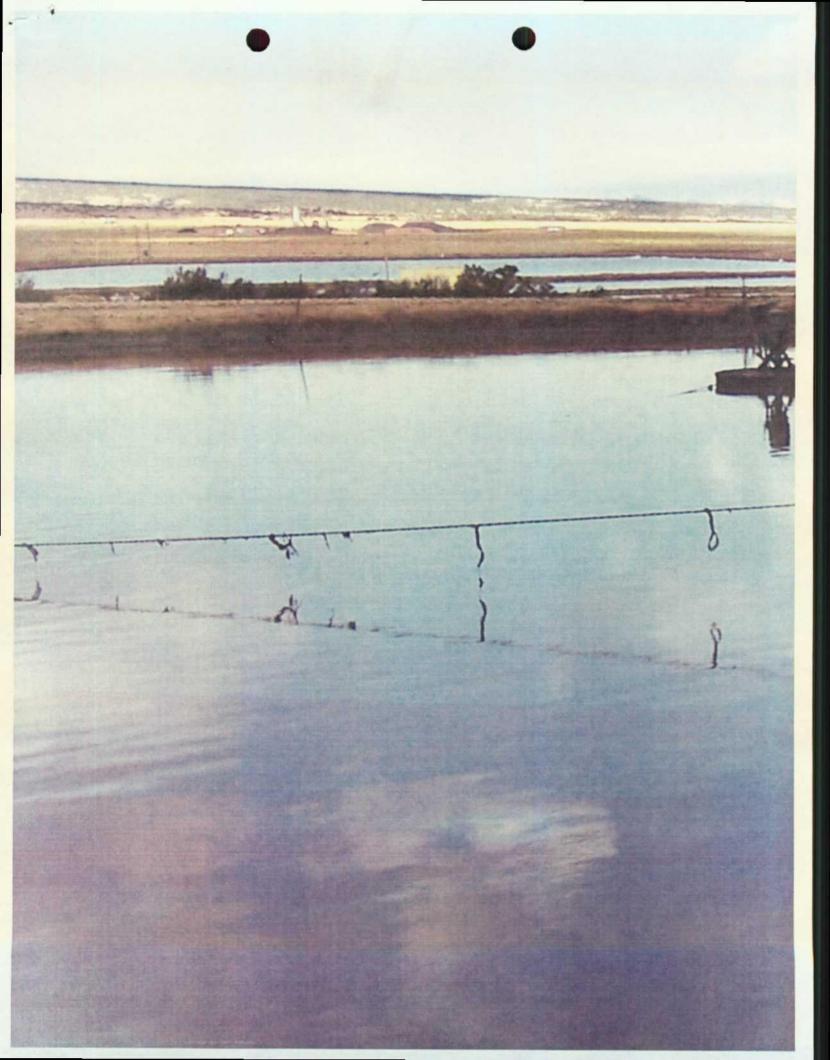
Wayne, Lets plan on me getting our weekly to you every Wednesday.

-----Original Message-----From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] Sent: Friday, September 09, 2005 11:55 AM To: James Romero Subject: RE: Spill Report (daily update for 8/

James, you may back off of the daily report and submit weekely until the emergency is over.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462





( You	replied on 9/28/2005 11:43 AM.
Price,	Wayne, EMNRD
From:	James Romero [jromero@giant.com] Sent: Wed 9/28/2005 11:18 AM
To:	James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Cobrain, Dave, NMENV
Cc:	Ed Riege; Steve Morris; Johnny Sanchez
Subjec	
Attach	iments:
The fol	llowing is a summary of week three:
- Be - Loi	y is continuing work on aeration lagoon 1 and 2 tween 9/20/05 - 9/26/05 58 trucks of oily wastewater were removed ads from the 55,000bbl tanks = 5/200bbl loads of sludge removed from tank and recycled 15 truck loads of water removed timated time until pond cleanup is completed is next week
	v boom arrived and will be installed at the inlet to pond 2
3) Two 4) A so 5) A so 6) The 7) Rail 8) 2003	o new dry monitoring wells were installed by Precision Engineering (GWM-2/GWM-3). Monthly Sampling will begin October 0 bil boring was completed for the proposed firewater pond - a sample was sent to Precision for permeability testing (EM 110-2- bil sample was gathered for OCD and will be held onsite (per discussions with Wayne) old API separator continues to be oil free (we are awaiting lab result from previous sampling) road Lagoon sampling is complete. All samples came back clean and the area will be backfilled next week 3 OCD Report Response was completed and mailed 9/27
	vations for the Boundary wells are completed and included in the 2003 OCD Response
. 10)∞An 	nual Groundwater sampling is underway this week on the OW wells next week on the SMW wells
	eekly sampling from aeration 2 into evap pond 1 (AL-2 to EP-1) will be taken 9/29
	Original Message
	From: James Romero
	Sent: Tuesday, September 20, 2005 10:06 AM To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm Cc: Ed Riege; Steve Morris; Johnny Sanchez
	Subject: RE: Weekly Reporting (Week Two)
	The following is a summary of week two:
	<ol> <li>Riley is continuing work on aeration lagoon 2         <ul> <li>Between 9/13/05 - 9/19/05 36 trucks of oily wastewater were removed from aeration lagoon 2</li> <li>Loads from the 55,000bbl tanks = 7/200bbl loads of sludge removed from tank and returned to process</li> </ul> </li> </ol>
	30 truck loads of water removed
	2) The wastewater line from the Pilot travel center failed causing a spill which was reported to OCD. During this time, all was from Pilot was diverted into pond 9. The pipe was fixed on 9/16 and flow was returned to lagoon 1. However, on 9/17 the pipe was fixed on 9/16 and flow was returned to lagoon 1. However, on 9/17 the pipe was fixed on 9/16 and flow was returned to lagoon 1. However, on 9/17 the pipe was fixed on 9/16 and flow was returned to lagoon 1. However, on 9/17 the pipe
	again which and repaired on 9/17. Again, flow was diverted into pond 9 until the repair was made. This was reported to OCC via telephone 9/19. Moreover, a new valve was installed at the Pilot diversion where flows are diverted into pond 9 or aeratic
	<ul> <li>3) The new chopper pump should arrive this week, however, a new control valve is needed which could delay installation by</li> <li>4) Weekly lab results were received for the week of 9/5/05 (sampling date 9/9/05) Benzene=ND, Toluene=ND, Ethybenzene=</li> </ul>
	Xylenes Total= 20ppb A complete report/lab results will be forward to OCD and NMED. Other weekly sampling dates are 9/12/05 and 9/21/05
	5) A conference call was held between OCD, NMED, Precision Engineering, and Giant to discuss the installation of two new was and and one boring. A report will be sent to OCD and NMED asking for concurrence of our plan prior to drilling.
	6) Excavation on the RR Lagoon was completed and additional soil samples were taken (lab results expected next week)
	Original Message
	From: James Romero
	Sent: Thursday, September 15, 2005 1:33 PM To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez
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	Wayne, the following is a summary of week one:
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	the source of the oil was the FCC unit storm drain. We've ordered absorbents to place in the storm drains 2) Between 9/8/05 thru 9/12/05 34 trucks of sludge and 8 trucks of water have been removed.

Evaporation pond one has been and (very little oil remaining) and all efformave been moved to aeration pond 2 ( attached pic)

3) Samples from the old API and aeration 2 into evap pond 1 have been taken and are at the lab

4) The diesel spill soil (25 cubic yards) has been moved to the land farm (see pic)

5) Water has been removed from the RR Lagoon. Fushe is onsite today excavating additional soil where sampling shc contamination. Aslo, they will back fill the area near the railroad due to concerns about stability of the RR line.

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8) As of today we have not received lab analysis for our weekly sample (Hope's weekly sample)

9) Butterfly valves have been installed on both stormwater basins

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] **Sent:** Friday, September 09, 2005 1:05 PM **To:** James Romero **Subject:** RE: Weekly Reporting

We will call you tuesday.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com] Sent: Fri 9/9/2005 1:07 PM To: Price, Wayne, EMNRD Subject: Weekly Reporting

Wayne, Lets plan on me getting our weekly to you every Wednesday.

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] **Sent:** Friday, September 09, 2005 11:55 AM **To:** James Romero **Subject:** RE: Spill Report (daily update for 8/

James, you may back off of the daily report and submit weekely until the emergency is over.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Tue 9/6/2005 9:52 AM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for Sept 2,3,4, and 5

I was out of the office on Friday for the holiday weekend. Below is a summary of the weekend activities

1) 58 trucks of wastewater/oilywater removed over the weekend

2) 400 barrels of slop oil was removed from east tank (55,000 barrel tank) and reintroduced

Well Clo	sure Report
	OW-2
Well Identificati	3-04 Water Depth at Closure: <u>30′6″</u>
505-523-7674	
	Ott Interval:to
ength of Perforated Casing:_2	20′_ft_Interval: <u>40′</u> _to <u>60′</u>
Length of Screen Extracted:	0ft interval:to
Well Diameter: $4''$ in Inte	
in Inte	erval:to in
	erval: to
Δ	erval:to
Gravel or Sand Pack Length:	10' ft Interval: $20'$ to $60'$
	ft Interval:to
	ft Interval:to
Estimated Sand/Gravel Pack Voi	id Ratio:
Estimated Total Well Volume (1 19.7 ft3	ncluding Sand/Gravel Pack:ft* Type:6% Bentonite/Cement
	Interval:0to <u>58'_3"</u>
	Tremmie Depth: 58' 3"
2) f+3	Туре:
( /	
	interval: to
, ,	Tremmie Depth:
3)ft <sup>3</sup>	Tremmie Depth: Type:
	Tremmie Depth: Type: Interval: to
· .	Tremmie Depth: Type: Interval: to Tremmie Depth:
· .	Tremmie Depth: Type: Interval: to
Total Grout Volume: <u>19.7</u> ft³	Tremmie Depth: Type: Interval:to Tremmie Depth: Crew Foreman:WHK
Total Grout Volume: <u>19.7</u> ft³ Notes:	Tremmie Depth: Type: Interval: to Tremmie Depth:
Total Grout Volume: <u>19.7</u> ft' Notes:	Tremmie Depth: Type: Interval: to Tremmie Depth: Crew Foreman:WHK

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Well	Identificat	ion:	OW-3	-		
	losure: 9-28		er Depth	at Clos	ure:_	33′7′
505-523-7674		0	•			
Length of Casing E						
ength of Perforate						
Length of Screen E Well Diameter:					_ to _	
	in Inte					
	in Inte		in			
	in Inte	erval:	+0			
Gravel or Sand Pack	4	0,' <sub>ft</sub>	Interval	. 26′	†0	66′
DIUVEI OF SANA MACH		f†	Interval	• <u> </u>	_ +o _	
		f+	Interval	•	_ +o _	
		++	Interval	;	+o _	<u> </u>
Estimated Sand/Grav	vel Pack Voi	id Ratic	. 0.35			
Estimated Total We				 Ovel Pc	ick•	++ <sup>3</sup>
Volume of Grout: 1	$19.4_{+3}$	Type:	6% Ben	tonite	e/Ce	ment
	·			<u></u>		
		Interv	ai: <u>0</u>	_ to	<u>66′</u>	
		Tremmi	e Depth:_	66′		
2	) f+ <sup>3</sup>					
2	) f+ <sup>3</sup>					
2	) f+ ³	Туре:_ 				
2	)f+³	Type:  Interv				
		Type: Interv Tremmi	al: e Depth:_	_ to		
	) f+ <sup>3</sup>	Type: Interv Tremmi	ai: e Depth:_	_ to		
		Type: Interv Tremmi Type:	al: e Depth:_	_ †o		
		Type: Interv Tremmi Type: Interv	al: e Depth:_	_ to _ to		
3	)f†³	Type: Interv Tremmi Type: Interv Tremmi	al: e Depth: al: e Depth:_	_ to _ to		
	)f†³	Type: Interv Tremmi Type: Interv Tremmi	al: e Depth: al: e Depth:_	_ to _ to		
3	) f+ <sup>3</sup>	Type: Interv Tremmi Type: Interv Tremmi Crew F	al: e Depth: al: e Depth: oreman:	_ to _ to _ W	H K	
3 Total Grout Volume	) f+ <sup>3</sup>	Type: Interv Tremmi Type: Interv Tremmi Crew F	al: e Depth: al: e Depth: oreman:	_ to _ to _ W	H K	

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ÉÉCIS/ON		
	Well Clos	sure Report
Well	Identificati	ion:
505-523-7674	Closure:	1-04 Water Depth at Closure: <u>5′9″</u>
	xtracted:	O _ft Interval: to
		20'_ft_Interval:_ <u>50'</u> _to70'
		0ft Interval:to erval:0to72'_3"
		erval:to in
		erval:to erval:to
	2	25' ft interval: 45' to 70'
Gravel or Sand Pac	k Length:——	ft Interval:to
		ft Interval:to
		ft Interval:to
Estimated Sand/Gro	vel Pack Voi	id Ratio: 0.35
Estimated Total We	II Volume (]	ncluding Sand/Gravel Pack: ft <sup>3</sup>
Volume of Grout: '	$) \frac{23.4}{1.4} + 3$	Type: 6% Bentonite/Cement
		Interval:0to <u>72'_3</u> "
		Tremmie Depth: 72' 3"
	2) f+ <sup>3</sup>	Туре:
		Interval:to
		Tremmie Depth:
	د ب ۲ د ب	Туре:
	))	
		Interval: to
		Tremmie Depth:
Total Grout Volum	e: <u>23.</u> 4 <sub>ft</sub> <sup>3</sup>	Crew Foreman:WHK
NOTES:		

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	on: 3-04 Water Depth at Closure:
505-523-7674 _ength of Casing Extracted:	10_ft_Interval:0to10
	20'_ft_Interval: <u>40'</u> _to <u>60'</u>
ength of Screen Extracted:	Oft Interval:to
Vell Diameter:in Inte	
	erval:to erval:to
in Inte	erval: to
4	0't Interval:to60'
	ft Interval:to
	ft Interval:to
	ft Interval:to
stimated Sand/Gravel Pack Voi	d Ratio: <u>0.35</u>
stimated Total Well Volume (I	ncluding Sand/Gravel Pack:ft
(olume of Grout: 1) $\frac{10 \cdot 0}{2}$ ft <sup>3</sup>	Type: 6% Bentonite/Cement
	Interval: 0 to 46′0″
	Tremmie Depth: <u>46'0"</u>
, , ,	Туре:
	Interval: to
	Tremmie Depth:
3)f+³	Туре:
	Interval: to
	Tremmie Depth:
Total Grout Volume: <u>16.0</u> ft <sup>3</sup>	Crew Foreman:WHK
Notes:	

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AFCISTO IN LL CL	
Well Clos	ure Report
Well Identificatio	
505-523-7674	-04 Water Depth at Closure: 22' 0"
Length of Casing Extracted:(	)ft Interval: to
Length of Perforated Casing: 20	<u>)'</u> ft Interval: <u>41'</u> to <u>61'</u>
Length of Screen Extracted:	)ftInterval:to -val:0to55′_1″
	rval:to rval:to
	val: to
Gravel or Sand Rack Longth: 3	3' ft Interval: <u>28'</u> to <u>61'</u>
	ft Interval:to
	ft Interval:to
	ft Interval:to
Estimated Sand/Gravel Pack Voic	d Ratio:0.35
Estimated Total Well Volume (In	ncluding Sand/Gravel Pack:ft3
Volume of Grout: 1) $\frac{22 \cdot 0}{4}$ ft <sup>3</sup>	Type: 6% Bentonite/Cement
	Interval:0 to _55′_1″
	Tremmie Depth: 55' 1"
2) f+ '	Туре:
	Interval:to
	Tremmie Depth:
	Туре:
J/	
	Interval: to
	Tremmie Depth:
Total Grout Volume: 22.0 ft 3	Crew Foreman:WHK
Nelses	

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	ure Report
	on: -04 Water Depth at Closure:_22'_0"
	0_ft Interval:0_to20_
Length of Screen Extracted:( Well Diameter:2" in Inter	
in Inter	-val:to -val:to -val:to t ft Interval:24′_0″to_46′_0″
	ft Interval:to ft Interval:to ft Interval:to
Estimated Sand/Gravel Pack Void	d Ratio: 0.35
Estimated Total Well Volume (]r Volume of Grout: 1) $\frac{8.5}{1}$ ft <sup>3</sup>	ncluding Sand/Gravel Pack:ft³ Type:6% Bentonite/Cement
	Interval: $0$ to $\frac{46'0''}{46'0''}$ Tremmie Depth:
2) ft <sup>3</sup>	Туре:
	Interval: to Tremmie Depth:
3) f+ <sup>3</sup>	Туре:
	Interval: to
Total Grout Volume: <u>8.5</u> ft³	Tremmie Depth: Crew Foreman:WHK
Notes:	

Well Closure Report
Well Identification:
$\frac{10-1-04}{\text{Water Depth at Closure:}} = \frac{8' 0''}{10}$
505-523-7674
Length of Casing Extracted: <u>20</u> ft Interval: <u>0</u> to <u>20</u>
Length of Perforated Casing: <u>20′</u> ft Interval: <u>24′</u> to <u>44′0</u> ″
Length of Screen Extracted: 0 ft Interval: to to
Well Diameter: $2''$ in Interval: $0 + 644' 0''$
in Interval:to in Interval:to
in Interval: to
Gravel or Sand Pack Length: $\frac{22'}{0}$ of the Interval: $\frac{22'}{0}$ of the Uniterval: $\frac{22'}{$
Gravel or Sand Pack Length: ft Interval: to
ft Interval:to
ft Interval:to
Estimated Sand/Gravel Pack Void Ratio: 0.35
Estimated Total Well Volume (Including Sand/Grave) Pack: ft <sup>3</sup>
Volume of Grout: 1)ft³ Type:6% Bentonite/Cement
Interval: $0$ to $\frac{44'}{44'}$ 0"
Tremmie Depth:44 0
2) ft 3 Type:
Interval: to
Tremmie Depth:
3)ft 3 Type:
Interval:to
Tremmie Depth:
Total Grout Volume: 8.6 ft Crew Foreman: WHK
Notes:20 feet of screen

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Well Closure Report
Well Identification: RING: Date of Closure: $\frac{10-1-04}{10-1-04}$ Water Depth at Closure: $\frac{31'}{3''}$ 505-523-7674
Length of Casing Extracted: 20 ft Interval: 0 to 20
Length of Perforated Casing: $20'$ ft Interval: $52' 6''_{to} 72' 6''_{to}$
Length of Screen Extracted: 0 ft Interval: to
Well Diameter: $2''$ in Interval: $0 + 672' 6''$
in Interval:to
in Interval: to
in Interval:to 22'_0"50'_6"
Gravel or Sand Pack Length: $\frac{22'}{0}$ ft interval: $\frac{50'}{6}$ ft $\frac{72'}{6}$
ft Interval:to
ft Interval:to
0.35
Estimated Sand/Gravel Pack Void Ratio: 0.35
Estimated Total Well Volume (Including Sand/Gravel Pack:ft <sup>3</sup> Volume of Grout: 1)ft <sup>3</sup> Type:6% Bentonite/Cement
Volume of Grout: 1) ++* Type:
Interval: $0$ to $72^{\prime}6^{\prime\prime}$
Tremmie Depth:72'_6"
2)ft <sup>3</sup> Type:
Interval: to
Tremmie Depth:
3)f+3 Type:
Interval: +o
Tremmie Depth:
Total Grout Volume: 10.7 ft3 Crew Foreman:WHK
TOTOL BLOUT VOLUMETI CLOW FOLEMON
Notes:
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# Spill Report

# Chavez, Carl J, EMNRD

From:	Chavez, Carl J, EMNRD
Sent:	Tuesday, September 27, 2005 8:40 AM
То:	'James Romero'
0	. DE: Ciniza Definent, Dit Liner & Codiment Dermachility 7

Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Of the 3 test methods proposed, the EM 1110-2-1906 Laboratory Soils Test is preferred; since the ASTM D5084 Method may results in lower hydraulic conductivity data results due to the increased confining stress and consolidation of the sample during this test. The EM 1110-2-1906 is consistent with standard hydrogeology methods. Thnx.

1) **ASTM D5084, Standard Test Method** for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter. This test method covers laboratory measurement of the hydraulic conductivity of water-saturated porous materials with a flexible-wall permeameter. This test method may be used with undisturbed or compacted soil specimens that have a hydraulic conductivity less than or equal to 5 x 102 cm/s (fine soils / clays).

"steady state hydraulic conductivity decreases by over two orders of magnitude for an increase in the effective confining stress from 35 kPa to 140 kPa, which results in consolidation of the sample and lower hydraulic conductivity data results"

## 2) D3385-03 Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer

## 1. Scope

1.1 This test method describes a procedure for field measurement of the rate of infiltration of liquid (typically water) into soils using double-ring infiltrometer.

1.2 Soils should be regarded as natural occurring fine or coarse-grained soils or processed materials or mixtures of natural soils and processed materials, or other porous materials, and which are basically insoluble and are in accordance with requirements of 1.5.

1.3 This test method is particularly applicable to relatively uniform fine-grained soils, with an absence of very plastic (fat) clays and gravel-size particles and with moderate to low resistance to ring penetration.

1.4 This test method may be conducted at the ground surface or at given depths in pits, and on bare soil or with vegetation in place, depending on the conditions for which infiltration rates are desired. However, this test method cannot be conducted where the test surface is below the ground water table or perched water table.

1.5 This test method is difficult to use or the resultant data may be unreliable, or both, in very pervious or impervious soils (soils

with a hydraulic conductivity greater than about 10<sup>-2</sup> cm/s or less than about 1 X 10<sup>-6</sup> cm/s) or in dry or stiff soils that most likely

will fracture when the rings are installed. For soils with hydraulic conductivity less than 1 X 10<sup>-6</sup> cm/s refer to Test Method D 5093.

1.6 This test method cannot be used directly to determine the hydraulic conductivity (coefficient of permeability) of the soil (see 5.2).

## 3) EM 1110-2-1906 Laboratory Soils Testing

http://www.usace.army.mil/inet/usace-docs/eng-manuals/em1110-2-1906/toc.htm

http://www.usace.army.mil/inet/usace-docs/eng-manuals/em1110-2-1906/a-VII.pdf

# Spill Report



Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 4:41 PM
To: Chavez, Carl J, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl:

How about we use ASTM D-5084 hydraulic conductivity by the flex wall membrane method? Its sensitive to 10-11

----Original Message----From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 3:28 PM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

It is your responsibility to run the permeability test and OCD wanted a sample for visual observation only. Perhaps a wide mouth sample jar would suffice. Acceptable OCD permeability test methods are provided below.

ASTM D-3385 Infiltrometer Method Field Permeability Test EM-1110-2-1906 Appendix VII Permeability Test Corps of Engineers Manual: Laboratory Permeability Test

Regarding leak detection systems, Section F of OCD's Pit Guidance is provided below and may provide some ideas

# F. PIT LEAK DETECTION SYSTEMS

for Ciniza's leak detection system.

1. Leak detection systems may consist of fail-safe electric detection systems or drainage and collection systems.

2. If an electric grid detection system is used, provision must be made for adequately testing all components to ensure the system remains functional.

3. If a drainage and collection system is used, a network of slotted or perforated drainage pipes will be installed between the primary and secondary liners. The network must be of sufficient density so that no point in the pit bed is more than twenty feet (20') from such drainage pipe or lateral thereof. The material

(12") per hundred feet (100'). The slope of the pit bed must also conform to these values to assure fluid flow towards the leak detection system. The drainage pipe will convey liquids to a corrosion-proof collection system located outside the perimeter of the pit (see Figure 2).

Page 3 of 9

4. Double lined disposal and storage pits constructed with synthetic liners shall be designed to allow slippage between the primary and secondary liner as the weight of fluid in the pit causes movement in the primary liner.

If the permeability test confirms clay of adequately low permeability, the low permeability clay will suffice as the secondary containment barrier with the leak detection system designed above it followed by the liner. For diagrams on keying or positioning the liner, vent system design, go to http://www.emnrd.state.nm.us/ocd/ and click on "Publications" and "Environmental Handbook" to view pit design diagrams.

Also, there was some guidance in the spreadsheet sent to you that you may be able to locate via Google below:

SW-870 Lining of Waste Impoundment Facilities Vent designs

I hope this helps. Thanks.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 4:02 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl:

Since the permeability tests needs to be completed before the sample looses any moisture, how and where would OCD like us to handle their soil sample? Wayne mentioned for us to hold the sample until his next visit, however, at that point the sample may not be valid for permeability testing. Let us know if you want us to rush the sample to your office or lab.

-----Original Message----From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 1:57 PM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Mr. Price may have misunderstood your request for a depth of clay sample to conduct a permeability test for hydraulic conductivity. Based on your note, it appears that clay is present from surface to a significant depth below the FWP. For clarification, the depth of the permeability sample

## Spill Report

requested should be commensurate to 3 feet beneath the bottom of the FWP. OCD requested that the boring be cored and logged to at least 15 feet to document the consistency of clay lithology at the FWP.

Regarding the RO reject water, OCD knows that the quality (general chemistry/inorganic parameters) of the RO reject water will not be **constant** during normal operations. OCD is puzzled by the low chloride concentration in Ciniza's RO reject water analytical data, since elevated levels would be expected during the regeneration of the water softeners. OCD has determined that elevated chloride levels from the water softener will be present in the RO reject water during normal refinery operations. In addition, the WQCC Standard for Sulfate is 600 ppm, and RO reject water analytical data showed a concentration at 2,500 ppm. Consequently, a leak detection system is required.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 1:16 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

#### Carl:

I wanted to clarify the depths of clay for everyone. The 23-28' clay layer discussed with Wayne was in regards to his clay sample which he requested during your visit. We needed to know at what depth to take his sample.

According to Bill, the clay layer is 23.5' thick (surface to top of Chinle formation) with the Sonsela at 98.2'. We'll forward the boring logs when they are completed by Precision Engineering. Also, you stated OCD had a concern the RO water does not meet WQCC standards. We had the RO water lab tested on August 24, 2005 and the results were ND. OCD and NMED were sent copies of these results via our August 31, 2005 letter. If you need me to forward the lab analysis to you let me know and I will get you a copy. Given this should we proceed with developing leak detection?

-----Original Message----From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 10:59 AM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Re: Proposed Fire Water Pond (FWP)

Good morning. As I recall from our September 8, 2005 meeting (meeting), Mr. Wayne Price of the Oil Conservation Division (OCD) had suggested a specification for the liner; however, the OCD expectation is that Ciniza will justify and reference any technical specifications proposed for the construction of the FWP. Due to the nature of the RO water, OCD is concerned that it does not meet WQCC standable, thus, justifying the need for leak detection. At the time of the meeting, OCD had viewed the substrate beneath the Ciniza Refinery to be clay of low permeability. However, during today's telephone conversation with Mr. Price, you indicated that the top of clay is present at a depth of about 28 feet below the recently drilled test boring ground elevation near the FWP. OCD needs to view the boring log to confirm your verbal indication that the clay is in fact present at a significant depth below the FWP. If it is confirmed, then OCD will require a double liner w/ leak detection design (please refer to OCD's pit guidance for general construction configurations). A double liner system should also help to prevent any mounding effect(s) from recharge and infiltration from FWP water to the water table. Mounding may alter the direction of groundwater flow relative to the existing groundwater monitoring system? Please send OCD and the New Mexico Environment Department (NMED), Hazardous Waste Bureau a copy of the boring log.

From the meeting, OCD agreed to provide some surface impoundment or general guidance (see attachment) to assist Ciniza with the construction of the FWP. I notice that the only OCD guidance available is "OCD Pit and Below-Grade Tank Guidelines (Nov. 1, 2004)." There is also reference to SW-870 Guidance in the attachment, which may also provide useful ideas to Ciniza for selecting and keying in the liners with a leak detection system. There is also permeability test references to assist with the boring permeability test requested near the FWP.

I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3491 Fax: (505) 476-3462 E-mail: Carl J. Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 9:39 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl,

Thanks for the information, I'm in the process of estimating costs for the new pond. Can you let me know what mil of liner OCD will be ok with?

-----Original Message----- **From:** Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us] **Sent:** Wednesday, September 21, 2005 12:03 PM **To:** James Romero **Cc:** smorris@giant.com; Eriege@giant.com; Price, Wayne, EMNRD **Subject:** RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Good afternoon. I believe Giant was requesting guidance for pit construction for the proposed Fire Water Pit and liner (see attachment with hyper links to OCD Pit guidance). Also, there is a OCD specified permeability test to be run on the boring near the proposed Fire Water Pit. I hope this helps. Please contact me if you have questions. Thanks.



Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Friday, September 16, 2005 2:27 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

-----Original Message----From: Price, Wayne, EMNRD
[mailto:wayne.price@state.nm.us]
Sent: Friday, September 09, 2005 2:33 PM
To: James Romero; Monzeglio, Hope, NMENV;
foust.denny@state.nm.us; Chavez, Carl J, EMNRD;
cobrain.david@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Thanks James for you quick response.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

Fax: 505-4763462 of magnitude for an increase in the effective confining stress from 35 kPa to 140 kPa. For soil

specimens, in **Erem**elanesheetiveitonitonifmerometass cambause consolidation of the specimens, Sent: Fri 9/9/2005 2:38 PM To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope,

which in turn Maden v fouse ductive state Xfinals is chave u can be used using the state of the

Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install

(1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.

(2) We have taken samples from the old API separator and will rush the analysis
(3) We have taken Hope's weekly sample, added MTBE, and will also be rushed
(4) We purchased and rushed ordered boom to install in pond 2

(4) We have began discussions with Precision regarding new wells

(5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

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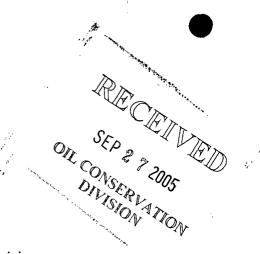
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ROUTE 3 BOX 7 GALLUP NEW MEXICO 87301

PHONE 505-722-3833 INTERNET WWW.GIANT.COM

September 26, 2005

Mr. Wayne Price New Mexico Oil Conservation Division 1220 South Street Francis Drive Santa Fe, NM 87505

Re: Email Clarification

Dear Mr. Price:

In an email dated September 15, 2005 from James Romero he had indicted that Giant has experienced intermittent discharges of oil into our ponds mainly from problems with the old API separator. The "prior discharges of oil" James referred to was limited to carry through associated with infrequent unit upsets/large storm events resulting in increased oil/water reporting to the separator. The carry through of oil was then captured primarily from aeration lagoon #1 and on occasion minor carry over to lagoon #2 and recovered for processing.

The new separator was sized and designed to handle any increased surges of oil to the separator. The storm water system was then isolated from the process sewer system. The problems associated with the new separator relate to plugging of the pump and is being addressed by the installation of a new chopper pump.

If you have any questions regarding this clarification please contact me at (505) 722-0217.

Sincerely,

Ed Riege Environmental Superintendent

C: Carl Chavez OCD Hope Monzeglio NMED David Kirby Ed Rios James Romero Steve Morris



# COVER LETTER

September 26, 2005

Steve Morris Giant Refining Co Rt. 3 Box 7 Gallup, NM 87301 TEL: (505) 722-0258 FAX (505) 722-0210

RE: RR Rock Lagoon Add. Exc. 9/15/05

Order No.: 0509181

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 7 samples on 9/19/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109 505.345.3975 ■ Fax 505.345.4107 www.halfenvironmental.com

# Hall Environmental Analysis Laboratory

CLIENT:	Giant Refining Co		Client Sample ID: RR-1A-91505						
Lab Order:	0509181			Collection Date: 9/15/2005 2:30:00 PM					
Project:	RR Rock Lagoon Ad	d. Exc. 9/15/05	Exc. 9/15/05						
Lab ID:	0509181-01				Μ	latrix:	SOIL		
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed	
EPA METHOD	8015B: DIESEL RANGE	ORGANICS						Analyst: SCC	
Diesel Range (	Organics (DRO)	210	10		mg/Kg		1	9/22/2005 11:24:47 AM	
Motor Oil Rang	e Organics (MRO)	ND	50		mg/Kg		1	9/22/2005 11:24:47 AM	
Surr: DNOP		106	60-124		%REC		1	9/22/2005 11:24:47 AM	
EPA METHOD	8260B: VOLATILES SH	ORT LIST						Analyst: BDH	
Methyl tert-buty	yl elher (MTBE)	ND	0.050		mg/Kg		1	9/24/2005	
Benzene		ND	0.050		mg/Kg		1	9/24/2005	
Toluene		ND	0.050		mg/Kg		1	9/24/2005	
<b>—</b>		ND	0.050		mg/Kg		1	9/24/2005	
Ethyibenzene									
Ethylbenzene Xylenes, Total		ND	0.050		mg/Kg		1	9/24/2005	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level 1/26
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

Page 1 of 7

Hall Envir	onmental Analysi	is Labora	Date: 26-Sep-05						
CLIENT:	Giant Refining Co			Client Sample ID: RR-2A-91505					
Lab Order:	0509181				<b>Collection Date</b>	9/15/2	005 2:35:00 PM		
Project:	RR Rock Lagoon Add	. Exc. 9/15/05	5						
Lab ID:	0509181-02				Matrix	SOIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	B015B: DIESEL RANGE	ORGANICS					Analyst: SCC		
Diesel Range O	rganics (DRO)	130	10		mg/Kg	1	9/22/2005 11:57:56 AM		
Motor Oil Range	Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 11:57:56 AM		
Surr: DNOP		107	60-124		%REC	1	9/22/2005 11:57:56 AM		
EPA METHOD 8	3260B: VOLATILES SHO	RT LIST					Analyst: BDH		
Methyl tert-butyl	ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005		
Benzene		ND	0.050		mg/Kg	1	9/24/2005		
Toluene		ND	0.050		mg/Kg	1	9/24/2005		
Ethylbenzene		ND	0.050		mg/Kg	1	9/24/2005		
Xylenes, Total		ND	0,050		mg/Kg	1	9/24/2005		
Surr: 4-Bromo	ofluorobenzene	97.4	86.2-120		%REC	1	9/24/2005		

## Hall Environmental Analysis Laboratory

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Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level 2/26
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

Page 2 of 7

Hall Environmental Analysis Laboratory					Date: 26-Sep-05				
CLIENT:	Giant Refining Co	ستنقير والمتعالية		Client Sample ID: RR-3A-91505					
Lab Order:	0509181				Collecti	on Date:	9/15/20	005 2:40:00 PM	
Project:	RR Rock Lagoon Add	. Exc. 9/15/05	5						
Lab ID:	0509181-03					Matrix:	SOIL		
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed	
EPA METHOD	EPA METHOD 8015B: DIESEL RANGE ORGANICS							Analyst: SCC	
Diesel Range C	Organics (DRO)	ND	10		mg/Kg		1	9/22/2005 12:31:01 PM	
Motor Oil Rang	e Organics (MRO)	ND	50		mg/Kg		1	9/22/2005 12:31:01 PM	
Sur: DNOP		109	60-124		%REC		1	9/22/2005 12:31:01 PM	
EPA METHOD	8260B: VOLATILES SHO	ORT LIST						Analyst: BDH	
Methyl tert-buty	/I ether (MTBE)	ND	0.050		mg/Kg		1	9/24/2005	
Benzene		ND	0.050		mg/Kg		1	9/24/2005	
Toluene		ND	0.050		mg/Kg		1	9/24/2005	
Ethyibenzene		ND	0.050		mg/Kg		1	9/24/2005	
Xylenes, Total		ND	0.050		mg/Kg		1	9/24/2005	
Surr: 4-Brorr	ofluorobenzene	113	86.2-120		%REC		1	9/24/2005	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 3 / 26

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

Hall Environmental Analysis Laboratory					Date: 26-Sep-05				
CLIENT:	Giant Refining Co			Client Sample ID: RR-4A-91505					
Lab Order:	0509181				<b>Collection Date</b>	: 9/15/2	005 2:45:00 PM		
Project:	RR Rock Lagoon Add	. Exc. 9/15/05							
Lab ID:	0509181-04				Matrix	: 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	9/22/2005 1:04:05 PM		
Motor Oil Rang	e Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 1:04:05 PM		
Surr: DNOP		101	60-124		%REC	1	9/22/2005 1:04:05 PM		
EPA METHOD	8260B: VOLATILES SHO	RT LIST					Analyst: BDH		
Methyl tert-buty	/l ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005		
Benzene		ND	0.050		mg/Kg	1	9/24/2005		
Toluene		ND	0.050		mg/Kg	1	9/24/2005		
Elhylbenzene		ND	0.050		mg/Kg	1	9/24/2005		
Xylenes, Total		ND	0.050		mg/Kg	1	9/24/2005		
Surr: 4-Brom	ofluorobenzene	119	86.2-120		%REC	1	9/24/2005		

Qualifiers:

£

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 4 / 26

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 4 of 7

Han Envi	onnental Analys		.01 y							
CLIENT:	Giant Refining Co			Client Sample ID: RR-5A-91505						
Lab Order:	0509181				Collectio	on Date:	9/15/20	)05 2:50:00 PM		
Project:	RR Rock Lagoon Add	i. Exc. 9/15/05								
Lab ID:	0509181-05					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		mg/Kg		1	9/22/2005 1:37:09 PM		
Motor Oil Rang	e Organics (MRO)	ND	50		mg/Kg		1	9/22/2005 1:37:09 PM		
Sur: DNOP		102	60-124		%REC		1	9/22/2005 1:37:09 PM		
EPA METHOD	8260B: VOLATILES SHO	ORT LIST						Analyst: BDH		
Methyl tert-buty	/I ether (MTBE)	ND	0.050		mg/Kg		1	9/24/2005		
Benzene		ND	0.050		mg/Kg		1	9/24/2005		
Toluene		ND	0.050		mg/Kg		1	9/24/2005		
Ethylbenzene		ND	0.050		mg/Kg		1	9/24/2005		
Xylenes, Total		ND	0.050		mg/Kg		1	9/24/2005		
Surr: 4-Brom	nofluorobenzene	110	86,2-120		%REC		1	9/24/2005		

## Hall Environmental Analysis Laboratory

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 5 / 26

S - Spike Recovery outside accepted recovery limits

Date: 26-Sep-05

R - RPD outside accepted recovery limits

E - Value above quantitation range

Page 5 of 7

Hall Environmental Analysis Laboratory					Date: 26-Sep-05						
CLIENT:	CLIENT: Giant Refining Co					Client Sample ID: RR-6A-91505					
Lab Order:	0509181				Collectio	n Date:	9/15/20	005 2:55:00 PM			
Project:	RR Rock Lagoon Add	. Exc. 9/15/05									
Lab ID:	0509181-06				Ì	Matrix:	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	9/22/2005 2:10:14 PM			
Motor Oil Rang	e Organics (MRO)	ND	50		mg/Kg		1	9/22/2005 2:10:14 PM			
Surr: DNOP		101	60-124		%REC		1	9/22/2005 2:10:14 PM			
EPA METHOD	8260B: VOLATILES SHO	RT LIST						Analyst: BDH			
Methyl tert-buty	yl ether (MTBE)	ND	0.050		mg/Kg		1	9/24/2005			
Benzene		ND	0.050		mg/Kg		1	9/24/2005			
Toluene		ND	0.050		mg/Kg		1	9/24/2005			
Ethylbenzene		ND	0.050		mg/Kg		1	9/24/2005			
Xylenes, Total		ND	0.050		mg/Kg		1	9/24/2005			
Surr. 4-Brom	nolluorobenzene	90.5	86.2-120		%REC		1	9/24/2005			

Qualifiers:

÷

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level 6/26 S - Spike Recovery outside accepted recovery limits

- R RPD outside accepted recovery limits
- E Value above quantitation range

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Hall Envir	Hall Environmental Analysis Laboratory					7 Date: 26-Sep-05					
CLIENT:	Giant Refining Co			Client Sample ID: RR-7A-91505							
Lab Order:	0509181				Collection I	Date: 9/15/2	2005 3:00:00 PM				
Project:	RR Rock Lagoon Add	i. Exc. 9/15/05									
Lab ID:	0509181-07				Ma	trix: SOIL					
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed				
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: SCC				
Diesel Range (	Organics (DRO)	ND	10		mg/Kg	1	9/22/2005 3:16:27 PM				
Motor Oil Rang	je Organics (MRO)	ND	50		mg/Kg	1	9/22/2005 3:16:27 PM				
Surr. DNOP		104	60-124		%REC	1	9/22/2005 3:16:27 PM				
EPA METHOD	8260B: VOLATILES SHO	ORT LIST					Analyst: BDH				
Methyl tert-buty	yl ether (MTBE)	ND	0.050		mg/Kg	1	9/24/2005				
Benzene		ND	0.050		mg/Kg	1	9/24/2005				
Toluene		ND	0.050		mg/Kg	1	9/24/2005				
Ethylbenzene		ND	0.050		mg/Kg	1	9/24/2005				
Xylenes, Total		ND	0.050		mg/Kg	1	9/24/2005				
Surr: 4-Bron	nofluorobenzene	104	86.2-120		%REC	1	9/24/2005				

### Hall Environmental Analysis Laboratory

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

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### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque **Project:** Lab ID: B05091262-001 Client Sample ID: RR-1A-91505, 0509181-01B

Report Date: 09/23/05 Collection Date: 09/20/05 14:30 Date Received: 09/20/05 Matrix: Soil

	MCL/									
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By				
PHYSICAL CHARACTERISTICS										
Moisture	7.6	wt%		0.01	SW3550A	09/22/05 13:31 / mwc				
SEMI-VOLATILE ORGANIC COMPOL										
1,2,4-Trichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
1.2-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
1,3-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
1,4-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
1-Methylnaphthalens	0.29	mg/kg	J	0.33	SW8270C	09/22/05 15:01 / dsm				
2,4,5-Trichlorophenol	ND	mg/kg	•	0.33	SW8270C	09/22/05 15:01 / dsm				
2,4,6-Trichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
2,4-Dichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
2,4-Dimethylphenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
2,4-Dinitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 15:01 / dsm				
2,4-Dinitrotoluene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
2.6-Dinitrotoluene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
2-Chloronaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
2-Chlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
2-Methylnaphthalene	0.069	mg/kg	J	0.33	SW8270C	09/22/05 15:01 / dsm				
2-Metryinaphthatene 2-Nitrophenol	ND	mg/kg	J	0.33	SW8270C	09/22/05 15:01 / dsm				
3,3°-Dichlorobenzidine	ND	mg/kg		0.67	SW8270C	09/22/05 15:01 / dsm				
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7	SW8270C	09/22/05 15:01 / dsm				
	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
4-Bromophenyl phenyl elher 4-Chloro-3-methylphenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
4-Chlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
	ND			1.7	SW8270C	09/22/05 15:01 / dsm				
4-Nitrophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Acenaphthene		mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Acenaphthylene	ND	mg/kg		0.33	SW8270C					
Anthracene	ND	mg/kg				09/22/05 15:01 / dsm				
Azobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Benzidine	ND	mg/kg		0.67	SW8270C	09/22/05 15:01 / dsm				
Benzo(a)anthracene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Benzo(a)pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Benzo(b)fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Benzo(g,h,i)perylene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Benzo(k)fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33	SWB270C	09/22/05 15:01 / dsm				
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33	SWB270C	09/22/05 15:01 / dsm				
bis(2-chlorolsopropyl)Ether	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Butylbenzylphthalate	ND	mg/kg		0.33	SW8270C	09/22/05 15:01 / dsm				
Chrysene	0.058	mg/kg	J	0.33	SW8270C	09/22/05 15:01 / dsm				

RL - Analyte reporting limit. Report Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-001 Client Sample ID: RR-1A-91505, 0509181-01B Report Date: 09/23/05 Collection Date: 09/20/05 14:30 Date Received: 09/20/05 Matrix: Soil

	MCL/									
Analyses	Result	Units	Qual RL (	QCL Me	thod	Analysis Date / B				
SEMI-VOLATILE ORGANIC COMF	OUNDS									
Dibenzo(a,h)anthracene	ND	mg/kg	0.33	SV	V8270C	09/22/05 15:01 / dsr				
Diethyl phthalate	ND	mg/kg	0.33	SV	V8270C	09/22/05 15:01 / dsr				
Dimethyl phthalate	ND	mg/kg	0.33	SV	V8270C	09/22/05 15:01 / dsr				
Di-n-butyl phthalate	ND	mg/kg	0.33	SV	V8270C	09/22/05 15:01 / dsr				
Di-n-octyl phthalate	ND	mg/kg	0.33	SV	V8270C	09/22/05 15:01 / dsr				
Fluoranthene	ND	mg/kg	0.33	SV	N8270C	09/22/05 15:01 / ds/				
Fluorene	ND	mg/kg	0.33	SV	V8270C	09/22/05 15:01 / dsi				
Hexachlorobenzene	ND	mg/kg	0.33	SV	V8270C	09/22/05 15:01 / ds/				
Hexachlorobuladiene	ND	mg/kg	0.33	SV	V8270C	09/22/05 15:01 / dst				
Hexachlorocyclopentadiene	ND	mg/kg	0.67	SV	N8270C	09/22/05 15:01 / ds				
Hexachloroethane	ND	mg/kg	0.33	SV	N8270C	09/22/05 15:01 / ds				
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.33	SV	VB270C	09/22/05 15:01 / ds				
Isophorone	ND	mg/kg	0.33	SV	N8270C	09/22/05 15:01 / ds				
m+p-Cresols	ND	mg/kg	0.33	SV	N8270C	09/22/05 15:01 / ds				
Naphthalene	ND	mg/kg	0.33	SV	N8270C	09/22/05 15:01 / ds				
Nitrobenzene	ND	mg/kg	0.33	S	N8270C	09/22/05 15:01 / ds				
n-Nitrosodimethylamine	ND	mg/kg	0.33	SV	N8270C	09/22/05 15:01 / ds				
n-Nitroso-di-n-propylamine	ND	mg/kg	0.33	SV	N8270C	09/22/05 15:01 / ds				
n-Nitrosodiphenylamine	ND	mg/kg	0.33	SI	N8270C	09/22/05 15:01 / ds				
o-Cresol	ND	mg/kg	0,33	51	NB270C	09/22/05 15:01 / ds				
Penlachlorophenol	ND	mg/kg	1.7	SI	N8270C	09/22/05 15:01 / ds				
Phenanthrene	1.6	mg/kg	0.33	S)	N8270C	09/22/05 15:01 / ds				
Phenol	ND	mg/kg	0.33	5\	N8270C	09/22/05 15:01 / ds				
Pyrene	ND	mg/kg	0.33	S	N8270C	09/22/05 15:01 / ds				
Pyridine	ND	mg/kg	0.67	S	N8270C	09/22/05 15:01 / ds				
Surr: 2,4,6-Tribromophenol	114	%REC		19-122 S\	N8270C	09/22/05 15:01 / ds				
Surr: 2-Fluorobiphenyl	82.4	%REC		30-115 SI	N8270C	09/22/05 15:01 / ds				
Surr: 2-Fluorophenol	81.5	%REC		25-121 S	W8270C	09/22/05 15:01 / ds				
Surr. Nitrobenzene d5	75.1	%REC		23-120 SI	W8270C	09/22/05 15:01 / ds				
Sur: Phenol-d5	83.0	%REC		24-113 SI	W8270C	09/22/05 15:01 / ds				
Surr. Terphenyl-d14	102	%REC		18-137 SI	W8270C	09/22/05 15:01 / ds				

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



#### LABORATORY ANALYTICAL REPORT

**Client:** Hall Environmental-Albuquerque **Project:** Lab ID: B05091262-002 Client Sample ID: RR-2A-91505, 050981-2B

Report Date: 09/23/05 Collection Date: 09/15/05 14:35 Date Received: 09/20/05 Matrix: Soil

_	MCL/									
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By				
PHYSICAL CHARACTERISTICS										
Moisture	7.9	wl%		0.01	SW3550A	09/22/05 13:31 / mwd				
SEMI-VOLATILE ORGANIC COMPOU	NDS									
1.2.4-Trichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
1,2-Dichlorobenzena	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
1,3-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
1,4-Dichlorobenzene	ND	mg/kg		0.33	SWB270C	09/22/05 15:44 / dsm				
1-Methylnaphthalene	0.13	mg/kg	J	0.33	SW8270C	09/22/05 15:44 / dsm				
2,4,5-Trichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
2,4,6-Trichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
2,4-Dichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
2,4-Dimethylphenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
2,4-Dinitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 15:44 / dsm				
2,4-Dinitrololuene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
2,6-Dinitrololuene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
2-Chloronaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
2-Chlorophenol	ND	mg/kg		0,33	SW8270C	09/22/05 15:44 / dsm				
2-Methyinaphthalene	0.11	mg/kg	J	0,33	SW8270C	09/22/05 15:44 / dsm				
2-Nilrophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
3,3'-Dichlorobenzidine	ND	mg/kg		0.67	SW8270C	09/22/05 15:44 / dsm				
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7	SW8270C	09/22/05 15:44 / dsm				
4-Bromophenyl phenyl elher	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
4-Chloro-3-methylphenol	ND	mg/kg		0,33	SW8270C	09/22/05 15:44 / dsm				
4-Chlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
4-Chlorophenyl phenyl ether	ND	mg/kg		0,33	SW8270C	09/22/05 15:44 / dsm				
4-Nitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 15:44 / dsm				
Acenaphthene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Acenaphthylene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Anthracene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Azobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Benzidine	ND	mg/kg		0.67	SW8270C	09/22/05 15:44 / dsm				
Benzo(a)anthracene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Benzo(a)pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Benzo(b)fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Benzo(g,h,i)perylene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Benzo(k)iluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
bis(2-chloraisopropyl)Ether	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
bis(2-elhylhexyl)Phihalale	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Butylbenzylphthalate	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				
Chrysene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm				

Report RL - Analyte reporting limit. Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-002 Client Sample ID: RR-2A-91505, 050981-2B Report Date: 09/23/05 Collection Date: 09/15/05 14:35 Date Received: 09/20/05 Matrix: Soil

				MC	L/	ng milit der franzense versenen er men vers vers vers franzense fra en er er er en der den den er er
Analyses	Result	Units	Qual	RL QC	L Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS					
Dibenzo(a,h)anthracene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Diethyl phihalate	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Dimethyl phthalate	ND	mg/kg		0.33	SWB270C	09/22/05 15:44 / dsm
Di-n-butyl phthalate	0.13	mg/kg	J	0.33	SW8270C	09/22/05 15:44 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Fluorene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Hexachlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67	SW8270C	09/22/05 15:44 / dsm
Hexachloroethane	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Isophorone	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
m+p-Cresols	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Naphthalene	0.043	mg/kg	L	0.33	SW8270C	09/22/05 15:44 / dsm
Nitrobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
o-Cresol	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Pentachlorophenol	ND	mg/kg		1.7	SW8270C	09/22/05 15:44 / dsm
Phenanthrene	0,16	mg/kg	J	0.33	SW8270C	09/22/05 15:44 / dsm
Phenol	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 15:44 / dsm
Pyridine	ND	mg/kg		0.67	SW8270C	09/22/05 15:44 / dsm
Surr: 2,4,6-Tribromophenol	95.0	%REC		1!	9-122 SW8270C	09/22/05 15:44 / dsm
Surr: 2-Fluorobiphenyl	77.5	%REC		3(	0-115 SW8270C	09/22/05 15:44 / dsm
Surr: 2-Fluorophenol	84.0	%REC		2	5-121 SW8270C	09/22/05 15:44 / dsm
Surr. Nitrobenzene-d5	74.9	%REC		2	3-120 SW8270C	09/22/05 15:44 / dsm
Surr: Phenol-d5	84.0	%REC		2	4-113 SW8270C	09/22/05 15:44 / dsm
Surr: Terphenyl-d14	91.9	%REC		1	B-137 SW8270C	09/22/05 15:44 / dsm

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

 ${\bf J}$  - Estimated value. The analyte was present but less than the reporting limit.







#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-003 Report Date: 09/23/05 Collection Date: 09/15/05 14:40 Date Received: 09/20/05 Matrix: Soil

Client Sample ID: RR-3A-91505, 0509181-3B

				MCL/		
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS						
Moisture	11	wt%		0.01	SW3550A	09/22/05 13:32 / mwd
SEMI-VOLATILE ORGANIC COMPO	UNDS					
1,2,4-Trichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsπ
1.2-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
1.3-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
1,4-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
1-Methylnaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
2,4,6-Trichlorophenal	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
2,4-Dimelhylphenal	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 16:27 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
2-Chloronaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
2-Chlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
2-Methylnaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
2-Nilrophenol	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
3,3'-Dichlorobenzidine	ND	mg/kg		0.67	SW8270C	09/22/05 16:27 / dsn
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7	SWB270C	09/22/05 16:27 / dsn
4-Bromophenyi phenyi ether	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
4-Chloro-3-methyiphenoi	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
4-Chiorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
4-Nitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 16:27 / dsn
Acenaphihene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
Acenaphthylene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
Anthracene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
Azobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
Benzidine	ND	mg/kg		0.67	SW8270C	09/22/05 16:27 / dsn
Benzo(a)anthracene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
Benzo(a)pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
Benzo(b)fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
Benzo(g,h,i)perylene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
Benzo(k)fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr
Butylbenzylphthalate	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsn
Chrysene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsr

ReportRL - Analyte reporting limit.Definitions:QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-003 Client Sample ID: RR-3A-91505, 0509181-3B Report Date: 09/23/05 Collection Date: 09/15/05 14:40 Date Received: 09/20/05 Matrix: Soil

				MC	L/	
Analyses	Result	Units	Qual	RL QC	L Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS					
Dibenzo(a,h)anlhracene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Diethyl phthalate	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Dimethyl phthalate	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Di-n-butyl phthalate	0.091	mg/kg	J	0.33	SW8270C	09/22/05 16:27 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Fluorene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Hexachlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67	SW8270C	09/22/05 16:27 / dsm
Hexachloroethane	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Isophorone	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
m+p-Cresols	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Naphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Nitrobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0,33	SW8270C	09/22/05 16:27 / dsm
o-Cresol	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Pentachlorophenol	ND	mg/kg		1.7	SW8270C	09/22/05 16:27 / dsm
Phenanthrene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Phenol	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 16:27 / dsm
Pyridine	ND	mg/kg		0.67	SW8270C	09/22/05 16:27 / dsm
Surr: 2,4,6-Tribromophenol	99.5	%REC		1	9-122 SW8270C	09/22/05 16:27 / dsm
Surr: 2-Fluorobiphenyl	81.5	%REC		3	D-115 SW8270C	09/22/05 16:27 / dsm
Surr: 2-Fluorophenol	84.5	%REC		2	5-121 SW8270C	09/22/05 16:27 / dsm
Surr: Nitrobenzene-d5	79.7	%REC		2	3-120 SW8270C	09/22/05 16:27 / dsm
Surr. Phenol-d5	85.5	%REC		2	4-113 SW8270C	09/22/05 16:27 / dsm
Surr: Terphenyl-d14	95.1	%REC		1,	8-137 SW8270C	09/22/05 16:27 / dsm

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

 ${\bf J}$  - Estimated value. The analyte was present but less than the reporting limit.







#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-004 Client Sample ID: RR-4A-91505, 0509181-4B Report Date: 09/23/05 Collection Date: 09/15/05 14:45 Date Received: 09/20/05 Matrix: Soil

				MC	Ľ/	
Analyses	Result	Units	Qual	RL QC		Analysis Date / By
PHYSICAL CHARACTERISTICS						
Moisture	9.2	wt%		0.01	SW3550A	09/22/05 13:32 / mwc
SEMI-VOLATILE ORGANIC COMPOL	JNDS					
1.2.4-Trichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
1.3-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
1.4-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
1-Methylnaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0,33	SW8270C	09/22/05 17:10 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
2,4-Dimethylphenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 17:10 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
2,6-Dinitrotoluene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
2-Chlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
2-Methylnaphthalene	ND	mg/kg		0.33	SWB270C	09/22/05 17:10 / dsm
2-Nitrophenol	ND	mg/kg		0,33	SW8270C	09/22/05 17:10 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67	SW8270C	09/22/05 17:10 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7	SW8270C	09/22/05 17:10 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
4-Chiorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
4-Nitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 17:10 / dsm
Acenaphthene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Acenaphthylene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Anthracene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Azobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Benzidine	ND	mg/kg		0.67	SW8270C	09/22/05 17:10 / dsm
Benzo(a)anIhracene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Benzo(b)fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Benzo(g,h,i)perylene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Benzo(k)fluoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
bis(-2-chloroethoxy)Melhane	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg		0.33	SWB270C	09/22/05 17:10 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33	SW8270C	09/22/05 17:10 / dsm
Butylbenzylphthalate	ND			0.33	SW8270C	09/22/05 17:10 / dsm
Chrysene	UN	mg/kg		0.33	SAAOS/ NP	03/22/03 17.107 USM

 Report
 RL - Analyte reporting limit.

 Definitions:
 QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.







#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-004 Client Sample ID: RR-4A-91505, 0509181-4B Report Date: 09/23/05 Collection Date: 09/15/05 14:45 Date Received: 09/20/05 Matrix: Soil

			MCL/		· · · · · · · · · · · · · · · · · · ·
Analyses	Result	Units	Qual RL QCL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS				
Dibenzo(a,h)anthracene	DN	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Diethyl phthalate	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Dimethyl phthalate	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Di-n-butyl phthalate	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Di-n-octyl phthalate	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Fluoranihene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Fluorene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Hexachlorobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Hexachlorobutadiene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Hexachlorocyclopentadiene	ND	mg/kg	0.67	SW8270C	09/22/05 17:10 / dsm
Hexachloroethane	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Isophorone	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
m+p-Cresols	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Naphihalene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Nitrobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
n-Nitrosodimethylamine	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
n-Nitrosodiphenylamine	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
o-Cresol	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Pentachlorophenol	ND	mg/kg	1.7	SW8270C	09/22/05 17:10 / dsm
Phenanthrene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Phenol	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Pyrene	ND	mg/kg	0.33	SW8270C	09/22/05 17:10 / dsm
Pyridine	ND	mg/kg	0.67	SW8270C	09/22/05 17:10 / dsm
Surr: 2,4,6-Tribromophenol	95.0	%REC	19-1	22 SW8270C	09/22/05 17:10 / dsm
Surr: 2-Fluorobiphenyl	77.8	%REC	30-1	15 SW8270C	09/22/05 17:10 / dsm
Surr: 2-Fluorophenol	78.0	%REC	25-1	21 SW8270C	09/22/05 17:10 / dsm
Surr: Nitrobenzene-d5	70.9	%REC	23-1	20 SW8270C	09/22/05 17:10 / dsm
Surr: Phenol-d5	77.5	%REC	24-1	13 SW8270C	09/22/05 17:10 / dsm
Surr: Terphanyi-d14	69.3	%REC	18-1	37 SW8270C	09/22/05 17:10 / dsm

Report Definitions: RL - Analyle reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project:

Lab ID: B05091262-005

Client Sample ID: RR-5A-91505, 0509181-5B

Report Date: 09/23/05 Collection Date: 09/15/05 14:50 Date Received: 09/20/05 Matrix: Soil

				MCI	J	
Analyses	Result	Units	Qual	RL QCI	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS						
Moisture	6.2	wt%		0.01	SW3550A	09/22/05 13:32 / mwc
SEMI-VOLATILE ORGANIC COMPO	DUNDS					
1,2,4-Trichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
1,2-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
1,3-Dichlorobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
1,4-Dichlarobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
1-Methyinaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2,4,5-Trichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2,4,6-Trichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2,4-Dichlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2,4-Dimethylphenol	ND	mg/kg		0,33	SW8270C	09/22/05 17:53 / dsm
2,4-Dinitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 17:53 / dsm
2,4-Dinitrotoluene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2,6-Dinitrololuene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2-Chloronaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2-Chlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2-Methylnaphthalene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
2-Nitrophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
3,3'-Dichlorobenzidine	ND	mg/kg		0.67	SW8270C	09/22/05 17:53 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg		1.7	SW8270C	09/22/05 17:53 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
4-Chloro-3-methylphenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
4-Chlorophenol	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg		0.33	SWB270C	09/22/05 17:53 / dsm
4-Nitrophenol	ND	mg/kg		1.7	SW8270C	09/22/05 17:53 / dsm
Acenaphthene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
Acenaphthylene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
Anthracene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
Azobenzene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
Benzidine	ND	mg/kg		0.67	SW8270C	09/22/05 17:53 / dsm
Benzo(a)anihracene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
Benzo(a)pyrene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
Benzo(b)Ruoranthene	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
Benzo(g,h,i)perylene	0.044	mg/kg	J	0.33	SW8270C	09/22/05 17:53 / dsm
Benzo(k)fluoranthene	ND	mg/kg	•	0.33	SW8270C	09/22/05 17:53 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
bis(-2-chloraethyl)Ether	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
bis(2-chlaroisopropyi)Ether	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm 09/22/05 17:53 / dsm
Butylbenzylphthalate	ND	mg/kg		0.33	SW8270C	09/22/05 17:53 / dsm 09/22/05 17:53 / dsm
Chrysene	ND			0.33	SW8270C	
our Asque	ND	mg/kg		0.33	54482700	09/22/05 17:53 / dsm

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

 ${\rm J}$  - Estimated value. The analyte was present but less than the reporting limit.



#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-005 Report Date: 09/23/05 Collection Date: 09/15/05 14:50 Date Received: 09/20/05 Matrix: Soil

Client Sample ID: RR-5A-91505, 0509181-5B

					CL/		······································
Analyses	Result	Units	Qual	RL Q	CL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS						
Dibenzo(a,h)anthracene	0.040	mg/kg	J	0.33		SW8270C	09/22/05 17:53 / dsm
Dielhyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Dimethyl phihalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Di-n-butyl phthalate	0.069	mg/kg	j	0.33		SWB270C	09/22/05 17:53 / dsm
DI-n-octyl phihalate	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Hexachtorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 17:53 / dam
Hexachloroelhane	ND	mg/kg		0.33		SWB270C	09/22/05 17:53 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Naphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 17:53 / dsm
Phenanihrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 17:53 / dsπ
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 17:53 / dsm
Surr: 2,4,6-Tribromophenol	93.0	%REC			19-122	SW8270C	09/22/05 17:53 / dsm
Surr: 2-Fluorobiphenyl	80.7	%REC			30-115	SW8270C	09/22/05 17:53 / dsm
Surr: 2-Fluorophenol	85.0	%REC			25-121	SW8270C	09/22/05 17:53 / dsm
Surr: Nitrobenzene-d5	76.3	%REC			23-120	SW8270C	09/22/05 17:53 / dsn
Surr: Phenol-d5	81.0	%REC			24-113	SW8270C	09/22/05 17:53 / dsn
Surr: Terphenyl-d14	95.5	%REC			18-137	SW8270C	09/22/05 17:53 / dsm

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

 ${\bf J}$  - Estimated value. The analyte was present but less than the reporting limit.







## LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-006 Client Sample ID: RR-6A-91505, 0509181-6B Report Date: 09/23/05 Collection Date: 09/15/05 14:55 Date Received: 09/20/05 Matrix: Soil

Analyses					
	Result	Units	Qual RL QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS					
Moisture	11	wt%	0.01	SW3550A	09/22/05 13:32 / mwo
SEMI-VOLATILE ORGANIC COMPOU	NDS				
1,2,4-Trichlorobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
1,2-Dichlorobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
1,3-Dichlorabenzene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
1,4-Dichlorobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
1-Methylnaphthalene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2,4,5-Trichlorophenol	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2,4,6-Trichlorophenol	NÐ	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2,4-Dichlorophanol	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2,4-Dimethylphenol	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2,4-Dinitrophenol	ND	mg/kg	1.7	SW8270C	09/22/05 18:36 / dsm
2,4-Dinitrotoluene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2,6-Dinitrotoluene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2-Chloronaphthalene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2-Chlorophanol	ND	mg/kg	D.33	SW8270C	09/22/05 18:36 / dsm
2-Methyinaphthalene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
2-Nitrophenol	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
3,3 -Dichlorobenzidine	ND	mg/kg	0.67	SW8270C	09/22/05 18:36 / dsm
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.7	SW8270C	09/22/05 18:36 / dsm
4-Bromophenyl phenyl othor	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
4-Chloro-3-methylphenol	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
4-Chlorophenoi	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
4-Nitrophenol	ND	mg/kg	1.7	SWB270C	09/22/05 18:36 / dsm
Acenaphihane	ND	mg/kg	0.33	SWB270C	09/22/05 18:36 / dsm
Acenaphthylene	ND	mg/kg	0,33	SW8270C	09/22/05 18:36 / dsm
Anthracene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
Azobenzene	ND	mg/kg	0,33	SW8270C	09/22/05 18:36 / dsm
Benzidine	ND	mg/kg	0.67	SW8270C	09/22/05 18:36 / dsm
Benzo(a)anlhracene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsrt
Benzo(a)pyrene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
Benzo(b)Ruoranthene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
Benzo(g,h,i)perylene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
Benzo(k)fluoranthene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsr
bis(-2-chloroethoxy)Methane	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
bis(2-chloroisopropyl)Ether	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
bis(2-ethylhexyl)Phihalate	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
Butylbenzylphthalate	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm
Chrysene	ND	mg/kg	0.33	SW8270C	09/22/05 18:36 / dsm

ReportRL - Analyte reporting limit.Definitions:QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-006 Client Sample ID: RR-6A-91505, 0509181-6B Report Date: 09/23/05 Collection Date: 09/15/05 14:55 Date Received: 09/20/05 Matrix: Soil

				MCI	<u>.</u>		
Analyses	Result	Units	Qual	RL QC	í ا	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS						
Dibenzo(a,h)anthracene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Dimethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Di-n-bulyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Fluoreng	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Hexachlorobutadiene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 18:36 / dsm
Hexachloroethane	ND	mg/kg		0.33		SWB270C	09/22/05 18:36 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Isophorone	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Naphthalene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Nitrobenzene	ND	mg/kg		0.33		SWB270C	09/22/05 18:36 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
n-Nitroso-di-n-propylamine	ND	mg/kg		0.33		SW6270C	09/22/05 18:36 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Pentachiorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 18:36 / dsm
Phenanthrene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 18:36 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 18:36 / dsm
Surr: 2,4,6-Tribromophenol	93.0	%REC		19	}-122	SW8270C	09/22/05 18:36 / dsm
Surr: 2-Fluorobiphenyl	84.1	%REC		30	)-115	SW8270C	09/22/05 18:36 / dsm
Surr: 2-Fluorophenol	88.0	%REC		2:	5-121	SW8270C	09/22/05 18:36 / dsm
Surr: Nitrobenzene-d5	79.5	%REC		23	3-120	SW8270C	09/22/05 18:36 / dsπ
Surr, Phenol-d5	84.0	%REC		24	4-113	SW8270C	09/22/05 18:36 / dsπ
Surr: Terphenyl-d14	95.5	%REC		18	3-137	SW8270C	09/22/05 18:36 / dsm

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level, ND - Not detected at the reporting limit.







#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project:

Lab ID: B05091262-007

Client Sample ID: RR-7A-91505, 0509181-7B

Report Date: 09/23/05 Collection Date: 09/15/05 15:00 Date Received: 09/20/05 Matrix: Soil

			MCL	1	
Analyses	Result	Units	Qual RL QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS					
Moisture	10	wt%	0.01	SW3550A	09/22/05 13:32 / mwc
SEMI-VOLATILE ORGANIC COMPOU	INDS				
1,2,4-Trichlorobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
1,2-Dichlorobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
1,3-Dichlorobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
1,4-Dichlorobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
1-Melhyinaphihalene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2,4,5-Trichlorophenol	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2,4,6-Trichlorophenol	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2,4-Dichlorophenol	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2,4-Dimethylphenol	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2,4-Dinitrophenol	ND	mg/kg	1.7	SW8270C	09/22/05 19:19 / dsm
2,4-Dinitrololuene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2,6-Dinitroloiuene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2-Chioronaphthalene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2-Chlorophenol	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2-Methylnaphthalene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
2-Nilrophenal	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
3.3'-Dichlorobenzidine	ND	mg/kg	0.67	SW8270C	09/22/05 19:19 / dsm
4.6-Dinitro-2-methylphenol	ND	mg/kg	1.7	SW8270C	09/22/05 19:19 / dsm
4-Bromophenyl phenyl ether	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
4-Chloro-3-methylphenol	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
4-Chlorophenol	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
4-Chlorophenyl phenyl ether	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
4-Nitrophenol	ND	mg/kg	1.7	SW8270C	09/22/05 19:19 / dsm
Acenaphihene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Acenaphihylene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Anthracene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Azobenzene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Benzidine	ND	mg/kg	0.67	SW8270C	09/22/05 19:19 / dsm
Benzo(a)anthracene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Benzo(a)pyrene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Benzo(b)fluoranthene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Benzo(g,h,i)perviene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Benzo(k)/Juoranthene	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
bis(-2-chloroethoxy)Methane	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
bis(-2-chloroethyl)Ether	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
bis(2-chioroisopropyl)Elher	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
bis(2-ethylhexyl)Phthalate	ND	mg/kg	0.33	SW8270C	09/22/05 19:19 / dsm
Butylbenzylphthalate			0.33		
	-	mg/kg	-	SW8270C	09/22/05 19:19 / dsm
Chrysene	ND	mg/kg	0.33	SWB270C	09/22/05 19:19 / dsm

Report RL - Analyte reporting limit. Definitions: OCL - Quality control limit MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



#### LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque Project: Lab ID: B05091262-007 Client Sample ID: RR-7A-91505, 0509181-7B Report Date: 09/23/05 Collection Date: 09/15/05 15:00 Date Received: 09/20/05 Matrix: Soil

				1	MCL/		
Analyses	Result	Units	Qual	RL	QCL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMP	OUNDS						
Dibenzo(a,h)anIhracene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Diethyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Dimethyl phihalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Di-n-butyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Di-n-octyl phthalate	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Fluoranthene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Fluorene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Hexachlorobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Hexachlorobuladiene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Hexachlorocyclopentadiene	ND	mg/kg		0.67		SW8270C	09/22/05 19:19 / dsm
Hexachloroethane	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Indeno(1,2,3-cd)pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Isophorane	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
m+p-Cresols	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Naphihalena	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Nitrobenzene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
n-Nitrosodimethylamine	ND	mg/kg		0.33		SWB270C	09/22/05 19:19 / dsm
n-Nilroso-di-n-propylamine	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
n-Nitrosodiphenylamine	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
o-Cresol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Pentachlorophenol	ND	mg/kg		1.7		SW8270C	09/22/05 19:19 / dsm
Phenanthrene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Phenol	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Pyrene	ND	mg/kg		0.33		SW8270C	09/22/05 19:19 / dsm
Pyridine	ND	mg/kg		0.67		SW8270C	09/22/05 19:19 / dsm
Surr: 2,4,6-Tribromophenol	76.0	%REC			19-122	SW8270C	09/22/05 19:19 / dsm
Sur: 2-Fluorobiphenyl	73.3	%REC			30-115	SW8270C	09/22/05 19:19 / dsm
Surr: 2-Fluorophenol	74.0	%REC			25-121	SW8270C	09/22/05 19:19 / dsm
Surr: Nitrobenzena-d5	66.2	%REC			23-120	SW8270C	09/22/05 19:19 / dsm
Surr: Phenol-d5	70.0	%REC			24-113		09/22/05 19:19 / dsm
Surr: Terphenyl-d14	83.4	%REC			18-137		09/22/05 19:19 / dsm

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

Hall Environn	Hall Environmental Analysis Laboratory	ory							Date: 26-Sep-05	-Sep-05	
CLIENT: 0	Giant Refining Co							OC STIMMARV REPORT	TM A P V	/ RFPC	Tac
rder:	0509181 	Li C						ころのシン		Method Blank	3lank
Froject: K	KK Kock Lagoon Add. Exc. 9/12/00	6									
Sample ID MB-8794	Batch ID: 8794	Test Code: SW8015	SW8015	Units: mg/Kg		Analysis	s Date 9/20/20	Analysis Date 9/20/2005 8:51:53 PM	Prep Date	Prep Date 9/20/2005	5
Client ID:		Run ID:	FID(17A) 2_050920A	50920A		SeqNo:	402214				
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		10									
Motor Oli Range Organics (MRO) Surr. DNOP	nics (MRO) ND 10.73	50 0	10	Q	107	60	124	o			
Sample ID mb-8782	Batch ID: 8782	Test Code: SW8260B	SW8260B	Units: mg/Kg		Analysis	Analysis Date 9/24/2005	05	Prep Date	Prep Date 9/19/2005	5
Client ID:		Run ID:	THOR_050923A	3A		SeqNo:	403371				
Analyte	Result	Par	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit	Quai
Methyl tert-butyl ether (MTBE)	(MTBE) ND	0.05	0	0	0	0	0	: 0			
Benzene		0.05	0	0	0	0	0	0			
Toluene	QN	0.05	Ō	0	0	Ð	0	Q			
Ethylbenzene	QN	0.05	Ð	0	0	D	0	0			
Xylenes, Total	0.0457	0.05	D	0	0	0	0	D			<b>ر</b>
Surr: 4-Bromofluorobenzene	Jenzene 0.6268	0	0.5	0	125	72.9	143	0			
Qualifiers: ND	<ul> <li>Not Detected at the Reporting Limit</li> <li>J - Analyte detected below quantitation limits</li> </ul>		S - Spi R - RP	<ul> <li>S - Spike Recovery outside accepted recovery limits</li> <li>R - RPD outside accepted recovery limits</li> </ul>	iccepted reco covery limits	very limits		B - Analyte detected in the associated Method Blank $I$	n the associate	ed Methad B	lank 1

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Hall Environmental Analysis Laboratory	Analysis Labora	tory							Date: 2	Date: 26-Sep-05	
: rder:	Giant Refining Co 0509181 DD D 2014 1 20000 Add End All	SA 20						QC SUN	<b>AIMAR</b> Samp	QC SUMMARY REPORT Sample Matrix Spike	<b>DRT</b> Spike
rrujeci: NK KUCK	NK KOCK LABOUIL AUU. EXC. 7(1)(0)								·		. [
Sample ID 0509181-03a ms Client ID: RR-3A-91505	Batch ID: 8782	Test Code: Run ID:	Test Code: SW8260B ( Run ID: THOR 050923A	Units: mg/Kg 3A		Analysis SegNo:	Analysis Date 9/24/2005 SeoNo: 403373	105	Prep D	Prep Date 9/19/2005	ъ.
	Result	Par	SPK value	SPK value SPK Ref Val	%REC	LowLimit	High	RPD Ref Val	%RPD	%RPD RPDLimit	Qual
Benzene Toluene	0.7619 1.144	0.05		000	76.2 114	79.4	126	001			ល
Surr: 4-Bromofluorobenzene	0.5177	Ð	0.5	Ð	104	72.9	143	0			
Sample ID 0509181-03a msd	Balch ID: 8782	Test Code:	Test Code: SW8260B	Units: mg/Kg		Analysis	Analysis Date 9/24/2005	105	Prep D	Prep Date 9/19/2005	5
Client ID: RR-3A-91505		Run ID:	THOR_050923A	ЗА		SeqNo:	403374				
Analyle	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	(PD Ref Val	048%	RPDLimit	Qual
Benzene	0.8462	0.05	-	0	84.6	78	126	0.7619	10.5	19	
Toluene	0.9524	0.05	-	0	95.2	79.4	117	1.144	18.3	a	
Surr: 4-Bromofluorobenzene	0.5191	0	0.5	0	104	72.9	143	0.5177	0.270	D	

S - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits

ND - Not Detected at the Reporting Limit

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Qualifiers: : •

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I.

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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Hall Environmental Analysis Laboratory	Analysis Labora	tory							Date: 2	Date: 26-Sep-05	
CLJENT: Giant Re Work Order: 0509181 Project: RR Rock	Giant Refining Co 0509181 RR Rock Lagoon Add. Exc. 9/15/05	5/05		· • •				QC SUN	<b>AMAR</b> Sampl	QC SUMMARY REPORT Sample Matrix Spike	<b>RT</b> spike
Sample ID 0509181-03a ms	Batch ID: 8782	Test Code:	Fest Code: SW8260B	Units: mg/Kg		Analysis	Date	005	Prep 0	Prep Date 9/19/2005	
Client ID: RR-3A-91505 Analyte	Result	Run IU: PQL	Rezerven_NOHI	SPK value SPK Ref Val	%REC	sequo: LowLimIt	sequo: 403373 LowLimit HighLimit RPD Ref Val	k RPD Ref Val	%RPD	%RPD RPDLimit	Qual
Benzene Toluene Surr: 4-Bromofluorobenzene	0.7619 1.144 0.5177	0.05 0.05 0	0 0		76.2 114 104	78 79.4 72.9	126 117 143	000			S
Sample ID 0509181-03a msd Client ID: RR-3A-91505	Batch ID: 8782	Test Code: Run ID:	Fest Code: SW8260B L Run ID: THOR_050923A	Units: mg/Kg BA		Analysis SeqNo:	Analysis Date   9/24/2005 SeqNo:	005	Prep D	Prep Date 9/19/2005	
Analyte Benzene Toluene Surr: 4-Bromofluorobenzene	Result 0.8462 0.524 0.5191	PQL 0.05	SPK value	SPK value SPK Ref Val 1 0 0.5 0	%REC 84.6 95.2 104	LawLlmit 78 79.4 72.9	LowLimit         HighLimit         RPD Ref Val           78         126         0.7619           79.4         117         1.144           72.9         143         0.5177	RPD Ref Val 0.7619 1.144 0.5177	%RPD 10.5 18.3 0.270	RPDLImit 19 0	Qual

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J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank ------

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Qualifiers:

Hall Environmental Analysis Laboratory	Analysis Labora	tory							Date: 26-Sep-05	- <i>Sep-05</i>	
CLIENT: Giant Re Work Order: 0509181 Project: RR Roch	Giant Refining Co 0509181 RR Rock Lagoon Add. Exc. 9/15/05	5/05						QC SUMMARY REPORT Laboratory Control Spike - generic	MAR) ontrol S	r REPO	RT neric
Sample ID LCS-8794 Client ID: Analyte	Batch ID: 8794 Result	Test Code: SW8015 Run ID: FID(17A) PQL SPK ve	SW8015 Units: FID(17A) 2_050920A SPK value SPK R	Units: mg/Kg 50920A SPK Ref Val	%REC	Analysis SeqNo: LowLimit	Date Highl	5 9:24:58 PM C Ref Val	Prep Dal %RPD	Prep Date 9/20/2005 %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	44.24	10	20	0	88.5	67.4	117	•			
Sample ID LCSD-8794 Client ID: Analyte	Batch ID: 8794 Result	Test Code: SW8015 Run ID: FID(17A) PQL SPK va	SV8015 Units: FID(17A) 2_050920A SPK value SPK R	Units: mg/Kg 50920A SPK Ref Val	%REC	Analysis SeqNo: LowLimit	Analysis Date 9/20/2005 9:58:02 PM SeqNo: 402216 wLimit HighLimit RPD Ref Val	s 9:58:02 PM S Ref Val	Prep Dat %RPD	Prep Date 9/20/2005 //RPD RPDLimit	Qual
Diesel Range Organics (DRO)	41.68	10	20	0	83.4	67.4	117	44.24	5.96	17.4	
Sample ID Ics-8782 Client ID:	Batch ID: 8782	Test Code: Run ID:	Test Code: SWB260B (	Units: mg/Kg 3A		Analysis SeqNo:	Analysis Date 9/24/2005 SeqNo: 403372		Prep Dat	Prep Date 9/19/2005	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPOLimit	Qual
Benzene Toluene	0.8492	0.05 0.05		00	84.9 103	78 79.4	126 117	<b></b>			

25/26

Qualifiers:

J - Analyte detected below quantitation fimits ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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# Hall Environmental Analysis Laboratory

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	Sample R	leceipt Che	ecklist			
Client Name GIANTREFIN			Date and Time	Received:	:	9/19/2005
Work Order Number 0509181			Received by	GLS		
	ppl:	O  Date	9-05			
Matrix	Carrier name	<u>Client drop-of</u>	[			
Shipping container/cooler in good condition?	•	Yes 🗹	No 🗆	Not Present		
Custody seals intact on shipping container/cooler	?	res 🗋	No 🗌	Not Present	Not Shipped	
Custody seals intact on sample bottles?	,	Yes 🗹	No 🗔	N/A		
Chain of custody present?	•	Yes 🗹	No 🗍			
Chain of custody signed when relinquished and re	aceived?	Yes 🗹	No 🗌			
Chain of custody agrees with sample labels?		Yes 🗹	No 🗌			
Samples in proper container/bottle?		Yes 🗹				
Sample containers intact?		Yes 🗹	No 🗔			
Sufficient sample volume for indicated test?		Yes 🗹	No 🗆			
All samples received within holding time?		Yes 🗹	No 🗔			
Water - VOA vials have zero headspace?	No VOA vials submit	ted 🗹	Yes 🗍	No 🗌		
Water - pH acceptable upon receipt?		Yes 🗌	No	N/A 🗹		
Container/Temp Blank temperature?		4°	4°C ± 2 Accepta If given sufficient			
COMMENTS:						
		====				
Client contacted	Date contacted:		Pers	on contacted		
Contacted by:	Regarding				······	
Comments:						
······			<u> </u>			
<b></b>		*****				
						<b></b>
	8- 847884 http://www.anariana.anariana.anariana.anariana.anariana.anariana.anariana.anariana.anariana.anariana					
Corrective Action					·	

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4107																	
HALL ENVIRONMENTAL ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109 Tel. 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com	7-719	r	77	28	_	$ \downarrow $		ر ر	~		$\times$		 		 		
B710 B8710 m	7318		_	<i>08</i> ₩85) 0/2	28 >		メ ン	א א	$\lambda$	$\lambda$	$\frac{1}{1}$	γX	 	<u></u>			
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HALL ENVIRONMENTAL ANALYSIS LABORATOR 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109 Tel, 505.345, 3975 Fax 505.345 www.hallenvironmental.com				/Nd) 018		_							 				7
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Price, Way	/ne, EMNRD	
From:	James Romero [jromero@giant.com]	Sent: Mon 9/26/2005 4:01 PM
то:	Chavez, Carl J, EMNRD; James Romero	
Cc:	Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, He	ppe, NMENV; Ed Riege; Steve Morris
Subject:	RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test G	uidance
Attachment	ts:	

Carl:

Since the permeability tests needs to be completed before the sample looses any moisture, how and where would OCD like us to handle their soil sample? Wayne mentioned for us to hold the sample until his next visit, however, at that point the sample may not be valid for permeability testing. Let us know if you want us to rush the sample to your office or lab.

----Original Message----From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 1:57 PM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Mr. Price may have misunderstood your request for a depth of clay sample to conduct a permeability test for hydraulic conductivity. Based on your note, it appears that clay is present from surface to a significant depth below the FWP. For clarification, the depth of the permeability sample requested should be commensurate to 3 feet beneath the bottom of the FWP. OCD requested that the boring be cored and logged to at least 15 feet to document the consistency of clay lithology at the FWP.

Regarding the RO reject water, OCD knows that the quality (general chemistry/inorganic parameters) of the RO reject water will not be **constant** during normal operations. OCD is puzzled by the low chloride concentration in Ciniza's RO reject water analytical data, since elevated levels would be expected during the regeneration of the water softeners. OCD has determined that elevated chloride levels from the water softener will be present in the RO reject water during normal refinery operations. In addition, the WQCC Standard for Sulfate is 600 ppm, and RO reject water analytical data showed a concentration at 2,500 ppm. Consequently, a leak detection system is required.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 1:16 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl:

I wanted to clarify the depths of clay for everyone. The 23-28' clay layer discussed with Wayne was in regards to his clay sample which he requested during your visit. We needed to know at what depth to take his sample.

According to Bill, the clay layer is 23.5' thick (surface to top of Chinle formation) with the Sonsela at 98.2'. We'll forward the boring logs when they are completed by Precision Engineering. Also, you stated OCD had a concern the RO water does not meet WQCC standards. We had the RO water lab tested on August 24, 2005 and the results were ND. OCD and NMED were sent copies of these results via our August 31, 2005 letter. If you need me to forward the lab analysis to you let me know and I will get you a copy. Given this should we proceed with developing





-----Original Message-----

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Monday, September 26, 2005 10:59 AM
To: James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Re: Proposed Fire Water Pond (FWP)

Good morning. As I recall from our September 8, 2005 meeting (meeting), Mr. Wayne Price of the Oil Conservation Division (OCD) had suggested a specification for the liner; however, the OCD expectation is that Ciniza will justify and reference any technical specifications proposed for the construction of the FWP. Due to the nature of the RO water, OCD is concerned that it does not meet WQCC standards; thus, justifying the need for leak detection. At the time of the meeting, OCD had viewed the substrate beneath the Ciniza Refinery to be clay of low permeability. However, during today's telephone conversation with Mr. Price, you indicated that the top of clay is present at a depth of about 28 feet below the recently drilled test boring ground elevation near the FWP. OCD needs to view the boring log to confirm your verbal indication that the clay is in fact present at a significant depth below the FWP. If it is confirmed, then OCD will require a double liner w/ leak detection design (please refer to OCD's pit guidance for general construction configurations). A double liner system should also help to prevent any mounding effect(s) from recharge and infiltration from FWP water to the water table. Mounding may alter the direction of groundwater flow relative to the existing groundwater monitoring system? Please send OCD and the New Mexico Environment Department (NMED), Hazardous Waste Bureau a copy of the boring log.

From the meeting, OCD agreed to provide some surface impoundment or general guidance (see attachment) to assist Ciniza with the construction of the FWP. I notice that the only OCD guidance available is "OCD Pit and Below-Grade Tank Guidelines (Nov. 1, 2004)." There is also reference to SW-870 Guidance in the attachment, which may also provide useful ideas to Ciniza for selecting and keying in the liners with a leak detection system. There is also permeability test references to assist with the boring permeability test requested near the FWP.

I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 9:39 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl,

Thanks for the information, I'm in the process of estimating costs for the new pond. Can you let me know what mil of liner OCD will be ok with?

----Original Message----From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, September 21, 2005 12:03 PM
To: James Romero
Cc: smorris@giant.com; Eriege@giant.com; Price, Wayne, EMNRD

Subject: RE: Ciniz efinery, Pit Liner & Sediment Permeability efficiency

#### James:

Good afternoon. I believe Giant was requesting guidance for pit construction for the proposed Fire Water Pit and liner (see attachment with hyper links to OCD Pit guidance). Also, there is a OCD specified permeability test to be run on the boring near the proposed Fire Water Pit. I hope this helps. Please contact me if you have guestions. Thanks.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Friday, September 16, 2005 2:27 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

-----Original Message-----From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] Sent: Friday, September 09, 2005 2:33 PM To: James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: RE: Spill Report

Thanks James for you quick response.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

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From: James Romero [mailto:jromero@giant.com] Sent: Fri 9/9/2005 2:38 PM To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: RE: Spill Report

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Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove sompacted from diesel spill to land farm, and ump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

(1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.

(2) We have taken samples from the old API separator and will rush the analysis

(3) We have taken Hope's weekly sample, added MTBE, and will also be rushed

(4) We purchased and rushed ordered boom to install in pond 2

(4) We have began discussions with Precision regarding new wells

(5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

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Price, Wayne	e, EMNRD	
From:	Chavez, Carl J, EMNRD	Sent: Mon 9/26/2005 4:28 PM
To:	James Romero	
Cc:	Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Mo	onzeglio, Hope, NMENV
Subject:	RE: Ciniza Refinery, Pit Liner & Sediment Permeab	ility Test Guidance
Attachments:		
James:		
	onsibility to run the permeability test and OC Acceptable OCD permeability test methods	CD wanted a sample for visual observation only. Perhaps a wide mouth sate are provided below.
ASTM D-3385	Infiltrometer Method	Field Permeability Test
EM-1110-2-19 Appendix VII	906 Permeability Test	Corps of Engineers Manual: Laboratory Permeability Test
Regarding leadetection syst		t Guidance is provided below and may provide some ideas for Ciniza's lea
F. PIT LEA	K DETECTION SYSTEMS	
	1. Leak detection systems may consist of fail	-safe electric detection systems or drainage and collection systems.
•	2. If an electric grid detection system is functional.	used, provision must be made for adequately testing all components to ensure the system remains
. ·	liners. The network must be of sufficient d thereof. The material placed between the p slope for all drainage lines and laterals will	used, a network of slotted or perforated drainage pipes will be installed between the primary and a lensity so that no point in the pit bed is more than twenty feet (20') from such drainage pipe or late pipes and laterals must be sufficiently permeable to allow transport of the fluids to the drainage pip l be at least 12 inches (12") per hundred feet (100'). The slope of the pit bed must also conform to a detection system. The drainage pipe will convey liquids to a corrosion-proof collection system l 2).
	<ol> <li>Double lined disposal and storage pits liner as the weight of fluid in the pit causes</li> </ol>	s constructed with synthetic liners shall be designed to allow slippage between the primary and se s movement in the primary liner.
barrier with th	e leak detection system designed above it f	ermeability, the low permeability clay will suffice as the secondary containm ollowed by the liner. For diagrams on keying or positioning the liner, vent s k on "Publications" and "Environmental Handbook" to view pit design diagr
Also, there wa	as some guidance in the spreadsheet sent to	o you that you may be able to locate via Google below:
SW-870	Lining of Waste Impoundment Facilities	s Vent designs
I hope this he	lps. Thanks.	
Oil Conservat 1220 South S Office: (505)	Energy, Minerals & Natural Resources Dept ion Division, Environmental Bureau t. Francis Dr., Santa Fe, New Mexico 87505 I76-3491	
Fax: (505) 47		
	Chavez@state.nm.us //www.emnrd.state.nm.us/ocd/	
	vention Guidance is under "Publications")	
	· · · · · · · · · · · · · · · · · · ·	
Sent: Monda To: Chavez, C Cc: Price, Wa	Romero [mailto:jromero@giant.com] y, September 26, 2005 4:02 PM Carl J, EMNRD; James Romero yne, EMNRD; Cobrain, Dave, NMENV; Monz Ciniza Refinery, Pit Liner & Sediment Perm	zeglio, Hope, NMENV; Ed Riege; Steve Morris eability Test Guidance
Carl:		

Since the permeability tests needs to be completed before the sample looses any moisture, how and where would OCD like us to he their soil sample? Wayne mentioned for us to hold the sample until his next visit, however, at that point the sample may not be valid

permeability testing. Let us know if you wanted to rush the sample to your office or lab.

-----Original Message-----From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us] Sent: Monday, September 26, 2005 1:57 PM To: James Romero Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Mr. Price may have misunderstood your request for a depth of clay sample to conduct a permeability test for hydraulic conductivity. Based on your note, it appears that clay is present from surface to a significant depth below the FWP. For clarification, the depth of the permeability sample requested should be commensurate to 3 feet beneath the bottom of the FWP. OCD requested that the boring be cored and logged to at least 15 feet to document the consistency of clay lithology at the FWP.

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Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: Carl J. Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 1:16 PM
To: Chavez, Carl J, EMNRD; James Romero
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

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I wanted to clarify the depths of clay for everyone. The 23-28' clay layer discussed with Wayne was in regards to his clay sample which he requested during your visit. We needed to know at what depth to take his sample.

According to Bill, the clay layer is 23.5' thick (surface to top of Chinle formation) with the Sonsela at 98.2'. We'll forward the boring logs when they are completed by Precision Engineering. Also, you stated OCD had a concern the RO water does not meet WQCC standards. We had the RO water lab tested on August 24, 2005 and the results were ND. OCD and NMED were sent copies of these results via our August 31, 2005 letter. If you need me to forward the lab analysis to you let me know and I will get you a copy. Given this should we proceed with developing leak detection?

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Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Re: Proposed Fire Water and (FWP)



Good morning. As I recall from our September 8, 2005 meeting (meeting), Mr. Wayne Price of the Oil Conservation Division (OCD) had suggested a specification for the liner; however, the OCD expectation is that Ciniza will justify and reference any technical specifications proposed for the construction of the FWP. Due to the nature of the RO water, OCD is concerned that it does not meet WQCC standards; thus, justifying the need for leak detection. At the time of the meeting, OCD had viewed the substrate beneath the Ciniza Refinery to be clay of low permeability. However, during today's telephone conversation with Mr. Price, you indicated that the top of clay is present at a depth of about 28 feet below the recently drilled test boring ground elevation near the FWP. OCD needs to view the boring log to confirm your verbal indication that the clay is in fact present at a significant depth below the FWP. If it is confirmed, then OCD will require a double liner w/ leak detection design (please refer to OCD's pit guidance for general construction configurations). A double liner system should also help to prevent any mounding effect(s) from recharge and infiltration from FWP water to the water table. Mounding may alter the direction of groundwater flow relative to the existing groundwater monitoring system? Please send OCD and the New Mexico Environment Department (NMED), Hazardous Waste Bureau a copy of the boring log.

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I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

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Carl,

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Good afternoon. I believe Giant was requesting guidance for pit construction for the proposed Fire Water Pit and liner (see attachment with hyper links to OCD Pit guidance). Also, there is a OCD specified permeability test to be run on the boring near the proposed Fire Water Pit. I hope this helps. Please contact me if you have questions. Thanks.

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Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

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Thanks James for you quick response.

Wayne Price-Senior Environmental Engr.Oil Conservation Division1220 S. Saint FrancisSanta Fe, NM 87505E-mail wayne price@state.nm.usTele:505-476-3487Fax:505-4763462

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#### Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

(1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.

(2) We have taken samples from the old API separator and will rush the analysis

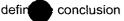
(3) We have taken Hope's weekly sample, added MTBE, and will also be rushed

(4) We purchased and rushed ordered boom to install in pond 2

(4) We have began discussions with Precision regarding new wells

(5) We believe we have found the source of oil entering the old api. We

are 90% sure of the location but will need more time to make a





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Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

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### Price, Wayne, EMNRD

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Good morning. As I recall from our September 8, 2005 meeting (meeting), Mr. Wayne Price of the Oil Conservation Division (OCD) had suggested a specification for the liner; however, the OCD expectation is that Ciniza will justify and reference any technical specifications proposed for the construction of the FWP. Due to the nature of the RO water, OCD is concerned that it does not meet WQCC standards; thus, justifying the need for leak detection. At the time of the meeting, OCD had viewed the substrate beneath the Ciniza Refinery to be clay of low permeability. However, during today's telephone conversation with Mr. Price, you indicated that the top of clay is present at a depth of about 28 feet below the recently drilled test boring ground elevation near the FWP. OCD needs to view the boring log to confirm your verbal indication that the clay is in fact present at a significant depth below the FWP. If it is confirmed, then OCD will require a double liner w/ leak detection design (please refer to OCD's pit guidance for general construction configurations). A double liner system should also help to prevent any mounding effect(s) from recharge and infiltration from FWP water to the water table. Mounding may alter the direction of groundwater flow relative to the existing groundwater monitoring system? Please send OCD and the New Mexico Environment Department (NMED), Hazardous Waste Bureau a copy of the boring log.

From the meeting, OCD agreed to provide some surface impoundment or general guidance (see attachment) to assist Ciniza with the construction of the FWP. I notice that the only OCD guidance available is "OCD Pit and Below-Grade Tank Guidelines (Nov. 1, 2004)." There is also reference to SW-870 Guidance in the attachment, which may also provide useful ideas to Ciniza for selecting and keying in the liners with a leak detection system. There is also permeability test references to assist with the boring permeability test requested near the FWP.

I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications") To: Chavez, Carl J, EMNRD

Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl,

Thanks for the information, I'm in the process of estimating costs for the new pond. Can you let me know what mil of liner OCD will be ok with?

----Original Message----From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, September 21, 2005 12:03 PM
To: James Romero
Cc: smorris@giant.com; Eriege@giant.com; Price, Wayne, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

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Good afternoon. I believe Giant was requesting guidance for pit construction for the proposed Fire Water Pit and liner (see attachment with hyper links to OCD Pit guidance). Also, there is a OCD specified permeability test to be run on the boring near the proposed Fire Water Pit. I hope this helps. Please contact me if you have questions. Thanks.

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From: James Romero [mailto:jromero@giant.com]
Sent: Friday, September 16, 2005 2:27 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

----Original Message----From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us]
Sent: Friday, September 09, 2005 2:33 PM
To: James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

Thanks James for you quick response.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

**From:** James Romero [mailto:jromero@giant.com] **Sent:** Fri 9/9/2005 2:38 PM **To:** Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV;

#### Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

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	Nee Wayne	e, EMNRD	
	From:	Chavez, Carl J, EMNRD	Sent: Mon 9/26/2005 11:58 AM
•	То:	James Romero	
	Cc:	Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV	
·	Subject:	RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance	
	Attachments:	Pits.xls(23KB)	

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From: James Romero [mailto:jromero@giant.com] Sent: Monday, September 26, 2005 9:39 AM To: Chavez, Carl J, EMNRD Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

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· (6)	You replied	on 9/26/2005 10:30 AM.		
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F	rom:	Monzeglio, Hope, NMENV	Sent: Mon 9/26/2005 10:27 AM	•
· Te	0:	James Romero; Foust, Denny, EMNRD; Price, Wayne, EMNRD; eriege@giant.com		
C	C:	Cobrain, Dave, NMENV		:
S	ubject:	RE: New Monitoring well GWM 2		
	ttachmonte			

#### Attachments

James

NMED approves the location of GWM-2. Giant must indicate how far below the base of the evaporation ponds GWM-2 was drilled (and GWM-3 upon completion). Giant must submit a revised map providing the new location of GWM-2. Upon completion of GWM-2 and GWM-3, these wells must be checked for fluids on a monthly basis until the new year 2006 and can then be incorporated into the groundwater monitoring plan.

If you have questions please contact me.

Hope Monzeglio

Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

From: James Romero [mailto:jromero@giant.com] Sent: Mon 9/26/2005 9:27 AM To: Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Price, Wayne, EMNRD Subject: New Monitoring well GWM 2

Hi folks,

Attached is a picture of the new GWM-2 well which was installed over the weekend. This well is approximately 17' deep with 15' of screen and is dry. The well was moved closer to GWM-1 due to safety and access issues which were raised by our safety officer. I would like to get your approval of this well location asap since we still have precision onsite. <<Picture 042.jpg>>

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-	Chavez, Carl J, EMNRD	Sent: Mon 9/26/2005 10:11 AM
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arl I Chay	vez, CHMM	
	Energy, Minerals & Natural Resources Dept.	
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	St. Francis Dr., Santa Fe, New Mexico 87505	
ax: (505) 4	) 476-3491 76-3462	
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Cc: Steve Morris; Johnny Sanchez Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] **Sent:** Friday, September 09, 2005 2:33 PM **To:** James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us **Cc:** Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios **Subject:** RE: Spill Report

Thanks James for you quick response.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Fri 9/9/2005 2:38 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us;
Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

#### Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

(1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.

(2) We have taken samples from the old API separator and will rush the analysis

(3) We have taken Hope's weekly sample, added MTBE, and will also be rushed

(4) We purchased and rushed ordered boom to install in pond 2

(4) We have began discussions with Precision regarding new wells

(5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

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### Price, Wayne, EMNRD

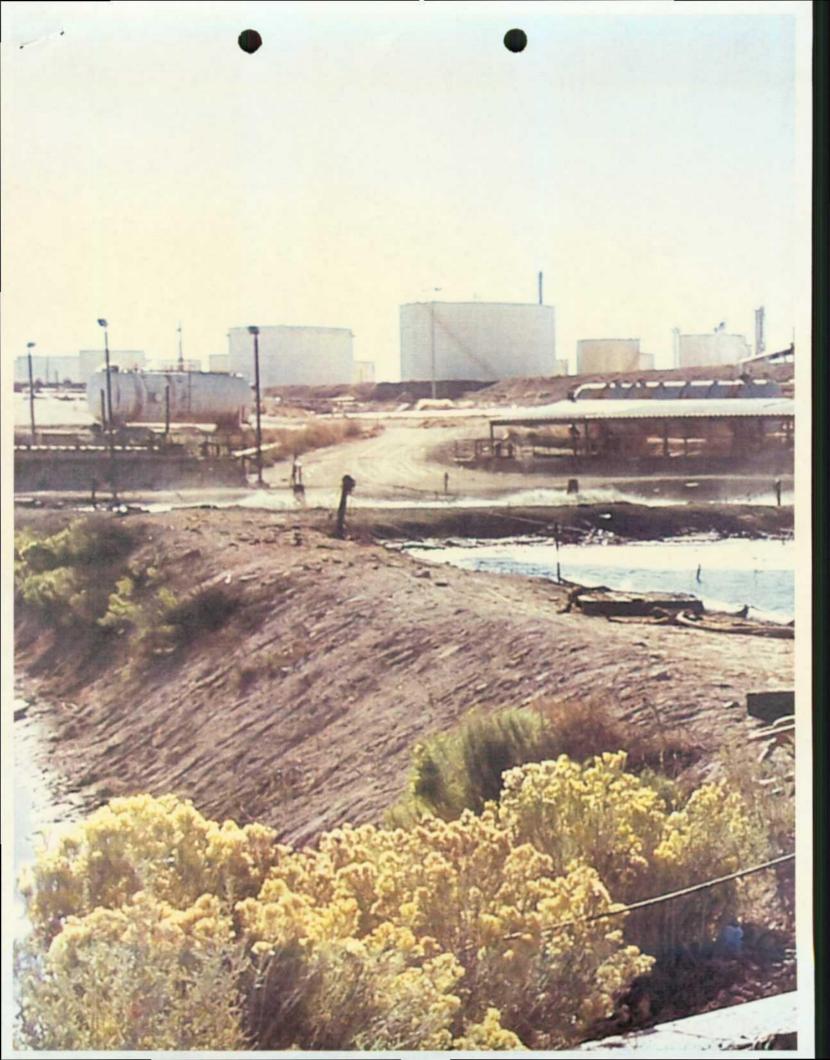
From:	James Romero [jromero@giant.com]	Sent:	Mon 9/26/2005 9:27 AM
To:	Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Price, Wayne, EMNRD		
Cc:			
Subject:	New Monitoring well GWM 2		
Attachment	s:		

ctly.

Hi folks,

Attached is a picture of the new GWM-2 well which was installed over the weekend. This well is approximately 17' deep with 15' of screen and is dry. The well was moved closer to GWM-1 due to safety and access issues which were raised by our safety officer. I would like to get your approval of this well location asap since we still have precision onsite. <<Picture 042.jpg>>

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## Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Monday, September 26, 2005 2:57 PM

To: 'James Romero'

Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; Ed Riege; Steve Morris

Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Mr. Price may have misunderstood your request for a depth of clay sample to conduct a permeability test for hydraulic conductivity. Based on your note, it appears that clay is present from surface to a significant depth below the FWP. For clarification, the depth of the permeability sample requested should be commensurate to 3 feet beneath the bottom of the FWP. OCD requested that the boring be cored and logged to at least 15 feet to document the consistency of clay lithology at the FWP.

Regarding the RO reject water, OCD knows that the quality (general chemistry/inorganic parameters) of the RO reject water will not be **constant** during normal operations. OCD is puzzled by the low chloride concentration in Ciniza's RO reject water analytical data, since elevated levels would be expected during the regeneration of the water softeners. OCD has determined that elevated chloride levels from the water softener will be present in the RO reject water during normal refinery operations. In addition, the WQCC Standard for Sulfate is 600 ppm, and RO reject water analytical data showed a concentration at 2,500 ppm. Consequently, a leak detection system is required.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: <u>Carl J. Chavez@state.nm.us</u> Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

# Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Monday, September 26, 2005 11:59 AM

To: 'James Romero'

Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV

Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

### James:

Re: Proposed Fire Water Pond (FWP)

Good morning. As I recall from our September 8, 2005 meeting (meeting), Mr. Wayne Price of the Oil Conservation Division (OCD) had suggested a specification for the liner; however, the OCD expectation is that Ciniza will justify and reference any technical specifications proposed for the construction of the FWP. Due to the nature of the RO water, OCD is concerned that it does not meet WQCC standards; thus, justifying the need for leak detection. At the time of the meeting, OCD had viewed the substrate beneath the Ciniza Refinery to be clay of low permeability. However, during today's telephone conversation with Mr. Price, you indicated that the top of clay is present at a depth of about 28 feet below the recently drilled test boring ground elevation near the FWP. OCD needs to view the boring log to confirm your verbal indication that the clay is in fact present at a significant depth below the FWP. If it is confirmed, then OCD will require a double liner w/ leak detection design (please refer to OCD's pit guidance for general construction configurations). A double liner system should also help to prevent any mounding effect(s) from recharge and infiltration from FWP water to the water table. Mounding may alter the direction of groundwater flow relative to the existing groundwater monitoring system? Please send OCD and the New Mexico Environment Department (NMED), Hazardous Waste Bureau a copy of the boring log.

From the meeting, OCD agreed to provide some surface impoundment or general guidance (see attachment) to assist Ciniza with the construction of the FWP. I notice that the only OCD guidance available is "OCD Pit and Below-Grade Tank Guidelines (Nov. 1, 2004)." There is also reference to SW-870 Guidance in the attachment, which may also provide useful ideas to Ciniza for selecting and keying in the liners with a leak detection system. There is also permeability test references to assist with the boring permeability test requested near the FWP.

I hope this helps. Please contact me if you have questions. We look forward to viewing the boring log to confirm the depth of clay near the FWP. Thank you.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Monday, September 26, 2005 9:39 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

Carl,

Thanks for the information, I'm in the process of estimating costs for the new pond. Can you let me know what mil of liner OCD will be ok with?

-----Original Message-----

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]

Sent: Wednesday, September 21, 2005 12:03 PM
To: James Romero
Cc: smorris@giant.com; Eriege@giant.com; Price, Wayne, EMNRD
Subject: RE: Ciniza Refinery, Pit Liner & Sediment Permeability Test Guidance

James:

Good afternoon. I believe Giant was requesting guidance for pit construction for the proposed Fire Water Pit and liner (see attachment with hyper links to OCD Pit guidance). Also, there is a OCD specified permeability test to be run on the boring near the proposed Fire Water Pit. I hope this helps. Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3491 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/ (Pollution Prevention Guidance is under "Publications")

From: James Romero [mailto:jromero@giant.com]
Sent: Friday, September 16, 2005 2:27 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; cobrain.david@state.nm.us
Cc: Steve Morris; Johnny Sanchez
Subject: RE: Spill Report

Attached are photos showing the piping from the storm water basin and the new butterfly valves

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Thanks James for you quick response.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

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9/26/2005



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ID	Description
19.15.2.50 NMAC	Title 19 Natural Resources & Wildlife;
	Chpt. 15 (Oil & Gas); Part 2 (Gen.
	Operating Practices, Wastes Arising from
	Exploration& Production); Section 50 (Pits
	& Below Grade Tanks)
ASTM D-3385	Infiltrometer Method
ASTM D-698	Standard Proctor Density
EM-1110-2-1906	Permeability Test
Appendix VII	
EPA Method	Liner Compatibility
9090A	
Form C-101	
Form C-103	
Form C-144	
Pit	OCD Pit & Below-Grade Tank Guidelines
SW-870 TDS	Lining of Waste Impoundment Facilities Total Dissolved Solids

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### Explanation

To obtain a permit for a pit or below-grade tank or to close a pit or below-grade tank an operator must eitther follow guidelines or obtain OCD approval for an alternate method. The alternate method must meet the requirements of this rule.

Field Permeability Test

Corps of Engineers Manual: Laboratory Permeability Test

Compatibility Test for Wastes and Membrane Liners

Nov. 1, 2004

## Vent designs

NM State Engineer has designated fresh water as all surface waters and GW containing 10,000 mg/L or less of TDS for which there is a reasonably foreseeable beneficial use. The term "reasonably foreseeable" is generally taken to mean a time period of not less than 200 years into the future, but could be thousands of years.

September 20, 2005

Mr. James Romero Giant Refining Company Ciniza Refinery Route 3, Box 7 Gallup, New Mexico 87301

# Re: Installation Procedures for GMW-2 and GMW-3 Ciniza, New Mexico

James,

Following are the proposed tasks for the installation of GMW-2 and 3. We have also included a section concerning the sampling and drilling of the boring in or near the proposed Fire Water Lagoon.

## GMW-2 and GMW-3

**Task I:** Each well will be installed using auger drilling techniques. The boring will be advanced using 8-5% OD continuous flight hollow stemmed auger. As the auger is advanced the boring will be sampled continuously to the full depth using five (5) foot static split barreled continuously intruded auger samplers. The borings will be logged on site and the core will be photographed and discarded. It is understood that the well is to be terminated and completed above the alluvial sands encountered at the interface of the Chinle Group (likely Petrified Forest Formation). It is estimated that the borings will be on the order of twenty feet in total depth. If the sandy layer is encountered the boring will be abandoned and a new boring well will be advanced to the appropriate depth and a well installed. Abandonment will be performed by injecting bentonite/cement slurry at the bottom of the boring and continuously pumped until it flows onto the ground surface.

**Task II:** The two (2) borings will be converted to groundwater monitoring wells. Two (2) inch monitoring wells will then be installed. The construction of the wells will consist of placing fifteen (15) feet of number ten (10) slot schedule 40 PVC screen. The screen will be machine slotted. The well solid casing will be flush joint schedule 40 PVC riser. The riser will be extended to the surface and completed as an above ground mount as required. The screen will be sand packed using 10-20 sand. The sand will be environmental quality silica sand graded for uniformity and washed for a dust free product. The sanded portion of the wells will extend to a point two (2) feet above the top of the screen. This amount may be decreased if the top of the screen is within five (5) feet of the ground surface. Sand will be tremmied through the hollow stemmed auger as it is withdrawn from the boring. A two (2) foot bentonite plug will be placed on top of the sand pack. The plug will be placed as a three eighths (3/8) inch chip bentonite and hydrated to provide a dense, impermeable layer with high wall pressure to minimize annular seepage. It is not anticipated the borings will be fluid filled, therefore, it is planned that the bentonite chips will be artificially





hydrated. The boring will then be backfilled with a portland cement/ bentonite slurry to the surface. The well surface finish will include a lockable steel protective vault covering the thirty (30) inch casing extension for the above ground finish. Precision Engineering, Inc. will not provide locks for the project, but, is willing to provide locks at additional cost if they are required. Lockable casing plugs will be provided. The surface vault will be placed in a surface concrete pad. The wells will then be finished with a four foot square concrete pad that tapers away from the steel vault to a minimum thickness of four (4) inches at the edges.

## **Fire Water Storage Lagoon**

**Task 1:** A determination of the actual location of the proposed boring will be made. If possible the boring will be advanced on the lagoon floor. If access into the lagoon cannot be made without cutting a road, a suitable boring location will be identified adjacent to the lagoon. The boring will be advanced using 8-% inch OD continuous flight hollow stemmed auger. The boring will be continuously sampled from the ground surface through the total depth of the boring. The boring will be advanced until contact is made with the Sonsela Member of the Petrified Forest Formation within the Chinle Group. Upon identification of the Sonsela Sandstone the boring will be terminated. Logging of the boring will be performed by William H. Kingsley. Because the boring will contact the Sonsela, a bentonite/cement slurry will be used to backfill the boring throughout its entire depth.

**Task II:** Samples taken from the upper fifteen (15) feet of the boring will be tested for vertical hydraulic conductivity. This thickness is approximate. If the boring is drilled outside the limits of the lagoon samples will be taken of materials representative of those cut by the side slope as well as those below the bottom of the lagoon floor. Some variation in the depth of the sample should therefore be anticipated. Sample depths for testing will be verified with the client prior to testing.

Should you have any questions or comments on the scope or proposed techniques used for the projects described above please contact our office.

## Sincerely, Precision Engineering, Inc.

William H. Kingsley, PE

You forwarded this message on 9/26/2005.2	:21 PM.
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Attachments can contain viruses that mathematic your computer. Attachments may not display

# Price, Wayne, EMNRD

From:	James Romero [jromero@giant.com]	Sent: Tue 9/20/2005 11:40 AM
То:	Monzeglio, Hope, NMENV; Price, Wayne, EMNRD; Foust, Denny, EMNRD; Cobrai	in, Dave, NMENV; Price, Wayne, EMNRD
Cc:	Steve Morris; Ed Riege; Johnny Sanchez	
Subject:	Proposal for new monitoring wells (GWM-2 and GWM-3)	
Attachments:		

Per our conference call, we are submitting the following installation Procedures for GMW-2 and GMW-3 which was prepared by Precision Engineering. As we discussed, and with your approval, we'd like to begin drilling the week of September 26, 2005. Moreover, in addition to the procedures, you'll find a map which depicts the new well locations. Giant would like to former ally request your review and approval of these plans. If there is any additional information you need or questions call Steve Morris at 505-722-3258. I'll be in training this week, however, I will be checking email.

<<gmw2and3locations.pdf>> <<cinizagmwwells.DOC>>

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Price, way		
From:	James Romero [jromero@giant.com] Sent: Tue 9/20/2005 11:21 AM	
То:	Monzeglio, Hope, NMENV; James Romero; Price, Wayne, EMNRD; Chavez, Carl J, EMNRD; Foust, Denny, EMNRD	
Cc:	Steve Morris; Ed Riege; Johnny Sanchez	
Subject:	RE: Sampling EP-1 to AL2	

Attachments:

Hope,

Lab Analysis from AP2 to EP1- we have the following sample dates:

Aug 12, 2005 Aug 23, 2005 Aug 30. 2005 Sept 9, 2005 -Sept 12, 2005 Sept 21, 2005\*

\*upcoming sampling date

We have lab results up thru Sept 9, 2005 with lab results for Sept 12 expected next week. With your approval I'd like to recommend we wait until we receive the Sept 12 results (that will give you a months data). At which point, Giant will formally request a modification to the sampling schedule. I'll also forward all the lab results to NMED and OCD.

-----Original Message----- **From:** Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us] **Sent:** Tuesday, September 20, 2005 10:03 AM **To:** jromero@giant.com **Subject:** Sampling EP-1 to AL2

James

As we mentioned in the conference call to email or fax the analytical results for EP1 to AL2 and we will get back to you. I only have results for 8/23 and 8/30. If you have sent more please let me know.

Thanks Hope

You can get this to me next week when you get back from training.

Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

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From:	James Romero [jromero@glank.com] Sent: Tue 9/20/2005 11:06 AM
To:	James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Cobrain, Dave, NMENV
Cc:	Ed Riege; Steve Morris; Johnny Sanchez
Subject:	RE: Weekly Reporting (Week Two)
Attachmen	
The followin	ng is a summary of week two:
	antinuing work on paration larger 2
- Betwee - Loads f	ontinuing work on aeration lagoon 2 n 9/13/05 - 9/19/05 36 trucks of oily wastewater were removed from aeration lagoon 2 rom the 55,000bbl tanks = 7/200bbl loads of sludge removed from tank and returned to process 30 truck loads of water removed
from Pilot v again whicl via telepho 3) The new 4) Weekly I	tewater line from the Pilot travel center failed causing a spill which was reported to OCD. During this time, all wastewat vas diverted into pond 9. The pipe was fixed on 9/16 and flow was returned to lagoon 1. However, on 9/17 the pipe failed and repaired on 9/17. Again, flow was diverted into pond 9 until the repair was made. This was reported to OCD the 9/19. Moreover, a new valve was installed at the Pilot diversion where flows are diverted into pond 9 or aeration lago chopper pump should arrive this week, however, a new control valve is needed which could delay installation by 4-6 we ab results were received for the week of 9/5/05 (sampling date 9/9/05) Benzene=ND, Toluene=ND, Ethybenzene=ND,
A comple 5) A confer was and ar	tal= 20ppb ete report/lab results will be forward to OCD and NMED. Other weekly sampling dates are 9/12/05 and 9/21/05 ence call was held between OCD, NMED, Precision Engineering, and Giant to discuss the installation of two new monit d one boring. A report will be sent to OCD and NMED asking for concurrence of our plan prior to drilling. on on the RR Lagoon was completed and additional soil samples were taken (lab results expected next week)
To: Cc:	t: Thursday, September 15, 2005 1:33 PM 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez@state.nm.us' Ed Riege; Steve Morris; Johnny Sanchez <b>ject:</b> RE: Weekly Reporting (Week One)
Way	ne, the following is a summary of week one:
1) T the s 2) B	ne oil on the old separator was all removed by late Friday (see attached pic). Our maintenance manager is 90% positive source of the oil was the FCC unit storm drain. We've ordered absorbents to place in the storm drains etween 9/8/05 thru 9/12/05 34 trucks of sludge and 8 trucks of water have been removed.
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From: James Romero [mailto:jugnero@giant.com] Sent: Fri 9/9/2005 1:07 PM To: Price, Wayne, EMNRD Subject: Weekly Reporting

Wayne, Lets plan on me getting our weekly to you every Wednesday.

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] **Sent:** Friday, September 09, 2005 11:55 AM **To:** James Romero **Subject:** RE: Spill Report (daily update for 8/

James, you may back off of the daily report and submit weekely until the emergency is over.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Tue 9/6/2005 9:52 AM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for Sept 2,3,4, and 5

I was out of the office on Friday for the holiday weekend. Below is a summary of the weekend activities

1) 58 trucks of wastewater/oilywater removed over the weekend

2) 400 barrels of slop oil was removed from east tank (55,000 barrel tank) and reintroduced

3) Visual inspections over the weekend were good

-----Original Message----- **From:** James Romero **Sent:** Thursday, September 01, 2005 3:10 PM **To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' **Cc:** Steve Morris **Subject:** RE: Spill Report (daily update for 8/

Daily update for 9/1/05

1) Continued to clean ponds

2) All equipment and material has been scheduled for receipt on or before 10 September 2005

3) All new instrumentation has been specified and material requests have been submitted to purchasing

4) All new electrical equipment and materials have been specified and material requests have been submitted to purchasing

5) Maintenance work on API bay east bay is underway to repair sludge roller

6) Visual inspections thru the night were good

-----Original Message-----From: James Romero Sent: Wednesday, August 31, 2005 3:04 PM To: the Romero; 'Price, Wayne, EMNRD'; 'hop to nzeglio@state.nm.us'; 'denny.foust@state.nm.us' Cc: Steve Morris Subject: RE: Spill Report (daily update for 8/

Daily update for 8/31/05

1) Removed 17 trucks of water at the 55,000 barrel tanks

2) Utilized a 200 barrel truck (underway) to remove sludge from other tank, this will be reintroduced

3) visual inspections thru the night were good

-----Original Message-----From: James Romero Sent: Tuesday, August 30, 2005 3:13 PM To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' Cc: Steve Morris Subject: RE: Spill Report (daily update for 8/

Daily update for 8/30/05

 New techniques were used today in an effort to suck more oil and less water
 Water is being drained from the water tank and is being put back into the api system

3) The oil tank will be pumped out later this week and oil reintroduced into the process

4) Conducted our second weekly grab sampled per NMED (tests results on the first sample have not been received)

5) visual inspection thru the night were good

-----Original Message----- **From:** James Romero **Sent:** Monday, August 29, 2005 2:37 PM **To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' **Cc:** Steve Morris **Subject:** RE: Spill Report (daily update for 8/

Daily update for 8/29/05

1) Riley is contuning operations to clean ponds

2) Water is now being removed from 55,000 barrel tanks and sent back to API

As of 28Aug05 61 trucks (60barrels/each) of water has been removed from tanks

3) Visual Inspections thru the weekend and night were good

Attached are spreadsheets showing truck numbers for pond clean out and water from tanks to api

-----Original Message----- **From:** James Romero **Sent:** Tuesday, August 23, 2005 2:57 PM **To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' **Cc:** Steve Morris **Subject:** RE: Spill Report (daily update for 8/22/05 and 8/23/05)

Attached is a spreadsheet showing our daily truck counts for 8/22. Moreover, all operations to clean the ponds are moving forward and making progress. Continued visual inspections during nighttime hours have not documented any new spills around the



-----Original Message-----

From: James Romero
Sent: Thursday, August 18, 2005 3:17 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'
Cc: Ed Riege; Steve Morris; James Romero; Johnny Sanchez
Subject: RE: Spill Report (daily update for 8/18/05)

### Daily update for 8/18/05

1) Riley started operations to clean ponds, approximately 4000 barrels were removed today

2) Visual inspections thru the night were all good

3) Started release of water from lower storm water basin

4) Completed spill/remediation plan (should go out tomorrow Friday)

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] Sent: Thursday, August 18, 2005 7:30 AM To: James Romero Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby Subject: RE: Spill Report (daily update for 8/17/05)

OCD hereby approves of your request.

Please be advised that NMOCD approval of this request does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com] Sent: Wed 8/17/2005 12:27 PM To: Price, Wayne, EMNRD Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby Subject: RE: Spill Report (daily update for 8/17/05)

Wayne, Hope:

Per OCD's contain here is our daily update:

1) We just received the lab results (via telephone) on Storm water Outfall #1

Benzene	ND
EthylBen	ND
Toluene	.35ppb
Xylene	2.1ppb

With these tests results, and due to the fact the lower storm water basin is at capacity, we'd like your approval to release water off property.

2) Riley Industrial is onsite and unplugging the process sewer lines to the weir box.

3) The outlet to the upper storm water basin has been plugged to contain the spill

If you have any questions please feel free to call me anytime, James

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] **Sent:** Tuesday, August 16, 2005 8:01 AM

**To:** Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV;

foust.denny@state.nm.us Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: RE: Spill Report

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: Price, Wayne, EMNRD Sent: Tue 8/16/2005 8:59 AM To: James Romero; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: RE: Spill Report

OCD hereby approves of the emergency actions with the following conditions:

1. All water sales from the ponds shall cease, unless approved by OCD.

2. No stormwater shall be

released that exceeds the WQCC standards.

3. The emergeny actions shall be continous (24 hour) until API problem is correct.

 A daily E-mail report shall be submitted until emergency is over.
 Giant shall isolate the other ponds, if possible during the emergency condition.

Please be advised that NMOCD approval of this plan does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com] Sent: Mon 8/15/2005 5:12 PM To: Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: Spill Report

### Wayne,

As we discussed via telephone today, our API pump motor is not working

properly (20-30% capacity) which resulted in a reportable discharge into our

aeration poons. Samples were gathered and lab results were received today

on Lagoon 2, and Evap Pond 1 (see below). I will follow up this email with

a formal C-141 spill report. Moreover, I will submit pics, lab results, and a site map, etc.

However, as an interim measure, and with your approval, we are taking the following actions:

(1) Vac-trucks will be used to pump and clean out the aeration lagoons/API sump

(2) Interim emergency storage of material within two 55,000 barrel tanks

located on western part of the property (map will follow hard copy).

(3) A chopper pump will be installed and has been ordered (replacement of old API pump)

LAB RESULTS

Lagoon 2 Evap Pond 1

 MTBE
 88 ppb

 60 ppb
 60 ppb

 Benzene
 306 ppb

 1000 ppb
 76 ppb

 Toluene
 8.7 ppb

 76 ppb
 2.5

 ppb
 <10.0 ppb</td>

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Price, Wayne, EMNRD
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From:James Romero [jromero@gia...com]To:Monzeglio, Hope, NMENV; James Romero; Ed RiegeCc:Price, Wayne, EMNRD; Cobrain, Dave, NMENVSubject:RE: Evaporation Pond wells

Attachments:

Hope, prior to our letter lets plan on discussing the details with Bill Kingsley via conference call. Let me check his schedule and get back to you with a cpl of dates/times

-----Original Message----- **From:** Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us] **Sent:** Monday, September 19, 2005 11:35 AM **To:** jromero@giant.com; eriege@giant.com **Cc:** Price, Wayne, EMNRD; Cobrain, Dave, NMENV **Subject:** Evaporation Pond wells

James

I am following up on your voice message about the well installation for wells around the evaporation ponds. Prior to installing the wells please submit a letter that describes the proposed well installation activities, specifics of the proposed well installation, include the proposed well design and a map indicating the monitoring well locations.

If you would like to set up a conference call with NMED and the consultant installing the wells (from your voice message appears to be Bill Kingsley) to discuss the well installations please let me know.

Thanks

Hope

Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

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ent: Mon 9/19/2005 12:54 PM

Attachmen	nts can contain viruses that may your comp	outer. Attachments may not display q	jy.
Price, Way	ne, EMNRD		
From:	James Romero [jromero@giant.com]	· · ·	Sent: Fri 9/16/2005 2:27 PM
То:	Price, Wayne, EMNRD; James Romero; Monz cobrain.david@state.nm.us	eglio, Hope, NMENV; foust.denny@st	ate.nm.us; Chavez, Carl J, EMNRD;
Cc:	Steve Morris; Johnny Sanchez		
Subject:	RE: Spill Report	·	
Attachment	S: 🗋 <u>Picture 039.jpg(2MB)</u> 🗋 <u>Picture 040.jpg</u> (2	<u>2MB)</u>	
Attached are	e photos showing the piping from the sto	rm water basin and the new but	tterfly valves
	Driginal Message		
	n: Price, Wayne, EMNRD [mailto:wayne.	price@state.nm.us]	
	: Friday, September 09, 2005 2:33 PM		
	lames Romero; Monzeglio, Hope, NMENV	'; foust.denny@state.nm.us; Ch	navez, Carl J, EMNRD;
	ain.david@state.nm.us		
	Ed Riege; Steve Morris; Johnny Sanchez;	Ed RIOS	
Subj	ect: RE: Spill Report		
Than	ks James for you quick response.		
Wayı	ne Price-Senior Environmental Engr.		
	onservation Division		
	S. Saint Francis		
	a Fe, NM 87505		
Tele:	ail wayne.price@state.nm.us 505-476-3487		
Fax:	505-4763462		
i ux.	000-1100-02		
	n: James Romero [mailto:jromero@giant :: Fri 9/9/2005 2:38 PM	.com]	
To: F	Price, Wayne, EMNRD; James Romero; M RD; 'cobrain.david@state.nm.us'	onzeglio, Hope, NMENV; foust.	denny@state.nm.us; Chavez, Carl J,
Cc: E	Ed Riege; Steve Morris; Johnny Sanchez; ject: RE: Spill Report	Ed Rios	

#### Wayne

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

(1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.

(2) We have taken samples from the old API separator and will rush the analysis

(3) We have taken Hope's weekly sample, added MTBE, and will also be rushed

(4) We purchased and rushed ordered boom to install in pond 2

(4) We have began discussions with Precision regarding new wells

(5) We believe we have found the source of oil entering the old api. We are 90% sure of the location

but will need more time to make a definitive conclusion

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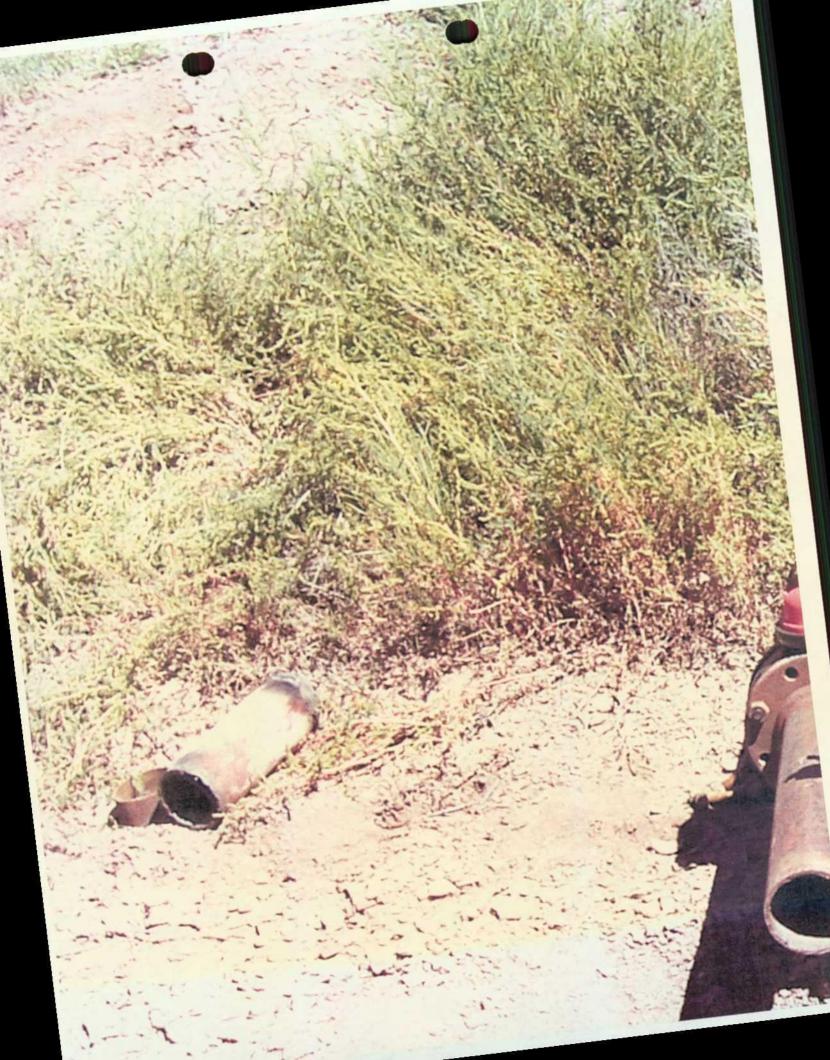




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om: : : bject: tachments:	James Romero [jromero@giant.com] Monzeglio, Hope, NMENV; Foust, Denny, EMNRD; Pr James Romero; Steve Morris RE: Spill sampling (Week three Summary)		Sent: Fri 9/16/2005 11:55 AM
: bject:	James Romero; Steve Morris		
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pe			
	received the lab analysis from last weeks san n time I'll forward them your way. Also, I did r spection.		
mes Rome	ero]		
Original I	Message		
	eglio, Hope, NMENV [mailto:hope.monzeglio@	state.nm.us]	
	ay, September 01, 2005 11:49 AM		
: James Ro	omero Spill sampling (Week One Summary)		
	Spin sampling (week One Summary)		
James			
The ele	ectronic version you emailed should be good.	. Thanks	
Норе			
Hope	Monzeglio		
	nmental Specialist		
	lexico Environment Department		
	dous Waste Bureau Rodeo Park Drive East, BLDG 1		
	Fe NM 87505		
	: (505) 428-2545		
Fax:	(505)-428-2567		
hope.n	nonzeglio@state.nm.us		·
Erom:	James Romero [mailto:jromero@giant.com]	******	na na na na na na na na na na na na na n
	Thu 9/1/2005 11:50 AM		
	onzeglio, Hope, NMENV		
Subje	ct: RE: Spill sampling (Week One Summary)		
Норе			
	eceived a complete electronic version of the l fax a copy over. Also, our second sample w		
	Original Message		
	From: Monzeglio, Hope, NMENV [mailto:hop		• •
	<b>Sent:</b> Thursday, September 01, 2005 10:33 <b>To:</b> jromero@giant.com	AM	

Subject: Spill sampling (Week One Summary)

James

Can you fax the full report of the analytical laboratory results including the chain of custody for AL-2 to EP-1 dated "31-Aug-05." Our fax number is 505-428-2567, att: Hope Monzeglio. Please note NMED required priority pollutant metals (13 metals) not RCRA metals. Please analyze the next effluent sample from aeration lagoon 2 for priority pollutant metals (total and dissolved). The 13 metals include antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc.

### Hope



Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

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## 8:01 AM

To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: RE: Spill Report

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: Price, Wayne, EMNRD Sent: Tue 8/16/2005 8:59 AM To: James Romero; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: RE: Spill Report

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2. No stormwater shall be released that exceeds the WQCC standards.

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 A daily E-mail report shall be submitted until emergency is over.
 Giant shall isolate the other ponds, if possible during the emergency condition.

Please be advised that NMOCD approval of this plan does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance

with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com] Sent: Mon 8/15/2005 5:12 PM To: Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: Spill Report

Wayne,

As we discussed via telephone today, our API pump motor is not working properly (20-30% capacity) which resulted in a reportable discharge into our aeration lagoons. Samples were gathered and lab results were received today on Lagoon 2, and Evap Pond 1 (see below). I will follow up this email with a formal C-141 spill report. Moreover, I will submit pics, lab results, and

a site map, etc.

However, as an interim measure, and with your approval, we are taking the following actions:

(1) Vac-trucks will be used to pump and clean out the aeration lagoons/API sump
(2) Interim emergency storage of material within two 55,000 barrel

tanks located on western part of the property (map will follow hard copy).

(3) A chopper pump will be installed and has been ordered

The following is a summary of week two:



1) Riley is continuing work on aeration lagoon 2

- Between 9/13/05 - 9/19/05 36 trucks of oily wastewater were removed from aeration lagoon 2

- Loads from the 55,000bbl tanks = 7/200bbl loads of sludge removed from tank and returned to proce 30 truck loads of water removed

2) The wastewater line from the Pilot travel center failed causing a spill which was reported to OCD. Dur from Pilot was diverted into pond 9. The pipe was fixed on 9/16 and flow was returned to lagoon 1. Howe again which and repaired on 9/17. Again, flow was diverted into pond 9 until the repair was made. This v via telephone 9/19. Moreover, a new valve was installed at the Pilot diversion where flows are diverted if 3) The new chopper pump should arrive this week, however, a new control valve is needed which could 4) Weekly lab results were received for the week of 9/5/05 (sampling date 9/9/05) Benzene=ND, Toluene Xylenes Total= 20ppb

A complete report/lab results will be forward to OCD and NMED. Other weekly sampling dates are 9/ 5) A conference call was held between OCD, NMED, Precision Engineering, and Giant to discuss the ins was and and one boring. A report will be sent to OCD and NMED asking for concurrence of our plan price 6) Excavation on the RR Lagoon was completed and additional soil samples were taken (lab results expe

-----Original Message-----

From: James Romero

Sent: Thursday, September 15, 2005 1:33 PM

**To:** 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'DFOUST@state.nm.us'; 'carlj.chavez **Cc:** Ed Riege; Steve Morris; Johnny Sanchez

Subject: RE: Weekly Reporting (Week One)

Wayne, the following is a summary of week one:

1) The oil on the old separator was all removed by late Friday (see attached pic). Our maintenance the source of the oil was the FCC unit storm drain. We've ordered absorbents to place in the storm 2) Between 9/8/05 thru 9/12/05 34 trucks of sludge and 8 trucks of water have been removed. Evaporation pond one has been cleaned (very little oil remaining) and all efforts have been move attached pic)

3) Samples from the old API and aeration 2 into evap pond 1 have been taken and are at the lab4) The diesel spill soil (25 cubic yards) has been moved to the land farm (see pic)

5) Water has been removed from the RR Lagoon. Fushe is onsite today excavating additional soil contamination. Aslo, they will back fill the area near the railroad due to concerns about stability of 6) A hazmat roll off has been ordered to haul all the F037 contaminated soil

7) A small spill (20 gallons) occurred 9/14/05 at Marketing tank #4. A formal C-141 was filed on 9/

8) As of today we have not received lab analysis for our weekly sample (Hope's weekly sample)

9) Butterfly valves have been installed on both stormwater basins

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] Sent: Friday, September 09, 2005 1:05 PM To: James Romero Subject: RE: Weekly Reporting

We will call you tuesday.

Wayne Price-Senior Environmental Engr.Oil Conservation Division1220 S. Saint FrancisSanta Fe, NM 87505E-mail wayne.price@state.nm.usTele:505-476-3487Fax:505-4763462

From: James Romero [mailto:jromero@giant.com] Sent: Fri 9/9/2005 1:07 PM To: Price, Wayne, EMNRD Subject: Weekly Reporting

Wayne, Lets plan on me getting our weekly to you every Wednesday.

-----Original Message-----



From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] Sent: Friday, September 09, 2005 11:55 AM To: James Romero Subject: RE: Spill Report (daily update for 8/

James, you may back off of the daily report and submit weekely until the emergency

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Tue 9/6/2005 9:52 AM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for Sept 2,3,4, and 5

I was out of the office on Friday for the holiday weekend. Below is a summary of the activities

1) 58 trucks of wastewater/oilywater removed over the weekend

2) 400 barrels of slop oil was removed from east tank (55,000 barrel tank) and reintr

3) Visual inspections over the weekend were good

-----Original Message----- **From:** James Romero **Sent:** Thursday, September 01, 2005 3:10 PM **To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' **Cc:** Steve Morris **Subject:** RE: Spill Report (daily update for 8/

Daily update for 9/1/05

1) Continued to clean ponds

2) All equipment and material has been scheduled for receipt on or befc. 2005

3) All new instrumentation has been specified and material requests has submitted to purchasing

4) All new electrical equipment and materials have been specified and requests have been submitted to purchasing

5) Maintenance work on API bay east bay is underway to repair sludge

6) Visual inspections thru the night were good

-----Original Message----- **From:** James Romero **Sent:** Wednesday, August 31, 2005 3:04 PM **To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.ni 'denny.foust@state.nm.us' **Cc:** Steve Morris **Subject:** RE: Spill Report (daily update for 8/

Daily update for 8/31/05

1) Removed 17 trucks menter at the 55,000 barrel tanks

2) Utilized a 200 barrel wask (underway) to remove sludge from other t reintroduced

3) visual inspections thru the night were good

-----Original Message-----

From: James Romero

Sent: Tuesday, August 30, 2005 3:13 PM

**To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@: 'denny.foust@state.nm.us'

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

#### Daily update for 8/30/05

 New techniques were used today in an effort to suck more oil
 Water is being drained from the water tank and is being put b system

3) The oil tank will be pumped out later this week and oil reintroprocess

4) Conducted our second weekly grab sampled per NMED (test first sample have not been received)

5) visual inspection thru the night were good

-----Original Message-----

From: James Romero

Sent: Monday, August 29, 2005 2:37 PM To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.u

Cc: Steve Morris

Subject: RE: Spill Report (daily update for 8/

Daily update for 8/29/05

1) Riley is contuning operations to clean ponds

2) Water is now being removed from 55,000 barrel tanks API

As of 28Aug05 61 trucks (60barrels/each) of water has from tanks

3) Visual Inspections thru the weekend and night were go

Attached are spreadsheets showing truck numbers for powater from tanks to api

### -----Original Message-----From: James Romero

Sent: Tuesday, August 23, 2005 2:57 PM To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@stat Cc: Steve Morris

**Subject:** RE: Spill Report (daily update for 8/22/C

Attached is a spreadsheet showing our daily truck Moreover, all operations to clean the ponds are m making progress. Continued visual inspections du nighttime hours have not documented any new sp API.

----Original Message----From: James Romero
Sent: Thursday, August 18, 2005 3:17 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzegl
Cc: Ed Riege; Steve Morris; James Romero

## **ject:** RE: Spill Report (daily update for

### Daily update for 8/18/05

 Riley started operations to clean ponds, 4000 barrels were removed today

2) Visual inspections thru the night were all3) Started release of water from lower storr.4) Completed spill/remediation plan (should Friday)

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] **Sent:** Thursday, August 18, 2005 7: **To:** James Romero **Cc:** Ed Rios; Ed Riege; Steve Morris; Sanchez; David Kirby **Subject:** RE: Spill Report (daily upd 8/17/05)

### OCD hereby approves of your req

Please be advised that NMOCD a this request does not relieve (Gian responsibility should their operati adequately investigate and remed contamination that pose a threat t water, surface water, human healt environment. In addition, NMOC approval does not relieve (Giant) responsibility for compliance witl other federal, state, or local laws regulations.

Wayne Price-Senior Environmental I Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: James Romero

[mailto:jromero@giant.com] Sent: Wed 8/17/2005 12:27 PM To: Price, Wayne, EMNRD Cc: Ed Rios; Ed Riege; Steve Morris; Sanchez; David Kirby Subject: RE: Spill Report (daily upd 8/17/05)

Wayne, Hope:

Per OCD's condition here is our daily

1) We just received the lab results (v telephone) on Storm water Outfall #' Benzene ND

EthylBen ND Toluene .35ppl



## Xylene 2.1ppl

With these tests results, and due to t lower storm water basin is at capacit your approval to release water off pr

2) Riley Industrial is onsite and unplu process sewer lines to the weir box.

3) The outlet to the upper storm wate has been plugged to contain the spil

If you have any questions please fee call me anytime, James

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nn **Sent:** Tuesday, August 16, 2( 8:01 AM **To:** Price, Wayne, EMNRD; Ja Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us **Cc:** Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios **Subject:** RE: Spill Report

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm.us Tele: 505-476-3487 Fax: 505-4763462

From: Price, Wayne, EMNRD Sent: Tue 8/16/2005 8:59 AN To: James Romero; Monzeglin Hope, NMENV; 'foust.denny@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: RE: Spill Report

OCD hereby approves of the emergency actions with the following conditions:

1. All water sales from the pr shall cease, unless approved OCD.

2. No stormwater shall be released that exceeds the WC standards.

3. The emergeny actions shabe continous (24 hour) until A problem is correct.

4. A daily E-mail report shall submitted until emergency is (



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From: James Romero [mailto:jromero@giant.com] Sent: Mon 8/15/2005 5:12 PI To: Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: Spill Report

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LAB RESULTS Lagoon 2 Evap Pon

MTBE	88 p
6	0 ppb
Benzene	306 ppb
1000 p	pb
Toluene	8.7
7	'6 ppb
Ethylbenzen	e <:
ppb	<10.0 ppb

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foust.denny@state.nm Cc: Ed Riege; Steve Me Johnny Sanchez; Ed Ri-Subject: RE: Spill Rep

Wayne Price-Senior Environmental Engr. Oil Conservation Divisi 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm Tele: 505-476-3487 Fax: 505-4763462

From: Price, Wayne, E Sent: Tue 8/16/2005 { To: James Romero; Mc Hope, NMENV; 'foust.denny@state.nm Cc: Ed Riege; Steve Mi



#### Johnny Sanchez; Ed Ri Subject: RE: Spill Rep

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Wayne Price-Senior Environmental Engr. Oil Conservation Divisi 1220 S. Saint Francis Santa Fe, NM 87505 E-mail wayne.price@state.nm Tele: 505-476-3487 Fax: 505-4763462

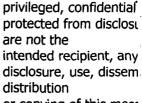
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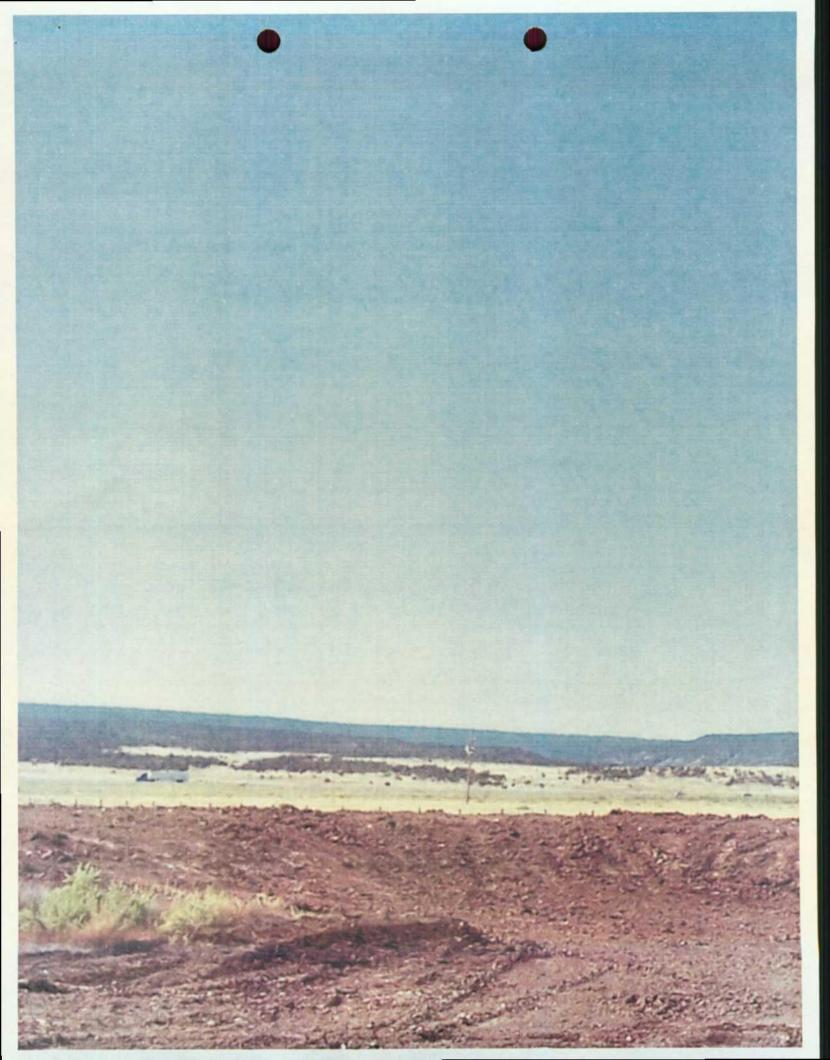
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505



State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

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

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Name of Co	mnony G	liant Industri	ac Inc			OPERA			tial Report		Final Repor
Address Rt		maint mousur	es, me.			Contact James Romero/Steve Morris Telephone No. 505-722-0227					
		ndustries, In	<b>c</b> .			Facility Type Refinery					
Surface Ow	mer Giant	Industries, In	IC.	Mineral (	Jwner (	Giant Indust	ries, Inc.	Lease	No.	<u> </u>	
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Unit Letter	Section 33	Township 15N	Range 15W	Feet from the	North	/South Line	Feet from the	East/West Line	e County McKinle	у У	
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By Whom?						Date and I	Iour 9/14/05@1	0:31 am			
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If a Waterco	urse was Im	pacted, Descr	ibe Fully.		· · · _						
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regulations a public health should their or the enviro	all operators or the envi operations h onment. In a	are required t ronment. The nave failed to a	o report an acceptance adequately OCD accept	nd/or file certain ce of a C-141 rep investigate and	release r ort by th remediat	notifications a ne NMOCD n te contaminat	knowledge and und perform corre- narked as "Final Rion that pose a three the operator of	ctive actions for a Report" does not a reat to ground wa	releases which relieve the op iter, surface	ch may o perator o water, h	endanger of liability uman health
	<u></u>		>		1		OIL CON	SERVATIO	N DIVIS	ION	
Signature:				>							
Printed Name: JAMES ROMERO			Approved by District Supervisor:								
Title: Environmental Engineer			Approval Da	oval Date: Expiration Date:							
E-mail Addı	ess: Jromer	ro@Giant.com	1			Conditions of	f Approval:	:	Attach	ed 🗌	
Date: 9/15/	05 Phone:	505-722-0227	7								
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					-		G	OIL CONSE DIVIS		N	

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Price, Way	/ne, EMNRD	
From:	Monzeglio, Hope, NMENV	Sent: Tue 9/13/2005 11:07 AM
То:	eriege@giant.com; James Romero [jromero@giant.com]; Ste	eve Morris (smorris@giant.com)
Cc:	Foust, Denny, EMNRD; Cobrain, Dave, NMENV; Price, Wayne	e, EMNRD
Subject:	9/8/05 visit	
Attachmen	ts:	

Ed

Below is a summary from NMED and OCD's site visit that occurred on 9/8/05. These comments are from NMED only and separate from OCD. OCD will follow up with their comments from the site visit separately.

1. NMED and OCD changed the daily spill report updates pertaining to the API Separator status and spill cleanup from a daily basis to a weekly basis.

2. NMED requirement of weekly effluent sample from aeration lagoon (AL) 2 to evaporation pond (EP) 1, the analytical analysis for 8260 short list must include MTBE.

3. NMED and OCD are requiring Giant to install two monitoring wells. One well must be installed on the NW corner of EP 1 and the other monitoring well must be located in the NW corner of Aeration Lagoon 2. The monitoring wells must be installed approximately 20 feet below grade but above the sand stringer lens that GWM-1 was completed in. The wells must be installed in the clay to determine if the AL's and EP's are leaking. Giant must submit a letter that describes the proposed well installation activities and include the proposed well design and a map indicating the monitoring well locations.

3. Groundwater monitoring: It was agreed by NMED and OCD, that monitoring wells having extremely slow recharge rates do not need require three well purge volumes. These wells must be bailed dry to ensure the sample is from formation water prior to sampling. All sampling activities must be documented and described in the yearly groundwater monitoring report.

4. Giant will provide NMED and OCD with well casing elevations and the measurements of the well stick up (measurement from the concrete pad to the top of the well casing that exists above ground).

5. NMED will send Giant a letter requesting a Remedy Completion Report for Rail Road Rack Lagoon. This will include reporting requirements and confirmation that this report will also satisfy OCD closure requirements.

6. Proposed fire water storage area – The following was discussed: Giant will need to advance a soil boring in the center of the proposed basin and collect a sample for permeability testing. The boring must be drilled to the Sonsela to determine its location within the basin. Wayne Price requested a sample of the clay be sent to him. OCD will likely require that this basin be lined. Giant must correspond with OCD for requirements but cc NMED on all correspondence.

7. OCD is requiring values be put on the end of the storm water discharge pipes to allow for shutoff in the event of an emergency to prevent the release of contaminants offsite. Details will be discussed with OCD.

8. A sample of the oil present on the storm water must be collected from the Old API Separator and analyzed for General Chemistry, EPA Method 8260 full suite, EPA Method 8270 full suites, RCRA 8 metals totals and fuel fingerprint. NMED requires Giant to identify the source of oil.

If you have questions please call me.

Hope

Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1

Price, Way	yne, EMNRD	
From:	Monzeglio, Hope, NMENV	Sent: Mon 9/12/2005 2:14 PM
то:	Ed Riege	
Cc:	Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romer	o; Steve Morris; Ted Gonzales; Ed Rios
Subject:	RE: sampling	
Attachmon	•~·	

#### Attachments:

Ed

Thanks for the update. If the lab can do a fuel fingerprint on the effluent sample from the Old API Separator, have that analyzed.

Thanks Hope

Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

From: Ed Riege [mailto:eriege@giant.com]
Sent: Mon 9/12/2005 2:13 PM
To: Monzeglio, Hope, NMENV
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris; Ted Gonzales; Ed Rios
Subject: RE: sampling

Hope, I just got off the phone with the Ciniza maintenance manager Ted Gonzales and he stated that the oil on the old separator was all removed by late Friday so there is no oil to sample. They are almost positive that the source of the oil was the FCC unit storm drain, I will keep you posted. Thanks Ed

-----Original Message-----From: Ed Riege Sent: Monday, September 12, 2005 2:56 PM To: 'Monzeglio, Hope, NMENV' Cc: 'wayne.price@state.nm.us'; 'dave.cobrain@state.nm.us'; James Romero; Steve Morris Subject: RE: sampling

#### Hope,

I am at Bloomfield today, James is off and Steve was in Albuqerque this morning delivering a sample of effluent water from the old API separator that was taken on Friday. The oil present on the stormwater in the old API separator is about 1/8 to 3/16 inch thickness. The design of the separator will not allow this oil to be discharged to the ponds. The oil is skimmed off with a separator skimmer. Steve will call the lab and see if they can do a fuel fingerprint on the effluent and also order general chemistry in addition to the 8260 and 8270. Do you still want the oil sampled and analyzed? Steve said the lab considers 72 hours as rush.

Thanks Ed

-----Original Message----- **From:** Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us] **Sent:** Monday, September 12, 2005 10:02 AM **To:** jromero@giant.com; eriege@giant.com; smorris@giant.com **Cc:** Cobrain, Dave, NMENV; Price, Wayne, EMNRD **Subject:** sampling

Ed and James

I left you both voice messages but was cut off. My voice mail pertains to the following.

The sample collected from the old API Separator, should be a sample of oil present on the storm water and analyzed for General Chemistry, EPA Method 8260 full suite, EPA Method 8270 full suite, RCRA 8 metals totals and fuel fingerprint.

James in reference to rush analysis the weekly sample from AL2 to EP1 and the old turn around.

Separator sample can be a 72 hour

I will be sending an email that summarizes NMED and OCD's visit.

If you have questions give me a call.

Hope

Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

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То:	Monzeglio, Hope, NMENV	
Cc:	Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James R	omero; Steve Morris; Ted Gonzales; Ed Rios
Subject:	RE: sampling	
Attachmen	ts:	
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Thanks Ed

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From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us] Sent: Monday, September 12, 2005 10:02 AM To: jromero@giant.com; eriege@giant.com; smorris@giant.com Cc: Cobrain, Dave, NMENV; Price, Wayne, EMNRD Subject: sampling

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Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us This email and any files transmitted with it are of

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#### Price, Wayne, EMNRD

From:	Monzeglio, Hope, NMENV
То:	Ed Riege
Cc:	Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris
Subject:	RE: sampling
A data a la ma a mé	

#### Attachments

Ed

Thanks for the response. I will get back to you on the oil sample. Have you determined the source of the oil?

#### Thanks

Hope

Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

From: Ed Riege [mailto:eriege@giant.com]
Sent: Mon 9/12/2005 1:56 PM
To: Monzeglio, Hope, NMENV
Cc: Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris
Subject: RE: sampling

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Hope

Hope Monzeglio Environmental Specialist New Mexico Environment Department Sent: Mon 9/12/2005 2:06 PM

Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG T Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

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Price, Way	ne, EMNRD	_Ô_	
From:	Ed Riege [eriege@giant.com]	Sent:	Mon 9/12/2005 1:56 PM
То:	Monzeglio, Hope, NMENV		
Cc:	Price, Wayne, EMNRD; Cobrain, Dave, NMENV; James Romero; Steve Morris		
Subject:	RE: sampling		
Attachmen	ts:		

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-----Original Message-----

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Monday, September 12, 2005 10:02 AM
To: jromero@giant.com; eriege@giant.com; smorris@giant.com
Cc: Cobrain, Dave, NMENV; Price, Wayne, EMNRD
Subject: sampling

Ed and James

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Price, Way	yne, EMNRD	
From:	Robinson, Kelly [KRobinson@PIRNIE.COM]	Sent: Mon 9/12/2005 1:36 PM
То:	Monzeglio, Hope, NMENV	
Cc:	Price, Wayne, EMNRD; Foust, Denny, EMNRD; Ed Riege; Randy Schmaltz	
Subject:	Voluntary Corrective Measures Bioventing Monitoring Plan	
Attachmen	ts:	

On behalf of Giant Refining Company Bloomfield (GRCB), Malcolm Pirnie, Inc. is pleased to submit to the State of New Mexico Environmental Department (NMED) the Voluntary Corrective Measures Bioventing Monitoring Plan for the River Terrace Sheet Pile Area at the Giant Bloomfield Refinery. This monitoring plan supplements the July 15, 2005 River Terrace Voluntary Corrective Measures Work Plan (VCM Work Plan), and includes the additional information requested by NMED in the July 28, 2005 letter to Giant Refining Company.

We are looking forward to receiving your approval of the river terrace monitoring plan. A hard copy of this plan is scheduled to be delivered to you on Monday, September 12, 2005. If you have any questions in this matter, please contact Randy Schmaltz at 505-632-4171.

#### Sincerely,

#### Kelly Robinson

Engineer

Malcolm Pirnie, Inc.

4646 E. Van Buren, Suite 400

Phoenix, AZ 85008

Fax: 602-231-0131

**Direct:** 602-797-4628

E-Mail: krobinson@pirnie.com

# Price, Wayne, EMNRD Sent: Mon 9/12/2005 9:02 AM From: Monzeglio, Hope, NMENV Sent: Mon 9/12/2005 9:02 AM To: James Romero [jromero@giant.com]; eriege@giant.com; Steve Morris (smorris@giant.com) Cc: Cobrain, Dave, NMENV; Price, Wayne, EMNRD Subject: sampling

Attachments:

Ed and James

I left you both voice messages but was cut off. My voice mail pertains to the following.

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I will be sending an email that summarizes NMED and OCD's visit.

If you have questions give me a call.

Hope

Hope Monzeglio Environmental Specialist New Mexico Environment Department Hazardous Waste Bureau 2905 Rodeo Park Drive East, BLDG 1 Santa Fe NM 87505 Phone: (505) 428-2545 Fax: (505)-428-2567 hope.monzeglio@state.nm.us

Price, Way	ne, EMNRD				
From:	Price, Wayne, EMNRD	Sent: Fri 9/9/2005 3:32 PM			
то:	James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us'				
Cc:	Ed Riege; Steve Morris; Johnny Sanchez; Ed Rio	s			
Subject:	RE: Spill Report				
Attachmen	ts:				
hanks Jan	nes for you quick response.				
Vayne Pric	e-Senior Environmental Engr.				
	vation Division				
	int Francis				
Santa Fe, N	IM 87505				

From: James Romero [mailto:jromero@giant.com]
Sent: Fri 9/9/2005 2:38 PM
To: Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD; 'cobrain.david@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: RE: Spill Report

#### Wayne

Tele:

Fax:

E-mail wayne.price@state.nm.us

505-476-3487 505-4763462

Give me a call when your free I'd like discuss the action items from yesterdays inspection: We have issued high priority work orders to install butterfly valves on our storm water outfalls, remove soil impacted from diesel spill to land farm, and pump out water from RR lagoon. These work orders will be completed today. Also, below are other items we discussed during your inspection

(1) The diesel spill (the 25 cubic yard of soil) was reported to your office on 7/20/05 by Steve Morris which reported a release of 630 gallons of diesel.

(2) We have taken samples from the old API separator and will rush the analysis

(3) We have taken Hope's weekly sample, added MTBE, and will also be rushed

(4) We purchased and rushed ordered boom to install in pond 2

(4) We have began discussions with Precision regarding new wells

(5) We believe we have found the source of oil entering the old api. We are 90% sure of the location but will need more time to make a definitive conclusion

W You forwarded this message on 9/9/2005 PM.			
From:	James Romero [jromero@giant.com]	Sent: Fri 9/9/2005 3:24 PM	
To:	Monzeglio, Hope, NMENV; Price, Wayne, EMNRD		
Cc:			
Subject:	Denny and Dave		
Attachmen	ts:		

Hope, Wayne

For some reason emails to Denny and Dave Cobrain are being returned. Would you have their correct email address? Also, I wanted to add two more action items we will be working on. Once we get the boom deployed, we'll start on clean up of pond 2 removing oil and cleaning the banks

W You replied on 9/9/2005 3:32 PM.					
Price, Way	/ne, EMNRD				
From:	James Romero [jromero@giant.com]	Sent: Fri 9/9/2005 2:38 PM			
То:	Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMi 'cobrain.david@state.nm.us'	ENV; foust.denny@state.nm.us; Chavez, Carl J, EMNRD;			
Cc:	Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios				
Subject:	RE: Spill Report				
Attachment	ts:				

#### Wayne

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#### Price, Wayne, EMNRD

÷,

From:

Price, Wayne, EMNRD

Sent: Fri 9/9/2005 12:54 PM

 To:
 James Romero

 Cc:
 Subject:

 RE: Spill Report (daily update for 8/

 Attachments:

James, you may back off of the daily report and submit weekely until the emergency is over.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail <u>wayne.price@state.nm.us</u> Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Tue 9/6/2005 9:52 AM
To: James Romero; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Foust, Denny, EMNRD
Cc: Steve Morris
Subject: RE: Spill Report (daily update for 8/

Daily update for Sept 2,3,4, and 5

I was out of the office on Friday for the holiday weekend. Below is a summary of the weekend activities

1) 58 trucks of wastewater/oilywater removed over the weekend

2) 400 barrels of slop oil was removed from east tank (55,000 barrel tank) and reintroduced

3) Visual inspections over the weekend were good

-----Original Message----- **From:** James Romero **Sent:** Thursday, September 01, 2005 3:10 PM **To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' **Cc:** Steve Morris **Subject:** RE: Spill Report (daily update for 8/

Daily update for 9/1/05

1) Continued to clean ponds

2) All equipment and material has been scheduled for receipt on or before 10 September 2005

3) All new instrumentation has been specified and material requests have been submitted to purchasing

4) All new electrical equipment and materials have been specified and material requests have been submitted to purchasing

5) Maintenance work on API bay east bay is underway to repair sludge roller

6) Visual inspections thru the night were good

-----Original Message-----From: James Romero Sent: Wednesday, August 31, 2005 3:04 PM To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' Cc: Steve Morris Subject: RE: Spill Report (daily update for 8/

Daily update for 8/31/05

1) Removed 17 trucks of water at the 55,000 barrel tanks

2) Utilized a 200 barrel truck (underway) to remove sludge from other tank, this will be reintroduced

3) visual inspections thru the night were good

----Original Message-

From: James Romero Sent: Tuesday, August 30, 2005 3:13 PM To: James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' Cc: Steve Morris Subject: RE: Spill Report (daily update for 8/

Daily update for 8/30/05

1) New techniques were used today in an effort to suck more oil and less water

2) Water is being drained from the water tank and is being put back into the api system

3) The oil tank will be pumped out later this week and oil reintroduced into the process

4) Conducted our second weekly grab sampled per NMED (tests results on the first sample have not been received)

5) visual inspection thru the night were good

-----Original Message----- **From:** James Romero **Sent:** Monday, August 29, 2005 2:37 PM **To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' **Cc:** Steve Morris **Subject:** RE: Spill Report (daily update for 8/

#### Daily update for 8/29/05

1) Riley is contuning operations to clean ponds

2) Water is now being removed from 55,000 barrel tanks and sent back to API

As of 28Aug05 61 trucks (60barrels/each) of water has been removed from tanks

3) Visual Inspections thru the weekend and night were good

Attached are spreadsheets showing truck numbers for pond clean out and water from tanks to api

-----Original Message----- **From:** James Romero **Sent:** Tuesday, August 23, 2005 2:57 PM **To:** James Romero; 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'; 'denny.foust@state.nm.us' **Cc:** Steve Morris **Subject:** RE: Spill Report (daily update for 8/22/05 and 8/23/05)

Attached is a spreadsheet showing our daily truck counts for 8/22. Moreover, all operations to clean the ponds are moving forward and making progress. Continued visual inspections during nighttime hours have not documented any new spills around the API.

-----Original Message----From: James Romero
Sent: Thursday, August 18, 2005 3:17 PM
To: 'Price, Wayne, EMNRD'; 'hope.monzeglio@state.nm.us'
Cc: Ed Riege; Steve Morris; James Romero; Johnny Sanchez
Subject: RE: Spill Report (daily update for 8/18/05)

Daily update for 8/18/05

1) Riley started operations to clean ponds, approximately 4000 barrels were removed today

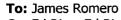
2) Visual inspections thru the night were all good

3) Started release of water from lower storm water basin

4) Completed spill/remediation plan (should go out tomorrow Friday)

-----Original Message-----

From: Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] Sent: Thursday, August 18, 2005 7:30 AM



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**Cc:** Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby **Subject:** RE: Spill Report (daily update for 8/17/05)

#### OCD hereby approves of your request.

Please be advised that NMOCD approval of this request does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail <u>wayne.price@state.nm.us</u> Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Wed 8/17/2005 12:27 PM
To: Price, Wayne, EMNRD
Cc: Ed Rios; Ed Riege; Steve Morris; Johnny Sanchez; David Kirby
Subject: RE: Spill Report (daily update for 8/17/05)

Wayne, Hope:

Per OCD's condition here is our daily update:

1) We just received the lab results (via telephone) on Storm water Outfall #1 Benzene ND

ND
.35ppb
2.1ppb

With these tests results, and due to the fact the lower storm water basin is at capacity, we'd like your approval to release water off property.

2) Riley Industrial is onsite and unplugging the process sewer lines to the weir box.

3) The outlet to the upper storm water basin has been plugged to contain the spill

If you have any questions please feel free to call me anytime, James

-----Original Message----- **From:** Price, Wayne, EMNRD [mailto:wayne.price@state.nm.us] **Sent:** Tuesday, August 16, 2005 8:01 AM **To:** Price, Wayne, EMNRD; James Romero; Monzeglio, Hope, NMENV; foust.denny@state.nm.us **Cc:** Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios **Subject:** RE: Spill Report

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis

Santa Fe, NM 87505 E-mail <u>wayne.price@state.nm.us</u> Tele: 505-476-3487 Fax: 505-4763462

From: Price, Wayne, EMNRD Sent: Tue 8/16/2005 8:59 AM To: James Romero; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us' Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios Subject: RE: Spill Report

OCD hereby approves of the emergency actions with the following conditions:

1. All water sales from the ponds shall cease, unless approved by OCD.

2. No stormwater shall be released that exceeds the WQCC standards.

3. The emergeny actions shall be continous (24 hour) until API problem is correct.

4. A daily E-mail report shall be submitted until emergency is over.

5. Giant shall isolate the other ponds, if possible during the emergency condition.

Please be advised that NMOCD approval of this plan does not relieve (Giant) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Giant) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 E-mail <u>wayne.price@state.nm.us</u> Tele: 505-476-3487 Fax: 505-4763462

From: James Romero [mailto:jromero@giant.com]
Sent: Mon 8/15/2005 5:12 PM
To: Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; 'foust.denny@state.nm.us'
Cc: Ed Riege; Steve Morris; Johnny Sanchez; Ed Rios
Subject: Spill Report

Wayne,

As we discussed via telephone today, our API pump motor is not working properly (20-30% capacity) which resulted in a reportable discharge into our aeration lagoons. Samples were gathered and lab results were received today

¥ 4 × 1



on Lagoon 2, and Evap Pond 1 (see below). I will follow up this email with a formal C-141 spill report. Moreover, I will submit pics, lab

results, and a site map, etc.

However, as an interim measure, and with your approval, we are taking the following actions:

(1) Vac-trucks will be used to pump and clean out the aeration lagoons/API

sump

(2) Interim emergency storage of material within two 55,000 barrel tanks

located on western part of the property (map will follow hard copy).

(3) A chopper pump will be installed and has been ordered (replacement of

old API pump)

LAB RESULTS Lagoon 2

Evap Pond 1

MTBE	88 ppb	60 ppb
Benzene	306 ppb	1000 ppb
Toluene	8.7 ppb	76 ppb
Ethylbenzene	<2.5 ppb	<10.0 ppb

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#### MEETING SUMMARY GIANT REFINING COMPANY – CINIZA REFINERY SITE VISIT SEPTEMBER 8, 2005

The following summarizes hazardous waste releases at Giant Refining Company's Ciniza refinery based on a meeting between NMED, OCD and representatives of Giant Refining Company on September 8, 2005. The releases are related to events that reportedly occurred in August and September 2005 in the vicinity of the API Separator, Aeration Ponds 1 and 2, and the Evaporation Ponds.

API release #1:

A pipe failure occurred between the (new) API separator and benzene stripper #2. The release was the result of failure of a pump that conveys water from the API separator to the benzene strippers. Giant estimates that approximately 750 gallons of wastewater was released to a ditch, located on the east and north sides of the Aeration Ponds and Evaporation Pond 1, that drains downhill toward the west toward a storm water retention pond located west of Evaporation Pond 10. Approximately 5-10 cubic yards of soil contaminated by the release were removed from the ditch and stockpiled in the OCD land farm. The release occurred downstream of the API separator and upstream of the benzene strippers and aggressive biologic treatment (ABT) system; therefore, the waste codes for the released wastewater are D018 and F037 and, potentially, F038.

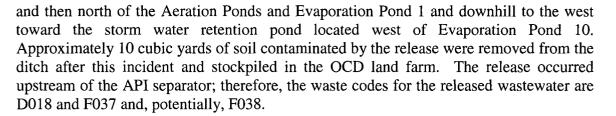
The pump was repaired in approximately two days. During the repair period, all refinery wastewater was routed from the API separator through benzene stripper #1 (approximately 60-120 gpm). Benzene was detected at a concentration (1 mg/L) greater than the maximum concentration for toxicity characteristic of 0.5 mg/L in a sample of Evaporation Pond 1 influent water (from Aeration Pond 2), collected during the period that benzene stripper #2 was off line. Therefore, the wastewater discharged from Aeration Pond 1 to Evaporation Pond 1 was characteristic for benzene (D018) during the period when all refinery wastewater was routed through benzene stripper #1. Benzene was not detected at a concentration greater than the toxicity characteristic of 0.5 mg/L in a sample of Evaporation Pond 1 effluent water collected at the discharge point to Evaporation Pond 2 during the same period.

Based on an estimated average flow of 90 gpm for two days (2880 minutes) the volume of characteristic hazardous waste (D018) discharged to Evaporation Pond 1 was approximately 259,200 gallons (6,171 barrels). Concentrations of benzene in wastewater samples collected from the effluent discharged from Aeration Pond 2 to Evaporation Pond 1 decreased to less than 100  $\mu$ g/L after benzene stripper #2 resumed operation.

#### API release #2:

A second release occurred during a storm event when a weir, located upstream from the API separator overflowed. The wastewater also was released to the ditch that runs east

Giant Ciniza Meeting Summary September, 8 2005



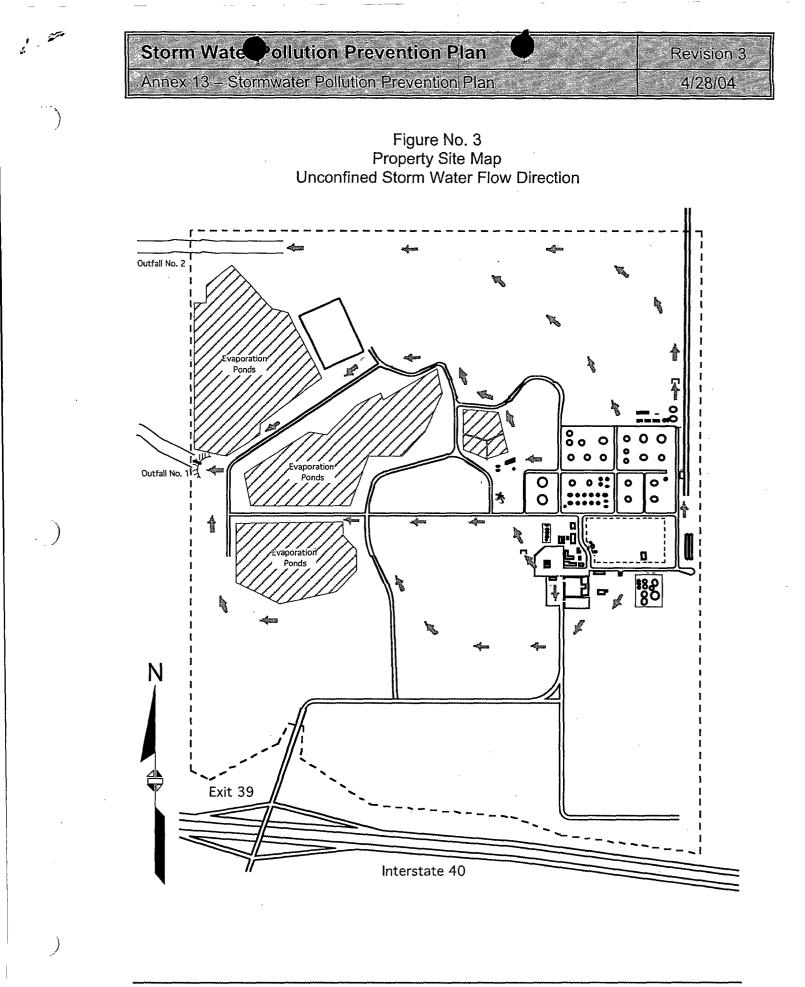
#### API release #3:

Giant discovered breakthrough of oil and sludge from the API separator resulting in the release of oil to the benzene strippers, aeration ponds and evaporation ponds. The breakthrough resulted from a pump failure in the API separator sump. Giant is currently recovering the oil in the sump using a vacuum truck and plans to replace the pump. NMED and OCD representatives observed oil on the water surface in the Aeration Ponds, Evaporation Pond 1, Evaporation Pond 2 and Evaporation Pond 10 on September 8, 2005. The release of oil and sludge from the API separator sump includes waste codes K051 and F037, K049 and, potentially, F038.

Giant is currently using booms and a vacuum truck to recover phase-separated hydrocarbons from Evaporation Pond 1 and anticipates recovering the phase-separated hydrocarbons present in Evaporation Pond 2. Giant attributed the staining observed along a large portion of the shoreline of Evaporation 2 to the release from the API separator sump.

Old API release:

A black layer of oil was observed floating on the water in the old API separator. Giant reported that the thickness of the oil was 2 inches or less and was observed after a storm event. The source of the oil was unknown at the time of the site meeting. Giant speculated that the source was either somewhere in the process area or possibly from Crude Tank 101, which had recently been emptied and was undergoing cleaning to remove residual sludge (crude tank sediment [bottoms] K169) so that the seal on the floating roof could be replaced. The old API separator discharges directly to Aeration Pond 1. Giant had not yet tested the oil to determine the fuel fingerprint. Giant reported that they had been attempting to identify the source of the oil for the previous two weeks and would continue to investigate until they were able to determine the source of the release.



**Giant Ciniza Refinery** 

Annex 13 Appendix C

# **OCD ENVIRONMENTAL BUREAU**

## SITE INSPECTION SHEET

DATE: <u>September 8, 2005</u> Time: <u>10:00 a.m.</u>

 Type of Facility:
 Refinery X
 Gas Plant
 Compressor St.

 Surface Waste Mgt. Facility
 E&P Site
 Other

Brine St. 
Oilfield Service Co.
Crude Oil Pump Station

Discharge Plan No 🗖 Yes X GW# <u>032</u>

<u>FACILITY NAME:</u> Giant Refining Company- Ciniza Refinery <u>PHYSICAL LOCATION:</u> I-40 Exit 39, Jamestown, NM (17 Mi. East of Gallup, NM) Legal: QTR <u>SE</u> QTR <u>NE</u> Sec <u>33</u> TS <u>15N</u> <u>R15W</u> County: McKinley

OWNER/OPERATOR (NAME) Giant Industries Arizona, Inc. Contact Person: Ed Riege, Environmental Superintendent Tele:# (505) 722-0217 MAILING ADDRESS: Rt. 3 Box 7 I-40 Exit 39, Gallup State NM ZIP 87301 Owner/Operator Rep's: Mr. James Romero, Mr. Stephen C. Morris, Mr. John Lorent OCD INSPECTORS: Mr. Wayne Price (OCD), Mr. Carl Chavez (OCD), Mr. David Cobrain (HWB) & Ms. Hope Monzeglio (HWB)

1. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment. No violations observed during inspection.

2. <u>Process Areas:</u> All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design. Listed wastes from the Fluid Catalytic Cracker (FCC) Unit were observed to be bypassing the new API Separator and Benzene Stripper Units and discharging untreated into the Old API Separator then directly into the Aeration Lagoon Unit. Giant willfully continues to discharge untreated effluent into evaporation ponds downstream of the aeration lagoon failing to implement its Integrated Contingency Plan (ICP). OCD was never notified about oil observed at the Old API Separator, since 1997.

3. <u>Above Ground Tanks</u>: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

No violations observed during inspection.

4. <u>Above Ground Saddle Tanks</u>: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

No violations observed during inspection.

5. <u>Labeling</u>: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.

No violations observed during inspection.

6. <u>Below Grade Tanks/Sumps</u>: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

No violations observed during inspection.

7. <u>Underground Process/Wastewater Lines:</u> All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

No violations observed during inspection.

8. <u>Onsite/Offsite Waste Disposal and Storage Practices:</u> Are all wastes properly characterized and disposed of correctly? Does the facility have an EPA hazardous waste number? <u>X</u> Yes (NMD000333211) \_\_\_\_\_\_ No ARE ALL WASTE CHARACTERIZED AND DISPOSED OF PROPERLY? YES D NO <u>X</u> IF NO DETAIL BELOW.

Cooling tower salt piles (~40 yds RCRA Solid Waste) were observed to be stockpiled similar to past inspections where disposal was requested by OCD, but apparently never implemented in violation of the 90-day storage period.

9. <u>Class V Wells:</u> Leach fields and other wastewater disposal systems at OCD regulated facilities which inject nonhazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. All Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Closure of Class V wells must be in accordance with a plan approved by the Division's Santa Fe Office. The OCD allows industry to submit closure plans, which are protective of human health, the environment and groundwater as defined by the WQCC, and are cost effective. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

ANY CLASS V WELLS NO X YES D IF YES DESCRIBE BELOW ! Undetermined D

10. <u>Housekeeping:</u> All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.

Giant stated that oil on water was observed at the Old API Separator, since 1997; however, Giant only recently informed OCD that water quality had significantly deteriorated after the August 3-4, 2005 precipitation event and during the September 8, 2005 inspection. The operator has never reported the oil to OCD and only recently undertook serious actions to locate the source of the oil, which is believed to be coming from a storm sewer drain near the Fluid Catalytic Cracker Unit. Giant is in violation of "Housekeeping," "Spill Reporting," "Process Areas," and the "Integrated Contingency Plan" of its Discharge Permit.

11. <u>Spill Reporting:</u> All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the proper OCD District Office.

OCD has observed discrepancies in the volume of release reported versus volume recovered in Form C-141 on July 20, 2005, which is impossible. On August 3, 2005, the operator significantly under reported the volume of release, During the inspection of September 8, 2005, OCD became aware of a release that was never reported at the Old API Separator.

#### 12. Does the facility have any other potential environmental concerns/issues?

Yes, there is an uncontrolled discharge occurring downstream from refinery operations and into the Old API Separator that has not been fully assessed and the point source(s) remains unknown.

#### 13. Does the facility have any other environmental permits - i.e. SPCC, Stormwater Plan, etc.? SPCC Plan; SWPPP

#### 14. ANY WATER WELLS ON SITE? NO 🗖 YES 🖾 IF YES, HOW IS IT BEING USED?

Four water wells exist on-site. One for drinking and the rest for raw water supply for refinery operations.

15. Documents reviewed:

Discharge permit and attached stormwater prevention plan.

#### **Miscellaneous Comments:**

Concerned that the Operator is not following its integrated contingency plan in the discharge permit. Provide Giant with guidance on surface impoundments with liner and vent construction. Also, include permeability test methods for the test boring recommended at the proposed fire water pond.

Photos taken: No

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### **Documents Reviewed/Collected:**

Facility spill diagram for 3 spills that occurred during the month of August 2005.