GW - 028

ANNUAL

GW Monitor Wells

2009

Chavez, Carl J, EMNRD

From:

Chavez, Carl J, EMNRD

Sent:

Friday, April 16, 2010 11:39 AM

To:

'Moore, Darrell'

Subject:

Navajo Refining Company- Artesia (GW-028) & Lovington (GW-014) Refineries Annual

Reports and "Ground Water & Treatment System Annual Monitoring Report for Lea Refinery

(Lovington)

Darrell:

The OCD is in receipt of the above subject reports.

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) 476-3490 Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: http://www.emnrd.state.nm.us/ocd/ index.htm (Pollution Prevention Guidance is under "Publications")



REFINING COMPANY, LLC

(575) 746-5283 DIV. ORDERS (575) 746-5481 TRUCKING (575) 746-5458 PERSONNEL

501 EAST MAIN STREET ● P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159 TELEPHONE (575) 748-3311 (575) 746-5419 ACCOUNTING (575) 746-5451 ENV/PURCH/MKTG (575) 746-5421 ENGINEERING

April 15, 2010

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

RE: 2009 ANNUAL REPORT FOR ARTESIA (GW-028) NAVAJO REFINING COMPANY, LLC

Dear Carl,

Enclosed, please find the annual report for Navajo Refining Company Discharge Permit GW-028. If there are any questions concerning these submissions, please call me at 575-746-5281. Thank you for your attention to this matter.

Sincerely,

NAVAJO REFINING COMPANY, LLC

Darrell Moore

Environmental Manager for Water and Waste

Encl:

File: Artesia OCD Discharge Permit 5E4B

2009 ANNUAL REPORT NAVAJO REFINING COMPANY DISCHARGE PERMIT GW-028

EXECUTIVE SUMMARY

This report is being written as a requirement of Navajo Refining Company's Discharge Permit GW-028 which states that an Annual Report will be written by April 15 of each year and will include at a minimum:

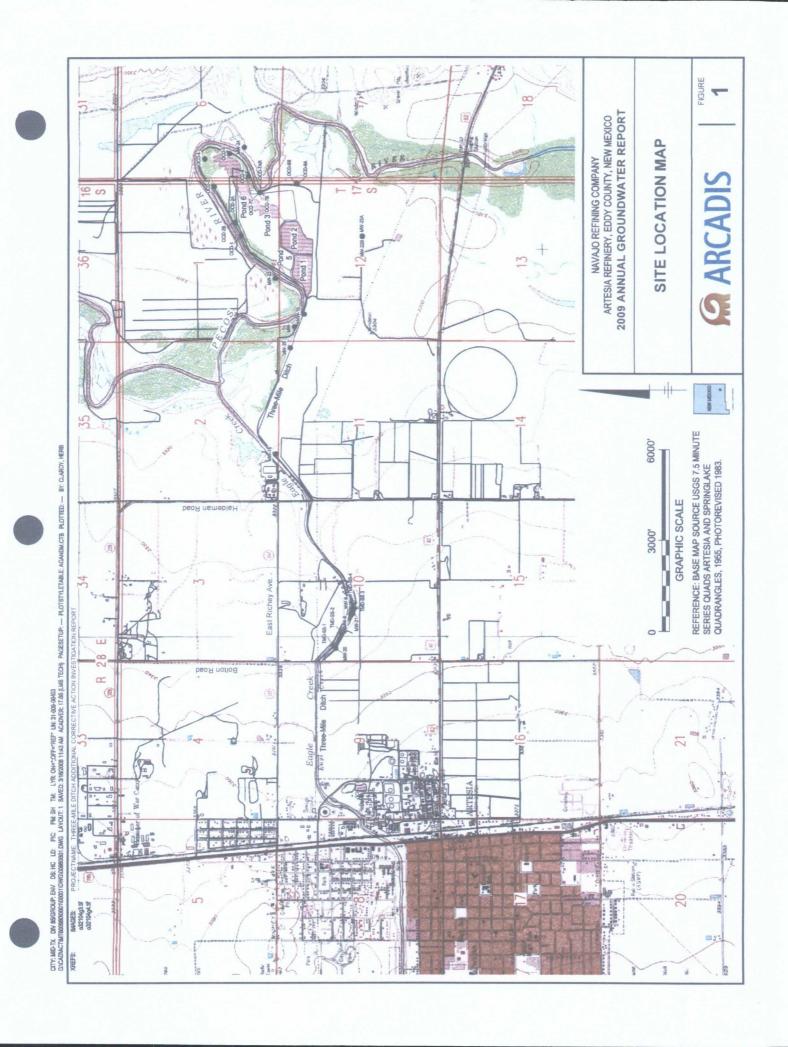
- A. A summary of all major refinery activities or events.
- B. Results of all sampling or monitoring events.
- C. Summary of the sump and underground wastewater lines tested.
- D. Summary of all leaks, spills, and releases and corrective action taken.
- E. Summary of discovery of new groundwater contamination.
- F. Summary and copy of all EPA/NMED RCRA Activity.

2009 was an eventful year at Navajo with the major highlight being an expansion that boosted production at the refinery to 100,000 bbls a day. This expansion included building new units, new tanks, and adding infrastructure to accommodate the expansion. While most of the construction of these units occurred in 2008, the actual start-ups occurred in 2009.

We also performed the two semi-annual sampling events that include over 100 monitor wells stretching from the refinery east to the evaporation ponds. (Figure 1) Those results are included in the "2009 Annual Groundwater Report" that is sent to OCD under separate cover. However, highlights and results in the form of a spreadsheet will be included here. (Table 1)

As part of our ongoing work, we test 20% of the sumps and underground wastewater lines every year. By doing this, we ensure that all lines are tested every 5 years. A spreadsheet and analysis is included later in this report that summarizes those test results and any repairs that were necessary. (Table 4)

Unfortunately, during the year Navajo experienced several spills and fires that required reporting. Navajo's policy on spills is to remove contaminated soil and dispose. Reportable spills, releases and fires numbered twenty-one (21). There were eleven (11) spills ranging from hydrocarbon to mercury to Process WasteWater and ten (10) fires



during 2009. The hydrocarbon spills, of which there were four (4) accounted for a total of 515 barrels of hydrocarbons spilled with 260 of those barrels recovered by vacuum truck. We also had five (5) spills of Process Wastewater resulting a loss of 245 bbls with 193 of those bbls recovered by vacuum truck. We also had two spills of K170 hazardous waste with a loss of 335 bbls total and a recovery of 268 bbls by vacuum truck. Finally, we discovered an historical mercury spill in the south plant. Each of those C-141's is included.

During the year, we found no new groundwater contamination. We continue to remediate known areas of contamination and have upgraded our remediation program to be more aggressive in recovering free phase hydrocarbons. This includes hiring one person whose sole job is to maintain recovery wells, bail wells that have no pump, and maintain records of those activities. Those steps will be expanded on in the section on remediation.

MAJOR REFINERY ACTIVITIES

In 2009, Navajo finished construction on several new units that increased our output to 100,000 bbls a day. These units include a Mild Hydrocracking Unit (MHU), a Hydrogen Unit, a new ROSE Unit, and a new Sulphur Recovery Unit (SRU).

The Mild Hydrocracking Unit takes Gas Oil and partially "cracks" part of this feed into naphtha and diesel. The rest of the feed is sweetened for FCC feed. The Mild Hydrocracker uses hydrogen to "crack' the molecules in the gas oil. That is why a new hydrogen unit was also built.

The Residuum Oil Supercritical Extraction Unit or ROSE Unit will deasphalt vacuum residue. The deasphalted oil (DAO) extracted by the ROSE process is a premium feed for the fluid catalytic cracking (FCC) unit. This gives Navajo a cost effective means to produce FCC feedstock from asphalt which enables us to make more gasoline from each barrel of crude. Additionally, the ROSE unit enables Navajo to process a wider variety of crudes and improves our asphalt quality.

The new Sulphur Recovery Unit (SRU) is a 100 ton/day SRU that removes sulphur from our products. As you probably know, Navajo already had one SRU. The new SRU is for added sulphur recovery capacity due to the expansion.

RESULTS OF SAMPLING AND MONITORING EVENTS

The activities performed during 2009 included installation of additional groundwater monitoring wells in support of various investigations, as well as collection of field data, collection of groundwater samples for chemical analyses, and remediation system monitoring. Analytical results are shown in Table 1. Summary of field observations are shown in Table 2. We have also included the RO Reject analytical data in Table 3. There are no new surprises in this stream as it has stayed consistent for well over 10 years. Some exceptions to the planned groundwater monitoring occurred, as follows:

	Acetone	1,495,404	NMED TW		< 10	< 10	< 10	< 10	< 10	× 10	v 10	101	0, 0	< 10	< 10	v 10	0 0 0	× 10.0	< 10	< 10	× 10	× 10	2 2	< 10	15	15	v 10	22	24	v 10	v 10	2 0	o 10	< 10	× 10	V V	v 10	< 10	< 10	< 10	× 10	v 10	01 0	× 10	< 10	< 10	< 10
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	<u>۾ ج</u>	ng/l	; ;	180	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	5.50	< 5.0	< 5.0	< 5.0	0.6 >	4 3.U	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.62	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	< 5.0	< 5.0	< 5.0	0.6 8	< 5.0	< 5.0	< 5.0	0.00	V 2.0	< 5.0	< 5.0	< 5.0	< 5.0	× 2.0	0 0 V	< 5.0	< 50	< 5.0	0 Y /
	Zinc	mg/l	WOCC HH	32										<0.01																																	
	Silver	mg/l	WOCC HH		<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.01	<0.005	<0.005	000	<0.005	<0.01	<0.01	<0.005	50.05	<0.005	<0.01	<0.005	\$0.01 1	<0.005	<0.005	<0.01	<0.005	\$0.00 \$0.005	<0.01	<0.005	<0.01	c0:002	40.005	<0.01	<0.01	<0.01	<0.005	<0.01	\$0.05 50.005	<0.01	<0.005	<0.005	200
	Selenium	1/Bm	FPA MC		<0.0	<0.005	<0.01	<0.005	0.0146	0.0183	0.0135	0.009	0.0064		0.0255	0.0116	50.002	0.0101	0.0169	0.0102	<0.01	<0.005	\$ G	<0.005	<0.01	<0.005	<0.01	4	╀	Н	4	<0.03	┺	0.0222	\vdash	0.0363	<0.05	<0.01	<0.0\$	<0.01	<0.005	_	<0.05	┺	1-1	0.0121	L
L	Mercury	mg/l	EDA MCI			<0.0002		<0.0002	<0.0002	<0.0002	00000	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0000	>0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	>0000 >0000	<0.0000	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0000
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	Lead	mg/l	EPA MC!		<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	0.0196	<0.01	<0.005	<0.005	0.00	<0.005	<0.01	<0.01	<0.005	\$0.03 \$0.03	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	<0.03	<0.01	<0.005	<0.01	<0.005	<0.00	<0.01	<0.01	<0.01	<0.005	0.03	<0.00	<0.01	<0.005	<0.005	20.02
SEPTAM	Iron	mg/i mg/i	WOC DOM																					}																							
	Chromium	l/gu	FPA MC		<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	0.01	<0.005	<0.005		<0.01	<0.005	\$00.05	9 6	<0.005	<0.01	<0.01	<0.005	C0.01	<0.005	<0.01	<0.005	40.01	<0.005	<0.005	<0.01	<0.005	\$0.03 \$0.05	0.0137	0.0335	<0.01	acon o	0.00 A	<0.01	<0.01	<0.01	<0.005	0.00	<0.05	<0.01	<0.005	<0.005	.00
	Cadmium	mg/l	EDA MO		<0.004	<0.002	<0.004	<0.002	<0.004	<0.002	<0.004 0.004	<0.002	<0.002		<0.004	<0.002	20.002	40 004 40 004	<0.002	<0.004	<0.004	<0.002	40.004 70.004	<0.002	<0.004	<0.002	<0.004	<0.002	<0.002	<0.004	<0.002	\$0.004 \$0.000	<0.004	<0.002	<0.004	20.002	<0.004	<0.004	<0.004	<0.004	<0.002	<0.004	<0.004	<0.004	<0.002	<0.002	VUU U>
		mg/l										T	Ť			Ī	ĺ	T					1				1						T			1	T					1	1				
	Barium	mg/l mg/l	FPA MC		<0.01	0.00975	0.0104	0.00846	0.0242	0.0159	0.0343	0.0331	0.0113		0.0215	0.0208	0.0173	0.0200	0.0183	0.0703	0.025	0.02	0.0296	0.0199	0.0145	0.0152	0.0146	0.0143	0.0146	0.0142	0.0126	0.0157	0.0141	0.015	0.011	1010.0	0.00900	0.0314	0.0319	0.0321	0.0201	0.0188	0.0203	0.0144	0.0166	0.0166	0.0135
	Arsenic	mg/l	EDA ARCI		<0.01	0.00709	<0.01	< 0.005	<0.01	0.00559	<0.01	0.00528	\$00.05		<0.01	<0.005 0.005	40.000 40.0000	0.00	<0.005	<0.01	<0.01	<0.005	2000	75100	0.03	0.0413	0.093	/01.0	0.235	0.0141	0.0112	0.0404	<0.01	0.00953	0.0104	0.030	00 XX	+	<0.01	0.0958	0.0185	0.0	0.00711	<0.01	<0.005	<0.005	500
	Aluminum	mg/l	MOCC In									Ì						Ī																										Ī			
		-1		49		H				1		t	T			1	†	\dagger				100	CU.U5 8 78	0/10	0.27	0.447	0.328	6.339	5.54	0.41	0.264	0.51				1	123	<0.05	<0.05	0.515	0.108	+	+	t			40 05
	DRO	mg/L	אמד האאא		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	50.05	<0.05 <0.05	0.33	<0.05	40.05	\$0.05 50.05	\$0.05 \$0.05	<0.05	<0.05	<0.05	<0.05	660.0	0.094	1	1.3	0.79	88	2 62	1.5	1.5	0.84	<0.05	< 0.05	<0.05	cn.ns	700	<0.05	<0.05	2970	0.16	\$ 6.05	\$0 02 50 05		<0.05	<0.05	. C. U.
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S	4-Methyl-2- Pentanone (MIBK)	1/Bn			< 10	< 10	< 10	< 10	< 10	010	2 2	< 10	< 10	< 10	< 10	< 10	ot >	v 10	2 2	, v	× 10	< 10	< 10	01 ×	0 0	2 0 v	< 10	01.5	010	× 10	< 10	< 10	o 10	× 10	< 10	< 10	< 10	< 10	0 2	v 10	< 10	< 10	× 10	2 0	2 2	9
Volatile Organic Compounds	2-Phenyl butane (sec- butylbenzene)	ngn	: :		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.6 >	< 5.0	36	8.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 3.0	5.3	< 5.0	< 5.0	< 5.0	< 5.0	17	5.9	17	7.9	5.0	6.5	9	< 5.0	< 5.0	> 200	< 5.0	< 5.0	< 5.0	< 5.0	0.50	> 5.0	< 5.0	< 5.0	< 5.0	5.0	0.50	23.0
Volatile Orga	2-Butanone (MEK)	1/bn 2	NMED TW		< 10	< 10	< 10	< 10	× 10	01 0	4 10	v 10	< 10	< 10	< 10	< 10	× 10	2 4	2 9	1012	v 10	< 10	< 10	× 10	01 0	4 10	< 10	c 10	0 0	× 10	33	< 10	ot >	v 10	< 10	< 10	< 10	< 10	01.0	, C	< 10	< 10	c 10	01.5	100	2 (
	1.3,5- Trimethyl benzene		,		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.50	< 50	06	88	< 5.0	< 5.0	< 5.0	< 20	× 5.0	2.50	25	< 5.0	< 5.0	< 5.0	× 2.0	F 6	2.6	23	52	0.5.0	12	< 5.0	< 5.0	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.6 2	< 5.0	< 5.0	< 5.0	× 5.0	0.6 >	2.5	20.0
	1,2,4- Trimethyl benzene	l/gu			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5 ×	< 5.0	580	110	< 5.0	< 5.0	< 5.0	< 5.0	v 5.0	190	4	< 5.0	< 5.0	< 5.0	< 5.0	250	56	200	81	< 5.0	92	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.U	30	200
	Zinc	mg/l	WOCC HH																		L																									
	Silver	mg/l	WOCC HH		<0.01	<0.005	<0.0100	<0.005	<0.01	500.05	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	40.01	\$000 \$000 \$1000	<0.005	<0.01	<0.005	<0.01	c00.0>	0.00	<0.005	<0.01	<0.005	<0.03	¢0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.01	<0.01	<0.005	cuus vo	\$0.00 \$0.005	2000
	Selenium	mg/l	EPA MCL		Н			-	0.0261	+	<0.005	₽	Ц	0.0232	\dashv	<0.01	-	0.0178	+	╄	⊢	Н	<0.01	4	+	<0.005	<0.01	<0.005	<0.0015	<0.01	<0.01	<0.005	\$0.002 0.003	<0.005	<0.005	<0.01	<0.005	0.0	<0.005	0.0128	0.0184	<0.01	<0.005	\$0.002 \$0.002	<0.005	,
	Mercury	mg/l	EPA MCL		<0.0002	<0.0002	<0.000200	<0.0002	<0.0002	>0.002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	20005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	200000	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	0	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	20.002	<0.0002	1000.0
	Manganese	mg/l	WQCC Dom																																		2.06		70.0		0.0573		0.347			
	Magnesium	l/gm	: 1		866	851	550	427	430	370	167	132	141	139	126	522	328	25.5	209	2	320	333	348	107	278	282	107	107	257	180	164	162	150	149	171	167	157	114	123	308	342	270	262	141	25	
,	Lead	mg/l	EPA MCL		<0.01	<0.005	<0.0100	<0.005	<0.01	CO.U.>	<0.005	<0.01	<0.005	<0.01	<0.005	40.01	50.00	<0.01	<0.03	0.00771	<0.01	<0.005	¢0.01	50.000	40.03	<0.005	<0.01	C00.05	<0.005	<0.01	<0.01	0.005	V 0.003	<0.005	<0.005	<0.01	<0.005	40.01	<0.005	<0.0>	<0.01	<0.01	40.005	20.00	<0.005	
Metals	lron	1 00F+00	Wacc Dom																																		<0.2	ç	7.0		<0.2		40.5			Ī
	Chromium	1.00F-01		0.000	<0.01	<0.005	<0.0100	<0.005	<0.01	CO 01	<0.005	<0.01	<0.005	<0.01	<0.005	¢0.01	00.00	\$0.05	<0.01	<0.005	<0.01	<0.005	40.01	00.00	¢0.07	<0.005	<0.01	<0.005	<0.005	<0.01	<0.01	<0.005	\$0.000 \$0.000	<0.005	<0.005	<0.01	<0.005	40.03	<0.005	<0.01	<0.005	<0.01	<0.005	\$0.05 \$0.04	<0.005	3
	Cadmium	mg/l 5.00E-03	EPA MCL		<0.004	<0.002	<0.00400	<0.002	<0.004	<0.007 <0.004	<0.002	<0.004	<0.002	<0.004 40.004	<0.002	<0.004	20.002	\$0.00 \$0.00	<0.004	<0.002	<0.004	<0.002	0.004	50.00 2	<0.004	<0.002	<0.004	\$0.00Z	<0.002	<0.004	<0.004	<0.002	<0.002	<0.002	<0.002	40.004	<0.002	40.00	<0.002	<0.004	<0.002	<0.004	<0.002	<0.004	<0.002	1000
			Wocc irr						1	l																							T													l
	Barium	mg/l 2.00E+00	EPA MCL		0.0183	0.0172	<0.0100	0.00769	0.07	0.0162	0.0154	15.3	4:59	0.0103	0.0112	<0.01	0.00010	0.0156	0.0321	0.0299	0.0173	0.0222	0.0271	0.056	0.0268	0.0224	0.903	0.0147	0.0146	0.0486	0.0208	0.0205	0.0106	0.0109	0.011	0.0347	0.0293	0.016/	0.0185	0.016	0.00838	0.0142	0.0135	0.373	0.612	00000
	Arsenic	1,00E-02	EPA MCL		€0.01	0.00873	<0.0100	0.00887	0.00	0.0564	0.0505	0.0212	0.0182	×0.01	<0.005	40.01	<0.000 VO 04	\$0.00 \$0.00	<0.0>	<0.005	0.0274	0.0072	0.0181	0.0154	0.015	0.0136	0.0126	<0.01	<0.005	<0.01	<0.01	50.05	<0.07	0.00568	0.00588	\$0.01	<0.005	×0.01	0.0174	<0.01	0.00525	¢0.01	0.00639	0.0603	0.0139	500
	Aluminum	1/6m 5.00€+00	WQCC Irr												ļ		1							Ī		2000	XX 8						Ì				1									
	T	mg/L								6.87	6.01					1						1		l				T	T	4.27	1	t	t						ŀ		1		t	T		16.2
	DRO	mg/L 2.00E-01	NMED TPH		0.24	47.74	50.05	c0.05	\$0.05	2.8	3.		3.7	<0.05	<0.05	SO 05	40 05 0 05	<0.05	.3	1.6	0.53	0.48	1.1	2.2	2.6	13	5.7	0.37	0.33	1:9	0.36	0.12	0.084	0.08	0.11	<0.05	<0.05	0.35	0.29	<0.05	0.059	<0.05	0.067	0.68	0.73	2.2
		Units:		Date	04/02/2009	09/22/2009	10.05.000	10/09/2009	10/05/2009	04/06/2009	09/23/2009	04/14/2009	09/28/2009	04/06/2009	09/23/2009	04/02/2009	04/03/2009	09/17/2009	04/14/2009	_	-	09/24/2009	09/24/2009	04/13/2009	04/13/2009	09/24/2009	04/14/2009	4/06/2009	09/24/2009	04/14/2009	04/09/2009	09/28/2009	4/08/2009	09/30/2009	09/30/2009	04/08/2009	6002/5009	10/05/2009	10/05/2009	04/10/2009	09/24/2009	04/10/2009	09/24/2009	04/08/2009	09/30/2009	
				Dup	-1			ľ		f	١		1	1					٦)	٥			Date #7	1	٥	٥١٥	100	0	0	ع د	0 #2 Ond		П	Oup #8	2		3 =	Dup #11 10			ع اد	Dup #5 09	-	Ö	Č
				Location	MW-18A	MVV-10A	02-44	07-44	MW-21	W-22A	W-22A	MW-23	W-23	\$5-M	47-M	MW-26	W-27	W-27	MW-28	W-28	MW-29	W-29	MW41	t	Τ.	MW-42	MW-43	W-45	MW-45	MW-49	N-50	MW-50	T	H	7	25.53	20-20	MW-54A	T	N-55	W-55	W-55	MW-56	T	W-58	N-61

Mexico
New
Artesia, 1
Refinery,
Vavajo

		Acetone	2 18F+04	NMED TW		× 10	< 10	< 10	× 10	< 10	< 10	< 10	< 10	< 10	< 10	× 10	< 10	< 10	< 10	15	12	18	14	15	2 8	07	27	25	54	< 10	< 10	< 10	< 10	< 10	° 10	v 10	- 6	15	57	53	67	< 10	< 10	< 10	× 10	< 10	< 10	< 10	< 10	2 0	20,	42
	I ++ 0.	(MIBK)	1.99F+03	NMED TW NMED TW		< 10	< 10	< 10	c 10	< 10	× 10	× 10	< 10	< 10	< 10	< 10	< 10	c 10	× 10	× 10	< 10	v 10	01 >	01 >	21.7	2 0	2 5	s 10	2 10	< 10	< 10	< 10	< 10	< 10	< 10	× 10	v 10	, ,	× 10	< 20	< 20	< 10	< 10	< 10	× 10	< 10	< 10	< 10	< 10	× 10	× 10	01 01 01 01
Volatile Organic Compounds	2-Phenyl	butylbenzene)				29	7.8	14	5.4	9.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.00	0.60	0.00	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.00	0.00	< 50	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	9.9	< 5.0	7.2
Volatile Orga	2-Butanone	\rightarrow	7.06E+03	NWED TW		> 10	< 10	< 10	< 10	< 10	> 10	< 10	× 10	< 10	< 10	< 10	< 10	01 4	< 10	v 10	< 10	× 10	× 10	01.0	01.5	× 30	2 20	2 40	210	< 10	< 10	< 10	< 10	< 10	× 10	× 10	2 5	100	× 10	< 20	< 20	< 10	< 10	< 10	o 10	< 10	< 10	< 10	< 10	> 10	× 10	64
	1.3,5- Trimethyl	benzene	in 1			11	8.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	> 5.0	< 5.0	< 5.0	× 5.0	0.6 >	0.6 >	0.00	0.00	200	> 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.67	0.5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	¥ ±
	1,2,4- Trimethyl	benzene	ı	;	8	140	80	19	7.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.0°	< 5.0	< 5.0	< 5.0	2 2.0	0.5 ×	0.6 2	2.5.0	A 5.0	< 5.0	2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	۰ 5.0 د ت	0.0.7	6.2	< 5.0	v 10	× 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	150
		Zinc	1.00E+01	масс нн масс нн																																1				L												
		n Silver	5.00E+01	L Wacc H		⊢	<0.005	Ļ	╄	╀	┞	L	L	<0.01	4	<0.01	<0.005	<0.01	4	4	4	+	+	c00.05	+	\$0.003	┿	╀	╁	₽	\vdash	<0.005	Н		+	<0.005	+	╀	<0.005	<0.01	<0.005	Ш	Ш	Н	Н	<0.005	_	<0.01	Н	<0.01	4	<0.005
		Selenium mo/I	3 5.00E-0	L EPA MCL		⊢	<0.005	┡	╀	⊦	⊢	₽	ш	<0.01	4	\$0.03 1	4	+	50.00	+	4	-	+	\$0.000 \$0.000	+	50.00	Ŧ	╆	0.00693	⊢	╄	Н	⊢	4	+	\$0.00 \$0.00	4	1	F	Ł	╂	Н	<0.005	<0.01	Н	<0.005	-	<0.01	Н	<0.01	-	<0.005
	L	se Mercury mo/l	2 00E-0	m EPA MCL		<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.000%	<0.0002	<0.000	<0.0002	<0.0002	<0.0002	<0.000	<0 0002	<0.0002	<0.0002	<0.000 0.000	<0.0002	<0.000v	×0.0002	20.000 V	20.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	20,000	<0.000	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		Manganese	2.00E-0	WQCC Dom		L				L			Ц					-										L																								
		Magnesium mg/i	l			106	80.8	86.5	86.4	108	142	125	202	178	153	302	311	216	3 5	132	190	25.7	3 8	46.4	3 5	180	237	<u>%</u>	248	140	166	183	2 2	145	149	90.	78.4	621	379	461	512	999	269	176	186	174	147	146	129	266	9/7	184
als	1	Lead	1.50E-02	m EPA MCL		<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	0.03	<0.01	0.03 0.03	<0.005	40.01	00.00	-0.0°	50.00	0.03	00.00	20.00	5000	50.000 10.000	<0.005	<0.01	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.03	×0.003	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	\$0.04	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.01	<0.005	<0.005	<0.01	<0.005	<0.01	\$0.005	<0.005
Metals			1.00E+00	WGCC Dom		L																																														
		Chromium ma/l	1.00E-01	EPA MCL		<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	\$ 0.01	<0.U1	\$0.01	<0.005	(0.0)	2000	10.05	conno-	<0.01	2000	50.00	20005	50.00 50.00	<0.005	0.0242	0.0421	<0.01	<0.01	<0.005	<0.01	<0.005	10.05	50.00	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.0012	<0.005	<0.005	<0.01	<0.005	40.01	\$0.000 0.000	<0.005
		Cadmium mg/l	5.00E-03	EPA MCL		<0.004	<0.002	<0.004	<0.002	<0.004	<0.002	<0.004	<0.002	<0.004 0.004	<0.004	40.004	<0.002	<0.004	70.00	40.00	20.02	40.00	CO 002	<0.00 000 000 000 000	50 0×	<0.002	<0.002	<0.004	<0.002	<0.004	<0.0012	<0.002	<0.004	<0.002	40.00	20.02	<0.00 0>	<0.004	<0.002	<0.004	<0.002	<0.004	<0.002	<0.004	<0.0012	<0.002	<0.002	<0.004	<0.002	<0.004	<0.002	<0.002
		Boron mg/l	7.50E-01	Wacc Irr											Ĭ						Ī																										1		1			
		Barium mg/l	т	EPA MCL		0.445	0.89	1.45	1.61	0.165	0.043	0.0122	0.0156	0.0148	10.0.0	0.014/	0.018	0.0110	0.0141	0.014	0.0103	0.0170	0.014	500	0.0135	0.0131	0.0129	0.0211	0.0328	0.0186	0.0175	0.0182	0.0157	0.0173	0.0100	0.0155	0.0214	0.0159	0.0185	0.0162	0.0173	0.0199	0.021	60.03 10.03	<0.01	0.00995	0.0038	0.0131	0.0157	0.0218	0.034	0.04
l		Arsenic mg/l	1.00E-02	EPA MCL		0.0792	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	0.00566	0.0213	60100	80.030A	071.0	0.463	7.07.0	0 103	0.101	0.337	0.365	0.0627	0.0723	0.0931	0.0856	0.0267	0.0268	0,0207	0.023	0.0165	0.0111	₩ 0,0746	0.0100	108	0.784	0.133	0.069	0.111	0.143	0.0125	0.0163	0.014	0.0703	0.0123	0.0178	0.0197	0.0101	<0.03	<0.00 m	0.00551
		Aluminum mg/l	5.00E+00	Wacc irr			i					İ																																								
н		GRO mg/L		1	\$29 I	10.2	6.61	12	12.5		0.368			1.42	3.	0000	45	0.226	6.87	1.57	2 2	3.76	3.84	1 44	1 99	2.14	1.53	0.726	0.628	0.235	0.229	0.183	0.0528	0.087	0 135	1.86	1.61	5.32	2.22	33.9	1.36	0.0518	0.0909	0.298	0.30	0.242	0.220		,	0.44	٠	
ТРН			2,00E-01	NMED TPH		3.	1:2	1.7	0.59	1500	627		-	8.0	03.0	07.0	6.40	4.30	9	, 78	8.5	9	6.2	4.2	6.5	2.4		8.88	2.3	0.54	0.57	0.57	0.11	0.15	72.0	2.6	£ %	7.2	7.3	LF	20	0.27	*	0.4	3313	0.54	0.43	0.14	0.084	2.5		2.6
		Units:	CGWSL:	Source:	Date	04/14/2009	10/01/2009	04/14/2009	09/25/2009	04/14/2009	10/01/2009	04/03/2009	09/29/2009	04/02/2009	03/22/2000	00/18/2009	03/00/2008	09/18/2009	03/30/2009	09/18/2009	03/30/2009	09/18/2009	09/18/2009	03/31/2009	09/17/2009	03/31/2009	09/17/2009	03/31/2009	09/17/2009	03/31/2009	03/31/2009	09/18/2009	03/31/2009	03/19/2003	09/18/2009	03/31/2009	09/21/2009	03/31/2009	09/21/2009	03/31/2009	09/21/2009	04/06/2009	09/22/2009	04/06/2009	04/06/2009	09/23/2009	04/02/2009	04/02/2009	09/1/1/5009	10/01/2009	04/15/2009	10/01/2009
					Dup												1			1	I	Dun #1	+							-	Oup#1												1	Т	T dno	7# 47			1	<u> </u>		
					Location	MW-62	MW-62	MW-66	MW-66	MW-67	MW-67	MW-68	MW-68	MW-70	841.67.72	MANA. 7.2	MANAL 73	MW-73	MW-74	MW-74	MW.75	MW-75	MW-75	MW-76	MW-76	MW-77	MW-77	MW-78	MW-78	MW-79	MW-79	MW-79	MVV-80	MW-00	MW.81	MW-82	MW-82	MW-83	MW-83	MW-84	MW-84	78-WW	/8-N/W	MW-88	MW-88	MVV-68	00-A40	60-AAW	MVV-58	MVV-90	MW-91	MW-91

Γ		one	+04	Ž	3	0	0	0	٥	٥	0	٥			0		0	0	0	0	7,			15		_	٥	_	٥	٥		٥	0	0		0	_	0	٥	0	2 6	2		,	0	٥	٥	00
	2- re			N NMED TW		< 10	< 10	< 10	< 10	Ÿ	Ÿ	0 0	2 5	, v	101 >	20	< 10	< 10	> 10	× 10	22		100	==	21	17	> 10	14	< 10	7	× 10	V	< 10	× 10	v 10	< 10	18	< 10	× 10	0 S	2 4	2 0	/ V	2 2	× 10	× 10	× 10	01 v 10 v
is	40.		1 99F+03	WIN CHAN		< 10	< 10	< 10	< 10	° 10	< 10	¢ 10	2 5	v 10	× 10	× 10	< 10	< 10	< 10	v 10	2 5	0 0	4 10	14	v 10	< 10	< 10	< 10	× 10	v 10	v 10	c +0	< 10	o 10	v 10	< 10	< 10	< 10	v 10	v 10	010	2 5	v 10	× 10	01 ×	< 10	× 10	2 º
Volatile Organic Compounds	2-Phenyl butane (sec-	butylbenzene)	B 1	1		13	6.3	12	5.8	< 5.0	< 5.0	17	11	8.4	16	8.6	< 5.0	< 5.0	7.5	< 5.0	80 4	57	31	9.2	9.6	8.4	< 5.0	< 5.0	< 5.0	< 5.0	13	< 5.0	< 5.0	< 5.0	> 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2 5.0	0.5 >	0.5 >	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Volatile Org	2-Butanone	(MEK)	7.06E+03	NMED TW		< 10	< 10	< 10	< 10	× 10	v 10	o 10		100	< 10	< 10	< 10	< 10	< 10	< 10	4 40	2 0	د 1 5	12	< 10	< 10	< 10	× 10	v 10	v 10	2 02	< 10	< 10	× 10	× 10	< 10	< 10	< 10	× 10	01 >	0 0	2 2	v 10	v 10	< 10	< 10	v 10	c 10
	1.3,5- Trimethyl	benzene		:		< 5.0	12	25	16	< 5.0	< 5.0	22 02	9 =	= =	×	95	< 5.0	12	7.1	< 5.0	110	5.50	< 5.0	36	89	11	< 5.0	< 5.0	< 5.0	0.5.U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5	0.00	2.00	v 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	1,2,4- Trímethyl	benzene			### S S	9.9	< 5.0	300	130	< 5.0	< 5.0	0.50	2 2.0	< 5.0	160	320	< 5.0	82	42	< 5.0	220	× 5.0	< 5.0	290	320	7.5	< 5.0	< 5.0	< 5.0	0.5.0	96	< 5.0	< 5.0	× 5.0	× 5.0	< 5.0	< 5.0	< 5.0	0.50	0.00	0.5 0	0.50	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		Zinc	1.00E+01	М ОСС НН	L'																0.0079	<0.005																Ī			T						Ī	
	:	Silver	5			<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	40.00 t	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005 <0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	40.01	<0.000 <0.000	<0.005	<0.01	<0.005	0.01	<0.005					10.00	<0.005	<0.00 <0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.003
		Selenium ma/l	5.00E-02			<0.01	<0.005	<0.01	<0.005	\$0.0	<0.005	40.03 40.03	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	40.01 10.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	×0.01	0.00667	<0.01 20.01	50.000 50.000	<0.005	<0.01	<0.005	0 0	0.00739		1		,	0.0476	0.01/3	0.0435	0.0347	0.0245	Н	<0.01	-	<0.01
		_	2.00E-03	EPA MCL		<0.0002	<0.0002	<0.0002	<0.0002	<0.0001	200002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	+	<0.0002	╀	-	Н	\vdash	-	-	-	-	<0.0002	+	₽	<0.0002	1	<0.0002				00000	+	<0.0002	+-	<0.0002	╌	\mathbf{L}	<0.0002	_	<0.0002
		Manganese mg/l	.00E-01	Wacc Dom																†	1810.0	0.0177			H	0.875	-	7.84	0 127	Ť	0.0337	H	0.756						1			T			-		1	
		Magnesium M.				162	156	97.2	73.7	4 8	82 92	128	3 5	147	240	347	8	=	98.5	\dagger	6.8	╀	64.6	257	H	***	119	90 5	157	92.5	H	108	(%	193	198	H		- -	282	203	216	572	501	393	360	359	8 5	172
		mg/i		EPA MCL		0.01	<0.005	3592	<0.005	50.00	50.00	\$0.0v	2002	<0.005	<0.01	0946	303	1	1	1	<0.005	L	Ц	Ц	<0.005	0.0548	1204	7070	<0.01 <0.00 <0.00 <0.00	ļ	L	Ц	1	\$0.03 \$0.03	900		+	\dagger	×0.03	1	<0.005	Ļ	<0.005	Ц	_	<0.01 20.05	1	Ц
Metals		mg/i n	0	C Dom EP/		⊽	Ÿ	9.0	\$ ₹	7 8	7 3	7 0	Ŷ	0>	V	0.0	V 9	Ş	ÿ ç	7	1	<0.2 <0	₽	9	T	18.3	0.0		37		<0.2 <0	Н	1,52 <0	- -	0>		1			5	0	V	<0	₽	₩	\$ 6	? 0	Ŷ
		\perp	ΙI			-	05	13	8 2		3 5	212	95	90	-	95	- 1	g ,	5 6	\downarrow	-	L	95	92	4	32					Н	Н	4	_	35	1	+	-		. 22	25	_	.50	-	22	* 15	35	_
		mg/l	3 1.0			+	2 <0.005	+	4 CUUU5	+	+	ľ	╁	Н	4 <0.01	+	+	+	20:07	+	2 <0.005	Н	\dashv	2 <0.005	+	+	+	+	+	╀	< < 0.005	H	+	0.07			-	+	40.01	╁	⊦	⊢	<0.005	Н	-	+	╀	H
		mg/l	2	-+		<0.004	<0.002	0.00	0.00	00.00	00.0	0.00	<0.00	<0.002	<0.00	00.00 00.00	00.00	00.00	20.00	00.05	<0.002	Н	<0.00	00.00	00.00 00.00	00.05	<0.004	00.5	9 9	¢0.00	<0.002	<0.00	<0.002	\$0.00 4	<0.002	-	1		00 0>	<0.00	<0.002	<0.00	<0.002	<0.00	<0.002	\$0.004 \$0.004	<0.002	<0.004
				Wacc Irr			cià		1	-	\downarrow				_	1				0.269		0.0804		1						L								1			L	L				1		
	a d	mg/l	2.00E+00	EPA MCI		1	1	0.123	0.0756	0.508	0.146	0.152	┖	Н	4	4	0.081	0.102	0.194	0.494	0.561	0.028	0.04	0.0341	1.45	0.140	1 15	0.020	0.024	0.608	L		0.0270	0.0115	0.0107				0.0325	0.0143	0.0152	<0.01	0.00617	0.0101	0.00995	0.0141		
	· · ·	mg/l	1.00E-02	EPA MCL	3	40.01	0.005/9	10.02	×0.03	<0.005	40 04 00 04	<0.01	0.00568	0.00596	<0.01	<0.005	0.0447	0.0141	0.043	\$0 GV	<0.005	<0.005	0.00597	0.0112	0.00555	#477.0°	0.03	<0 O>	<0.005	<0.01	<0.005	0.0436	c0.03	<0.01	<0.005				0.01	0.00753	0.00743	<0.01	<0.005	<0.01	0.00684	<0.005	0.0104	<0.01
	Alimina	l/gm	5.00E+00	WOCC III			l													0.0678		0.156							,																			
H	Car	H	┙	1	0, 2	0.79	9.40	* S	0.273	0.113	37.3	37.3	35.2	38	22.9	33.9	29.7	2,02	0 736	9.54	5.15	1.61	80	37.8	2 44.3	CC.7												l	L							Ī	<0.05	0.0552
TPH	CRC	Ш		NMED IPH	,,		4.3	10	1.6	1.2	2.4	7.5	880	1.8	2.5	,,,	0.50	0.83	18.0		1982	68.0	807 3	3.2	8 9	7.0	0.21	0.52	9.0	0.12	7.7.	0.62	<0.05	<0.05	<0.05			ļ	<0.05	<0.05	<0.05	<0.05	<0.05	60.05	20.00	<0.05	0.12	0.054
		Units:	CGWSL:	Source:	DAMESTORIO	1001/2009	04/15/2009	10/01/2009	04/15/2009	10/01/2009	04/15/2009	04/15/2009	10/01/2009	10/01/2009	04/15/2009	09/29/2009	09/28/2009	04/15/2009	09/28/2009		09/28/2009	03/16/2009	99/28/2009	09/28/2009	0.01/2009	04/10/2009	09/24/2009	04/10/2009	09/24/2009	04/10/2009	09/24/2009	04/10/2009		04/08/2009	10/05/2009	09/30/2009	04/08/2009	09/30/2009	04/03/2009	10/05/2009	10/05/2009	04/08/2009	10/05/2009	04/08/2009	04/10/2009	9/24/2009	09/21/2009	4/01/2009
				200	†	Ť	Ť					Dup #8		0nb #6										15		1	13		3	٦		٦		Oup #5	-19	10		100	0	Э	Dup #10 1	0	- (3 -		100	0	
				Location	MANA-92	MANA 92	MW-93	MW-93	MVV-95	MW-95	MW-96	H	T	1	MVV-98	MAYA-90	66-WW	MW-101	MW-101	MW-103	MW-103	MW-104	MW-104	MW-107	MAVV-103	NCI-32	NCL-32	NCL-33	NCL-33	NCL-34	NCL-34	NCL-44	NCL-49	Ħ	NCL-49	NP-1	NP-2	NP-2	NP-3			NP-5	NP-5	NP-6	O JA	0.dN	OCD-1R	OCD-1R

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

	VI-2- one A) Acetone	H		TW NMED TW	*	< 10			H		F	1	-	+	+	01.5	+	-		+	╁	< 10	┝		\dashv	+	× 10	+	Н	_	× 10	+	5 2 2	Ľ	-	0 < 10	H			\dashv	+	× 10	+	-
spur	4-Methyl-2- c- Pentanone	L	1.99E+03	NMED TW		< 10	< 10	< 10	× 10	c 10	< 10	< 10	< 10	< 10	21 > 1	01 >	2 5		V 10	2 10	V 10	× 10	< 10	< 10	o 10	× 10	× 10	2 2	< 10	> 10	× 10	1 2	v 10	× 10	< 10	< 10	< 10	× 10	< 10	< 10	× 10	2 5	7 0	
Volatile Organic Compounds	2-Phenyl butane (sec- butvlbenzene)	Nau		:		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.00	0.00	2.50	0.5.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5 >	8.9	39	< 5.0	0.6 /	< 5.0	< 5.0	8.4	7	13	11	16	13	< 5.0	< 5.0	2.50	9
Volatile Org		ממעו	7.06E+03	WIN DEM		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	c 10	01.5	010	01.7	¢ 10	2 4 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	× 10	< 10	< 10	× 10		2 20	× 10	< 10	< 10	< 10	< 10	< 10	< 10	v 10	v 10	2 4	
	1.3,5- Trimethyl	┰			10 C 10 C	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 2.0	< 5.0	2 2.0	0.00	0.6 4	2.50	2 5 0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5 v	10	150	< 5.0	20.0	× 5.0	< 5.0	22	22	12	8.8	55	36	< 5.0	< 5.0	0.00	
	1,2,4- Trimethyl benzene	ממון	L			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	× 2.0	2.00	23.0	2.0	2.5	2.50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 2.0	130	280	< 5.0	0.0	× 5.0	< 5.0	150	160	48	37	< 5.0	91	< 5.0	< 5.0	250	
	Zinc	l/bw	1.00E+01	ЕРА МСС МОСС НН МОСС НН					L																																			
	Silver	L	2 5.00E+01	L WOCC H		<0.01	<0.01	Ľ	₽	H	L	<0.01	<0.01	<0.01	+	7	10.02	+	0.00	Ŧ	╀	<0.005	H	Н	<0.005	-	<0.005	<0.005	Н	4	\perp	20.00	4	╄	H	<0.005	<0.01	Н	Н	<0.005	-	,00	70.03	
	Sefenium	┰				L	Ļ	┡	<0.01	₽	Н	4	4	4	4	-	10.05	+	1	+	╀	0.00875	₽	μ.	0.00851	-+	<0.005	0.00815	1	-	-	0.00034	+	ļ.	₽	<0.005	<0.01		Н	<0.005	4	+	0.07	
	e Mercury	-	2.00E-03	Wacc Dom EPA MCL		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	×0.0002	<0.0002	0000	<0.000	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0000	200002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	60000	,0.000Z	
	Manganese	ma/l	2.00E-01	WGCC Do																																								
	Magnesium	ma/i	1	1		210	234	144	108	103	281	282	253	248	232	717	200	175	202	282	148	156	41.1	135	138	131	138	154	193	168	536	020	89.7	123	136	194	149	151	185	208	224	02.2	112	
8	Lead	ma/l	1.50E-02	EPA MCL		<0.01	<0.01	<0.005	<0.01	<0.005	<0.01	<0.01	<0.01	<0.01	\$0.01 20.03	50.00	30.05	2000	40 P1	<0.00		<0.005	<0.005		<0.005		<0.005	<0.005	<0.01	<0.005	<0.01	50.05	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	0.0404	2007	10:00	
Metals	ron	ma/i	1.00E+00	WQCC Dom EPA MCL																																	j							
	Chromium	mg/l	1.00E-01	EPA MCL		<0.01	<0.01	<0.005	<0.01	<0.005	<0.01	<0.01	<0.01	-60.01	CU.01	20.003	10.00	20.00	\$0.0v	<0.005		<0.005	<0.005		<0.005		<0.005	<0.005	<0.01	<0.005	\$0.01 20.05	20.00	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	0.0567	0.0118	0.0315	20.03	2	
	Cadmium	l/gm	5.00E-03	EPA MCL		<0.004	<0.004	<0.002	<0.004	<0.002	<0.004	<0.004	<0.004	<0.004	\$0.00¢	20.002	*0.00*	<0.002	<0.004	<0.002		<0.002	<0.002		<0.002	000	<0.002	<0.002	<0.004	<0.002	\$0.004 50.004	<0.00	<0.004	<0.002	<0.004	<0.002	<0.004	<0.002	<0.004	<0.002	<0.004	×0 004	500	
	Boron	l/gm	2	Wacc Irr										1	1												Ì					İ	İ					1	1	1			†	
	Barium	l/gm	П	EPA MCL		0.0251	0.0257	0.0266	0.0223	0.0214	0.0231	0.0222	0.0238	0.0215	0.0100	0.016	0.0151	0.0137	0.014	0.0165		0.00819	0.0201		0.00812	0000	0.0138	0.0109	0.0517	0.0426	0.0108	0.0125	0.0132	0.0112	0.0761	0.0547	0.0177	0.014	0.0409	0.0349	0.473	0 115		
	Arsenic	l/bm	1.00E-02	EPA MCL		<0.01	<0.01	<0.005	<0.01	<0.005	<0.01	<0.01	0.0175	10.0>	0.0430	0.0400	0.000	0.236	0.105	0.132		<0.005	<0.005		<0.005	1000	<0.005	<0.005	<0.01	<0.005	20.01	\$0.01	0.0107	0.00662	2110.0	0.00979	¢0.01	<0.005	0.012	0.0129	59.0	<0.03		
	Aluminum	l/gm	8	Wacc Irr										Ī		Ī			ľ	Ī																								
_	GRO	mg/L	,	,		<0.02	<0.02	<0.05	<0.02	< 0.05	<0.02	<0.05	-		1700	3 4	3,1	14	1.07	0.757										1		0.567	0.58	9.4	5.08	5.05	2.04	0.814	2.61	1.92				
Ŧ	DRO	mg/L		NMED TPH		<0.05	<0.05	<0.05			<0.05	<0.05	27.0	8	0.00	0	4.4	. 15	0.93	91												17	3.2	380	8	90°.	200		#	1.9				
		Units:	CGWSI.:	Source:	Date	04/01/2009	04/01/2009	09/22/2009	04/01/2009	09/22/2009	04/01/2009	09/22/2009	04/01/2009	09/22/2009	04/01/2009	00/21/2009	09/21/2009	09/21/2009	04/02/2009	09/22/2009	04/16/2009	09/30/2009	10/05/2009	04/16/2009	09/30/2009	04/16/2009	04/16/2009	09/30/2009	04/16/2009	10/01/2009	09/07/2009	_		09/25/2009	04/16/2009	09/25/2009	04/16/2009	09/25/2009	04/16/2009	09/25/2009	10,0272009	04/09/2009	10/02/2009	
					Dag	-	Dup #2							1				Dup #2	+-														6# dnQ					1		<u> </u>				
					Location	OCD-2A	OCD-2A	OCD-2A	OCD-3	OCD-3	900 P4	0CD-4	200	200	200	0000	OCD-7A	OCD-7A	OCD-8A	OCD-8A	LarueWell	LarueWell	RA-313	RA-3156	RA-3156	FA-4195	24.4768	RA-4798	RW-1	KW-1	RW-18	TEL-1	TEL-1	TEL-1	TEL-2	TEL-2	TEL-3	TEL-3	TEL 4	TEL 4		197	UG-2	

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

								Volatile O	Volatile Organic Compounds	spunc							-	Semivola	Semivolatile Organic Compounds	spunoamo	
		Benzene	Chloroform	cis-1,2-Dichloro	Cymene (4-isopropyi	Ethyl	isopropyi	A	Methyl-Tert-	44	N-Butyl N-								2,4 Díchloro		2-Methyl
	Units:		l/Bn	l/Bn	l/bn			ug/i				ng/lene	ug/l	ug/l	na l/bn	ug/l ug/l	es Biphenyl	ua/l	phenoi ug/i	pheno!	naphthalene i
	CGWSL	SE. 5.00E+00	1.00E+02	7,00E+01	1		6.79E+02	1,43E+03	1.25E+02	3.00E+01	3		1 1	П		9		3.65E+03	1.10E+02	7.30E+02	
ocation	Source:	Se: EPA MC	моссин	EPA MCL	-	EPA MCL	NMED TW	WED TW	- 1	WGCC HH	:	: NW	NMED TW EP	EPAMCL WO	М ФСС НН ЕР/	EPA MCL WOCC	: H	NMED TW	NMED TW	NMED TW	:
KWB-1A	Т	<u>.</u>	× 5.0	0.50	0 2 2	7.50	09,	\$84	0		4			+							
KWB-1A	09/29/2009		> 5.0	< 5.0	> 5.0	25.0	0.5 0	410	2 5.0	25.0	+	0.00	25.0	< 5.0 VEO	× 5.0	< 5.0 < 15					
VB-1C			< 5.0	< 5.0	< 5.0	< 5.0	< 50	× 10	V 55.0	25.0	╀	╀	+	+	╁	+	1		1		
KWB-1C		┺	< 5.0	< 5.0	< 5:0	< 5.0	× 5.0	< 10	< 5.0	× 5.0	× 5.0	× 5.0	+	250	+	< 5.0 < 15					
AB-3AR		₽	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 10	< 5.0	< 5.0	╀	╀	< 5.0	╁	< 50	+				1	Ī
VB-3AR			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	╁	╀	+	╁	╁	╀					
VB-7	04/07/2009		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	59	< 5.0	╀	\vdash	╀	╁	╀	< 5.0 < 15	<u> </u>				
KWB-7	10/05/20	0.5 < 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	42	< 5.0	H	ŀ	L	-	H	H					
6-90	04/08/2009	4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	Н	< 5.0	< 5.0	H	> 0.5 >	L					
CWB-9	08/28/2008		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	Н	Н	Н	Н	Н	Н					
KAMB-110	04/07/2009	0.6 > 0.0	0.5	< 5.0	< 5.0	< 5.0	× 5.0	× 10	6000	< 5.0	\dashv	Н	Н	< 5.0	Н	< 5.0 < 15	Ц				
WB-11A	10/05/20		2 2 2	< 5.0	450	25.0	0.6 2	210	12	2.0 2.0	< 5.0	v 2.0	< 5.0	+	+	4					
KWB-12A	09/29/2009		< 5.0	< 5.0	< 5.0	250	5.00	01,0	250	25.0	+	+	+	0.00	2 2.0	╁					
CWB-13	04/13/20	ı	< 5.0	< 5.0	< 5.0	< 5.0	×5.0	< 10.0	200	05.0	╀	0.5	+	╁	+	+	+			1	
(WB-13	Dup #6 04/13/2010	l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10.0	< 5.0	< 5.0	Ŧ	╀	2 2 2	+	0.57	+	1				
(WB-13	09/29/20		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	╀	╀	╀	< 5.0	╁	< 5.0 < 15	-				
KWB-P2	04/09/2009		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	₽	╀	╀	╀	╁	╀	-			1	
MW-1R	04/02/2009		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	ŀ	ŀ	H	╁	╀					
٤ [08/23/2009		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	Н	H	Н	H	Н	< 5.0 < 15					
5 5	04/03/20		0.50	× 5.0	× 5.0	< 5.0	< 5.0	c 10	< 5.0	< 5.0	\dashv	Н	Н	H	> 2.0 >	Н					
MW-2A	09/21/2009	-	< 5.0	> 2.0	× 5.0	> 5.0	2 3.U	410	7.50	$^{+}$	2.00	× 5.0	× 5.0	< 5.0	+	+	\downarrow				
MW-3	04/01/20		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	v 10	> 50	0.5.4	╁	╀	+	+	+	5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				1	
MW-3	09/21/2009		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	c 10	< 5.0	< 5.0	╀	╀	+	+	< 500 >	< 5.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 15.0 < 1	-				
MW-4A	04/06/20	- 1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	╀	╀	╀	╁	╀	< 5.0 < 15				t	
4	09/23/20	- 1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	13	< 5.0		H	L	_	\vdash	╁	╀					Ī
MVV-5A	US/22/20(- 1	× 5.0	× 5.0	< 5.0	< 5.0	× 5.0	× 10	6.2	+	Н		Н	< 5.0	Н	Н					
¥9-			< 5.0	0.50	23.0	45.0	0.50	01.0	5.9	< 5.0	+	4		+	> 0.5 >	< 5.0 < 15	4				
MW-6A	09/21/2009	1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2 0 0	5.00	650	< 5.0	200	5,2	+	+	< 5.0 × 15	_				
MW-7A	04/02/2009	0.5 > 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	╀	╀	+	< 5.0	╁	╀	+			1	
MW-/A	09/22/20	L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	Н	Н	Н	Н	-	H					
MW-8	10/05/2009		> 200	< 5.0	0.50	45.0	2.0	v 10	< 5.0	+	+	4	+	\vdash	+	< 5.0 < 15					
WW-9	04/03/200		< 5.0	< 5.0	> 5.0	< 5.0	× 5.0	× 10	3.5	\dagger	0.00	+	+	+	╁	4	1				
9-WM	10/05/2009		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 10	7.3	+	+	< 2.0 < 5.0 < 5.0	< 5.0	5.00	+	< 5.0 < 5.0 < 5.0 < 15.0	+				
-10	04/06/200	l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	╁	╁	╀	╀	╁	> 2.0	< 50 < 15	1			\dagger	
MW-10	09/23/20(< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0		┝	H	L	-	╁	╀					
MW-11A	04/02/2009	_L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	Н	< 5.0 <	Н	H	\vdash	H					
2 4	03/22/20	18	7 3.0	0.6	0.5 >	0.5	× 5.0	< 10	< 5.0	+	4	-	_	\dashv	4						
MW-15	09/23/2009	03 < 5.0	< 5.0	< 5.0	2 × 5.0	**************************************	0.50	v v	6 5.0	< 5.0	< 5.0	× 5.0	< 5.0	+	< 5.0	< 5.0 < 15					
MW-16	04/02/2009	L	< 5.0	< 5.0	< 5.0	<5.0	s 5.0	01 0	25.5	\dagger	+	+	+	+	+	+					
Г	Dup #3 04/02/2009	Ĺ_	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 10	< 5.0	t	+	+	+	+	+	5.0				1	
16	09/17/200	0.5 > 6.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	< 5.0	< 5.0	< 5.0 < 15	+				T
MW-17	04/09/200	- 1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	H		┞	┞	H	╁	╀	-				
T	09/28/200 Drio #7 09/29/200		0.5 v	< 5.0	< 5.0	× 5.0	< 5.0	° 10	× 5.0	< 5.0	> 5.0	< 5.0	< 5.0		Н	Н					
T	_	1	250	> 3.0	> 3.0	2 3.0 2 5.0	2.50	010	0.5.0	\dagger	+	4	\downarrow	+	+	4					
MW-18	09/24/2009	0.5 > 60	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	210	< 5.0	< 5.0 < 5.0	5.0	× 5.0	< 5.0	\$ 5.0	< 5.0	< 5.0 < 15	<u> </u>				T
		ı					25		2.5	┨	4	4	4	$\frac{1}{2}$	4	0.0					

spu	/l 2-Methyl	-																																																ĺ
c Compou	2,4- Dimethyl	l/bn	2 7.30E+0	N NMED TW				L						L				_	\downarrow														L						L						l					
Semivolatile Organic Compounds	2,4 Dichloro	l/bn	-	NMED T				L					-				_							_		_			_										L											
Semivol	<u> </u>	╄	3.65E+03	NMED TV		L		L				L																																						
	1,1- Biohenvi	/6n	Ц							L	L	_		>×											L																									
	Xvlenes	/bn	5.00E+00 6.20E+02	WOCCH		< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	1700	310	< 15	< 15	4 15	2	v /	2 00	3 0	415	× 15	< 15	< 15	450	420	88	720	44V	× 15	130	< 15	× 15	2 4	v 15	< 15	< 15	< 15	< 15	< 15	C 13	× 15	< 15	< 15	< 15	45	82	
	Trichtoro		5.00E+00	I EPA MCL		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.00	7 2.0	2.5	2 4	250	> 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5 ×	0.50	< 5.0	< 5.0	< 5.0	< 5.0	0.67	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	0.00	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	Toluene		7.50E+02			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	909	5.2	< 2.0	< 5.0	× 5.0	0.6 2	250	2	5,7	×5.0	< 5.0	< 5.0	< 5.0	5.6	5.7	< 5.0	9 6	25.0	< 5.0	20	< 5.0	< 5.0	2 4	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 2.0	0.07	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	Tetrachloro ethene	l/Bn	5.00E+00	EPA MCL		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.50	0.00	250	550	0.50	25.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 5.0	0.50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	V 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 6.0	< 5.0	
	o-Xyiene	l/gn	1.43E+03	NMED TW		< 5.0	< 5.0	< 5.0	. < 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 5.0	< 5.0	< 5.0	0.00	0.5.4	0.00	25.0	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 120	< 5.0	25	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0 2 0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	23.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	23	
	N-Propyl benzene	l/bn	:	;		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	330	7.9	< 5.0	< 5.0	A 5.0	0.5	200	208	44	< 5.0	< 5.0	< 5.0	< 5.0	110	110	92	3 6	250	< 5.0	4.1	< 5.0	× 5.0	0.5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	25.0	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.2	52	
	N-Suty!	1/6n	ļ	;		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	20	9.5	< 5.0	4.5.0 6.5.0	< 5.U	0,5,7	0.50	8.6	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	9.4	9.5	< 5.0	5 2	< 5.0	< 5.0	8	< 5.0	× 5.0	V 25.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5.0	2.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	- 1	
spuno	Naphthalene	l/6n	3.00E+01	WQCC HH		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	370	88	× 5.0	0.5	2 2 0 2 5 0	25.0	< 5.0	1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 41	40	< 5.0	0.4°	< 5.0	< 5.0	17	< 5.0	0.50	0.5 >	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.00	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	16	1,	
Volatile Organic Compounds	Methyl-Tert- Butylether	٠-	1.25E+02	-+		< 5.0	< 5.0	< 5.0	< 5.0	12	8.3	5.5	6.7	27	7	v 5.0	2 2.0	5 5.0	250	2.0	7400	77.00	< 5.0	< 5.0	09	24	24	58	£ 5	8.7	< 5.0	< 5.0	160	< 5.0	0.50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	25.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	220		
Volatile	m.p-Xylene	_	1.43E+03	_		× 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1600	310	010	0 9	2 0	2 4	× 10	130	47	v 10	× 10	< 10	< 10	450	420	86	200	4 10	< 10	130	0 v	2 5	× 10	v 10	< 10	< 10	× 10	v 10	2 2	× 10	< 10	< 10	< 10	v 10	14 6	70	
	 sopropyt benzene	l/gu	6.79E+02	NWED TW	1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	180	8	0.5	0,0	× 5.0	2 2 0	× 5.0	83	8	10	10	9.5	5.5	88	3 33	3 5	55	< 5.0	< 5.0	42	< 5.0	0.50	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0 	× 5.0	× 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	+	
	# P		7.00E+02			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1900	₽ 1	0.02	7 3.0	<5.0	<50	< 5.0	22	10	< 5.0	< 5.0	< 5.0	< 5.0	26	27	53.0	24	< 5.0	< 5.0	34	× 5.0	25.0	< 5.0	< 5.0	< 5.0	< 5.0	×5.0	×5.0	<50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	120	727	
	Cymene 4-isopropyl toluena)	ng/l	1			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	15	< 5.0	2 3.0	0.07	< 5.0	< 5.0	< 5.0	6.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.50	0.5 0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	250	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	0.67	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.5.0	< 5.0 < 5.0		
-	Cymene cis-1,2-Dichloro (4-isopropyl ethene	l/Bn	7.00E+01	EPA MCL		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.50	5 5.0	550	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	55.0	550	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.52	0.50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5	A 50.0	0.57	
	cis	ng/l	1.00E+02	AGCC HH		< 5.0	> 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.50	25.0	0.5 2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	000	< 5.0 < 5.0	25.0	< 5.0	< 5.0	< 5.0	< 5.0	25.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.00	< 5.0 < 5.0	2,50	-
-	Benzene Cl	l/Gn	5.00E+00	ra mcL	-	22.0	0.6 >	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	15000	an V	4.50 4.50	2.50	< 5.0	< 5.0	< 5.0	340	180	< 5.0	< 5.0	23	35	1,000	280	2900	810	< 5.0	< 5.0	650	0.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.07	200	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	250	1800	2600	200000000000000000000000000000000000000
1		Chilts:	S WS	Source:	30000	04/02/2009	03/22/2009	04/03/2009	10/05/2009	04/03/2009	10/05/2009	04/06/2009			09/28/2009			╄		ı	04/14/2009				04/13/2009	22 sc	20 B	of the sa	A 65	. 1000	ı	09/24/2009	(36) L	\perp	+	L	Н	09/30/2009		L	10/05/2009		L	09/24/2009	- 1	- 1	ě	09/30/2009		
				ŀ	dno	3 8	3 3	904	¥	04	9	8 8	80	2 8	3 2	2 8	2	65	g	60	92	60	04	.09	8 8		200 # 1	3 8	1	60	04,	08	8 3	40	Dup #6 09/	04)		Dup #8 09/	40 3	101	10,1	Oup #11 10/	$\overline{}$	/60	8	_	04 dan	30 2	048	-
				restion	100800	W-18A	WIVE-10A	W-20	MW-20	₩-21	MW-21	MW-22A	MVV-ZZA	MW-23	W-25	MW-25	V-26	MW-26	4-27	MW-27	V-28	MW-28	٧-29	MW-29	MW-41	MW-41	†	MW-42	V-43	MW-43	MW-45	٧-45	MW-49	MAL50	✝	MW-52	MW-52	┪	MVV-53	4-33 7-564	MW-54A	T	r	MW-55	MW-56	+	t	MW-58	197	,

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

	2-Methyl	1,000	ida ;	:	(* * * * * * * * * * * * * * * * * * *			I			T																												T										900	< 0.20	3.8	6.5
spunoduo	2,4- Dimethyl	T	7.30F+02	NMED TW				Ì		Ì	Ì																	1					T				1			1	l	l							000	< 0.20	4.	17
Semivolatile Organic Compounds	2,4 Dichloro	l) Diri	1.10E+02	NMED TW	8000					Ì									-														1					1		l		İ					1	1	00.07	< 0.20	< 0.20	0000
Semivolatil	2,4,5. Trichloro phenol	ilali	3.65E+03	NMED TW				I																			1						T					İ		T									96.07	< 0.20	< 0.20	000
	1,1- Biohenvi	11011	T	;			ľ												_							1		1	1	1		1	1					Ì									1	1	90.00	< 0.20	1.4	4
	Xvienes	t	6.20E+02	WQCC HH		320	240	2, 5	181	715	2 4	, v	v 15	× 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	¢ 15	< 15	c 15	01.7	× 15	017	د د د د	, \ \ 15	× 15	< 15	< 15	< 15	< 15	<u>۽</u> د	¥ 1,	< 30	< 30	< 15	< 15	< 15	< 15	× 15	412	\$ 2		× 15	_	_
	Trichloro	1/00	5.00E+00	EPA MCL		< 5.0	< 5.0	200	× 50.0	200	2	2 6 6	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.0	0.50	0.6	5.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.50	0.5 4	× 10	c 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.00	+	十	t	T
	Toluene	1/011	7.50E+02	WQCC HH		< 5.0	< 5.0	0.50	25.0	0.5.5	× 5.0	6.6.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.6	0.50	0.0	< 5.0	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	0.00	2000	× 10	× 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.65	0.00	7.5.0	< 5.0	2200	4800
	Tetrachloro ethene	1/07		EPA MCL		< 5.0	< 5.0	0.50	× 5.0	0.5 0	V 250	× 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	20.0	0.00	0.00	× 5.0	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	7 2.0	, 5.0 5.0	< 10	ot 2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5.0	0.0.0	250	< 5.0	< 5.0	< 5.0
	T T	1/07	63	-	86.4	< 5.0	< 5.0	0.5.0	× 5.0	×5.0	0.50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7.0.0	25.0	0.5 7	× 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	4 5.0	25.0	< 5.0	< 10	× 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.6 2	0.0	0.5.0	< 5.0	190	380
	N-Propyl benzene	_	T	:		220	180	9	44	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	25.0	0.5.0		0.65	0.57	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	15.0	6.7	× 10	× 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.02	2.00	15.	9.1	120	89
	N-Butyl benzene	l/bn	,	1		17	< 5.0	1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5	0.50	0.50	0.5	0.00	0.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.0	× 5.0	< 5.0	v 10	¢ 10	< 5.0	< 5.0	< 5.0	< 5.0	0.00	7 2.0	0.0 v	× 5.0	< 5.0	11	5.5
spuno	Naphthalene	l/Sn	3.00E+01	WQCC HH		65	32	7.8		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5	0.6	0.00	0.5	0.5	2.5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	0.00	< 5.0	× 5.0	< 5.0	< 5.0	43	-27**
Volatile Organic Compounds	Methyl-Tert- Butylether	╌	╌	NMED TW		17	19	300000		150	110	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.5	< 5.0	< 5.0	< 5.0	5.8	10	9.3	2.4	= 5	101	2 4	5.0	0.50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.6 0	< 5.0	< 5.0	< 10	12	< 5.0	< 5.0	< 5.0	< 5.0	45.0	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Volatile O	M.p. Xylene	l/Sn	69	_		320	240	20	16	< 10	< 10	c 10	× 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	> 10	< 10	410	01 01		100	0 4 7	v 10	v 10	× 10	< 10	< 10	< 10	× 10	01.	0 0	Q Q	v 10	< 20	< 20	< 10	× 10	< 10	01 0	1 1 2	× 10	× 10	200	< 10	940	1400
		l/bn	6.79E+02 1	2		160	2	69	38	32	8.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 -	0.5.0	0.5	0.07	5.0	250	× 5.0	5.0	< 5.0 < 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.5	2.00	2.0	< 5.0	< 10	< 10	< 5.0	< 5.0	2.0	> 5.0	500	╀	1	L	32		_
-	Ethyl Is benzene b	-	1 1	EPA MCL N	3	44	32	09	37	< 5.0	< 5.0	H	< 5.0	Н	< 5.0	\vdash	-	\dashv	┪	1	1	+	+	+	+	╁	× 5.0	+	+	╀	+	H	H	< 5.0	+	+	+	ł	H	F	_	\dashv	+	+	0.00	\dagger	╁	t	H	< 5.0	1100	500
-	Cymene (4-isopropyl toluene) b	ng/l		i)		6.3	6.0	5.0	< 5.0	5.0	5.0	H	H	Н			\dashv		┨	\parallel	+	+	+	6 5.0	+	+	╀	╀	H	< 5.0	╁	Н	H	< 5.0	+	╀	+	╁		H	_	\dashv	\dashv	+	+	+	╀	ŀ	-	< 5.0	٦	
				迃	ř.		_	\vdash		L	_	l	-			1	-	+	$\frac{1}{1}$		1	1	+	+	+	\dagger		\mid		ł	-			1	+	\dagger	+	ł	L	Н	+		1	+	†	t	t	-	\mid		-	_
	cis-1,2-Dichloro		7.00E+01	\perp		< 5	< 5.	< 5.	< 5.0	< 5.	< 5.0	< 5.	< 5.0	< 5.	< 5.	, S.I	× 5.(× 5.1	< 5.0	× 5.	< 2.0	< 5.) (S)	25.0	× 5.	100	< 5.0	> 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.(> 5.0	25.0		25.5	< 5.0	< 5.0	< 10	Ŷ	× 5.0	< 5.0	7.0	0.6 >	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chloroform	ng/l	1.00E+02	WOCC HH		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	× 5.0	< 5.0	< 5.0	< 5.0	\$ 20	0.00	0 S >	250	25.0	250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.0	2.0	< 5.0	< 5.0	< 5.0	< 10	° 10	< 5.0	0.5.0	0.00	0.6.4	× 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Benzene		5,00E+00			~~	500	58.8	100	.00	***		L.	< 5.0	4	< 5.0		< 5.0	L		┸	× 5.0			× 5.0	100	32	1828	13		I. I			< 5.0	┸	L	< 5.0	5.5	5.3	< 10					450				20		1900	
		Units:	CGWSL:	Source:	Date	04/14/2009	10/01/2009	04/14/2009	09/25/2009	04/14/2009	10/01/2009	04/03/2009	09/29/2009	04/02/2009	09/22/2009	03/30/2009	09/18/2009	03/30/2009	09/18/2009	03/30/2009	09/18/2009	03/30/2009	09/18/2009	03/31/2009	09/17/2009	03/31/2009	09/17/2009	03/31/2009	09/17/2009	03/31/2009	03/31/2009	09/18/2009	03/31/2009	09/18/2009	03/3 (/2009	03/3/1/2009	09/21/2009	03/31/2009	09/21/2009	03/31/2009	09/21/2009	04/06/2009	09/22/2009	04/06/2009	09/2/2009	09/23/2009	04/02/2009	09/17/2009	04/15/2009	10/01/2009	04/15/2009	10/01/2009
				ŀ	Dup				П			Ц						1	1	1]	*									Dup#1					1								4	_	Dup #	•					
					Location	MW-62	MW-62	MW-66	MW-66	MW-67	79-WW	MW-68	MW-68	MW-70	MW-70	MW-72	MW-72	MW-73	VIVV-13	MW-74	MW-/4	C/-AAW	27 /V/W	MW-76	MW-76	MW-77	MW-77	MW-78	MW-78	WW-79	MW-79	WW-79	MW-80	MW-80	#4W.81	MW-82	MW-82	MW-83	MW-83	MW-84	MW-84	MW-87	MVV-8 /	00-AAW	MW-88	MW-88	MW-89	WW-89	MW-90	06-WW	WW-91	MVV-91

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

Part Part	Cymene				ŀ	-	\vdash			+	Jennivoral	ie Organic C	Spinodiji	
Control Cont	Colored Colo										2.4.5	4.5	2.4-	
Column C	Total	p-Xylene	Naphthalene											2-Methyl phthalene
Part Part	EPA MCL EPA MCL MED TO	1/67	l/6n	1 1		1 1		gu 1/gr	I/bn I/			₩	+-+	ı/Bn
1	Color Colo	MED TW	+-					2C UL EDA	+00 6.20E+0		3.655+03	1.10E+02	.30E+02	:
Column C	200 200		20		500	970		2			11 C T 11	MINE D MI	MLD - W	
	Marked and Marked Marked and	50		14	\vdash	ľ		ľ		0.23	< 0.20	< 0.20	- 6	0.45
Color Colo	C C C C C C C C C C	30		6.9	-	-		-	1	0.31	< 0.20	< 0.20	12	0.35
Color Colo	C C C C C C C C C	H		12	H	L		╁		4.6	< 0.20	< 0.20	1.2	2
Color Colo	C C C C C C C C C C		38	H		L		\vdash		3.6	< 0.20	< 0.20	0.68	2.9
Color Colo	C C C C C C C C C C	H	ŀ	┞	┞	L	H	┝	Ł	H	< 0.20	< 0.20	< 0.20	< 0.20
Colorado Colorado	C C C C C C C C C C	-	L	H	H	L	-	┝	L		< 0.20	< 0.20	< 0.20	< 0.20
Color Colo	C C C C C C C C C C C			H	L	L		┝	H		< 0.20	< 0.20	< 0.20	< 0.20
6.50 6.50 <th< td=""><td> C C C C C C C C C C</td><td></td><td></td><td>11</td><td></td><td>L</td><td>_</td><td>┝</td><td></td><td></td><td>< 0.20</td><td>< 0.20</td><td>< 0.20</td><td>< 0.20</td></th<>	C C C C C C C C C C			11		L	_	┝			< 0.20	< 0.20	< 0.20	< 0.20
Column C	C C C C C C C C C C	205 200		< 5.0				Н	H		< 0.20	< 0.20	< 0.20	< 0.20
Column C	C C C C C C C C C			5.5	-	4		\dashv			< 0.20	< 0.20	< 0.20	< 0.20
6.20 6.20 <th< td=""><td> C</td><td>+</td><td>*</td><td>18</td><td>\dashv</td><td>_</td><td>_</td><td>-</td><td>*</td><td></td><td>< 0.20</td><td>< 0.20</td><td>< 0.20</td><td>9.1</td></th<>	C	+	*	18	\dashv	_	_	-	*		< 0.20	< 0.20	< 0.20	9.1
Color Colo	C C C C C C C C C	\dashv		-	_		_	Н	*		< 0.20	< 0.20	< 0.20	7.2
Column C	C C C C C C C C C C C	7	-		\exists	Н		Н	Н		< 0.20	< 0.20	< 0.20	0.83
5.30 6.30 <th< td=""><td> C C C C C C C C C C</td><td>×8.</td><td>í.</td><td>_</td><td>-</td><td></td><td>_</td><td>_</td><td>_</td><td></td><td>< 0.20</td><td>< 0.20</td><td>6.79</td><td>0.41</td></th<>	C C C C C C C C C C	×8.	í.	_	-		_	_	_		< 0.20	< 0.20	6.79	0.41
4.30 6.30 <th< td=""><td> C C C C C C C C C C C</td><td>***</td><td>Ń</td><td>Н</td><td>Н</td><td></td><td></td><td>H</td><td>_</td><td></td><td>< 0.20</td><td>< 0.20</td><td>8.5</td><td>1.7</td></th<>	C C C C C C C C C C C	***	Ń	Н	Н			H	_		< 0.20	< 0.20	8.5	1.7
5.0 C 5.0 S	C C C C C C C C C C C	+	+	\dashv	_	_		H	Ц	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
51 C 520 C	C C C C C C C C C	_	S	4	4	-		Н	Ц	5.1	6.0	1.8	6.7	20
250 C 500 C 50 C 50 <th< td=""><td> C C C C C C C C C C</td><td>$\frac{1}{1}$</td><td></td><td>4</td><td>-</td><td>-</td><td>\dashv</td><td>-</td><td>Ц</td><td>1.7</td><td>< 0.20</td><td>< 0.20</td><td>3</td><td>17</td></th<>	C C C C C C C C C C	$\frac{1}{1}$		4	-	-	\dashv	-	Ц	1.7	< 0.20	< 0.20	3	17
5.20 5.20 <th< td=""><td> C C C C C C C C C C C</td><td>+</td><td>+</td><td>+</td><td>4</td><td>-</td><td>+</td><td>+</td><td></td><td>-</td><td>< 0.20</td><td>< 0.20</td><td>< 0.20</td><td>< 0.20</td></th<>	C C C C C C C C C C C	+	+	+	4	-	+	+		-	< 0.20	< 0.20	< 0.20	< 0.20
Color Colo	C	+	Automa 2	+	-	4	1	\dashv	4	\dashv	< 0.20	< 0.20	< 0.20	< 0.20
C	C C C C C C C C C C			+	+	4	+	+	\dashv	1.6	< 0.20	< 0.20	5.9	22
C	C C C C C C C C C C	1		+	+	\downarrow	+	+	4	3.9	< 0.20	< 0.20	5.6	57
6.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 <	\$50 \$50	$\frac{1}{1}$		+	+	+	╁	╁	+	4.3	< 0.20	< 0.20	4.1	2
650 650 <td> \$50</td> <td>╁</td> <td>$\frac{1}{1}$</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td></td> <td></td> <td></td> <td></td>	\$50	╁	$\frac{1}{1}$	+	+	+	+	+	+	+				
\$50 \$50 <td> C C C C C C C C C C</td> <td>ŀ</td> <td>+</td> <td>╀</td> <td>╀</td> <td>╀</td> <td>t</td> <td>╀</td> <td>+</td> <td></td> <td></td> <td></td> <td>1</td> <td></td>	C C C C C C C C C C	ŀ	+	╀	╀	╀	t	╀	+				1	
\$\circ{5}{10} \cdot \circ{5}{10}	< 5.0	H	-	+	╀	ł	+	╁	+					
\$\circ{5}{0}\$ \$\circ{5}{0}	\$50 \$50 \$11 \$11 \$50	ł	\mid	╀	╀	╁	+	╁	+				İ	
650 650 <td> \$\cdot \cdot d> <td></td> <td>-</td> <td>+</td> <td>+</td> <td>+</td> <td>\dagger</td> <td>+</td> <td>+</td> <td></td> <td></td> <td></td> <td>\dagger</td> <td></td>	\$\cdot \cdot		-	+	+	+	\dagger	+	+				\dagger	
\$\circ{50}{\ci	\$60 \$60	H	╀	ł	╀	╀	╁	╁	Ŧ					
Color Colo	C C C C C C C C C	L	-	┞	┝	╀	ļ.	╁	╀					
C	C C C C C C C C C C	-	H	┞	H	H	ŀ	┝	L					
C S D C S	C C C C C C C C C C			Н	H	H	L	-	L			-		
C S D C S	C C C C C C C C C C	$\frac{1}{1}$	+	\dashv	-	_	_	Н	_				_	
C S D C S D C S D C S D C S D C D C S D	C C C C C C C C C	Š		\dashv		\dashv	Н	Н	L					
S	C C C C C C C C C C			-	-	4								
\$\cdot \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} \text{Sign} Sig	C C C C C C C C C	+	+	4	-	4	Н	Н	_					
C C C C C C C C C C	\$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	+	1	4	-	_	Н	Н	_				-	
C	 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 	+	+	-	4	4	+	\dashv						
10 10 10 10 10 10 10 10	 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 	1	+	\dashv	\dashv	4	+	-	4					
	 53.0 53.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0 	+	+	+	-	4	+	-	-				-	
10 10 10 10 10 10 10 10	 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 	+	+	+	4	+	+	-	4					
\$5.0		-	$\frac{1}{1}$	┨	_	_	-	-	_				_	
C C C C C C C C C C		+	+	+	_	\Box	4	Н	Н				_	
\$5.0 \$5.0 <th< td=""><td>< 5.0 < 5.0 < 5.0</td><td>-</td><td>-</td><td>\dashv</td><td>-</td><td>4</td><td></td><td></td><td>_</td><td></td><td></td><td></td><td>-</td><td></td></th<>	< 5.0 < 5.0 < 5.0	-	-	\dashv	-	4			_				-	
	0.6 > 0.6 >	+	+	\dashv	4	H	+	H	Н					
1	(1)	+	+	+	-	4	+	+	4				_	
	0.50	+	+	+	-	4	+	\dashv	\dashv					

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

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Benzene	Chloreform	cis-1,2-Dichloro	Cymene (4-isopropyl	Ethyl	Isopropyi	,	Methyl-Tert-		N-Butyl N			ē				·	2,4 Dichloro	2,4- Dimethyl	2-Methyl
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2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

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	0.71 0.20 1.7 2.9 2.1 0.20 0.20 0.67 0.20 1.7 22 1.6 0.71	047 5.2 0.36 < 0.20	047 5.2 0.36 < 0.20	0.36 < 0.20	< 0.20	L	٦		2020	27	+	+	╁	+	+	+	0 8	, ,	4 U.2U	v 0.20

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

	Phenan Phenol Pvrene	ybn ybn ybn	3.00E+01 1.10E+03 5.00E+00	WOCC HH NMED TW W		6.4	4.4 < 0.20	14 0.93	11 0.59	< 0.20 < 0.20 < 0.20	< 0.20 < 0.20 < 0.20	2.2 0.34 < 0.20 < 0.20	< 0.070	0.38 < 0.20 0.26 < 0.20	0.00	45 0.57 < 0.20	5 < 0.20 1.7	5.8 < 0.20 0.6	9.4 0.25 1.6	0.44 < 0.20 0.35	400 0 0 0	< 0.20 < 0.20 <	< 0.20 < 0.20 0.67	0.48 57.8.8.8	.23 .83	29 4.8 1.6 0.53																						_
	Fluor anthene Fluorene		1.46E+03 1.46E+	NMED TW NMED TW		0.51 24	_	0.46	0.28 6.1	ŀ	L	< 0.20 3.3	4	< 0.20 1.2	1	1	< 0.20 0.45		< 0.20 0.96	4	5 0 20 0 52	< 0.20 0.64	< 0.20 0.25	L	< 0.20 1.9	< 0.20 4.8																						_
	utyl Di-n-Octyl	l/bn	*	**	200	0 < 0.20	-	H	H	-	Н	Н	-	0 < 0.20	╀	╁	Н	-	+	+	+	╀	0 < 0.20	Н	0 < 0.20	0 < 0.20		1	+	1				1		-											1	_
Semivolatile Organic Compounds	Diethyl Di-N-Butyl Phthalate	l/gu l/gu	E+04 3.65E+	NMED TW NMED TW	8000 8000	< 0.20 < 0.20	-	L	Н	H	< 0.20 < 0.20	Н	< 0.070 < 0.070	+	╁	╁	< 0.20 < 0.20	┥	< 0.20 < 0.20	┿	020 < 020	+	< 0.20 < 0.20	Н	Н	< 0.20 < 0.20		+	+			L															-	_
olatile Organi.	Dibenzo Die furan Phth	т	- 2.92	- NME		3 > 6.6		Н	H	3.1 < 0	1.4 < {	H	6.7 < 0	+	t	╁	Н	┥	1.6	╫	+	╀	╁╴	Н	-	5.8 < 0	1	+				H		+													-	_
Semiv.	Carbazole	ng/l	1	1		12	12	15	10	0.25	< 0.20	1.7	2.1	5 6	2.1	-	0.29	0.27	9.0	1	0.52		< 0.20		2	< 0.20																						-
	Bis(2- Ethylhexyl) phthalate	H	6.00E+00	EPA MCL		3.8	< 0.20	14		0.61	1.5	0.65	1.1	1.33	0.65	0.43	66.0	14	5.7	1.2	62 - 5	2.9	1.4	-	0.36	2.8																						
	Anthracene	l/6n	1.10E+04	NMED TW		-	0.39	1.1	0.8	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	× 020	1	1	< 0.20		H	< 0.20	0.44				-																		
	oh- Aceto	l/6n	-	•	8	< 0.20	4	_	_	< 0.20	4	4	\perp	< 0.20	Ļ	Ц	< 0.20	4	0.20	╀	┸	L		Ц	4	< 0.20																					-	
	aph Acenaph	1 1	+03	- MI C		7	7	+	\dashv	Н	┪	+	< 0.070	+	╁	Н	H	╅	+	╁	╁	╁	H	┪	< 0.20	+	1		+	-			1	+	-	-			}	1		$\frac{1}{1}$		+	+	+	-	
	4-Methyl Acenaph	l/bn l/bn	2.19E+03	NMED TW		< 0.20 4.7	╛	4	< 0.20	Ц	4	4	< 0.20	< 0.20 0.6	L	Ш	< 0.20 0.27	4	0.35	< 0.20	╀	< 0.20 < 0.20	Ì		4	0.96 2.8			-				+	+				1				$\frac{1}{1}$	-	1	+		1	
	2-Methyl 4-M	n l/bn	;	-	3	J	+	_	-	< 0.20 < (-	02.02	+	-	Н	< 0.20 < (-+	9.3	┿	t	< 0.20 < 0		+	┨	0.47		-	-			+	+	+				-	1			+				1	-	1
_1		Units:	CGWSL:	Source:	Date	04/15/2009	10/01/2009	_	_	_	-	04/15/2009	10/01/2009	10/01/2009	04/15/2009	-	-	- 1	04/13/2009		09/28/2009	₩.		09/28/2009	09/28/2009	10/01/2009	09/24/2009	04/10/2009	09/24/2009	04/10/2009	09/24/2009	04/10/2009	09/24/2009	04/08/2009	10/05/2009	04/08/2009	09/30/2009	04/08/2009	09/30/2009	04/03/2009			04/08/2009	10/02/2008	04/08/2009	04/10/2009	09/24/2009	
				ŀ	dna	+	\int			-[-[07	2 de la 180	Oup #9			1	\{\frac{1}{2}}	-	-														Our #5					$\prod_{i=1}^{n}$	1		Dup #10			1	1	-	
					Location	MW-92	MW-92	MW-93	MW-93	MW-95	MW-95	MW-96	WW-96	96-WW	MW-98	MW-98	MW-99	66 MM	WW. + 0.1	MW-103	MW-103	MW-104	MW-104	MW-106	MW-107	MW-108	NOL-33	NOL-33	NCL-33	NCL-34	NCL-34	NO.	NCL-44	NC1-49	NCL-49	NP-1	NP-1	NP-2	7-12	e de	e a	NP-3	5 1	9	9-48	0 0	6-dN	

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

2-Methyl 4-Methyl Acenaph Acenaph Aceto phenoid ugil ugil ugil ugil ugil ugil NMEDTW	Bis (2. Ethiniacen phiniacy) phiniacen phiniacen ugfl ugfl ugfl ugfl NIEE-104 6.00E-100 NIEED TW EPAR MCL.	Diberzo I Ugil ugil I I I I I I I I I I I I I I I I I I I	Diethyl Di-N-Butyl Phthalate Ugil ugil ugil 2,926F-03 MED TW N	Phthalate Ugfl :: ::	Fluor ugil ugil 146E+03 146E+03 WMED TW WMED TW WEND T	Naphthalene ug/l 3.00E+01 WQCE+01	Phenan threne PI ugil ugil ugil ugil ugil ugil ugil ugil	Phenol Pyrene ugh some ugh some ugh some ugh wocc born white rugh some ugh
ugh ugh ugh NMEE 43	1.10E-0.4 6.00E-0.0 NMED TW EPO FTW EP	() () () () () () () () () () () () () (197 197 197 197 197 197 197 197 197 197	i i i i i i i i i i i i i i i i i i i	46E+03 1.4EE	MOCO HI	UGIN 100-100 50 100 100 100 100 100 100 100 100 1	100-100-100-100-100-100-100-100-100-100
: 1	 <u> </u>		892E+04 3.65E+03		AED TVV NMED T	3.00E-01 WQCC HH	NMED TV WG	CC Dom IMEO TO CO Dom IMEO TO CO DOM
	- 		MEG TW INMED TV	:	AMED TW INMED TW	MACO HA	NAMEO TVV WOO	NOTED IN NATIONAL SERVICES IN
								15 TO 16 A C A C A C A C A C A C A C A C A C A
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Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

				FIGURE CONTROL					Signatural formation of the signature of	
	<u>-</u>		:	: :			:	Total		Total
	Units:	Calcium mg/l	Chioride mg/l	Fluoride mg/l	Potassium mg/i	Sodium mg/ł	Sulfate mg/l	Alkalinity mg/l	Nitrogen ma/l	Solids ma/l
	CGWSL:	;	2.50E+02 1.60E+00	1.60E+00	3	;	6.00E+02	ì	1.00E+01	1.00E+03
- [,	WQCC Dom	WOCC HH	;	;	WQCC Dom	,	WQCC НН	WQCC Dom
Location Dup	7									
KWB-1A	04/07/2009	385	210	0.784	1.02	170	1890	365	<0.5	3610
KWB-1A	09/29/2009	_ [198	0.955	0.969	168	1850	409	0.709	3570
KWB-1C	04/07/2009	403	190	0.68	1.33	178	1850	346	<0.5	3660
KWB-1C	09/29/2009		197	1,24	0.866	156	1820	400	<0.5	3590
KWB-3AR	04/09/2009	601	176	Ĉ.5	1.05	329	2780	379	12.1	5270
KWB-3AR	09/29/2009	582	176	<0.5	0.545	411	3050	335	71.9	5490
CWB-7	04/07/2009		474	<0.5	1.25	229	860	630	5.74	2940
KWB-7	10/05/2009	327	517	0.789	0.467	256		989	7.15	3130
CWB-9	04/08/2009		205	<0.5	0.812	141	1370	482	0.564	2990
(WB-9	09/29/2009	408	242	<0.5	0.791	137	1450	424	1.17	3070
(WB-10	04/07/2009		166	0.764			26.8	644	0.778	1070
KWB-11A	04/07/2009	389	864	Q.5	1.67	569	814	466	30.1	3510
KWB-11A	10/05/2009	_	890	8	0.426	254	954	477	33.7	3940
CWB-12A	09/29/2009	L	130	<0.5	0.716	138	2250	281	5.47	4010
7			181	<0.5	1.02	154	₩ 176 0	255		3270
KWB-13 Dup #6	6 04/13/2010	505	181	¢0.5	1.25	124	1760	282	13.8	3370
(WB-13	09/29/2009		157	0.501	0.934	147	1710	286	14.4	3500
KWB-P2	04/09/2009	170	255	0.05	70.7	337	1880	100	7.60	2040
MVV-1K	04/02/2009	040	1000	0.010	3.52	000	1840	/91	C.55	95740
404.24	04/01/2009	562	2750	210.0	5.34	2550	2000	335	0.712	10,00
AM,2A	04/02/2009	478	25.40	2 84	623	2540	7067	523	21.75	10000
MW-2A	09/21/2009	394	2020	5.45	4.58	1180	1980	207	\$ P	0069
AW-3	04/01/2009	517	1090	1.91	4.26	730	2280	236	<0.5	0965
WW-3	09/21/2009	473	976	2.11	4.83	669	1870	236	<1	4700
WW-4A	04/06/2009	352	7180	1.55	5.33	725	1540	216	<0.5	4540
AW-4A	09/23/2009	380	1280	1.65	3.74	833	1570	222	۲۷	4710
Н	Н	468	3360	2.7.4	7.98	2800	5160	414	V	13200
AW-5A Dup #3	_	513	3320	2:7	8.28	3130	5160	419	⊽	16400
4W-6A	04/01/2009	584	P98s	1.35	1.32	733	1570	148	<0.5	3720
MW-6A	09/21/2009	259	876	1.32	1.18	679	1470	130	₽	3680
AW-7A	04/02/2009	434	1980	0.972	4.02	1820	2450	455	<0.5	0889
AW-7A	09/22/2009		1980	1.1	3.9	1550	~ 2430	246	۲۶	7580
MW-8	04/03/2009	329	344	1.89	1.53	275	2570	596	3.21	£380 S
4W-8	10/05/2009			2.02	1.75	391	2690	293	12.2	0585
MW-9	04/03/2009	564	476	2.08	2.21	500	3200	335	16.6	0255
MW-9	10/05/2009	463	508	2.11	2.14	П	2860	283	18.3	>5850
AW-10	04/06/2009		1370	0.519	5.69		1880	216	<0.5	5260
MW-10	09/23/2009	497	1680	0.596	3.29	945	1900	236	₹	5530
MW-11A	04/02/2009	1160	9040	0.503	21.2	Т	2820	416	<0.5	18000
MW-11A	08/22/2009	1010	0676	0.598	21.9	Т	2850	399	Ş	19100
MW-15	04/06/2009	621	1280	3.43	7.25	908	2070	167	<0.5	5290
AW-15	08/23/2009	079	1500	77.1	5.85	175	1970	=	;	5830
MVV-10	-+-	87	200	71.7		454	0877	667	0.577	4/40
A4/A/45	000777000	2 2	170	200	0.0	204	3350	262	0.373	0004
MIN-17	04/09/2009	2/2	166	0.655	2 18	85.1	4300 ***	115	200	0200
MW-17	09/28/2009	١.	118	0.742	2.18	26	1030	101	2.07	1910
MW-17 Dup #7	1	340	121	0.731	1.98	60.5	1070	101	2.21	1950
t	+-		177	0.721	1.45	6.97	1240	399	13.7	
4W-18	09/24/2009	ı	173	0.713	129	90.3	1160	430	11.2	0892

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

		Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	Total	Nitrogen	Total Dissolved Solids
	Units:			mg/l	l/bm		mg/l	mg/l		mg/l
	Source:	1	Wacc Dom Wacc HH	WACC HH		ı	WQCC Dom	,	WOCC HH	-
Location Dup	Ц									
MW-18A	04/02/2009	648	5410	2.47	31.3	3530	2000	372	<0.5	15600
MW-18A	09/22/2009	616	6130	2.32	38	3590	5180	308	Ţ.	16400
MW-20	04/03/2009	484	Zog.	2.32	0.632	290	3120	277	2.12	5480
MW-20	10/05/2009	388	301	2.46	0.415	229	3000	273	1.5	5710
MW-21	04/03/2009	929	482	17.71	1.92	479	3150	301	15,6	2800
MW-21	10/05/2009	479	475	1.62	1.75	411	2930	293	16.8	2950
MW-22A	04/05/2009	565	1750	0.561	3.64	1320	1620	196	<0.5	5780
MW-22A	09/23/2009		1810	0.517	3.13	1140	2040	217	۲۷	6430
MW-23	04/14/2009		467	0.592	1.3	433	15.9	1140	<0.5	- 010Z
MW-23	09/28/2009		555	1.06	1.24	454	29.7	1010	<0.5	. 2270
MW-25	04/06/2009	┙	832	0.878	5.2	581	1240	157	0.525	3570
MW-25	09/23/2009	579	828	1.1	3.46	535	1230	159	⊽	3560
MW-26	04/02/2009		734	1.74	4.38	502	3540	177	<0.5	6720
MW-26	09/17/2009	Li	590	1.92	3.9	313	2860	179	₹	5310
MW-27	04/03/2009		212	626.0	9.23	142	0874	201	1.65	2720
MW-27	09/17/2009		201	1.18	9.54	135	1350	199	2.6	2710
MW-28	04/14/2009	251	179	0.919	0.484	8.66	267	858	<0.5	2090
MW-28	09/25/2009	228	182	7.7	0.38	102	460	760	Ÿ	1830
MW-29	04/13/2009	440	398	1.97	3.18	415	1890	591	<0.5	3900
MVV-29	09/24/2009	387	454	7.69	3.35	386	2140	0/9	Ţ	4780
MAY 44	04/13/2009	200	255	0.522	0.07	200	0071	1080	80	06.60
WW-42 Duo #7	+	210	641	0.595	0.743	410	27.4	1120	107	0/04
MW-42	+	203	693	0 502	0 682	302	99.1	875	505	2480
MW-42	09/24/2009	237	750	0.605	0.462	425	626	1030	41	3680
MW-43	04/14/2009	9.66	652	0.624	0.508	632	140	1120	<0.5	2290
MW-43	09/28/2009	133	. 626	69.0	0.561	584	128	972	<0.5	2280
MW-45	04/06/2009	383	264	1:75	5.69	207	1630	304	<0.5	3200
4W-45	09/24/2009	445	343		4.59	228	1840	320	<1	3350
MW-49	04/14/2009	216	547	0.977	2.12	298	358	703	1.07	2310
MW-50	04/09/2009	374	170	0.583	2.11	116		304	<0.5	2700
7	-+	373	167	0.863	2.37	<u>.</u>	1310	311	0.565	2690
WW-50 Dup #6	-	408	167	0.723	2.47	121	1280	316	<0.5	2730
MW-52	04/08/2009		261	1.4	4.0	342	1060	616	2.24	2600
+	09/30/2009	165	180	1.42	0.328	314	1030	552	2.18	2330
4W-52 Dup #8	_		181	1:11	0.316	361	1020	538	2.11	2500
MVV-53	04/08/2009	330	119	0.848	1.07	28.1	1250	265	0.507	2370
MAY 5.4 A	10/07/2009	707	000	0.55	0.91	27.7	25.7	525	77.7	2002
MVV-34A	10/06/2009	272	200	0.003	4.0.4	40.4	734	076	\$ 6.5	2230
MAY 54A	Т.	373	243	0.702	20.5	52.0	4//	408	50.5	2240
1	-	27.	707	0.737	20.5	37.7	00/	54.5	c.0.5	2280
4107.55	04/10/2009	727	27.6	1.15	0.097	2710	787	200	0.23	4150
20.744	03/2/2003	27.7	130	5.5	1000	1,50	7.650	207	0.30	DC0#
00-400	04/10/2009	202	200	0.75	1.00	100+	1320	432	0.018	3940
MW-56 Dup #5	+-	496	338	0.853	96	185	1830	390	7 🔻	4100
t	╌	214	327	0.701	<0.2	102	209	770	<0.5	1610
AW-58	09/30/2009	ļ	317	==	0.281	105	95.9	794	<0.5	1500
MW-61	04/09/2009	ı	WW. 2 W W F ANN X	607.0	0,00	,00	COMMON OF WALL	5		V. W. V. V.
				20.70	0.040	200	V V V V V V V V V V V V V V V V V V V	623	50.5	4670

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

		Calcium	Chloride	Fluoride	Potassium	Sodium	Suffate	Total	Nifrogen	Total Dissolved Solids
	Units:	l/gm	l/gm	l/bm	mg/l		mg/l	mg/I		l/Bm
	Source	: 1	WOCC Dom WOCC HH	WOCC HH	: ,	} }	WOCC Dom	: ;	WOOD HH	1.00E+01 1.00E+03
Location Dup	F									00000
Ļ	04/14/2009	186	171	0.72	1.08	177	158	943	<0.5	0091
W-62	10/01/2009	180	201	0.888	0.907	168	105	908	<0.5	1600
W-66	04/14/2009		238	0.901	1.09	191	6.21	883	<0.5	1230
W-66	09/25/2009		231	1.05	0.74	177	6.96	750	<0.1	1230
MVV-67	04/14/2009	L	238	<0.5	0.632	127	322	729	<0.5	1590
W-67	10/01/2009	L	202	<0.5	0.719	142	558	544	<0.5	2030
W-68	04/03/2009	239	186	1.8	3.81	142	1150	234	3.32	2290
MW-68	09/29/2009	379	381	1.61	4.63	221	1380	281	9.38	3200
MW-70	04/02/2009	647	1500	<0.5	4.38	637	2010	264	<0.5	066#
W-70	09/22/2009	929	1050	909:0	4.69	534	1970	217	<1	2390
MW-72	03/30/2009		3800	5.34	8.88	2130	2760	317	< 0.5	10600
W-72	09/18/2009		4050	5.36	9.55	2200	2820	228	<1	10800
MW-73	03/30/2009	571	2410	3.06	2.2	2040	3776	452	<0.5	10200
MW-73	09/18/2009	542	2290	* 3,38	3.71	2190	3570	402	1.44	9130
MW-74	03/30/2009	636	2060	8.53	36.2	1930	≈ 3270	360	0.552	0110
MW-74	09/18/2009	582	2050	8.73	37.9	1880	3240	373	3.16	6610
H	\dashv	340	1480	8.83	21.5	1510	2020	809	<0.5	5840
MW-75 Dup #1	-	340	1550	8.46	18.2	1430	1910	581	v	5800
MW-75	09/18/2009	322	1500	8.48	18.1	1370	1840	591	Ÿ	2900
MW-76	03/31/2009	415	1400	3.32	25.2	949	1960	266	0.724	5460
01-0010	03/31/2009	200	0101	0.44	42.0	250	2000	ţ,	7 6	0170
MW-77	09/17/2009	439	1510	253	49.7	1380	2310	494	Z:0.2	5460
AMM-78	03/11/2009	648	2440	*86.8	210	835	- 0000	7443	602	2000
W-78	09/17/2009	339	1080	11.1	20.3	802	1760)	358	¥ 5	3030
WW-79	03/31/2009	295	2120	17.4	10.1	1490	2230	246	0.762	0099
W-79 Dup#1	$\overline{}$		2290	11.4	11.3	1690	2460	216	0.76	6680
Н	09/18/2009	209	2770	10.2	9.8	1400	2780	218	₽	7770
W-80	03/31/2009		1300	4.75	3.56	1200	1900	202	0.809	5110
MW-80	09/18/2009	L	1340	4.28	3.57	851	1930	184	₹	5650
MW-81	03/31/2009	566	1490	8.92	8.81	1060	2260	286	27:6	6740
MW-81	09/18/2009		1290	8.55	6.5	993	1990	218	4.57	4990
W-82	03/31/2009	L	1460	13.1	8.91	1630	2380	852	<0.5	6320
MW-82	09/21/2009	L	1480	13.4	9.14	1640	2420	718	٥	2007
W-83	03/31/2009	339	1180	4.03	29.2	946	1840	205	<0.5	2050
W-83	09/21/2009	386	775	4.32	41.8	1010	2950	655	دا	
MW-84	03/31/2009	809	1770	4.84	6.64	1400	3490	561	<0.5	8470
MW-84	09/21/2009	654	2010	4,84	6.32	1560	3780	434	۲,	8380
W-87	04/06/2009		4340	1.52	23.1	2670	4110	255	<0.5	14300
MW-87	09/22/2009	594	4280	f.67.	22.4	2720	4300	270	<1	13000
H			1470	0.733	3.79	1010	1890	201	0.595	2580
W-88 Dup #4	_	392	1500	0.765	2.94	1030	1990	192	<0.5	6500
7	09/23/2009	348	1370	0.814	2.79	973	1800	207	۷1	5380
MW-88 Dup #4	_	324	1370	0.818	2.69	901	1800	212	۲,	5390
MW-89	04/02/2009	536	419	2.31	8.33	188	3190	186	0.55	3040
MW-89	09/17/2009	493	218	3.09	10.7	180	1630	199	<1	3020
MW-90	04/15/2009	283	114	1.31	1.69	311	1640	295	<0.5	3770
W-90	10/01/2009	273	98.9	1.27	1.26	279		603	<0.5	3420
MW-91	04/15/2009	241	48.8	0.625	0.523	51.3	535	713	<0.5	1820
1411										

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

									20101	Signal Chancy Paralleless	Sialalip
			Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	Total Alkalinity	Nitrogen	Total Dissolved Solids
		Units:	mg/l	mg/i	mg/l	mg/l	mg/l	1/gm	l/bm		i i
		Source:	,	WQCC Dom		-	;	WQCC Dom	: :	WOCC HH	-
Location	Dup	Date									
MW-92		04/15/2009	172	401	0.549	0.59	325	310	970	<0.5	2280
MW-92		10/01/2009	137	603	0.871	0.922	446	40	1100	<0.1	2260
W-93		04/15/2009	329	1.09	1.26	4.55	8.06	817	675	<0.5	2000
MW-93		10/01/2009	314	46.7	1.32	2.6	77.5	709	480	<0.5	1920
W-95		04/15/2009	240	261	<0.5	0.446	112	477	699	<0.5	1980
W-95		10/01/2009	216	235	0.657	0.339	112	488	643	<0.5	2060
96-W		04/15/2009	164	248	0.667	0.829	214	308	839	<0.5	1880
96-WW	Onp #8	04/15/2009	166	242	0.63	0.78	214	337	854	<0.5	× 1830
MW-96	9	10/01/2009	178	222	2 5	0.832	251	243	757	0.633	1790
W-96	6# dn∩	10/01/2009	180	027	0./91	0.824	523	242	803	50.5	1770
86-WW		04/15/2009	294	18.3	0.73	<0.4 0.04	67.7	1670	320	300	2860
W-30	I	03/26/2009	L	23.4	*0.5	0.504	, ,	240	210	200	4.00
MIM-99		04/13/2009	9	240	6.5	0.57	200	205	27.4	20.5	1330
W-101		04/15/2009	L	C+7	2.6	0.581	180	229	718	500	1680
MW-101		09/28/2009	196	241	0.847	0.614	147	212	617	40.5 50.5	1440
W-103		03/16/2009	L	919	12	1.15	1050	42.5	1020	Ÿ	2710
MW-103		09/28/2009	13.4	819	11.7	0.92	1010	39.8	1060	<0.5	2700
AW-104		03/16/2009	L	64.8	2.97	5.01	38.3	620	138	·	1780
MW-104		09/28/2009		74.1	2.33	6.69	61.4	730	202	<0.5	1560
MW-106		09/28/2009	416	83.2	0.989	2.46	194	1880	208	0.507	3680
W-107		09/28/2009	161	306	0.918	1.77	68.7	0	730	<0.5	1570
MW-108		10/01/2009	989	120	4.93	6.87	73.9	9/8	593	0.544	2580
NCL-32		04/10/2009	453	204	1.49	5.83	64.8	1130	386	<0.5	2560
CL-32		09/4/2009	ı	130	\$C.2	50.3	40.4	100	067	, 5	0507
21.53		04/10/2009	1	377	77.7	0.4 0.4	94.4	93/	463	507	3040
25.00		04/40/2009	420	00#	6.2	4.0	8	494	004	,	2000
5 2		09/20/2009	230	454	1 28	200	7 5	124	550	3.	1990
1 2 2		04/10/2009	268	171	3.75	105	12/2	120	230	300	0601
14		09/24/2009	249	185	1.4	2 15	502	469	550	Ş	0421
NCI-49		04/08/2009	461	165	¢0.5	0.708	117	1720	260	9 65	3180
CI -49	Disp.#5	04/08/2009		163	<0.5	0.707	135	1720	202	9.29	3710
NCL-49		10/05/2009	443	152	0.561	0.458	123	1630	224	9.33	3790
NP-1		04/08/2009	Ш								
NP-1		09/30/2009									
NP-2		04/08/2009									
NP-2		09/30/2009									
NP.3		04/03/2009	459	327	1.32	4.32	199	2030	277	<0.5	3460
NP-3		10/05/2009	322	242	1.74	2	143	1700	263	0.838	3330
٠ <u>٠</u>	Dup #10	10/05/2009	340	243	1.38	1.96	152	1670	278	0.85	3400
P-5		04/08/2009	527	171	2.62	0.441	516	4470	589	<0.5	0269
<u>۲</u>		10/05/2009	418	164	2.7	0.212	413	3980	258	5.75	0699
9-6		04/08/2009	577	6718	1.93	323	416	2640	313	36.4	5180
9		10/05/2009	200	780	2.22	2.71	373	2770	278	41.9	0999
6-6		04/10/2009	208	403	2.7	1.59	215	2180	451	<0.5	4420
6-4N		09/24/2009	225	420	2.72	1.36	207	2270	460	⊽	4740
0CD-1R		09/21/2009	- [2410	5.46	5.36	1200	2340	222	Ţ	8560
20-12		04/01/2009		S 27.70	5.26	5.21	1220	2220	172	Ç02	222

Table 1

2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

2009 Groundwater Monitoring Program Analytical Results Table 1

Navajo Refinery, Artesia, New Mexico

Explanation of data presentation

Analyte not detected at Method Quantitation Limit shown. Reported value exceeds the CGWSL

Anaylte not analyzed for this sample.

Abbreviations:

CGWSL = Critical Groundwater Screening Level DRO = Diesel Range Organics

GRO = Gasoline Range Organics

mg/L = Milligrams per liter TPH = Total Petroleum Hydrocarbons ug/L = Micrograms per liter

Groundwater Screening Level Sources:

" \cdots " = No standard available MC = Maximum Contaminant Level from the National Primary Drinking Water Standards

NMED TPH = New Mexico Environment Department Total Petroleum Hydrocarbon Standards, October 2006

NMED TW = New Mexico Environment Department Tap Water Standard, December 2009 (from Soil Screening Level guidance document)

WQCC HH = Water Quality Control Commission; human health standard for groundwater from NMAC 20.6.2.3103.A

WQCC Dom = Water Quality Control Commission; domestic water supply standard for groundwater from NMAC 20.6.2.3103.B

WQCC Irr = Water Quality Control Commission; irrigtaion use standard for groundwater from NMAC 20.6.2.3103.C

Heirarchy of selecting the CGWSL is as follows:

Lowest of either NMED GW Standards (20.6.2.3103) or EPA MCL was selected.
 If no NMED GW Standard or EPA MCL available, then NMED Tap Water value from SSG Table A-1, if available.
 NMED TPH screening for "unknown oil" used for both DRO range TPH.

600 Summary of Field Observations 20 Navajo Refinery, Artesia, New Mexico Table 2

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iry of Field C	4. A
ary of Field C	A. A
nary of Field C	4. A
mary of Field C	4. V
nmary of Field Observations	A. A

Date Measured Top of Casing Elevation (it amis) Screened Interval (it amis) 3/25/2009 3351.87 18 to 32 3/25/2009 3351.87 18 to 32 3/25/2009 3351.87 18 to 32 3/25/2009 3351.66 18 to 32 3/25/2009 3351.66 18 to 32 3/25/2009 3351.59 30.5 to 49.5 3/25/2009 3354.31 30.5 to 49.5 8/15/2009 3354.31 30.5 to 49.5 8/15/2009 3354.31 30.5 to 49.5 8/15/2009 3356.30 24.7 to 38.7 8/15/2009 3368.30 24.7 to 38.7 8/15/2009 3368.30 24.7 to 38.7 8/15/2009 3358.71 17.5 to 36.5 8/15/2009 336.30 24.7 to 38.7 8/15/2009 3368.30 24.7 to 38.7 8/16/2009 336.30 24.7 to 38.7 8/16/2009 336.30 24.7 to 38.7 8/16/2009 336.30 24.7 to 38.7 8/16/2009 336.44.14 18 to 32 <		Depth to			Groundwater					7	00	4
A 3/25/2009 335/187 18 to 3 A 9/15/2009 335/187 18 to 3 B 3/25/2009 335/187 18 to 3 B 3/25/2009 335/166 18 to 3 B 9/15/2009 335/169 18 to 3 C 9/15/2009 335/169 30.5 to 4 C 9/15/2009 335/131 20 to 3 AR 3/25/2009 335/131 20 to 3 AR 3/25/2009 335/131 20 to 3 AR 3/25/2009 335/14 17.5 to 3 9/15/2009 335/14 17.5 to 3 9/15/2009 335/14 17.5 to 3 9/15/2009 335/14 18 to 3 9/15/2009 335/14 18 to 3 9/15/2009 335/14 18 to 3 9/15/2009 335/14 18 to 3 9/15/2009 335/207 24 to 5 9/16/2009 335/207 20 to 3 9/16/2009 335/207 35/200 30 to 3		_	Depth Thi (ft btoc)	Thickness (ft)	Elevation (ft ams!)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	su)	(mg/L)	ORP (mV)
A 91/15/2009 3351.87 18 to 3 3 3/25/2009 3351.66 18 to 3 3 3/25/2009 3351.66 18 to 3 5 3/15/2009 3351.69 18 to 3 6 3/25/2009 3351.59 30.5 to 4 8 3/25/2009 3354.31 30.5 to 4 8 3/25/2009 3354.31 20 to 3 8 3/25/2009 3354.31 20 to 3 9/15/2009 3354.31 20 to 3 3/25/2009 3354.31 17.5 to 3 3/25/2009 3356.77 17.5 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3344.14 18 to 3 3/25/2009 3348.59 24.7 to 3 3/25/2009 3348.59 20 to 3 3/25/2009 3355.07 20 to 3 3/25/2009 3355.07 35.5 to 4 3/25/2009 3346.88 50 to 3 4 3/25/2009 3346.88 50 to 3 5		14.04	34.06	0.00	3337.83	4/7/2009	SP	0.436	17.580	6.980	2.260	9-
3 3/25/2009 3351.06 18 to 3 3 1/25/2009 3351.06 18 to 3 3 1/25/2009 3351.59 30.5 to 4 3 1/25/2009 3351.59 30.5 to 4 3 1/25/2009 3354.31 AR 3/25/2009 3354.31 AR 3/25/2009 3354.31 AR 3/25/2009 3354.31 AR 3/25/2009 3368.33 20 to 3 3/25/2009 3368.33 20 to 3 3/25/2009 3368.33 20 to 3 3/25/2009 3368.30 20 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.70 17.5 to 3 3/25/2009 3358.70 20 to 3 3/25/2009 3356.07 20 to 3 3/25/2009 3356.07 20 to 3 3/25/2009 3356.07 20 to 3 3/25/2009 3356.07 35.5 to 4 3/25/2009 3346.88 50 to 3 4 3/25/2009 3346.88 50 to 3 4 3/25/2009 3346.88 50 to 3 4 3/25/2009 3346.88 50 to 3 4 3/25/2009 3349.65 15.5 to 2 8 3/25/2009 3349.65 15.5 to 3 8 3/25/2009 3356.84 15.5 to 2 25.5 to 3 3/25/2009 3356.84 15.5 to 3 25.5 to 3 3/25/2009 3356.84 15.5 to 3 25.5 to 3 3/25/2009 3356.84 15.5 to 3 25		14.20	33.8	0.00	3337.67	9/29/2009	SP	3.900	23.580	8.110	4.270	-160
3 9/15/2009 3351.06 18 to 3 3 3/25/2009 3351.59 30.5 to 4 3 3/25/2009 3351.59 30.5 to 4 3 3/25/2009 3354.31 30.5 to 4 3 3/25/2009 3354.31 30.5 to 4 3 3/25/2009 3354.31 20 to 3 3 3/27/2009 3354.31 20 to 3 3 3/27/2009 3356.33 20 to 3 3/27/2009 3368.33 20 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3344.14 18 to 3 3/25/2009 3348.59 7 3/25/2009 3348.50 7 3/25/2009 3355.07 20 to 3 3/25/2009 3355.07 20 to 3 3/25/2009 3346.88 50 to 3 4 3/25/2009 3346.88 50 to 3 5 3/25/2009 3346.88 50 to 3 6		15.18	33.99	0.00				not sampled	not sampled - measurements only	Ιλ		
2. 3/25/2009 3351.59 30.5 to 4 3/25/2009 3354.31 2. 3/25/2009 3354.31 2. 3/25/2009 3354.31 2. 3/25/2009 3354.31 2. 3/25/2009 3354.20 2. 3/25/2009 3368.33 20 to 3 3/25/2009 3368.33 20 to 3 3/25/2009 3368.33 20 to 3 3/25/2009 3368.30 20 to 3 3/25/2009 3368.30 20 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.71 17.5 to 3 3/25/2009 3358.07 17.5 to 3 3/25/2009 3358.07 17.5 to 3 3/25/2009 3356.07 20 to 3 3/25/2009 3355.07 20 to 3 3/25/2009 3355.07 20 to 3 3/25/2009 3355.07 20 to 3 3/25/2009 3355.07 35.5 to 4 3/25/2009 3346.88 50 to 68 8 4 3/25/2009 3346.88 50 to 68 8 4 3/25/2009 3346.88 50 to 68 8 9 16,2009 3366.84 8 50 to 68 50 to 68 8 8 50 to 68 8 8 50 to 68 8 9 16,2009 3366.84 8 50 to 68 50 to 68 8 9 16,2009 3366.84 8 50 to 68 50 to 68 8 9 16,2009 3366.84 8 50 to 68 50 to 68 8 9 16,2009 3366.84 8 50 to 68 50 to 68 9 16,2009 3366.84 8 50 to 68 50 to 68 9 16,2009 3366.84 8 50 to 68 50 to 68 9 16,2009 3366.84 8 50 to 68 50 to 68 9 16,2009 3366.84 8 50 to 68 50 to 68 9 16,2009 3366.84 8 50 to 68 50 to 68 9 16,2009 30 to 30		15.55	34	0.00				not sampled	not sampled - measurements only	ly.		
2 9/15/2009 3351.59 30.5 to 4 3 325/2009 3354.31 30.5 to 4 AR 9/16/2009 3354.31 20 to 3 AR 3/15/2009 3345.20 20 to 3 3 3/27/2009 3345.20 24.7 to 3 9/15/2009 3368.33 20 to 3 32.7 to 3 9/15/2009 3368.33 20 to 3 34.7 to 3 9/15/2009 3368.33 20 to 3 34.7 to 3 9/15/2009 3368.71 17.5 to 3 34.7 to 3 9/16/2009 3358.71 17.5 to 3 34.4 to 1 18 to 3 9/16/2009 3348.59 20 to 3 34.4 to 1 18 to 3 9/16/2009 3348.59 20 to 3 34.5 to 4 9/16/2009 3355.07 35.5 to 4 34.5 to 4 9/16/2009 3346.88 50 to 3 30 to 3 A 3/16/2009 3346.88 50 to 3 A 3/16/2009 3346.88 50 to 3 A 3/16/2009 3346		15.78	52.77	00:00	3335.81	4/7/2009	SP	0.432	17.870	7.000	1.420	15
R 32552009 3354,31 RR 312512009 3354,31 RR 312512009 3354,20 RR 312512009 3345,20 RR 312512009 3345,20 RR 312512009 3368,33 RR 312512009 3368,33 RR 312512009 3368,33 RR 312512009 3368,30 RR 312512009 3368,71 RR 312512009 3358,71 RR 312512009 3358,71 RR 312512009 3358,71 RR 312512009 3358,71 RR 312512009 3356,07 RR 312512009 3356,07 RR 312512009 3346,69 RR 312512009 3346,68 RR 312512009 3346,68 RR 312512009 3346,68 RR 312512009 3346,68 RR 312512009 3346,68 RR 312512009 3346,68 RR 312512009 3349,65 RR 312512009 3349,65 RR 312512009 3349,65 RR 312512009 3349,65 RR 312512009 3349,65 RR 312512009 3349,65 RR 312512009 3356,07 RR 312512009 3356,07 RR 312512009 3356,07 RR 312512009 3356,07 RR 312512009 3356,07 RR 312512009 3356,07 RR 312512009 3356,07 RR 312512009 3356,07 RR 312512009 3356,08	1	16.15	52.75	0.00	3335.44	9/29/2009	SP	3.820	21.370	7.990	4.210	-169
R 9/16/2009 3354.31 AR 3/25/2009 3345.20 AR 9/16/2009 3345.20 3/27/2009 3368.33 20 to 3 9/15/2009 3368.33 20 to 3 9/15/2009 3368.33 20 to 3 9/15/2009 3368.33 20 to 3 9/15/2009 3368.33 20 to 3 9/15/2009 3368.33 24.7 to 3 9/15/2009 3368.71 17.5 to 3 9/16/2009 3344.14 18 to 3 9/16/2009 3348.59 7 9/16/2009 3348.59 7 9/16/2009 3346.67 20 to 3 9/16/2009 3355.07 35.5 to 4 9/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 3 A 9/16/2009 334		24.85	39.87	1.33	3330.62			not samp	not sampled - product in well			
AR 3/25/2009 3345.20 AR 9/16/2009 3345.20 3/27/2009 3368.33 20 to 3 3/27/2009 3368.33 20 to 3 9/15/2009 3368.33 20 to 3 3/25/2009 3363.02 24.7 to 3 9/15/2009 3358.71 17.5 to 3 9/15/2009 3358.71 17.5 to 3 9/16/2009 3344.14 18 to 3 9/16/2009 3348.59 7 9/16/2009 3348.50 20 to 3 9/16/2009 3355.07 20 to 3 9/16/2009 3355.07 35.5 to 4 9/16/2009 3355.07 35.5 to 4 9/16/2009 3356.07 35.5 to 4 9/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 68 A 9/16/2009 3346.88 50 to 68 A 9/16/2009 3346.88 50 to 65 A 9/16/2009		19.40	39.91	0.01	3334.92				SP			
AR 91/6/2009 3345.20 3/27/2009 3368.33 20 to 3 9/15/2009 3368.33 20 to 3 9/15/2009 3363.02 24.7 to 3 9/15/2009 3363.02 24.7 to 3 9/15/2009 3358.71 17.5 to 3 9/15/2009 3358.71 17.5 to 3 9/16/2009 3344.14 18 to 3 9/16/2009 3348.59 7 9/16/2009 3348.59 7 9/16/2009 3348.50 20 to 3 9/16/2009 3355.07 35.5 to 4 9/16/2009 3346.69 30 to 3 A 9/16/2009 3346.09 30 to 3 B 3/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 3 B 3/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 68 A 3/16/2009 3346.88 50 to 68 </td <td></td> <td>23.50</td> <td>33.7</td> <td>0.00</td> <td>3321.70</td> <td>4/9/2009</td> <td>SP</td> <td>0.570</td> <td>17.740</td> <td>7.140</td> <td>8.100</td> <td>180</td>		23.50	33.7	0.00	3321.70	4/9/2009	SP	0.570	17.740	7.140	8.100	180
3/2/2009 3368.33 20 to 3 9/15/2009 3368.33 20 to 3 9/15/2009 3363.02 24.7 to 3 3/25/2009 3363.02 24.7 to 3 9/15/2009 3358.71 17.5 to 3 9/15/2009 3358.71 17.5 to 3 9/16/2009 3344.14 18 to 3 9/16/2009 3344.14 18 to 3 9/16/2009 3348.59 7 9/16/2009 3348.59 7 9/16/2009 335.67 20 to 3 9/16/2009 335.07 20 to 3 9/16/2009 335.07 20 to 3 9/16/2009 335.07 20 to 3 9/16/2009 3346.88 50 to 3 8 3/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 3 A 9/16/2009 3346.88 50 to 68 A 9/16/2009 3346.88 50 to 65 A 9/16/2009 3346.88 50 to 65 A		18.78	33.66	0.00	3326.42	9/29/2009	SP	5.410	22.760	7,420	9.540	-20
9115/2009 3368.33 20 to 3 3255/2009 3363.02 24.7 to 3 3125/2009 3363.02 24.7 to 3 3125/2009 3358.71 17.5 to 3 3125/2009 3358.71 17.5 to 3 3125/2009 3344.14 18 to 3 3125/2009 3344.14 18 to 3 3125/2009 3348.59 18 to 3 3125/2009 3348.59 20 to 3 3125/2009 335.67 20 to 3 3125/2009 335.67 20 to 3 3125/2009 335.60 30 to 38 A 325/2009 3346.88 50 to 38 B 3125/2009 3346.88 50 to 38 A 3125/2009 3346.88 50 to 38 A 3125/2009 3346.88 50 to 38 A 3125/2009 3346.88 50 to 38 A 3125/2009 3346.88 50 to 38 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 3346.88 50 to 68 B 3125/2009 335.5 to 3	_	29.25	40.74	4.04	3342.59			not samp	not sampled - product in well			
3/25/2009 3363.02 24.7 to 3 9/15/2009 3363.02 24.7 to 3 3/25/2009 3358.71 17.5 to 3 9/15/2009 3358.71 17.5 to 3 9/15/2009 3344.14 18 to 3 9/16/2009 3344.14 18 to 3 9/16/2009 3346.59 17.5 to 3 9/16/2009 3348.59 18 to 3 9/16/2009 3348.59 20 to 3 9/16/2009 335.67 20 to 3 9/16/2009 3355.07 20 to 3 9/16/2009 335.07 35.5 to 4 9/16/2009 3346.09 30 to 35 A 9/16/2009 3346.09 30 to 35 B 3/16/2009 3346.88 50 to 65 B 9/16/2009 3346.88 50 to 65 A 3/16/2009 3346.88 50 to 65 A 3/16/2009 3346.88 50 to 65 B 3/16/2009 3346.88 50 to 65 B 3/16/2009 3349.65 <		25.47	40.74	2.54	3345.07			not samp	not sampled - product in well			
9/15/2009 3363.02 24.7 to 3 3/25/2009 3358.71 17.5 to 3 9/15/2009 3358.71 17.5 to 3 9/16/2009 3344.14 18 to 3 3/25/2009 3344.14 18 to 3 9/16/2009 3348.59 16 to 3 9/16/2009 3348.59 20 to 3 9/16/2009 335.67 20 to 3 9/16/2009 3355.07 20 to 3 9/16/2009 3355.07 35.5 to 4 9/16/2009 3346.09 30 to 35 A 9/16/2009 3346.09 30 to 35 B 3/16/2009 3346.88 50 to 6 B 3/16/2009 3346.88 50 to 6 B 9/16/2009 3346.88 50 to 6 A 3/16/2009 3346.88 50 to 6 A 9/16/2009 3346.88 50 to 6 B 9/16/2009 3349.65 15.5 to 5 B 9/16/2009 - 25.5 to 5 B 9/16/2009		24.92	37.7	0.14	3338.22			not samp	sampled - product in well			
3/25/2009 3358.71 17.5 to 3 9/15/2009 3358.71 17.5 to 3 3/25/2009 3344.14 18 to 3 3/25/2009 3344.14 18 to 3 3/25/2009 3348.59 18 to 3 3/25/2009 3352.67 20 to 3 3/25/2009 3352.67 20 to 3 3/25/2009 3355.07 20 to 3 3/25/2009 3355.07 35.5 to 4 3/25/2009 3346.09 30 to 35 A 3/25/2009 3346.09 30 to 35 B 3/25/2009 3346.88 50 to 63 B 3/25/2009 3346.88 50 to 65 BA 3/16/2009 3346.88 50 to 65 BA 3/16/2009 3346.88 50 to 65 BA 3/16/2009 3349.65 15.5 to 2 BA 3/16/2009 25.5 to 3 BA 3/16/2009 25.5 to 3 BA 3/16/2009 25.5 to 5 BA <		22.73	37.55	0.59	3340.80			not samp	not sampled - product in well			
9/15/2009 3358.71 17.5 to 3 3/25/2009 3344.14 18 to 3 9/16/2009 3344.14 18 to 3 3/25/2009 3348.59 9/16/2009 3348.59 3/25/2009 3352.67 20 to 3 3/25/2009 3352.67 20 to 3 3/25/2009 3355.07 35.5 to 4 3/25/2009 3355.07 35.5 to 4 3/25/2009 3346.09 30 to 38 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3346.88 50 to 68 B 3/25/2009 3356.84 55 to 3		25.87	36.41	3.15	3335.58			not samp	not sampled - product in well			
3725/2009 3344.14 18 to 3 9/16/2009 3348.59 16 to 3 3/25/2009 3348.59 20 to 3 9/16/2009 3352.67 20 to 3 9/16/2009 3352.67 20 to 3 9/16/2009 3355.07 35.5 to 4 9/16/2009 3355.07 35.5 to 4 9/16/2009 3356.07 35.5 to 4 9/16/2009 3346.09 30 to 35 9/16/2009 3346.09 30 to 35 9/16/2009 3346.88 50 to 65 9/16/2009 3346.88 50 to 65 9/16/2009 3349.65 15.5 to 2 9/16/2009 3349.65 15.5 to 2 9/16/2009 3366.84 55.5 to 3		18.91	36.27	0.02	3339.82			not samp	not sampled - product in well			
9/16/2009 3344.14 18 to 3 3/25/2009 3348.59 16 to 3 9/16/2009 3348.59 20 to 3 3/25/2009 3352.67 20 to 3 9/16/2009 3355.07 35.5 to 4 9/16/2009 3355.07 35.5 to 4 9/16/2009 3356.07 35.5 to 4 3/25/2009 3346.09 30 to 35 9/16/2009 3346.09 30 to 35 9/16/2009 3346.88 50 to 65 9/16/2009 3346.89 50 to 65 9/16/2009 3349.65 15.5 to 2 9/16/2009 3349.65 15.5 to 2 3/16/2009 3366.84 55.5 to 3		23.95	34.85	0.00	3320.19	4/7/2009	SP	0.421	17.810	6.940	2.910	100
3125/2009 3348.59 9116/2009 3348.59 9176/2009 3352.67 20 to 3 9176/2009 3352.67 20 to 3 9176/2009 3355.07 35.5 to 4 9176/2009 3356.07 35.5 to 4 9176/2009 3346.09 30 to 35 9176/2009 3346.09 30 to 35 9176/2009 3346.88 50 to 65 9176/2009 3346.88 50 to 65 9176/2009 3349.65 15.5 to 2 9176/2009 3349.65 15.5 to 2 9176/2009 3349.65 15.5 to 2 325/2009 3366.84 25.5 to 3	1	17.90	34.84	0.00	3326.24	10/5/2009	SP	4.210	19.740	6.720	0.180	106
9/16/2009 3348.59 20 to 3 3/25/2009 3352.67 20 to 3 3/25/2009 3355.07 35.5 to 4 9/16/2009 3346.09 30 to 33 9/16/2009 3346.09 30 to 33 9/16/2009 3346.88 50 to 66 9/16/2009 3346.88 50 to 66 9/16/2009 3349.65 15.5 to 2 9/16/2009 3349.65 15.5 to 3 3/25/2009 3349.65 15.5 to 3 3/25/2009 3349.65 15.5 to 3 3/25/2009 3349.65 15.5 to 2 9/16/2009 336.684 25.5 to 3	red - Pump in Place	6						not samp	not sampled - product in well			
325/2009 3352.67 20 to 34 9/16/2009 3352.67 20 to 34 3125/2009 3355.07 35.5 to 49.5 9/16/2009 3346.09 30 to 39.5 9/16/2009 3346.09 30 to 39.5 9/16/2009 3346.88 50 to 69.5 9/16/2009 3346.88 50 to 69.5 9/16/2009 3349.85 15.5 to 24.5 9/16/2009 3349.65 15.5 to 24.5 9/16/2009 3349.65 15.5 to 24.5 9/16/2009 336.64 25.5 to 39.5	red - Pump in Place							not samp	not sampled - product in well			
9/16/2009 3352.67 20 to 34 3/25/2009 3355.07 35.5 to 49.5 9/16/2009 3346.09 30 to 39.5 3/25/2009 3346.09 30 to 39.5 9/16/2009 3346.88 50 to 69.5 9/16/2009 3346.88 50 to 69.5 3/25/2009 3346.88 50 to 69.5 9/16/2009 3349.65 15.5 to 24.5 9/16/2009 3349.65 15.5 to 24.5 9/16/2009 - 25.5 to 39.5 3/25/2009 - 25.5 to 39.5 3/25/2009 - 25.5 to 39.5		28.42	37.51	0.00	3324.25	4/8/2009	SP	0.373	17,920	6.880	2.840	262
3125/2009 3355.07 35.5 to 49.5 9116/2009 3355.07 35.5 to 49.5 3125/2009 3346.09 30 to 39.5 9116/2009 3346.88 50 to 69.5 9116/2009 3346.88 50 to 69.5 9116/2009 3349.65 15.5 to 24.5 9116/2009 3349.65 15.5 to 24.5 9116/2009 - 25.5 to 39.5 3125/2009 - 25.5 to 39.5		21.68	37.48	0.00	3330.99	9/29/2009	SP		Horiba me	Horiba meter broken		
9/16/2009 3355.07 35.5 to 49.5 3/25/2009 3346.09 30 to 39.5 9/16/2009 3346.09 30 to 39.5 3/25/2009 3346.88 50 to 69.5 9/16/2009 3346.88 50 to 69.5 9/16/2009 3349.65 15.5 to 24.5 9/16/2009 3349.65 15.5 to 24.5 9/16/2009 - 25.5 to 39.5 3/25/2009 - 25.5 to 39.5 3/25/2009 - 25.5 to 39.5		18.82	23.58	0.00	3336.25	417/2009	SP	0.196	18.820	7.020	1.860	-46
3/25/2009 3346.09 30 to 39.5 9/16/2009 3346.09 30 to 39.5 3/25/2009 3346.88 50 to 69.5 9/16/2009 3346.88 50 to 69.5 3/25/2009 3349.65 15.5 to 24.5 9/16/2009 3349.65 15.5 to 24.5 3/25/2009 3349.65 15.5 to 24.5 9/16/2009 - 25.5 to 39.5 3/25/2009 - 25.5 to 39.5	1	17.39	49	0.00	3337.68	9/29/2009	SP		not sampled -	not sampled - broken casing		
9/16/2009 3346.09 30 to 39.5 3/25/2009 3346.88 50 to 69.5 9/16/2009 3349.65 15.5 to 24.5 9/16/2009 3349.65 15.5 to 24.5 3/25/2009 3349.65 15.5 to 24.5 9/16/2009 3349.65 15.5 to 24.5 3/25/2009 - 25.5 to 39.5 3/25/2009 3366.84 25.5 to 39.5		24.88	42.25	0.00	3321.21	4/7/2009	SP	0.505	17.650	6.840	2.550	152
3/25/2009 3346.88 50 to 69.5 9/16/2009 3346.88 50 to 69.5 3/25/2009 3349.65 15.5 to 24.5 9/16/2009 3349.65 15.5 to 24.5 3/25/2009 - 25.5 to 39.5 9/16/2009 - 25.5 to 39.5 3/25/2009 - 25.5 to 39.5		18.19	42.24	0.00	3327.90	10/5/2009	SP	5.030	20.490	6.570	0.980	108
9/16/2009 3346.88 50 to 69.5 3/25/2009 3349.65 15.5 to 24.5 9/16/2009 25.5 to 39.5 9/16/2009 25.5 to 39.5 3/25/2009 25.5 to 39.5 3/25/2009 25.5 to 39.5		25.57	72.43	0.00	3321.31			not sampled	not sampled - measurements only	ήχ		
325/2009 3349.65 15.5 to 24.5 9/16/2009 25.5 to 39.5 9/16/2009 25.5 to 39.5 3/25/2009 3366.84 25.5 to 39.5		18.99	72.4	00.00	3327.89			not sampled	not sampled - measurements only	ły		
9/16/2009 3349.65 15.5 to 24.5 3/25/2009 25.5 to 39.5 9/16/2009 25.5 to 39.5 3/25/2009 3366.84		DRY	25.11	0.00	DRY			not sam	not sampled - well was dry			
B 3725/2009 25.5 to 39.5 B 9/16/2009 25.5 to 39.5 3325/2009 3366.84		19.74	25.07	0.00	3329.91	9/29/2009	SP		Horiba me	Horiba meter broken		
B 9/16/2009 25.5 to 39.5 3/25/2009 3366.84		26.95	39.41	0.00				not sampled	not sampled - measurements only	liy .		
3/25/2009		19.51	39.43	0.00				not sampled	not sampled - measurements only	ίly		
	2	26.80	33.25	0.00	3340.04	4/13/2009	SP	0.414	17.420	7.180	2.430	68
KWB #13 9/14/2009 3366.84		21.30	33.16	0.00	3345.54	9/29/2009	SP	3.540	21.170	7.630	10.400	-90
KWB #P2 3/26/2009 3337.28		29.49	33.65	0.00	3307.79	4/9/2009	SP	0.642	18.810	7.120	5.390	195
KWB #P2 9/15/2009 3337.28		30.91	33.62	0.00	3306.37	9/29/2009			not sampled	not sampled - well was dry		
KWB #P3 3/26/2009		8.83	29.14	0.00				not sampled	not sampled - measurements only	lly		
KWB #P3 9/15/2009		9.40	29.13	00.0				not sampled	not sampled - measurements only	ıly		

Table 2 Summary of Field Observations 2009 Navajo Refinery, Artesia, New Mexico

Sampling Conductivity Temperature (°C) pH (°C) (SU) (BU)															_	
10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	WellID	Date Measured	lop of Casing Elevation (ft amsi)	Screened Interval	Product (ft btoc)	Vepun to Water (ft btoc)	Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	hd (SU)	00 (mg/L)	ORP (mV)
1	KWB #P4	3/26/2009	-		1	6.27	30.95	00.0				not sampled	- measurements on	γl		
Mail	KWB #P4	9/15/2009	1		_	5.09	30.14	00.00				not sampled	- measurements on	ly		
No. No.	KWB #P5	3/26/2009	1		Not locatable (in !	nighway right of	way, covered									
1	KWB #P5				Destroyed											
1	La Rue Well			Not m	easured - domesi	ic well				4/16/2009	SP	0.324	16.770	7.920	11.640	22
14.00 1.	La Rue Well			Not m	easured - domesi	ic well				9/30/2009	SP		No Meas	urements		
10,000,000 1,000,000 1,0	MW#1R	3/25/2009	3311.93			9.15	20.9	0.00	3302.78	4/2/2009	F.	0.872	18.590	7.470	3.260	-122
3762000 3109 62 10 10 10 10 10 10 10 1	MW#1R	9/15/2009	3311.93		**	9.47	20.8	0.00	3302.46	9/23/2009	H	8.370	22.860	8.350	5.580	296
12,000 1,0	MW#2A	3/25/2009	3309.82			8.41	17.31	00.00	3301.41	4/1/2009	F	1.510	16.580	7.390	4.010	-53
17.20 17.	MW#2A									4/2/2009	L,	1.700	17.170	7.350	2.930	-110
3475009	MW#2A	9/14/2009	3309.82			8.86	17.28	0.00	3300.96	9/21/2009	LF	11.300	25.230	7.210	1.780	-105
91/42/2009 33006.42	MW #2B	3/25/2009			_	9.75	51.99	0.00				not sampled	- measurements on	ły		
300,000 3308,42 9.23 0.00 3299,72 41,0009 LF 0.670 18,080 7340 73	MW #2B	9/14/2009	1			10.38	24.98	0.00				not sampled	- measurements on	ly		
91000 330842 - 9 20 2032 0.00 329872 96717009 LF 6610 24,500 7,00 9142000 330969 - 11,89 2227 0.00 329670 LF 6,00 18,590 77.40 9442000 330969 - 11,89 2227 0.00 329670 LF 6,00 73,40 77.40 9442000 330969 - - 11,19 7227 0.00 329670 LF 6,00 73,40 77.40 9442009 330727 - 11,19 7228 0.00 329849 LF 6,00 73,50 73.50 9442009 330727 - 11,19 7228 0.00 329849 LF 6,00 73,50 73.50 9442009 330727 - 11,19 72,23 0.00 329849 LF 6,00 73,50 73.50 9442009 3306.4 41,51,606 - 7 7,5	MW#3	3/25/2009	3308.42			8.28	20.34	0.00	3300.14	4/1/2009	LF	0.670	18.260	7.340	4.840	-33
3205000 3309 69 10 10 10 10 10 10 10 1	MW#3	9/14/2009	3308.42			9.20	20.32	0.00	3299.22	9/21/2009	LF	6.610	24.500	7.090	1.950	-112
310,000 330,000 1.	MW #4A	3/26/2009	3309.69			10.94	22.38	0.00	3298.75	4/6/2009	J.	0.100	18.950	7.740	6.380	165
3262009 — 1019 72.28 0.00 Anotampled - measurements only and transpled - measurements only all transpl	MW#4A	9/14/2009	3309.69		-	11.89	22.27	0.00	3297.80	9/23/2009	H	008'9	23.940	9.510	5.330	224
91442009	MW #4B	3/26/2009	-		~	10.19	72.28	0.00				not sampled	- measurements on	ly		
3126,000 3307,27 1.0 1	MW#4B	9/14/2009			1	11.09	72.23	0.00				not sampled	- measurements on	λį		
330	MW #5A	3/26/2009	3307.27			7.98	20.08	00.00	3299.29	4/2/2009	LF	1.700	17.170	7.350	2.930	-110
3766 2009 3306 18 415 to 56.5 - 7.73 55.31 0.00 Processor of the control o	MW #5A	9/14/2009	3307.27		1	8.80	20.15	0.00	3298.47	9/22/2009	LF	8.680	22.000	5.390	3.070	-117
9/14/2009 3306.18 415 to 50.5 - 6.68 53.36 0.00 - not sampled - measurements only and sampled -	MW #5B	3/26/2009	3306.18	41.5 to 50.5	:	7.73	53.31	0.00				not sampled	- measurements on	ly		
3726/2009 3306.54 59.25 to 68.75 - 7.80 71.51 0.00 3299.29 H172009 LF not sampled - measurements only and sampled - measureme	MW #5B	9/14/2009	3306.18	41.5 to 50.5		8.68	53.38	0.00				not sampled	- measurements on	ly.		
91/4/2009 3306.54 59.25 to 68.75 - 6.80 71.79 0.00 3299.29 4/1/2009 LF 0.551 19.210 7.790 91/4/2009 3310.67 - 11.38 19.04 0.00 3299.29 4/1/2009 LF 0.551 19.210 7.790 91/4/2009 3310.67 - 11.24 19.1 0.00 3298.43 9/1/2009 LF 0.551 19.210 7.790 31/25/2009 - 11.15 52.28 0.00 3298.43 9/1/21/2009 LF 0.551 10.00 7.690 P 0.550 23.270 7.640 7.690 7.690 P 0.600 7.790 P 0.600 0.00 0.221009 LF 0.180 0.740 P 0.600 7.500 P 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 0.600 </th <th>MW #5C</th> <th>3/26/2009</th> <th>3306.54</th> <th>59.25 to 68.75</th> <th>,</th> <th>7.80</th> <th>71.51</th> <th>0.00</th> <th></th> <th></th> <th></th> <th>not sampled</th> <th>- measurements on</th> <th>γĺ</th> <th></th> <th></th>	MW #5C	3/26/2009	3306.54	59.25 to 68.75	,	7.80	71.51	0.00				not sampled	- measurements on	γĺ		
3725/2009 3310.67 11.38 19.94 0.00 3299.29 411/2009 LF 0.551 19.21 7.790 9/14/2009 3310.67 11.15 52.28 0.00 3298.43 9/21/2009 LF 5.650 23.70 7.640 3/25/2009 11.15 52.28 0.00 3298.43 9/21/2009 LF 5.650 23.70 7.640 9/14/2009 11.15 52.28 0.00 3298.31 4/22009 LF 11.80 18.100 7.550 9/14/2009 6.84 17.31 0.00 3298.60 9/22/2009 LF 11.80 18.100 7.550 9/15/2009 8.14 5.25 0.00 3298.60 9/22/2009 LF 5.410 23.230 5.740 9/15/2009 8.14 5.25 0.00 3298.60 9/22/2009 LF 5.410 7.55 9/15/2009 8.84 52.53 <th>MW #5C</th> <th>9/14/2009</th> <th>3306.54</th> <th>59,25 to 68.75</th> <th></th> <th>8.80</th> <th>71.79</th> <th>0.00</th> <th></th> <th></th> <th></th> <th>not sampled</th> <th>- measurements on</th> <th>λ</th> <th></th> <th></th>	MW #5C	9/14/2009	3306.54	59,25 to 68.75		8.80	71.79	0.00				not sampled	- measurements on	λ		
9/14/2009 3310,67 12.24 19.1 0.00 3298,43 9/21/2009 LF 5,650 23.270 7.640 3/25/2009 11.15 52.28 0.00 3298,43 9/21/2009 LF not sampled - measurements only resonancements only reso	MW #6A	3/25/2009	3310.67		,	11.38	19.04	00.00	3299.29	4/1/2009	F	0.551	19.210	7.790	3.000	-126
3/25/2009 - 11.15 52.28 0.00 3296.31 not sampled - measurements only assurements only	MW #6A	9/14/2009	3310.67		:]	12.24	19.1	0.00	3298.43	9/21/2009	LF	5.650	23.270	7.640	1.750	-168
9/14/2009 - 11.96 52.33 0.00 3296.31 4/22009 LF 1.180 18.100 7.550 9/15/2009 3306.15 - 6.84 17.31 0.00 3298.60 9/22/2009 LF 1.180 18.100 7.550 9/15/2009 - 6.84 17.31 0.00 3298.60 9/22/2009 LF 5.410 23.230 5.740 3/25/2009 - 8.14 6.258 0.00 3298.60 9/22/2009 LF 5.410 23.230 5.740 9/15/2009 - 8.14 6.258 0.00 3229.60 LF 5.410 7.50 7.50 9/15/2009 - 8.84 5.253 0.00 3323.74 4/3/2009 LF 0.537 17.830 7.260 9/15/2009 335,200 335,14 10/5/2009 1.5 0.00 3323.47 10/5/2009 LF 0.537 17.830 7.050 9/15/2009 335,20 0.00 3320.0	MW #6B	3/25/2009	ļ		ı	11.15	52.28	0.00				not sampled	- measurements on	λĺ		
3/25/2009 3306.15	MW #6B	9/14/2009	-		1:	11.96	52.33	0.00				not sampled	- measurements on	λì		
915/2009 3306.15 7.55 17.31 0.00 3298.60 JP2/2009 LF 5.410 23.230 5.740 3/25/2009 - 8.14 62.58 0.00 - mot sampled - measurements only assurements only	MW #7A	3/25/2009	3306.15		-	6.84	17.31	00.00	3299.31	4/2/2009	ΙΉ	1.180	18.100	7.550	2.540	-121
3/25/2009 — 8.14 62.58 0.00 — not sampled - measurements only analysis only and a sampled - measurements only analysis only analy	MW#7A	9/15/2009	3306.15		;	7.55	17.31	00:00	3298.60	9/22/2009	LF.	5.410	23.230	5.740	3.220	-119
3 4/5/2009 3335.31 - 8.84 52.53 0.00 3323.74 4/3/2009 LF 0.537 17.830 7.260 9/15/2009 3335.31 - 11.87 20.31 0.00 3323.74 4/3/2009 LF 0.537 17.830 7.260 9/15/2009 3335.31 - 11.84 20.33 0.00 3323.47 10/5/2009 LF 5.700 20.320 7.050 3/25/2009 3335.18 - 15.16 21.8 0.00 3322.58 10/5/2009 LF 0.631 18.660 7.080 9/15/2009 3335.18 - 12.60 20.18 0.00 3322.58 10/5/2009 LF 6.180 22.440 6.930	MW #7B	3/25/2009	ı		1	8.14	52.58	0.00				not sampled	- measurements on	λį		
3/25/2009 335.31 - 11.57 20.31 0.00 3323.74 4/3/2009 LF 0.537 17.830 7.260 9/15/2009 335.31 - 11.84 20.33 0.00 3323.47 10/5/2009 LF 5.700 20.320 7.050 3/25/2009 335.18 - 15.16 21.8 0.00 3322.58 10/5/2009 LF 0.631 18.660 7.080 9/15/2009 335.18 - 12.60 20.18 0.00 3322.58 10/5/2009 LF 6.180 22.440 6.930	MW #7B	9/15/2009	1		l	8.84	52.53	00:00				not sampled	- measurements on	ly.		
9/15/2009 3335.31 - 11.84 20.33 0.00 3323.47 10/15/2009 LF 5.700 20.320 7.050 3/25/2009 3335.18 - 15.16 21.8 0.00 3322.58 4/3/2009 LF 0.631 18.660 7.080 9/15/2009 3335.18 - 12.60 20.18 0.00 3322.58 10/5/2009 LF 6.180 22.440 6.930	WW#8	3/25/2009	3335.31		1	11.57	20.31	00.00	3323.74	4/3/2009	LF	0.537	17.830	7.260	2.980	109
3/25/2009 3335.18 15.16 21.8 0.00 3320.02 4/3/2009 LF 0.631 18.660 7.080 9/15/2009 3335.18 12.60 20.18 0.00 3322.58 10/5/2009 LF 6.180 22.440 6.930	MW#8	9/15/2009	3335.31		;	11.84	20.33	00.00	3323.47	10/5/2009	7	5.700	20.320	7.050	0.000	75
9/15/2009 3335.18 12.60 20.18 0.00 3322.58 10/5/2009 LF 6.180 22.440 6.930	MW#9	3/25/2009	3335.18		:	15.16	21.8	0.00	3320.02	4/3/2009	Ŧ,	0.631	18.660	7.080	2.820	140
	WW#9	9/15/2009	3335.18			12.60	20.18	0.00	3322.58	10/5/2009	H	6.180	22.440	6.930	0.010	92

Table 2 Summary of Field Observations 2009 Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ff btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	Hd (SV)	DO (mg/L)	ORP (mV)
MW #10	3/25/2009	3310.30		-	4.88	18.59	0.00	3305.42	4/6/2009	Ξ'n	0.100	18.990	7.900	6.580	161
MW#10	9/14/2009	3310.30		-	6.19	18.79	00:00	3304.11	9/23/2009	H.	7.490	21.650	8.010	7.540	353
MW#11A	3/25/2009	3307.46			8.22	21.91	0.00	3299.24	4/2/2009	H.	3.210	17.280	7.240	2.600	95-
MW#11A	9/14/2009	3307.46		-	8.81	21.4	00.00	3298.65	9/22/2009	LF	16.400	24.600	5.440	2.490	-89
MW #11B	3/25/2009	1		1	8.08	47.22	00:00				not sampled -	- measurements only	, , ,		
MW#11B	9/14/2009	1.		_	8.67	47.18	0.00				not sampled	not sampled - measurements only	y		
MW #12	3/26/2009	1		1.	7.04	10.48	00:00				not sampled	not sampled - measurements only	, ,		
MW #12	9/15/2009			t	9.60	10.48	00.0				not sampled	not sampled - measurements only	y		
MW #13	3/26/2009	**			10.39	27	00:00				not sampled	not sampled - measurements only	À		
MW #13	9/15/2009			-	11.13	20.99	00.00				not sampled	not sampled - measurements only	,		
MW #14	3/25/2009			1	8.20	11.89	00:00				not sampled	not sampled - measurements only	À		
MW #14	9/15/2009	-		-	9:38	11.89	00:00				not sampled	not sampled - measurements only) _}		
MW #15	3/25/2009	3310.93		1	9.83	21.68	00.00	3301.10	4/6/2009	-F	0.100	18.330	7.670	6.120	160
MW#15	9/14/2009	3310.93		-	10.42	21.68	0.00	3300.51	9/23/2009	LF	7.720	23.560	8.170	6.460	354
MW #16	3/26/2009	3314.77		1	9.45	21.25	00.0	3305.32	4/2/2009	ΙĿ	0.568	17.340	7.530	7.950	06
MW #16	9/14/2009	3314.77		in the	8.97	21.22	00:00	3305.80	9/17/2009	LF	5.620	20.360	7.000	3.930	6
MW #17	3/25/2009			1	18.88	34.51	0.00		4/9/2009	SP	0.286	18.990	7.610	8.110	171
MW #17	9/14/2009			ı	20.09	34.45	0.00		9/29/2009	SP	2.060	21.340	8.210	12.100	-91
MW #18	3/25/2009	3364.13	15 to 19	-	12.00	22.27	00:00	3352.13	4/14/2009	SP	0.351	18.510	7.080	2.200	66
MW #18	9/16/2009	3364.13	15 to 19	-	12.37	22.3	00.0	3351.76	9/24/2009	SP	3.030	24.120	7.660	5.060	-297
MW #18A	3/26/2009	3305.36			8.64	22.65	00.00	3296.72	4/2/2009	LF	2.440	18.240	7.590	3.950	-160
MW#18A	9/15/2009	3305.36		12	9.10	22.52	0.00	3296.26	9/22/2009	LF	13.700	22.880	5.630	6.900	-81
MW #18B	3/26/2009	a e		J	8.25	50.51	00.0				not sampled	not sampled - measurements only	, X		
MW#18B	9/15/2009	-		***	8.85	50.45	0.00				not sampled	not sampled - measurements only	ly .		
MW #18T	3/26/2009	1		1	8.60	50.8	00.00				not sampled	not sampled - measurements only	λ		
MW#18T	9/15/2009	:		1	9.20	50.75	00.00				not sampled	not sampled - measurements only	γ		
MW#19	3/25/2009	1			12.64	22.05	0.00		,		not sampled	not sampled - measurements only	λ		
MW#19	9/16/2009	-		-	11.53	21.97	0.00				not sampled	not sampled - measurements only	Ιλ		
MW#20	3/26/2009	3340.69	9.5 to 23.5	-	10,41	26.85	0.00	3330.28	4/3/2009	LΕ	0.599	19.440	7.130	2.780	133
MW #20	9/15/2009	3340.69	9.5 to 23.5	1	13.07	26.88	0.00	3327.62	10/5/2009	LF	5.560	21.370	6.930	0.050	112
MW #21	3/26/2009	3336.39	7.5 to 22	**	13.06	25.11	00:00	3323.33	4/3/2009	LF.	0.649	19.300	7.090	3.170	138
MW #21	9/15/2009	3336.39	7.5 to 22	1	13.34	25.1	0.00	3323.05	10/5/2009	T,	6.190	20.160	6.970	0.000	91
MW #22A	3/26/2009	3304.30		1	7.27	22.65	0.00	3297.03	4/6/2009	LF	0.100	17.940	7.920	6.750	167
MW #22A	9/14/2009	3304.30		1	8.43	22.6	00:00	3295.87	9/23/2009	LF	8.970	23.870	9.420	5.600	270
MW #22B	3/26/2009			1	7.06	54.57	0.00				not sampled	not sampled - measurements only	Ą	:	
MVV #22B	9/14/2009	;		up.	8.18	54.54	00.0				not sampled	not sampled - measurements only	<u>></u>		
MW#23	3/26/2009	3365.10	15 to 20	:	13.76	19.06	0.00	3351.34	4/14/2009	SP	0.368	24.170	7.110	1.520	-351
MW#23	9/14/2009	3365.10	15 to 20	,	13.24	19.18	00.0	3351.86	9/28/2009	SP	3.390	30.290	8.420	3.700	-269

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

b Control of the stand of th																
10,000,000 1,0	Well ID	Date Measured	Top of Casing Elevation (ft amst)	Screened	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	Hd (US)	DO (mg/L)	ORP (mV)
91 MITCODIO 20 MITCODIO 20 MITCODIO 20 MITCODIO CONTROLING LEASTON LEAS	MW #24	3/26/2009	-	15 to 20	-	9.25	23.51	00.00				not sampled	- measurements on	ίγ		
10,000,000 230,022 13,000,22 13,0	MW #24	9/15/2009	-	15 to 20		9.98	23.41	0.00				not sampled	- measurements on	ly.		
9 10 200 33 10 22 15 20 10 22 1 20 20 30 30 35 9 1 20 2000 1 20 20 30 30 35 9 1 20 2000 1 20 20 30 30 35 9 1 20 2000 1 20 20 30 30 35 9 1 20 2000 1 20 20 1 20 20 30 30 35 9 1 20 20 1 20 20 30 30 35 9 1 20 20 1 20 20 30 30 35 9 1 20 20 1 20 20 30 30 35 9 1 20 30 30 30 30 30 30 30 30 30 30 30 30 30	MW #25	3/26/2009	3310.32	15.75 to 25.25	1	11.40	28.04	0.00	3298.92	4/6/2009	LF	0.541	18.050	7.630	6.190	111
1,000,000 1,000,000 1,000,000 1,000	MW #25	9/14/2009	3310.32	15.25 to 24.25	1	9.28	28.05	0.00	3301.04	9/23/2009	LF	4.880	20.980	8.120	6.490	352
10 10 10 10 10 10 10 10	MW #26	3/26/2009	3314.30	15.75 to 25.25		10.71	27.67	0.00	3303.59	4/2/2009	J-1	0.732	18.180	7.240	3.600	70
1	MW #26	9/14/2009	3314.30	15.25 to 24.25	_	10.95	27.55	0.00	3303.35	9/17/2009	LF	6.300	19.990	7.060	3.360	241
91402009 3320110 1635 to 277% — 1531 30.25 0.00 3320420 SPP 00 2010 3504 SPP 00 2010 SPP 00 2010 <th< td=""><td>MW #27</td><td>3/26/2009</td><td>3320.13</td><td>18.25 to 27.75</td><td>-</td><td>17.63</td><td>30.28</td><td>0.00</td><td>3302.50</td><td>4/3/2009</td><td>LF</td><td>0.336</td><td>18.050</td><td>066'9</td><td>2.820</td><td>145</td></th<>	MW #27	3/26/2009	3320.13	18.25 to 27.75	-	17.63	30.28	0.00	3302.50	4/3/2009	LF	0.336	18.050	066'9	2.820	145
90000000 38867.73 256 9.09 - 24.67 34.07 0.00 333.86 69 0.031 0.31 0.00 0.30.06 1.41.40000 59 0.034	MW #27	9/14/2009	3320.13	18.25 to 27.75	-	15.31	30.25	00:00	3304.82	9/17/2009	LF	3.280	22.200	6.620	2.350	337
91152009 3354,35 25 bs 30 — 20 bs 341 0.00 335,05 9 ps 2 440 91152009 3354,55 915 bs 102 — 108 bs 21 s 0.00 335,65 4/132009 SP 2 440 91152009 3354,55 917 bs 1925 — 16 bs 21 s 0.00 335,65 4/132009 SP 5.00 bs 3752009 3354,50 14 bs 7.10 2.33 0.00 335,67 7 not sampled - not sampled	MW #28	3/26/2009	3363.73	25 to 30	!	24.57	34.07	0.00	3339.16	4/14/2009	S	0.311	21,000	7.050	1,250	-346
20520009 3384 55 9175 to 1925 1168 2182 0.00 3352 65 9747009 SP 0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.500	MW #28	9/15/2009	3363.73	25 to 30		23.06	34.1	0.00	3340.67	9/25/2009	SP	2.480	30.980	7.720	4.670	-446
10,000 1,0	MW #29	3/25/2009	3364.55	9.75 to 19.25	-	11.68	21.82	0.00	3352.87	4/13/2009	SP	0.536	18.970	7.000	1.420	-280
10,000 1, 10,0	MW #29	9/16/2009	3364.55	9.75 to 19.25	_	10.89	21.8	0.00	3353.66	9/24/2009	SP	5.000	24.180	8.750	4.870	-460
10,000 14,024 14,024 9.35 9.36 25.3 0.00 335.172 14,024 14,0204 14,024	MW #30	3/25/2009	-		-	8.54	21.34	0.00				not sampled	- measurements on	ly.		
32550009 3381 07 14 lo 24 9.35 9.53 0.03 3351 72 most sampled - not sa	MW#30	9/16/2009	1		-	8.92	21.35	0.00				not sampled	- measurements on	ly		
91/52009 3361,07 14 to 24 7.10 7.11 25.34 0.01 3355.97 — not sampled - not sample	MW #39	3/25/2009	3361.07	14 to 24	9.35	9.38	25.33	0.03	3351.72			not sampl	led - product in well			
3255/2009 7.58 24.79 0.00 not sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - men sampled - sampled	MW #39	9/15/2009	3361.07	14 to 24	7.10	7.11	25.34	0.01	3353.97			not sampl	led - product in well			
91162009 — 550 2481 0.00 3353.01 41/32009 SP not sampled - med samp	MW #40	3/25/2009	1		1	7.58	24.79	00.00				not sampled	- measurements on	ly.		
3155/2009 3361.53 14 to 19 8.52 2.2.5 0.00 3354.33 941/2009 SP 0.00 0.00 0.354.33 941/2009 SP 0.00 0.00 0.354.33 941/2009 SP 0.00 0.00 0.354.33 941/2009 SP 0.00	MW #40	9/16/2009	-	i	*****	5.50	24.81	0.00				not sampled	- measurements on	lly		
9162009 336153 14 to 19 - 720 25.5 0.00 335436 8P 5.610 8 9162009 336209 336256 - 9.59 23.39 0.00 3353.97 9172009 SP 0.543 7 9162009 336200 15.5 to 20.5 - 8.58 23.4 0.00 3353.97 9172009 SP 0.545 5.00 94142009 3366.20 15.5 to 20.5 - 11.47 21.28 0.00 3350.52 4452009 SP 0.456 SP 0.656 SP 0.00 3350.52 4462009 LP 0.00 3350.52 4462009 LP 0.00 3350.52 4462009 LP 0.00 3350.52 4462009 LP 0.00 3350.52 4462009 LP 0.00 3350.52 4462009 LP 0.00 3350.52 4462009 LP 0.00 3350.62 1.650.00 1.650.00 1.650.00 1.650.00 1.650.00 1.650.00	MW #41	3/25/2009	3361.53	14 to 19	-	8.52	22.5	00.00	3353.01	4/13/2009	SP	902.0	19.150	6.710	2.640	-225
3725/2009 3362.55 - 9.59 23.39 0.00 3352.96 41/13/2009 SP 5.30 0.543 9/16/2009 3362.50 15.510.205 - 8.58 23.4 0.00 3352.97 9/24/2009 SP 5.30 5.30 3/12/2009 3362.00 15.510.205 - 11.47 2.126 0.00 3355.00 SP 5.30 0.455 9/14/2009 3366.92 15.510.205 - 6.92 15.82 0.00 3350.00 1.F 0.421 0.421 0.00 3350.00 9/24/2009 LF 4.250 0.00 3350.00 1.F 0.421 0.421 0.00 3350.00 9/24/2009 LF 4.250 0.00 3350.00 1.F 0.421	MW #41	9/16/2009	3361.53	14 to 19		7.20	22.52	0.00	3354.33	9/24/2009	SP	5.610	23.900	8.230	4.950	-434
91/62009 3362.55 — 8.58 23.4 0.00 3353.97 974/2009 SP 5.300 7.30 3/26/2009 336/200 336/200 15.5 to 20.5 — 11.47 21.26 0.00 3351.94 9/24/2009 SP 0.456 7 9/14/2009 336/200 15.5 to 20.5 — 6.40 15.8 0.00 3351.94 9/24/2009 SP 0.456 P 0.456 P 0.456 P 0.456 P 0.456 P 0.456 P 0.466 0.00 3350.52 4/6/2009 LF 0.421 P 0.456 P 0.456 P 0.456 P 0.466 0.00 3350.60 LF 0.421 P 0.456 P 0.00 3346.73 LF 0.421 P 0.456 P 0.456 P 0.456 P 0.456 P 0.456 P 0.466 P 0.00 3346.73 P 0.466 P 0.466 </td <td>MW #42</td> <td>3/25/2009</td> <td>3362.55</td> <td></td> <td></td> <td>9.59</td> <td>23.39</td> <td>00.00</td> <td>3352.96</td> <td>4/13/2009</td> <td>SP</td> <td>0.543</td> <td>18.590</td> <td>6.970</td> <td>2.130</td> <td>-348</td>	MW #42	3/25/2009	3362.55			9.59	23.39	00.00	3352.96	4/13/2009	SP	0.543	18.590	6.970	2.130	-348
3126/2009 3362 80 15,5 to 20.5 — 11,47 21.26 0.00 3361.33 4141/2009 SP 0.456 PG 91/4/2009 3362 80 15,5 to 20.5 — 10.86 21.23 0.00 3351.94 9/28/2009 SP 3830 PG 31/4/2009 3365.92 10.5 to 15.5 — 6.40 15.8 0.00 3350.92 UF 0.421 PG 31/4/2009 3366.92 10.5 to 15.5 — 6.92 15.82 0.00 3350.90 UF 0.420 PG 476/2009 UF 0.420 PG 476/2009 UF 0.420 PG 176 PG PG 176 PG PG 176 PG PG PG 176 PG <td>MW #42</td> <td>9/16/2009</td> <td>3362,55</td> <td></td> <td></td> <td>8.58</td> <td>23.4</td> <td>0.00</td> <td>3353.97</td> <td>9/24/2009</td> <td>SP</td> <td>5.300</td> <td>23.650</td> <td>8.380</td> <td>3.580</td> <td>-485</td>	MW #42	9/16/2009	3362,55			8.58	23.4	0.00	3353.97	9/24/2009	SP	5.300	23.650	8.380	3.580	-485
9/14/2009 3362.80 15.5 to 20.5 - 10.86 21.23 0.00 3351.94 9/12/2009 SP 3.830 P 3/25/2009 3356.32 10.5 to 15.5 - 6.40 15.8 0.00 3350.52 4/6/2009 LF 0.20 1 9/14/2009 3356.32 10.5 to 15.5 - 6.92 1.58 0.00 3350.00 LF 4/5200 LF 0.20 1 3/25/2009 3356.32 12 to 17 - 6.06 1981 0.00 3350.00 LF A/52009 LF A/52009 LF A/5200 LF No Sampled - product in well A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF A/6/2009 LF<	MW#43	3/26/2009	3362.80	15.5 to 20.5	-	11.47	21.26	0.00	3351.33	4/14/2009	SP	0.456	20.000	7,160	1.050	-376
3125/2009 3356,92 10.5 to 15.5 6.40 15.8 0.00 3350.52 4/6/2009 LF 0.4250 P.4 9/14/2009 3356,92 10.5 to 15.5 - 6.92 15.82 0.00 3350.00 1F 4.250 7 3/25/2009 3356,92 12 to 17 - 6.06 19.81 0.00 3350.86 4/6/2009 LF NO Sample-Condition 9/14/2009 3356,92 12 to 17 - 8.19 19.83 0.00 3348.73 LF NO Sample-Condition NO S	MW #43	9/14/2009	3362.80	15.5 to 20.5		10.86	21.23	0.00	3351.94	9/28/2009	SP	3.830	26.220	8.560	3.580	-310
474/2009 3356.92 10.5 to 15.6 - 6.92 15.82 0.00 3350.96 LF 4.250 PR 3125/2009 3356.92 12 to 17 - 6.06 19.81 0.00 3350.96 LF No Sample - C 3125/2009 3356.92 12 to 17 - 8.19 19.83 0.00 3346.73 LF No Sample - Droduct In well well well with the sample - Droduct In well well well well well well well wel	MW #45	3/25/2009	3356.92	10.5 to 15.5		6.40	15.8	0.00	3350.52	4/6/2009	LF	0.421	19,440	7.390	3.040	-86
3125/2009 3356 92 12 to 17 - 6.06 19,81 0.00 3350,86 LF No Sample-C 914/2009 3356.92 12 to 17 - 8.19 19,83 0.00 3346.73 Image: All Control	MW #45	9/14/2009	3356.92	10.5 to 15.5	1	6.92	15.82	0.00	3350.00	9/24/2009	LF	4.250	27.330	8.250	4.980	-380
414/2009 336.92 12 to 17 — 8.19 19.83 0.00 3348.73 Product in well somples - Casing Broken 327/2009 336.14 20.31 21.04 32.36 0.73 3345.73 Incompled - product in well solution solution well solution well solution solution well solution well solution well solution solution well solution well solution well solution solution well solution solution well solution well solution well solution solution well solution well solution well solution solution well solution solution solution solution solution solution solution solution solution solution solution solution solution	MW #46	3/25/2009	3356.92	12 to 17	5.5	90.9	19.81	0.00	3350.86	4/6/2009	LF		No Sample - (Casing Broker	_	
3127/2009 336.14 20.31 21.04 32.36 0.73 3345.73 mot sampled - product in well 91/5/2009 336.14 18.07 18.60 32.38 0.53 3348.00 mot sampled - product in well 21.460 91/5/2009 336.14 18.07 18.60 32.38 0.00 335.101 4/14/2009 0.381 21.460 9/16/2009 336.93	MW #46	9/14/2009	3356.92	12 to 17	_	8.19	19.83	0.00	3348.73			No Samp	ile - Casing Broken			
915/2009 336.14 18.07 18.60 32.38 0.53 3348.00 not sampled - product in well 326/2009 336.13 - 11.92 33.06 0.00 335.101 4/14/2009 0.381 21.460 9/16/2009 336.23 - 10.76 33.03 0.00 335.15 - 0.379 21.400 9/16/2009 337.167 - 10.78 21.11 34.72 0.00 335.15 340/2009 SP 0.379 20.770 9/16/2009 337.127 - 17.28 28.3 0.00 335.15 9/9/2009 SP 0.379 20.770 9/14/2009 337.21 - 17.28 28.3 0.00 3356.93 4/9/2009 SP 0.336 20.770 9/14/2009 336/2009 3367.87 0.00 3356.93 4/9/2009 SP 0.336 20.370 9/14/2009 336/2009 3367.87 0.00 3356.93 4/9/2009 SP 0.336 20.300	MW #48	3/27/2009	3366.14		20.31	21.04	32.39	0.73	3345.73		not s	ampled - product in	ı well			
326/2009 336.93 0.00 335.101 4/14/2009 0.381 0.14/2009 0.381 0.14/2009 0.00	MW #48	9/15/2009	3366.14		18.07	18.60	32.38	0.53	3348.00		s ton	ampled - product in	well			
9/16/2009 3362.93 0.00 3352.15 A/8/2009 SP 0.379 2.270 3/26/2009 337.67 376/2009 337.67 6.00 3350.56 4/8/2009 SP 0.379 2.270 3/26/2009 337.61 37.67 6.00 3350.56 3/8/2009 SP 4/9/2009 Phoriba meter Principal meter Pri	MW #49	3/26/2009	3362.93		**	11.92	33.08	0.00	3351.01	4/14/2009		0.381	21.460	096.9	1.620	-373
326/2009 337.67 - 21.11 34,72 0.00 3350.56 4/8/2009 SP 0.379 20.270 9/16/2009 337.167 - 18.52 34.46 0.00 3353.15 9/30/2009 SP - Horiba meter 1 3/25/2009 337.21 - 17.28 28.3 0.00 3356.93 4/9/2009 SP 0.336 20.770 9/14/2009 337.21 - 17.10 28.28 0.00 3357.11 9/28/2009 SP 2.890 24.980 3/26/2009 3367.87 - 13.32 23.87 0.00 3354.55 4/8/2009 SP 0.302 20.530 9/16/2009 3367.87 - 13.31 23.87 0.00 3354.55 4/8/2009 SP 0.302 20.530 9/16/2009 3367.87 - 13.31 23.87 0.00 3353.96 SP 0.302 20.530	MW #49	9/16/2009	3362.93		;	10.78	33.03	00.00	3352,15							
9/16/2009 337.167 - 18.52 34.46 0.00 3353.15 9/30/2009 SP Horiba meter Horiba meter Horiba meter Horiba meter Horiba meter Horiba meter Horiba meter S/25/2009 3/25/2009 3374.21 - 17.28 28.3 0.00 3356.93 4/9/2009 SP 0.336 20.770 7.70 9/14/2009 3367.87 - 17.10 28.28 0.00 3357.11 9/28/2009 SP 2.890 24.980 24.980 3/26/2009 3367.87 - 13.32 23.87 0.00 3354.55 4/8/2009 SP 0.302 20.530 9/16/2009 3367.87 - 13.91 23.87 0.00 3353.96 10/5/2009 SP 2.820 22.910	MW#52	3/26/2009	3371.67		***	21.11	34.72	0.00	3350.56	4/8/2009	SP	0.379	20.270	7.080	2.830	30
3/25/2009 3374.21 - 17.28 28.3 0.00 3356.93 4/9/2009 SP 0.36 20.770 9/14/2009 3374.21 - 17.10 28.28 0.00 3357.11 9/28/2009 SP 2.890 24.980 3/26/2009 3367.87 - 13.32 23.87 0.00 3354.55 4/8/2009 SP 0.302 20.530 9/16/2009 3367.87 - 13.91 23.87 0.00 3353.96 10/5/2009 SP 2.820 22.910	MW#52	9/16/2009	3371.67			18.52	34,46	0.00	3353.15	9/30/2009	SP		Horiba me	ter broken		
9/14/2009 337.4.21 - 17.10 28.28 0.00 3357.11 9/28/2009 SP 2.890 24.980 3/26/2009 3367.87 - 13.32 23.87 0.00 3354.55 4/8/2009 SP 0.302 20.530 9/16/2009 3367.87 - 13.91 23.87 0.00 3353.96 10/5/2009 SP 2.820 22.910	MW#50	3/25/2009	3374.21			17.28	28.3	0.00	3356.93	4/9/2009	SP	0.336	20.770	7.180	2.600	-173
3/26/2009 3367.87 - 13.32 23.87 0.00 3354.55 4/8/2009 SP 0.302 20.530 9/16/2009 3367.87 - 13.91 23.87 0.00 3353.96 10/5/2009 SP 2.820 22.910	MW#50	9/14/2009	3374.21		**	17.10	28.28	00:00	3357.11	9/28/2009	SP	2.890	24.980	8.680	3.720	-281
9/16/2009 3367.87 - 13.91 23.87 0.00 3353.96 10/5/2009 SP 2.820 22.910	MW#53	3/26/2009	3367.87		:	13.32	23.87	0.00	3354.55	4/8/2009	SP	0.302	20.530	7.210	2.290	79
	MW #53	9/16/2009	3367.87		:	13.91	23.87	00.00	3353.96	10/5/2009	SP	2.820	22.910	6.950	0.120	62

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

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Well ID	Date Measured	Top of Casing Elevation	Screened	Depth to Product	Depth to Water	Total Deoth	Product Thickness	Groundwater	Date	Sampling	Conductivity	Temperature	됩	00	(Vm) GRO
		(ft amsl)	interval	(ft btoc)	(ft btoc)	(ft btoc)	(#)	(ft ams1)	Sampled	Method	(S/m)	(၁,)	(SU)	(mg/L)	,
MW #54A	3/26/2009	3365.66			12.87	31.33	00:00	3352.79	4/8/2009	SP	0.310	19.290	6.740	2.570	4
MW #54A	9/16/2009	3365.66		_	13.38	31.29	0.00	3352.28	10/5/2009	SP	2.890	23.290	6.490	0.220	42
MW #54B	3/26/2009	1		1	12.89	47.08	0.00				not sampled	not sampled - measurements only	ły		
MW #54B	9/16/2009	-		1	13.36	47.45	0.00				not sampled	- measurements only	λį		
MW #55	3/25/2009	3363.97		÷	11.86	26.82	00.00	3352.11	4/10/2009	SP	0.492	19.550	7.200	2.640	-194
MW #55	9/16/2009	3363.97		1	11.79	26.82	0.00	3352.18	9/24/2009	SP	5.050	24.020	7.680	4.620	-297
MW #56	3/25/2009	3362.05			11.54	26.38	00.00	3350.51	4/10/2009	SP	0.482	19.880	7.020	2.700	-77-
MW #56	9/16/2009	3362.05		,,,	11.75	26.1	00.0	3350.30	9/24/2009	SP	4.510	24.680	7.510	5.210	-304
MW #57	3/26/2009		Not N	Not Measured - Pump in Well	Well .						not samp	not sampled - product in well			
MW #57		1	Not N	Not Measured - Pump in Well	ı Well						not samp	not sampled - product in well	;		
MW#58	3/26/2009	-		-	22.62	33.15	0.00		4/8/2009	dS	0.280	20.260	6.710	1.930	-72
MW #58	9/16/2009	-		_	18.49	33.14	00.00		9/30/2009	gS		Horiba meter broken	ter broken		
MW #59	3/25/2009	ı		;	6.44	29.27	00.00				not sampled	not sampled - measurements only	≥		
MW #59	9/16/2009			1	4.00	29.67	0.00				not sampled	not sampled - measurements only			
MW #60	3/25/2009	I			6.81	34.17	0.00				not sampled	not sampled - measurements only	<u>}</u>		
MW #60	9/16/2009	f		1	5.20	34.3	0.00				not sampled	not sampled - measurements only	λį		
MW #61	3/27/2009	3362.42	14 to 29	1	12.85	29.02	0.00	3349.57	4/9/2009	SP	0.633	23.290	7.010	2.120	-368
MW #61	10/1/2009	3362.42	14 to 29	1	12.60	29.1	0.00	3349.82	10/1/2009	SP	5.140	26.540	6.430	0.000	-383
MW #62	3/26/2009	-	14 to 29	ı	16.27	32.93	0.00		4/14/2009	SP	0.257	21.600	7.000	1.770	-373
MW #62	9/14/2009	:	14 to 29	1	16.11	31.94	0.00		10/1/2009	SP	2.320	27.210	6.380	0.130	-358
MW #63		Inaccessi	Inaccessible in March-April 2009 due to heavy equipment	2009 due to heavy		and temporary storage	orage				Ċ,	not sampled			
MW #63		Inaccessi	Inaccessible in September 2009 due to heavy equipment	2009 due to heavy	equipment and	and temporary storage	rage				c	not sampled			
MW #64	3/26/2009	1	15 to 30	20.91	22.45	34.19	1.54				not samp	sampled - product in well			
MW #64	9/15/2009	ì	15 to 30	19.54	21.34	34.16	1.80				not samp	not sampled - product in well			
MW #65	3/26/2009	:	14.5 to 29.5	17.34	20.00	29.37	2.66				not samp	not sampled - product in well			
MW #65	9/15/2009	:	14.5 to 29.5	16.33	16.48	29.35	0.15				not samp	not sampled - product in well			
Mvv #66	3/26/2009	;	14.6 to 29.6	-	18.18	29.67	0.00		4/14/2009	SP	0.236	20.490	7.070	3.520	-223
MW #66	9/16/2009	;	14.6 to 29.6	1	16.48	29.67	0.00		9/25/2009	SP	1.910	25.070	8.020	4.340	-406
MW #67	3/25/2009	1	12 to 27	1	11.30	27.17	0.00		4/14/2009	SP	0.267	20.570	7.130	1.620	-283
MW #67	9/16/2009	**	12 to 27	1	11.34	27.18	0.00		10/1/2009	SP	2.500	24.760	6.520	0.000	-321
MW #68	3/25/2009	3334.29		ı	21.67	26.76	0.00	3312.62	4/3/2009	Ę,	0.304	19.600	7.030	3.940	137
MW #68	9/16/2009	3334.29		:	20.87	26.74	0.00	3313.42	9/29/2009	LF	3.670	23.120	7.590	8.930	-95
WW #69	3/26/2009	3334.29		1	7.91	10.9	00.00	3326.38			not sampled	not sampled - measurements only	ly		
WW #69	9/16/2009	3334.29		1	8.28	10.88	00:0	3326.01			not sampled	not sampled - measurements only	Ιλ		
MW #70	3/26/2009	3303.09		:	7.30	22.01	0.00	3295.79	4/2/2009	F	0.678	17.030	7.260	4.140	23
MW #70	9/16/2009	3303.09			8.33	22.03	0.00	3294.76	9/22/2009	LF	3.560	22.470	5.480	3.250	69-
MW #71	3/26/2009	3303.09		1	12.32	20.21	0.00	3290.77			not sampled	not sampled - measurements only	λį		
MW #71	9/16/2009	3303.09		:	17.45	21.78	0.00	3285.64			not sampled	not sampled - measurements only	ly.		

60 Summary of Field Ouser was Navajo Refinery, Artesia, New Mexico

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1	mmary of Field Observations 200	
1	Field	4
	mmary of	

	3/26/2009 3/26/2009 3/26/2009 3/25/2009 9/14/2009 3/25/2009 9/14/2009 3/25/2009 9/14/2009 3/25/2009 9/14/2009 3/25/2009 9/14/2009 3/25/2009 9/14/2009	(ff amst) 3308.04 3308.04 3308.04 3309.65 3309.63 3309.63 3311.13 3309.36 3309.41 3309.41 3309.41 3309.41 3309.41 3309.41	10 10 10 10 10 10 10 10 10 10 10 10 10 1	(ft btoc)	(ft btoc) 6.35 6.97	(ft btoc)	(ft) (0.00	(ft amsl)	Sampled 3/30/2009	Method	(S/m)	(°C) 16.260	(SU)	(mg/L) 10.900	JOSE (1118)
	2009 2009 2009 2009 2009 2009 2009 2009	3308.04 3308.04 3309.65 3309.44 3309.63 3309.63 3311.13 3309.36 3309.36 3309.36 3309.41 3309.41 3309.41	2 to 12 2 to 17 2 to 17 2 to 17 2 to 17 2 to 17 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18		6.35	13.88	0.00	3301.69	3/30/2009	LF.	1010	16.260	7 180	10.900	121
	2009 2009 2009 2009 2009 2009 2009 2009	3308.04 3309.65 3309.44 3309.63 3309.63 3311.13 3311.13 3309.36 3309.36 3309.41 3309.41 3309.41 3310.99	2 to 12 2 to 17 2 to 17 2 to 17 2 to 17 2 to 17 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18	1 1 1 1 1 1	6.97	00.0					010.1		22		171-
	2009 2009 2009 2009 2009 2009 2009 2009	3309.65 3309.65 3309.44 3309.63 3309.63 3311.13 3309.36 3309.36 3309.41 3309.41 3309.41 3309.41	2 to 17 2 to 17 2 to 17 2 to 17 2 to 17 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18	1 1 1 1		13.88	00.0	3301.07	9/18/2009	LF	18.200	23.130	6.920	2.000	-137
	2009 2009 2009 2009 2009 2009 2009 2009	3309.65 3309.44 3309.63 3309.63 3311.13 3311.13 3309.36 3309.41 3309.41 3310.99 3310.99	2 to 17 2 to 17 2 to 17 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18	1. 1. 1. 1	8.63	19.61	00:00	3301.02	3/30/2009	LF	1.520	16.690	7.420	6.940	-110
	2009 2009 2009 2009 2009 2009 2009 2009	3309.44 3309.63 3309.63 3311.13 3311.13 3309.36 3309.41 3309.41 3309.41 3310.99	2 to 17 2 to 17 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18	1 1 1	8.80	19.55	0.00	3300.85	9/18/2009	LF	14.800	20.070	7.290	3.920	138.
	2009 2009 2009 2009 2009 2009 2009 2009	3309.44 3309.63 3309.63 3311.13 3309.36 3309.41 3309.41 3310.99 3310.99	2 to 17 3 to 18 3 to 18 3 to 18 3 to 18 3 to 18	1 1 1	8.25	20.13	00.00	3301.19	3/30/2009	17	1,370	18.200	7.350	7.680	-2
	2009 2009 2009 2009 2009 2009 2009 2009	3309.63 3309.63 3311.13 3309.36 3309.41 3309.41 3309.41 3310.99	3 to 18 3 to 18 3 to 18 3 to 18	1 1	9.05	20.11	0.00	3300.39	9/18/2009	ΙF	13.800	21.970	7.010	3.140	26
	2009 2009 2009 2009 2009 2009 2009 2009	3309.63 3311.13 3309.36 3309.41 3309.41 3309.41 3310.99 3310.99	3 to 18 3 to 18 3 to 18	-	8.38	23.64	00.00	3301.25	3/30/2009	J)	0.928	19.120	7.430	5.890	-95
	2009 2009 2009 2009 2009 2009 2009	3311.13 3309.36 3309.41 3309.41 3309.41 3310.99 3310.99	3 to 18 3 to 18 3 to 18		9.27	23.64	0.00	3300.36	9/18/2009	LF	10.500	21.420	7.060	2.430	-177
	2009 2009 2009 2009 2009 72009	3311.13 3309.36 3309.41 3309.41 3310.99 3310.99	3 to 18	-	10.00	20.28	00.00	3301.13	3/31/2009	LF	0.795	18.490	7.350	2.420	-82
	(2009) (2009) (2009) (2009) (2009) (2009)	3309.36 3309.41 3309.41 3310.99 3310.99	3 to 18		10.85	20.27	0.00	3300.28	9/17/2009	LF	8.100	22.750	7.020	2.710	-199
	(2009) (2009) (2009) (2009) (2009)	3309.41 3309.41 3310.99 3310.99 3310.37			8.24	20.49	00:0	3301.12	3/31/2009	ΙF	0.921	16.240	7.170	2.560	-90
	(2009 (2009 (2009 (2009	3309.41 3309.41 3310.99 3310.37	3 to 18		9.11	20.45	0.00	3300.25	9/17/2009	LF	9.300	22.440	6.930	2.540	-169
	/2009 /2009 /2009	3309.41 3310.99 3310.99	2 to 17	-	8.26	19.55	00'0	3301.15	3/31/2009	Ę	0.728	16.670	7.230	2.240	-75
	72009	3310.99 3310.99 3310.37	2 to 17	***	9.13	19.53	0.00	3300.28	9/17/2009	LF	7.120	22.560	7.120	3.210	-160
	2009	3310.99	2 to 17		8.96	19.23	00.00	3302.03	3/31/2009	47	1.170	16.150	7,410	3.180	41
	6000	3310,37	2 to 17		99.6	19.21	00.00	3301.33	9/18/2009	LF	12.200	21.020	7.070	1.960	-55
MW #80 3/25/2009	2007		2 to 17	ņ e	7.65	19.83	00.0	3302.72	3/31/2009	LF	7.590	17.030	7.370	3.360	-26
MW#80 9/14/2	9/14/2009	3310.37	2 to 17		8.30	20.82	0.00	3302.07	9/18/2009	LF	7.800	21.410	7.100	2.010	-104
MW#81 3/25/2	3/25/2009	3311.92	2 to 17	***	9.29	19.63	00.0	3302.63	3/31/2009	ച 1	0.862	17.750	7.280	2.930	71
MW #81 9/14/2	9/14/2009	3311.92	2 to 17	-	9:30	18.61	0.00	3302.02	9/18/2009	LF	8.150	22.190	7.030	2.210	-11
MW#82 3/25/2	3/25/2009	3310.30	2 to 17		8.37	20	0.00	3301.93	3/31/2009	I.F	0.962	18.420	7.350	2.770	-93
MW#82 9/14/2	9/14/2009	3310.30	2 to 17	-	9.11	19.98	0.00	3301.19	9/21/2009	ΓF	11.400	23.740	7,140	1.790	-168
	3/25/2009	3309.50	2 to 17	-	8.21	19.89	0.00	3301.29	3/31/2009	Ŀ,	0.763	17.490	7.270	2.940	-58
MW #83 9/14/2	9/14/2009	3309.50	2 to 17		9.05	19.87	0.00	3300.45	9/21/2009	LF	8.160	24.520	6.930	2.200	£-
MW #84 3/25/2	3/25/2009	3311.17	2 to 17	1	9.42	20.47	00.00	3301.75	3/31/2009	LF	1.210	18.700	7.370	3.010	31
MW #84 9/14/2009	6002	3311.17	2 to 17	;	9.37	20,44	0.00	3301.80	9/21/2009	LF	12.600	23.020	7.060	2.090	-115
_	3/25/2009	3310.66	3 to 18	8.63	8.87	20.25	0.24	3302.00			not samp	not sampled - product in well			
MW #85 9/14/2	9/14/2009	3310.66	3 to 18	9.21	9.91	20.27	0.70	3301.36			not samp	not sampled - product in well			
MW #86 3/25/2009	72009	3310.65	2 to 17	8.17	8.60	19.15	0.43	3302.42			not samp	not sampled - product in well			
MW #86 9/14/2	9/14/2009	3310.65	2 to 17	8.80	10.65	19.18	1.85	3301.61			not samp	not sampled - product in well			
MW #87 3/25/2	3/25/2009	3310.65	2 to 17	:	7.69	20.35	00.00	3302.96	4/6/2009	_ IF	0.100	18.700	7.590	6.550	170
MW#87 9/15/2	9/15/2009	3310.65	2 to 17	;	8.58	20.28	0.00	3302.07	9/22/2009	LF	9.550	23.330	5.790	10.560	-41
MW #88 3/25/2009	2009	3308.02	3 to 18	1	8.12	20.25	0.00	3299.90	4/6/2009	ΓF	0.200	17.650	7.910	6.910	177
MW #88 9/15/2009	2009	3308.02	3 to 18	:	9.31	20.27	0.00	3298.71	9/23/2009	LF	7.510	22.870	8.000	6.630	323
MW #89 3/25/2	3/25/2009	3317.87	2 to 17	f	12.15	20.24	0.00	3305.72	4/2/2009	LF	0.366	17.800	7.140	3.280	09-
MW #89 9/15/2	9/15/2009	3317.87	2 to 17	1	10.81	20.2	0.00	3307.06	9/17/2009	LF	3.790	20.990	6.750	5.770	66
	3/25/2009	3368.75	5 to 20	÷	13.22	22.65	0.00	3355.53	4/15/2009	SP	0.454	19.210	7.130	2.010	-378
MW #90 9/14/2	9/14/2009	3368.75	5 to 20		13.19	22.7	0.00	3355.56	10/1/2009	SP	3.800	22.250	6.820	0.040	-367

Table 2 Summary of Field Observations 2009 Navajo Refinery, Artesia, New Mexico

Date Measured	Top of Casing Elevation	Screened Interval	Depth to Product	Depth to Water	Total Depth	Product Thickness	Groundwater Elevation	Date	Sampling	Conductivity (S/m)	Temperature	Hd (NS)	DO (ma/L)	ORP (mV)
	(It amsi)		(rt btoc)	(it btoc)	(ft btoc)	(¥)	(ft amsi)			()			<i>(</i>	
3/25/2009	3367.10	7 to 22	***	12.26	25.25	00:00	3354.84	4/15/2009	SP	0.270	20.510	6.910	1.490	-425
9/14/2009	3367.10	7 to 22	***	12.19	25.26	0.00	3354.91	10/1/2009	SP	2.570	23.860	6.440	0.000	-381
3/25/2009	3368.00	5 to 20	***	13.11	22.57	00.0	3354.89	4/15/2009	SP	0.381	19.600	6.940	1,850	-342
9/14/2009	3368.00	5 to 20		13.28	22.58	0.00	3354.72	10/1/2009	SP	3.830	23.090	6.510	0.000	-331
3/26/2009	3363.18	5 to 20	-	8.36	20.09	00.00	3354.82	4/15/2009	SP	0.273	17.790	7.230	3.050	-388
9/14/2009	3363.18	5 to 20		8.84	20.1	0.00	3354.34	10/1/2009	SP	2.210	24.790	6.510	2.170	-344
3/25/2009	3367.25	5 to 20	13.25	16.95	23.27	3.70	3353.51			not samp	not sampled - product in well			
9/15/2009	3367.25	5 to 20	13.22	16.99	23.8	3.77	3353.54			not samp	not sampled - product in well			
3/25/2009	3368.05	7 to 22		14.04	25.31	00:00	3354.01	4/15/2009	SP	0.292	20.480	7.030	1.700	-319
9/14/2009	3368.05	7 to 22	1	14.12	25.31	0.00	3353.93	10/1/2009	SP	2.570	24.310	6.700	0.000	-317
3/25/2009	3368.30	7 to 22	-	13.27	25.46	00:00	3355.03	4/15/2009	SP	0.290	19.720	7,120	1.670	-383
9/14/2009	3368.30	7 to 22	1	13.14	25.42	0.00	3355.16	10/1/2009	SP	2.540	23.260	6.680	0.000	-373
3/26/2009	3365.31	8 to 23	10.68	12.74	21.97	2.06	3354.36			not samp	not sampled - product in well			
9/15/2009	3365.31	8 to 23	10.54	13.81	21.94	3.27	3354.34			not samp	not sampled - product in well			
3/26/2009	3365.08	13 to 23	1	8.74	26.69	00.00	3356.34	4/15/2009	SP	0.353	20.960	7.190	1.210	-392
9/14/2009	3365.08	13 to 23		9.22	26.66	0.00	3355.86	9/28/2009	SP	3.880	26.020	9.220	8.990	-361
3/26/2009	3363.30	12 to 27		19.00	28.25	00:00	3344.30	4/15/2009	SP	0.244	20.590	6.910	2.220	-311
9/14/2009	3363.30	12 to 27	*	17.02	28.26	0.00	3346.28	9/28/2009	SP	2.310	23.930	8.920	3.660	-315
3/26/2009	3363.68	9 to 24	18.77	18.79	30.5	0.02	3344.91			not samp	not sampled - product in well			
9/15/2009	3363.68	9 to 24	17.32	17.37	30.48	0.05	3346.35	! 		not samp	not sampled - product in well			
3/26/2009	3367.98	8 to 23		16.20	26.68	00.0	3351.78	4/15/2009	SP	0.285	20.920	6.940	1.650	-374
9/14/2009	3367.98	8 to 23	-	15.21	26.66	00.00	3352.77	9/28/2009	SP	2.110	24.870	7.950	5.460	-238
3/26/2009	3371.37	12 to 27	16.55	19.98	26.4	3.43	3354.37			not samp	not sampled - product in well			
9/15/2009	3371.37	12 to 27	16.34	17.35	26.44	1.01	3354.90			not samp	not sampled - product in well			
3/26/2009	1	7 to 22	ı	18.55	25.09	00.00		3/16/2009		field	field measurements not collected	collected		
9/14/2009		7 to 22	1	17.92	25.1	00.00		9/28/2009	SP	4.960	27.210	9.430	3.370	-277
3/26/2009	,	3 to 18	1	13.12	21.83	00.00		3/16/2009		field	field measurements not collected	collected		
9/14/2009	:	3 to 18		12.17	21.82	0.00		9/28/2009	SP	1.670	23.630	9.110	4.320	-270
3/25/2009	17	8 to 18	11.83	12.33	17.15	0.50				not sampled	not sampled - measurements only	ly		
9/15/2009		8 to 18	11.89	12.08	17.14	0.19				not sampled	not sampled - measurements only	۸		
3/25/2009		0 to 11		9.18	22.69	00.00				not sampled	i - measurements only	λl	-	
9/14/2009		0 to 11	1	8.31	22.7	0.00		9/28/2009	dS	3.730	26.360	8.460	3.640	-336
3/25/2009	ì	12 to 22	*	13.60	18.96	00.00				not sampled	· measurements only	<u>^</u>		
9/14/2009	8-4	12 to 22	1	12.26	18.97	00:00		9/28/2009	SP	1.920	24.980	8.170	4.190	-242
9/14/2009	Ī	9 to 24		14.01	27.35	0.00		10/1/2009	SP	2.870	22.890	6.710	0.010	-304
3/25/2009	1	13 to 18	1	12.29	20.09	0.00				not sampled	not sampled - measurements only			
9/16/2009		13 to 18	-	11.42	20.1	0.00				not sampled	not sampled - measurements only	ž		
3/25/2009	3363,72	17 to 22	-	10.39	18.08	00.0	3353.33	4/10/2009	SP	0.313	19.250	7.040	2.410	-85
3/2009	3363.72	17 to 22		2.01	17.8	0.00	3361.71	9/24/2009	SP	1.500	22 540	0880	3 030	-121

Table 2 of Field Obser Sumn

				_										
Date Measured	Top of Casing	Screened	Depth to	Depth to	Total	Product	Groundwater	Date	Sampling	Conductivity	Temperature	Hd	00	נייי) טטר
	(ft amsl)	Interval	(ft btoc)	(ft btoc)	(ft btoc)	(ff)	(ft amsl)	Sampled	Method	(S/m)	(0°)	(SU)	(mg/L)	(אוווי) באס
3/25/2009	3364.74	13 to 18		11.21	20.48	0.00	3353 53	4/10/2009	a S	0.389	19 640	7 440	2 950	-246
9/16/2009	3364.74	13 to 18		11.39	20.49	0.00	3353.35	9/24/2009	dS	3.360	23.400	8 540	3 720	35
3/25/2009	3364.74	16 to 21	!	11.98	19.26	000	3352 76	4/10/2009	a v	0.296	21.040	6 910	2000	385
9/16/2009	3364.74	16 to 21	1	11.87	19.24	0.00	3352.87	9/24/2009	dS	2.450	24 300	9 160	3.610	-144
3/25/2009	3363.23		:	10.58	21.58	0.00	3352.65	4/10/2009	dS	0.247	19.530	6 790	2.520	-128
9/16/2009	3363.23			10.74	21.58	0.00	3352.49	9/24/2009	dS	2.070	22.550	9.810	5.400	-410
3/25/2009	3369.87		;	17.23	32.23	000	3352 64	4/8/2009	ď	0.383	20.050	7 170	4 110	106
9/16/2009	3369.87			17.70	32.18	0.00	3352.17	10/5/2009	S S	3.510	22.000	6 920	0.700	25
3/25/2009	3341.64		;	15.02	21.87	00 0	3326.62	4/8/2009	a d	0.613	16.540	7 160	4 570	503
9/15/2009	3341.64		1	15.94	21.83	0.00	3325.70	9/30/2009	as	9	Horiba meter broken	ter broken	016.1	3
3/26/2009	3342.09	9.5 to 18.5		12.14	21.47	0.00	3329.95	4/8/2009	ass	0.604	17 220	7 180	5.430	176
9/15/2009	3342.09	9.5 to 18.5		14.62	21.47	00.00	3327.47	9/30/2009	SP		18	meter broken		
3/26/2009	3342.24	9.5 to 18.5	ł	12.62	21.9	0.00	3329.62	4/3/2009	4	0.460	17.180	7.190	3.360	103
9/15/2009	3342.24	9.5 to 18.5	1	15.46	21.88	0.00	3326.78	10/5/2009	LF	3.730	19.970	6.860	0.850	123
3/26/2009	3345.01	24.5 to 33.5		20.41	37	0.00				not sampled	not sampled - measurements only	ı		
9/15/2009	3345.01	24.5 to 33.5	1	24.90	36.97	00:00				not sampled	not sampled - measurements only	2		
3/25/2009	3353.41		:	11.50	25.11	0.00	3341.91	4/8/2009	SP	0.733	17.080	7.390	3.480	116
9/16/2009	3353.41		-	12.23	25.12	00.0	3341.18	10/5/2009	SP	6.570	19.560	7.110	0.030	-72
3/25/2009	3336.96		**	13.05	20.3	00.00	3323.91	4/8/2009	SP	0.692	16.700	7,110	4.510	341
9/15/2009	3336.96			12.75	20.28	00.00	3324.21	10/5/2009	dS	6.800	19.310	6.860	1.560	113
3/26/2009						Well has beer	Well has been destroyed by landowner - cannot sample	downer - cannot	sample					
						Well has beer	Well has been destroyed by landowner - cannot sample	downer - cannot	sample					
3/25/2009	ł		-	11.09	15.14	0.00		_		not sampled	not sampled - measurements only	^		
9/14/2009	1		1		4.1	0.00				not sampled	not sampled - measurements only	<u></u>		
3/26/2009	3359.49			10.47	25.89	00.00	3349.02	4/10/2009	SP	0.546	16.840	7.330	3.130	-211
9/16/2009	3359.49			10.72	25.85	0.00	3348.77	9/24/2009	SP	5.020	20.700	8.380	6.260	-288
3/26/2009	3311.11			10.27	23.85	00.00	3300.84	4/1/2009	41	1,070	18.350	7.370	3.250	89-
9/14/2009	3311,11			10.64	23.83	0.00	3300.47	9/21/2009	LF	6.350		7.160	0.880	-100
3/26/2009	3310.99			10.02	27.51	0.00	3300.97	4/1/2009	LF	1.190	18.860	7.420	3.630	-29
9/14/2009	3310.99		:	10.65	27.5	0.00	3300.34	9/22/2009	LF	4.450	21.100	5.650	4.270	-72
3/26/2009	1		t	10.33	50.38	0.00				not sampled	not sampled - measurements only	λ		
9/14/2009	•		,	11.11	50.3	00:00				not sampled	not sampled - measurements only			
3/26/2009	3311.19		1	10.40	25.4	00.00	3300.79	4/1/2009	LF	0.540	19.410	7.530	3.090	-26
9/14/2009	3311.19			10.96	25.42	0.00	3300.23	9/22/2009	LF	2.880	26.110	5.790	2.630	99-
3/26/2009	3312.23		-	9.71	25.38	00:00	3302.52	4/1/2009	I.	1.860	19.910	7.430	2.900	-42
9/14/2009	3312.23		:	10.23	25.38	0.00	3302.00	9/22/2009	LF	8,490	24.920	5.740	2.590	-101
3/26/2009	3307.82			7.94	25.42	00:00	3299.88	4/1/2009	LF	2.000	18.710	7.460	2.900	-59
9/14/2009	3307.82		1	8.49	25.37	0.00	3299.33	9/22/2009	LF	9.030	23.710	5.640	2.580	-95
3/26/2009	3309.93		•	7.95	26.75	00.0	3301.98	4/1/2009	٦٦	1.810	17.480	7.500	3.150	-119
9/14/2009	3309.93			8.63	26.73	0.00	3301.30	9/21/2009	ľΕ	18.500	22.960	7.170	1.780	-125
3/26/2009	3307.05	5.5 to 19.5		6.62	21.27	00.00	3300.43	4/1/2009	17	1,370	17.580	7.330	3.410	-93
9/14/2009	30,7000	0 0 1 1 1 1		77.4	00,0									

Table 2

0,7	OKP (mv)	Ī		Γ		-112	-119	Ī						18		Γ				.173	2	-114		-354	-359																	Γ	
_		$\left\{ \right.$				F		┨						L	-					F	$\frac{1}{2}$	L	-	L	L	L				L		L					L	_		L	_		
8	(mg/L)					2 480	2.640					(a)c	ole)	10.970						8 020	5	7.920		4.380	2.250	L				_							L				L	L	_
H	(ns)					7 420	5.480	L			rements	fisson elon	mole possit	7.830	1	o samble)	o sample)	2		7 840		7.950		7,060	6.920																		
Temperature	(0,)	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	16 500	25.570	not sampled - measurements only	not sampled - measurements only		No Measurements	Well innerable electrical box removed (no sample nossible)	Well inoperable, electrical box removed (no sample possible)	15.700	No Measurements	Well inoperable, no electricity, wires cut (no sample)	Well inoperable no electricity wires cut (no sample)			025 570	No Measurements	18.960	No Measurements	22.790	24.280	nts anly	nts anly			nts only	uts only												
Conductivity	(N/S)	not sampled	not sampled	not sampled	not sampled	1.580	7.560	not sampled	not sampled			onerable electrical	operable electrical	0.368		elt inoperable, no e	ell inoperable, no e			0.517		0.203		0.389	3.170	not sampled - measurements only	not sampled - measurements only			not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only	not sampled - measurements only
Sampling	Method					I.F	T.			oldisagn oldi	Sp	n lleW	Wellin	dS	SP	ı		l	Sible	ď	SP	SP	SP	SP	SP	not san	not san			not san	not sam												
Date	Sampled					4/2/2009	9/22/2009			are no montor can	10/5/2009			4/16/2009	9/30/2009			eldisson trement possible	easurement pos	4/16/2009	9/30/2009	4/16/2009	9/30/2009	4/16/2009	10/1/2009			essible	essible														
Groundwater	(ft amsi)					3297.33	3296.57			eldisson elames so toemen iscem on a beyomen amina etisno on lleW	-							no samule or m	Well destroyed no sample or measurement possible									Backfilled - Inaccessible	Backfilled - Inaccessible														
Product	(ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	min onsite pin	-							Well destroyed	Well destro					00:00	0.01	0.05	0.04			0.00	00:00	0.31	0.19	00.00	0.07	00:00	0.00	0.01	0.01	00.00	0.00	00:00	00.00
Total	(ft btoc)	56.8	56.73	71.95	79.97	21.68	21.68	56.5	56.45	lle/M	;	Well	Well Well	Well	Vell	Well	Well			Well	Well	Well	Well	18.56	18.55	18.52	19.25			20.96	21.02	17.48	17.2	16.86	16.87	20.79	20.77	18.43	16.35	21.87	21.79	24.02	23.86
Depth to	(ft btoc)	7.46	8.35	7.91	8.70	9.35	10.11	7.80	8.65		ı	Not Measured - Irrigation	Not Measured - Irrigation \	Not Measured - Irrigation \		Not Measured - Irrigation V	Not Measured - Irrigation V			Not Measured - Irrination			Not Measured - Irrigation V	11.54	17.66	17.88	17.92			16.71	16,13	17.48	16.16	16.79	16.85	12.63	12.10	14.38	15.39	10.48	9.22	11.29	8.79
Depth to	(ft btoc)	ı			;		:	ı	1		ı	Not Measur	Not Measur	Not Measur	Not Measur	Not Measur	Not Measur			Not Measur	Not Measur	Not Measur	Not Measur	t	17.65	17.83	17.88			1	1	17.17	15.97		16.78	-	1	14.37	15.38		-		-
Screened	Interval	43.5 to 52.5	43.5 to 52.5	60.25 to 69.75	60.25 to 69.75																																						
Top of Casing	(ft amsl)	3306.92	3306.92	3306.92	3306.92	3306.68	3306.68	1	1		ı															-	-			***		***	***	+	**	:	1	1		1	ŧ	-	1
Data Moseuro	Date weasured	3/26/2009	9/14/2009	3/26/2009	9/14/2009	3/26/2009	9/14/2009	3/26/2009	9/14/2009	3/26/2009		3/26/2009	9/30/2009		9/30/2009						9/30/2009		9/30/2009	3/25/2009	9/15/2009	3/25/2009	9/15/2009	3/26/2009	9/14/2009	3/26/2009	9/15/2009	3/26/2009	9/15/2009	3/26/2009	9/14.2009	3/25/2009	9/14/2009	3/25/2009	9/14/2009	3/25/2009	9/14/2009	3/25/2009	9/14/2009
Wellin		OCD #78	OCD #7B	OCD #1C	OCD #7C	OCD #8A	OCD #8A	OCD #8B	OCD #8B	RA #313	RA#313	RA #314	RA #314	RA#3156	RA #3156	RA #3353	RA #3353	RA #3723	RA #3723	RA #4196	RA #4196	RA #4798	RA #4798	RW#1	RW#1	RW#2	RW#2	RW#3	RW#3	RW #4	RW #4	RW #5	RW#5	RW #6	RW#6	RW#7	RW #7	RW#8	RW#8	RW #9	RW #9	RW #10	RW#10

Summary of Field Observations 2009 Navajo Refinery, Artesia, New Mexico Table 2

Date Measured	Top of Casing Elevation	Screened	Depth to Product	Depth to Water	Total Depth	Product Thickness	Groundwater Elevation	Date Sampled	Sampling	Conductivity (S/m)	Temperature	Hd	00	ORP (mV)
	(it amsi)		(ft btoc)	(it btoc)	(ft btoc)	(tt)	(ft amsl)			((5.)	(20)	(1,8,11)	
3/27/2009	:			DRY	NM	00.0			not sarr	not sampled - measurements only	nts only			
9/16/2009	4.0		1	21.16	23.02	0.00			not sam	not sampled - measurements only	nts only			
3/27/2009	1		1	DRY	22.89	0.00			not sam	not sampled - measurements only	nts only			
9/15/2009	1		19.00	19.02	22.89	0.02			not sam	not sampled - measurements only	nts aniv			
3/27/2009			22.90	23.00	25.12	0.10			not sam	not sampled - measurements only	nts only			
9/15/2009			18.60	19.54	25.12	0.94			not sam	not sampled - measurements only	nts aniv			
3/27/2009			19.85	19.95	23.87	0.10		į	not sam	not sampled - measurements only	ots only			
9/15/2009	:		18.37	18.89	23.6	0.52			not sam	not sampled - measurements only	nts only			
3/27/2009	:		18.07	18.13	22.24	90.0			not sam	not sampled - measurements only	ots only			
9/15/2009	:		15.90	17.77	22.04	1.87			not sam	not sampled - measurements only	nts only			
3/25/2009	;		1	12.67	17.56	0.00			not sam	not sampled - measurements only	nts only			
9/14/2009	**		_	12.42	17.6	0.00			not sam	not sampled - measurements only	nts only			
3/25/2009	;		1	11.55	16.03	0.00			not sam	not sampled - measurements only	nts only			
9/14/2009	;		1	11.47	16.28	0.00			not sam	not sampled - measurements only	nts only			l
3/26/2009				10.75	18.75	00.0		4/7/2009	SP	0.618	16.720	7.200	2.070	72
9/15/2009	,		-	12.49	18.82	0.00		9/29/2009	SP	5.340	21.800	7.750	4.160	-172
3/26/2009	3361.34	13 to 23	1	8.76	26.9	00:00	3352.58	4/16/2009	SP	0.372	29.370	7.290	2.330	-232
9/15/2009	3361.34	13 to 23	***	6.64	26.9	0.00	3354.70	9/25/2009	SP	3.370	23.000	8.150	4.190	410
3/26/2009	3362.23	13 to 23	ı	9.58	27.08	0.00	3352.65	4/16/2009	SP	0.422	19.270	6.980	2.200	-360
9/15/2009	3362.23	13 to 23	1	7:57	27.08	0.00	3354.66	9/25/2009	SP	3.790	23.300	8.450	3.940	-486
3/26/2009	3361.45	13 to 23	ſ	8.86	27.17	0.00	3352.59	4/16/2009	SP	0.423	18.760	6.840	1.970	-338
9/15/2009	3361.45	13 to 23	1	6.90	27.18	0.00	3354.55	9/25/2009	SP	3.040	23.480	8.600	4.220	-469
3/26/2009	3363.31	13 to 23	1	9.35	26.17	0.00	3353.96	4/16/2009	SP	0.377	19.600	6.860	2.630	-286
9/15/2009	3363.31	13 to 23	ì	8.97	27.17	0.00	3354.34	9/25/2009	SP	4.360	23.290	13,900	3.390	471
3/26/2009	3361.71	8 to 23	ı	15.69	24.2	0.00	3346.02	4/9/2009	SP	0.401	21.450	7.590	6.730	135
9/16/2009	3361.71	8 to 23		16.01	24.17	0.00	3345.70	10/2/2009	SP	3.620	22.680	7.000	0.120	15
3/26/2009	3369.07	15 to 30	ı	20.65	29.25	0.00	3348.42	4/9/2009	SP	0.252	21.540	7.670	5.850	278
9/16/2009	3369.07	15 to 30	ru	19.88	29.23	0.00	3349.19	10/2/2009	SP	2.190	20.740	7.100	0.460	φ
3/27/2009	3372.84	17 to 37	,	27.51	38.58	0.00	3345.33	4/9/2009	SP	0.309	20.510	7.200	2.870	157
9/14/2009	3372.84	17 to 37		29.14	38.54	00.00	3343.70	10/2/2009	dS	2.810	20.560	6,930	1.100	38

^{-- =} Product not detected
DO = Dissolved oxygen
It = feet
It ams! = Feet above mean sea level
It thoto = Feet below top of casing
LF = low flow sampling methodology
NM = Not measured
NR = Not recorded
NR = Not surveyed
ORP = Oxidation-reduction potential
P = Not Sampled; Well Contained Product
S/m = Seimens per meter
S/m = Seimens per meter
S/m = Seimens per meter

RO System Reject Water Analytical Data Navajo Refinery, Artesia, New Mexico Table 3

											Metals (mg/L)	J/t)										
	<u>.</u>	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper		Lead	Mag ga	Man Molyb ganese denum	Molyb Nickel	cel Potas	Selenium	Silver	Sodium	Vanadium	Zinc
		Wacc	JOM MC	Wacc	MCL	Macc	MCL		WOCC	Wacc	Wacc	Wacc \	Wacc	_	vacc wa	wacc wacc	20	Wacc	WQCC		EPA	Wacc
i		5	0.01	-	0.004	0.75	0.005		0.05	0.05	1	-	0.05		0.2	1 0.2	-	0.05	0.05	-	0.18	10
Reverse	12/27/2004	<0.01	0.00725	0.0669	<0.002	0.071	<0.002	628	<0.005	<0.005	0.00586	<0.2	<0.005	> 861	0.005 0.00	0.00793 <0.005	105 4.11	1 0.01	<0.005	131	0.0104	0.0259
Osmosis	1/16/2007	<0.01	<0.005	0.0638	<0.002	8950.0	<0.002	694	<0.005	200'0>	<0.005	<0.2	<0.005	233 <	<0.005 0.00	0.00744 <0.005	05 4.48	3 0.0095	<0.005	234	0.00991	0.00839
Reject	2/22/2007	<0.01	0.00941	0.0681	<0.002	0.0643	<0.002	735	<0.005	<0.005	<0.005	<0.2	<0.005	246 <	<0.005 0.00	0.00813 <0.005	05 4.49	9 0.00761	<0.005	320	0.0102	0.00734
Water	7/5/2007	0.0168	<0.005	0.0553	<0.002	0.0644	<0.002	900	<0.005	<0.005	<0.005	<0.2	<0.005	176	<0.005 0.00	0.00882 <0.0	<0.005 3.47	7 0.00763	<0.005	167	0.00974	0.00749
	12/14/2007	<0.01	<0.005	0.0704	<0.002	0.0752	<0.002	594	<0.005	<0.005	<0.005	<0.2	<0.005	208 <	<0.005 0.00	0.00952 <0.005	05 4.32	2 0.00793	<0.005	218	0.0104	0.00677
	2/7/2008	<0.01	<0.005	0.0564	<0.002	0.0773	<0.002	548	<0.005	<0.005	<0.005	<0.2	<0.005	179 <	<0.005 0.00	0.00639 <0.005	3.34	4 0.0058	<0.005	506	0.00771	<0.005
	5/22/2008	<0.01	<0.005	0.0602	<0.002	0.0819	<0.002	562	<0.005	<0.005	<0.005	<0.2	<0.005	180 <	<0.005 0.0	0.0073 <0.005	05 3.72	2 0.00877	<0.005	167	0.0116	0.00694
	8/29/2008	<0.01	<0.005	0.0783	<0.002	0.0896	<0.002	786	<0.005	<0.005	<0.005	<0.2	<0.005	247	<0.005 0.0	0.0108 < 0.005	05 4.68	3 0.00658	<0.005	152	0.0106	0.00657
	12/4/2008	NA	<0.005	0.0759	NA	NA	<0.002	NA	<0.005	ΝA	ΝA	۸A	<0.005	NA	NA	NA	۸N	0.00942	<0.005	NA	NA	NA
	2/23/2009	<0.01	<0.00.0>	0.0611	<0.002	0.0786	<0.002	869	<0.005	<0.005	<0.005	<0.2	<0.005	215 <	<0.005 0.00	0.00976 <0.005	05 4.14	4 0.00893	<0.005	192	0.0107	<0.005
	5/7/2009	<0.05	<0.025	0.074	<0.01	<0.1	<0.01	969	<0.025	<0.025	<0.025	۲ ۲	<0.025	198 <	<0.025 <0.	<0.025 <0.025	125 4	<0.025	<0.025	224	<0.025	<0.025
	8/25/2009	NA	<0.005	0.0751	ΝA	NA	<0.002	NA	<0.005	NA	AN	AN	<0.005	ΑN	NA	NA NA	۸N	0.0082	<0.005	NA.	NA	NA
	11/9/2009	NA	<0.005	0.0816	<0.002	<0.005	<0.002	NA	<0.005	NA	NA	NA	<0.005	ΝA	NA	NA NA	۸N	0.00702	<0.005	NA	NA	NA

		Total Alkalinity	•	1	622	699	638	520	982	575	296	869	819	691	664	729	787
		Sulfate	wacc	900	1660	2160	1920	1560	1910	1540	1530	1980	1810	1740	1740	1870	2040
	Anions (mg/L)	Nitrate/Nitrite as Nitrogen*	Wacc	1	1.78	NA	1,56	1.86	0.58	0.928	NA	NA	ΝΑ	NA	NA	NA	NA
	Anion	Flu	WQCC	1.6	3.16	3.98	38′€	2.91	3.46	417 2.55	2:82	3.98	3.76	3.17	88.7	3.62	525 3.92
		Chloride	Wacc	250	233	515	£83	328	464	417	293	241	307	325	392	461	525
Semi Volatiles	(µg/L)	Naph thalene	Wacc	30	<10	NA	<5	<5>	<5	<5	<5	<5	<5	NA	NA	NA	NA
		Xylenes	Wacc	620	<10	NA	<15	<15	<15	<15	<15	<15	<15	NA	NA	NA	NA
	Volatiles (µg/L)	Tetrachloro ethene	MCL	5	5>	NA	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA
	Volatile	Ethyl benzene	MCL	700	<5	AN	<5	<5	<5	<5	<5>	<5	<5	NA	NA	NA	NA
		Benzene	MCL	5	<5	NA	<5	<5	<5	<5	<5	\$	<5	NA	NA	NA	NA
		į	ege Cage		12/27/2004	1/16/2007	2/22/2007	7/5/2007	12/14/2007	2/7/2008	5/22/2008	8/29/2008	12/4/2008	2/23/2009	5/7/2009	8/25/2009	11/9/2009
					Reverse	Osmosis	Reject	Water									

Table 1 Footnotes and Definitions

3.16 Concentration shown exceeds the groundwater standard

Abbreviations:

MACL = Micrograms per liter

wMCD

WACL = Micrograms per liter

WMCD

WA = Not analyzed

Laboratory Qualifiers:

Jack Analyzed outside of hold time

H = Analyzed outside of hold time

"" = Laboratory reported Nitrate/Nitrite (as N): the lower of the two MCLs of 1 µg/L used given Nitrite (as N) MCL of 1 µg/L and Nitrate (as N) MCL of 10 µg/L

Groundwater Standards

"... = No standard available
MCL = Maximum Contaminant Level from the National Primary Drinking Water Standards
MMED SSL = New Mexico Environment Department Soil Screening Level Tap Water Standard
NMED TSPH = New Mexico Environment Department Total Petroleum Hydrocarbon Standards. October 2006
WQCC = Water Quality Control Commission; standard for groundwater from NMAC 20.6.2.3103

• First Sampling Event (March to April 2009)

- o Wells not sampled due to the presence of PSH included MW-39, MW-48, MW-64, MW-65, MW-85, MW-86, MW-94, MW-97, MW-100, MW-102, MW-105, KWB-2R, KWB-4. KWB-5, KWB-6, KWB-8.
- o MW-2A was sampled twice during this event. The data has been included for both sampling events.
- o Well MW-46 was not sampled because it had been damaged: and
- o NP-7 was not sampled because the well has been destroyed.
- o MW-63 was not sampled because the area was inaccessible due to the temporary storage of heavy equipment.
- o KWB-12A was not sampled because the well was dry.
- o Irrigation wells RA 313, RA 314, RA 3353 and RA 3723 were not sampled because the irrigation pumps had been removed or disconnected.
- o Due to laboratory sample login error, samples from the following wells were not analyzed for mercury by EPA method SW 7470: MW-4A, MW-10, MW-15, MW-22A, MW-25, MW-52, MW-53, MW-54A, MW-58, MW-88, KWB-1A, KWB-1C, KWB-7, KWB-9, KWB-11A, NP-5, NP-6, NCL-49, and RW-18.
- o Samples collected from MW-67 and MW-89 were not analyzed for GRO.
- o The laboratory did not report calcium for the sample collected from MW-10.
- o MW-71, MW-106, and MW-107 were not sampled because the field staff believed that these wells were only supposed to be gauged during this sampling event.
- o Field measurements were not collected for MW-103 and MW-104.

• Second Sampling Event (September to October 2009)

- o Wells not sampled due to the presence of PSH included MW-39, MW-48, MW-64, MW-65, MW-85, MW-86, MW-94, MW-97, MW-100, MW-102, MW-105, KWB-2R, KWB-4. KWB-5, KWB-6 and KWB-8.
- o Well MW-46 was not sampled because it had been damaged: and

- o NP-7 was not sampled because it had been destroyed.
- o MW-49 was not sampled due to a miscommunication between the field staff and the project managers because the field staff believed that MW-49 was only supposed to be sampled during the first sampling event.
- o MW-71 was not sampled because the field staff believed that it was only supposed to be gauged.
- o MW-63 was not sampled because the area was inaccessible due to the temporary storage of heavy equipment.
- o KWB-P2 was not sampled because the well was dry.
- o The three upgradient wells (UG-1, UG-2, and UG-3R) were not sampled for the RCRA 8 metals.
- o Irrigation wells RA 314, RA 3353 and RA 3723 were not sampled because the irrigation pumps had been removed or disconnected.
 - o The sample from OCD-1R was inadvertently labeled as OCD-1. The identification was corrected for tables and figures included in this report.
- o Groundwater Quality Parameters were not collected for the following wells because the water quality multiparameter meter was broken: MW-52, MW-58, KWB-9, KWB-10, KWB-12A, NP-1, and NP-2.

Corrective measures have been implemented with the laboratory to ensure that samples are properly logged in for all requested analyses and that all requested analyses are reported.

The following conclusions are based on the information obtained in 2009:

In general, the 2009 groundwater monitoring program was completed according to the provisions of the Workplan. Minor exceptions to the planned monitoring occurred, but do not significantly alter the effectiveness of the monitoring program. A map of monitor well locations is included in Figure 2. The following conclusions are based upon the information obtained in 2009:

Groundwater flow direction and gradient remains consistent with that measured in past years. (Figures 3 and 4)

Summary of Recovery Trench Production Table 4

Navajo Refinery, Artesia, New Mexico

358,797 2,291,577	358,797	61,402	1,327,563	543,815	286,674	45,888	6,875	153,882	80,029	TOTAL
ω	0	0	ω	0	29	0	2	27	0	KWB-8
61	ω	0	58	0	546	25	0	521	0	Chase ²
O.	0	0	0	0	0	0	0	0	0	RW-18
0	0	0	0	0	0	0	0	0	0	RW-17
0	0	0	0	0	0	0	0	0	0	RW-16
508	23	0	413	72	4,575	204	ယ	3,717	651	RW-151
0	0	0	0	0	0	0	0	0	0	RW-14
1,120	344	→	241	534	10,079	3,095	9	2,169	4,806	RW-13
0			0	0	13,024	0	0	0	13,024	RW-12
285	216		2	63	2,567	1,940	40	20	567	RW-11
0	0	0	0	0	0	0	0	0	0	RW-10
	0	0	0	0	0	0	0	0	0	RW-9
205,763	156,596	3,263	1,018	44,886	22,863	17,400	363	113	4,987	RW-8
	0	0	0	0	0	0	0	0	0	RW-7
164	92	0	0	71	1,472	832	0	0	640	RW-6*
252,587	34,637	2,621	175,250	40,080	28,065	3,849	291	19,472	4,453	RW-5*
324	27	297	0	0	36	ب	33	0	0	RW-4*
0	0	0	0	0	0	0	0	0	0	RW-3
224,370	51,597	27,675	78,543	66,555	24,930	5,733	3,075	8,727	7,395	RW-2
1,606,392	115,263	27,540	1,072,035	391,554	178,488	12,807	3,060	119,115	43,506	RW-1
Total 2009	4th Qtr	3rd Qtr 4	2nd Qtr	1st Qtr	Total 2009	th Qtr	3rd Qtr 4		1st Qtr 2	
		(gallo					gallons)			
	vered	of Water Recovered	Volume		d	Recovere	ydrocarbons Recovered	Volume of Hyc	Vo	

Formerly noted as "Toolpushers"
 Dewatering sump located at Chase's pecan farm east of Bolton Road operated as needed.
 Qtr = Quarter

^{*} Single pump well, total fluids pumped to tank for oil/water separation.

PSH was encountered in MW-1 05, which is one of the four wells installed in 2009. The extent of PSH in other areas was consistent with the extent of PSH reported in 2008. (Figures 5 and 6)

Concentrations of organic constituents have generally declined.

Operation of the recovery trench system has been improved (Table 4). Methods for improving the recovery system operation continue to be explored and implemented.

As a result of the above conclusions, Navajo will continue to operate the existing recovery trench system. Bi-weekly gauging and pumping of observed product in the recovery trench wells and monthly inspections and bailing of monitor wells known to contain product is believed to be sufficient to control the movement of PSH until a more comprehensive plan for mitigation is developed and approved by NMED.

Navajo submitted an updated Groundwater Monitoring Plan for 2010 (January 2010) that will be implemented for monitoring activities in 2010. This plan served to revise and update the 2006 Groundwater Monitoring Plan to include the monitor wells that have been installed since 2006, revises the sampling schedule for selected wells, and clarifies the analytical suite for all wells included in the monitoring program.

A summary of the 2009 **Groundwater Monitoring Program Analytical Results** is included in Table 1. Also included in Table 2, is the **Summary of Field Observations 2009**. Table 3 contains RO System Reject Water Analytical Data, Table 4 contains a Summary of Recovery Trench Production, and finally, Table 5 contains a Summary of Recovery Wells Product Recovery.

For a more detailed review of the sampling and monitoring events, please see the 2009 Annual Groundwater Report that was sent to OCD on February 26, 2010.

SUMMARY OF SUMP AND UNDERGROUND WATER LINES TESTED

As part of Navajo's Discharge Permit, we are required to test all sumps and underground process/wastewater lines. It is Navajo's policy to fill the sump or line with water, mark a level, and then wait 4 hours and note any drop in water level.

Enclosed, are two spread sheets, titled **Table 6 NAVAJO REFINING COMPANY SEWER TESTING** and **Table 7 NAVAJO REFINING COMPANY LISTING OF ALL SUMPS** respectively. These spreadsheets detail test date, test method, pass/fail, tested by, and any repairs that were needed or made to the applicable sump or sewer. These spreadsheets are just the summary of the testing we do. The actual test pages, sign off sheets, etc. are kept in a file at the refinery for inspection by OCD as our permit requires.

OUT.OF SERVICE TO THE TOTAL TO THE TOTAL T		HYDRO/LEVEL CHECK	GILES, INC.	PASS	10/28/2012	10/29/2007	2'-8" x 2'-8" x 2'-0" D	CONCRETE BOX	44SUMP16 H-21 PUMP OUT SUMP (NW CORNER OF CURRED AREA AT H-21)	42 - 446
OUT OF SERVICE					N/A	N/A	10'-0" x 8'-0" x 6'-6" D	CONCRETE BOX	43SUMP02 WESTEND OF S.P. ALKY C.T. Y-2 (SOUTH)	438
5. 5. 7. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.					NA	N/A	6'-0" x 8'-0" x 6'-6" D	CONCRETE BOX	1000	430
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	10/28/2012	10/29/2007	1'.6" x 1'.6" x 15" D	CONCRETE BOX	21SUMP02 EAST OF X-407 ON BRADLEY BLVD	41 218
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	10/26/2012	10/29/2007	2'-6' x 2'-6" x 2'-6" D	CONCRETE BOX		40 218
REPAIRED WITH CONCRETE PATCH		HYDRO/LEVEL CHECK	GILES, INC.	PASS	11/2/2012	11/3/2007	4'-0" x 4'-0" x 3' D	CONCRETE BOX	10SUMP04 FLUE GAS SCRUBBER - FCCU	39 105
		HYDRO/LEVEL CHECK	GILES, INC.	FAIL		10/25/2007	4'-0" x 4'-0" x 3' D	CONCRETE BOX	10SUMP04 FLUE GAS SCRUBBER - FCCU	39 108
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	10/24/2012	10/25/2007	4'-0" x 4'-0" x 4' D	CONCRETE BOX		╀
LOCATED IN NORTH PLANT NW OF OLD COMFORT STATION					Replace as regid	N/A	NiA	1/2 - 55 GALLON STEEL DRUM	10SUMP02 SLURRY BARREL @ NORTH PLANT SOUTH OF X-245	37 108
LOCATED IN NORTH PLANT NW OF OLD COMFORT STATION					Replace as regid	N/A	NIA	1/2 - 55 GALLON STEEL DRUM	╫	+
REPAIRED WITH CONCRETE PATCH		HYDRO/LEVEL CHECK	GILES INC.	PASS	10/26/2012	10/27/2007	4'-0" x 4'-0" x 3' D	CONCRETE BOX	+	╀
		HYDROALEVEL CHECK	GILES, INC.	FAIL		10/25/2007	4'-0" x 4'-0" x 3' D	CONCRETE BOX	09SUMP01 FLUORIDE PRECIPITATOR	╄
New installation in June 2009					6/1/2014		7'x11'x8'D	CONCRETE BOX	+-	+
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	12/5/2013	.12/5/2008	5' x 4'	METAL BOX	+-	+
		HYDROXLEVEL CHECK	GILES, INC.	PASS	12/5/2013	12/5/2008	5; ×4.	METAL BOX	+-	-
		HYURO/LEVEL CHECK	GILES, INC.	PASS	12/5/2013	12/5/2008	6' × 4'	METAL BOX		+
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	12/5/2013	12/5/2008	5 × 3 × 3	WE LAL BOX	- -	- -
		HYDROLEVEL CHECK	GILES, INC.	PASS	12/5/2013	12/5/2008	5 × 4 × 8	MEIALBOX	-	+
ACT MARKED ON ACT BOOK		HYDROLEVEL CHECK	GILES, INC.	PASS	1/15/2014	1/15/2009	5 × 3 × 3	MEIALBOX	-	+
		HYDRO/LEVEL CHECK	GILES, INC.	FAIL		12/8/2008	5' x 3' x 3'	METAL BOX		08
OUT OF SERVICE					N/A	WA	N/A	U/G STEEL TANK	- 800	- 08
		HYDRO/LEVEL CHECK	GILES, INC	PASS	8/31/2014		5' x 8'-6" x 6'	CONCRETE BOX	SOUTH ASPHALT LOADING RACK	8
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/31/2014	8/31/2009	6' x 8' x 7'-6"	CONCRETE BOX	╁	08
HOLLY ENERGY PARTNERS		HYDROALEVEL CHECK	GILES, INC.	PASS	8/27/2014	8/27/2009	6' DIAMETER x 4' DEEP	U/G STEEL TANK	╁	08
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/27/2014	8/27/2009	NA	U/G STEEL TANK	+-	08
HOLLY ENERGY PARTNERS		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/2/2013	9/2/2008	2'x2'-6" x2'	CONCRETE BOX		08
HOLLY ENERGY PARTNERS		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/21/2013	9/21/2008	2' x 2'-6" x 2'	CONCRETE BOX	+	08
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/17/2014	8/17/2009	N/A	U/G STEEL TANK	+	08
		HYUROILEVEL CHECK	GILES, INC.	PASS	8/27/2014	8/27/2009	N/A	U/G SIEEL TANK	+-	08
OUTOFISERVICE				2	N/A	N/A	20 × 40 × 3	CONCRETE BOX	100	, Co
COLOT SERVICE, REMOVED BY ENG. PROJECTS JAN. 2008						N/A	20 x 40 x 3	CONCRETE BOX	YEARING UKAWATIL A 1437 I PAIX	
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/20/2009	9/20/2004	4 × 4 × 4	CONCRETE BOX	DBSUMP21 ASPHALT RACK SOUTH OF 433 TANK	80
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/27/2013	8/27/2008	3' × 3' × 3'	CONCRETE BOX		\perp
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/21/2014	8/21/2009	3' × 3' × 3'	CONCRETE BOX	_	+
		HYURO/LEVEL CHECK	GILES, INC.	PASS	8/21/2014	8/21/2009	8' x 6' x 6' DEEP	CONCRETE BOX		+
		HYDROALEVEL CHECK	GILES, INC.	PASS	8/21/2014	8/21/2009	3 x 3 x 4	CONCRETE BOX		-
		HIURO/LEVEL CHECK	GILES, INC.	PASS	21/2/14	6/2/1/2/09	0 × 8 × 6	CONCRETE BOX		-
NORTH OF BLENDER BUILDING		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/27/2013	8/27/2008	2 4 × 4 × 4	CONCRETE BOX		08
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	3/35,4/2/2011	1/2/2006	8-0 ×4-0 ×3-9 D	CONCRETE BOX	+	4
OO FOR SERVICE		סיי בייבו כי	CILES INC	7000	10001	ANN	0° 0° 4° 0° 1° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	100000000000000000000000000000000000000	WATER DRAW BIT AT FACT CIDE OF BAC TANK	3
OUTOF SERVICE					N/A	N/A	9'x7'x5		OBSUMP12: SLURRY SUNCER SLUDGE PIT	2 8
OUT OF SERVICE					NIA	N/A	9' x 7' x 5	STEEL BOX		80
	7 7 7	HYDRO/LEVEL CHECK	GILES, INC	PASS	8/21/2014	8/21/2009	9-8" x 5-8" x 2-6"	CONCRETE BOX	WATER DRAW PIT EAST SIDE OF 835 TANK	11 08
LOCATED IN NE CORNER OF DIKE - OUT OF SERVICE					NIA	NIA	18'x 9'x 2'	CONCRETE BOX		08
Constitution of the consti		HYDRO/LEVEL CHECK	GILES, INC.	PASS	2/14/2010	2/14/2005	NIA	U/G STEEL TANK	~+	10 08
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/21/2014	8/21/2009	N/A	55 GALLON STEEL DRUM	08SUMP07 WATER DRAW NORTH SIDE OF 834 TANK	9 08
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/18/2014	8/18/2009	3' x 3' x 3'	CONCRETE BOX	08SUMP06 P-139 EAST OF CBO RACK	08
		HYDROMEVEL CHECK	GILES, INC.	PASS	8/18/2014	8/18/2009	8' x 6' x 8'	CONCRETE BOX	08SUMP05 CBO BETWEEN TRUCK RACK & RAILROAD (SOUTH)	08
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/18/2014	8/18/2009	8' x 6' x 8'	CONCRETE BOX	+	08
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/18/2014	8/18/2009	2' x 2' x 2'	STEEL BOX	08SUMP03 SPILL COLLECTION BOX AT CBO RR RACK (SOUTH)	8
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/18/2014	8/18/2009	2' x 2' x 2'	STEEL BOX	08SUMP02 SPILL COLLECTION BOX AT CBO RR RACK (NORTH)	8
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/25/2013	8/25/2008	7-6" L x 4'-6" W x 3'-0" D	CONCRETE BOX	08SUMP01 UNLOADING RACK SOUTH OF 400 TANK	08
					6/1/2010	6/1/2005	2'-6" x 2'-6" x 15" D	CONCRETE BOX	02SUMP02 UNDER H-19	02
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/18/2014	8/18/2009	2'-0' x 2'-0" x 3'-0" D	CONCRETE BOX	01 UNDER H-20	-
THOD COMMENT	METHOD	METHOD	84	PASS / FAIL	TEST DUE	TEST DATE	DIMENSIONS	DESCRIPTION	ID# LOCATION	SUMPS
AFRIC 9, 2010	200	7207	120150	-	ABLE				STIND SEE SOUR STICKEN ON DISAMING 32-5-35-0-01	7
2001 0 3040				OF ALL SUMPS						
				SIA REFINERY	ARTESIA F					
				NAVAJO RETINING COMPANY	NAVAJO ZETIZ					

					1				-		_	
					Test in 2010							Т
											_	_
THIS SUMP WILL BECOME PSB WHEN NEW H2 UNIT IS BUILT					6/1/2010^	6/1/2005	3'-0" x 3'-0" x 4'-3" D	CONCRETE BOX	NORTHSIDE OF HYDROGEN UNIT	63SUMP01	57	ì
"NEW ADDITION" REQUIRES ADDED TO DRAWING					2012	NEW 10/07		CONCRETE BOX	CHEMICAL STORAGE AREA, NORTH OF WAREHOUSE "WEST"	46SUMP17	56	ı
"NEW ADDITION" REQUIRES ADDED TO DRAWING					2012	NEW 10/07		CONCRETE BOX	CHEMICAL STORAGE AREA, NORTH OF WAREHOUSE "EAST"	46SUMP16	55	I
					2010		4' x 4' x 4' (approx)	CONCRETE BOX	SAMPLE SUMP NORTH OF LAB	46SUMP15	54	т
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/4/2013	9/4/2008	5' x 5' x 5'	CONCRETE BOX	NORTH OF INSTRUMENT SHOP	46SUMP13	53	
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/5/2013	9/5/2008	N/A	U/G STEEL TANK	NW CORNER OF ELECTRICAL SHOP	46SUMP12	52	T
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/16/2014	9/16/2009	3' x 3' x 3'	CONCRETE BOX	EAST OF MECHANIC SHOP	46SUMP11	51	
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/4/2013	9/4/2008	4" x 2'-9" x 3'	CONCRETE BOX	EAST OF MECHANIC SHOP	46SUMP10	50	Т
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/16/2014	9/16/2009	3' x 3' x 3'	CONCRETE BOX	CHEMICAL PAD WEST END OF #2 YARD	46SUMP09	49	1
NOT A SUMP - BOX TIED TO SEWER LINE (SEE SEWER DWGS)			GILES INC	PASS	7/13/2009	7/13/2004	50' x 3' x 3'-6"	CONCRETE BOX W/ BAFFLE		46SUMP08		[58]
				PASS	8/28/2013	8/28/2008		FIBERGLASS	UNLEADED GASOLINE STORAGE TK SOUTH OF WELDING SHOP	46SUMP07	48	1
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/28/2013	8/28/2008	7'-6" x 6'-6" x 1'-6"	FIBERGLASS	HYDRAULIC FLUID CONTAINMENT SOUTH OF #2 WAREHOUSE	46SUMP06	47	ī
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	8/28/2013	8/28/2008	16' x 8' x 1'-9"	FIBERGLASS	DIESEL STORAGE TANK SOUTH OF #2 WAREHOUSE	46SUMP05	46	Τ-
NOT A SUMP - BOX TIED TO SEWER LINE (SEE SEWER DWGS):			GILES, INC.	PASS	7/14/2009	40	50' x 3' x 3'-6"	CONCRETE BOX:W/ BAFFLE 50: x 3:x 3:61	46SUMP04 NP:BUNDLE:SEAB CATCH BASIN	46SUMP04		(88)
			GILES, INC.		9/7/2014	9/7/2009	10' x 8' x 1'-9"	FIBERGLASS	DIESEL STORAGE TANK AT MULCOCK WELL GENERATOR	46SUMP03	45	
		HYDRO/LEVEL CHECK	GILES, INC.	FAIL		9/3/2009	10' x 8' x 1'-9"	FIBERGLASS	DIESEL STORAGE TANK AT MULCOCK WELL GENERATOR	46SUMP03	45	
		HYDRO/LEVEL CHECK	GILES, INC.	PASS	9/4/2014	9/4/2009	3' x 3' x 2'-6"	CONCRETE BOX	SE CORNER OF TRUCKING YARD	46SUMP02	44	_
COMMENT	METHOD	METHOD	ВҮ	PASS / FAIL	TEST DUE	TEST DATE	DIMENSIONS	DESCRIPTION	LOCATION	ID#	SUMPS	(O
	REPAIR	TEST	TESTED	TEST	NEXT	LAST	APPROX			SUMP	NO. OF	7
APRIL 9, 2010					TABLE 5	!			ALL SUMPS SHOWN ON DRAWING 55-Z-32-D-01	#7	REVISION #7	I-
				F ALL SUMPS	LISTING OF							_
				REFINERY	ARTESIA F							
				ING COMPANY	NAVAJO REFINING COMPANY							_
				2000								_

SUMMARY OF SPILLS, RELEASES and FIRES

Reportable spills, releases and fires numbered twenty-one (21) during 2009. Hydrocarbon spills, of which there were four (4) accounted for a total of 515 barrels of hydrocarbons spilled with 260 of those barrels recovered by vacuum truck. All documents associated with Spills, releases and Fires are found in Appendix 1. They are as follows:

- 1) On March 25, 2009, A Relief Valve (RV) malfunctioned and released an estimated 30 barrels of crude oil under pressure into the atmosphere as vapor. The wind was blowing towards the south and there was a very slight film of hydrocarbon on cars parked across from the refinery. These cars were cleaned up at refinery expense. There was no other visible contamination in the area. The value of 30 barrels lost was based on a calculation using pressure and estimated time the valve malfunctioned and, based on the observed impacts, is probably exceedingly high. There were no bottom hole samples because there was no visible contamination. The C-141 for this release is included in Appendix 1.
- 2) On May 8, 2009, the belly valve on a railcar holding fuel oil released due to mechanical failure and dumped 434 barrels of fuel oil in the area of the PG Rack. 217 barrels were recovered by vacuum truck and 37 loads of contaminated soil were picked up and disposed at CRI. Getting between the rails on the railroad proved impossible and a report titled "Delineation Report/Workplan Navajo Refining Company PG Loading Rack" was submitted to OCD and NMED on June 24, 2009. Since waste was left in place, the PG Loading Rack was added to the SWMU list of Navajo's Post Closure Permit and corrective action will be addressed under 40 CFR 264.101 in accordance with that permit. The C-141, waste manifests and the report mentioned above are included in Appendix 1.
- 3) On December 17, 2009, a diesel release was discovered near the Tank 834 sump. The spill remained within the dike of Tk 834. An estimated 45 barrels was spilled and 40 barrels were vacuumed up using Navajo's vacuum truck. The spill was dug up and disposed at CRI. The associated waste manifests and C-141 are included in Appendix 1.
- 4) On December 23, 2009 a mist/spray diesel release was discovered coming from a flange on a pig trap at the 12" Four Corners pipeline in the refinery. The pipeline was shut down and the gasket replaced. It was raining at the time and an estimated 5-7 barrels of diesel were released. Navajo's vacuum truck was called and picked up 5 barrels of a mixture of diesel and rain water. The C-141is included in Appendix 1.

In 2009, Navajo also had seven (8) other spills. They are as follows:

- 1) On February 1, 2009, during turn-around a section of sewer was bypassed for work related projects. This section was "pumped around" using a diaphragm pump. The pump failed and allowed water to back up and overflow. 50 barrels of water was released and 35 barrels were recovered by the vacuum truck. Contaminated soil was removed and disposed at CRI. The C-141 is included in Appendix 1.
- 2) On May 5, 2009, while cleaning TK-63 (Slurry Tank) Navajo's vacuum truck rolled back into a FRAC tank that held the listed waste K170. When the truck hit the manifold on the FRAC tank, it broke the valve on the tank and spilled the contents of the FRAC tank. 290 barrels of material was lost inside a diked area. The vacuum truck picked up 230 barrels of material. Contaminated soil was removed and shipped as hazardous waste and those manifests are included in Appendix 1. There are no bottom hole samples because this spill is in an area of the plant that has had historical spills and as we dug down to clean THIS spill it was obvious that we werent going to be able to get to clean soil. The C-141 and accociated documents are included in Appendix 1.
- 3) On May 11, 2009, while still cleaning TK-63 (Slurry Tank) a manhole on the north side of the tank was opened and spilled 45 barrels of sludge. 38 barrels were picked up by vacuum truck. In addition, contaminated soil was removed and disposed as hazardous waste. As with the spill above in the same area of the plant, while digging up the obvious soil from THIS spill, it was clear that we were digging in historical spills and we wouldn't be able to get clean bottom hole samples. The C-141 and associated documents for this spill are included in Appendix 1.
- 4) On June 18, 2009, as a result of a sewer back-up, 15 barrels of process wastewater was released in the North Plant around D-80. The spill collected near the sewer inlet and some ran down into the diversion ditch that Navajo installed to keep anything from the plant out of Eagle Draw. A vacuum truck recovered 10 barrels of oily water and put it back into the sewer system. Contaminated soil was dug up and disposed. The C-141 and associated documents are included in Appendix 1.
- 5) On October 8, 2009, as a result of a sewer back up at the South Bundle Pad, the sewers ran over and spilled 50 barrels of oily wastewater that ran down Chisum Street. The vacuum truck recovered 40 barrels and put the oily wastewater back into the sewer downstream. Contaminated soil was dug up and disposed. The C-141 and associated documents are included in Appendix 1.

- 6) On October 13, 2009, as a result of sewers running slow, 10 barrels of process wastewater were released near the North Plant Flare Drum. A vacuum truck recovered 8 barrels and reinserted it into the sewers downstream. A C-141 and associated documents are included in Appendix 1.
- 7) On October 25, 2009, a flex line connected to Tk-437 split open and spilled wastewater that was being pumped into the tank to provide capacity during a fall-off test for one of Navajo's injection wells.120 barrels were spills and 100 barrels were recovered using a vacuum truck. The spill was contained within the diked area of Tk 437. A C-141 and associated documents are included in Appendix 1.
- 8) On November 11, 2009, an historical mercury spill was discovered during construction activities in the South Plant. Navajo hired Safety and Environmental Solutions to clean up the mercury. The contaminated dirt was drummed up and disposed and bottom samples collected. The C-141 and associated documents are included in Appendix 1.

In 2009, Navajo had ten (10) fires that were reported to OCD. All C-141's for these incidents are included in Appendix 1. They were as follows:

- 1) On January 26, 2009, the North Plant Flare "burped" hydrocarbon and started a small grass fire that was put out immediately by Navajo personnel. There were no injuries and no clean up actions needed.
- 2) On February 25, 2009, during start up after turn around, two unions on a gas line to the Crude Charge Heater had not been tightened. The leaking gas ignited. The fire was put out immediately and no one was injured.
- 3) On April 21, 2009, while cutting a manway into TK 409 a fire started inside the tank and ignited causing an explosion that blew a hole in the roof of the tank. The fire was extinguished by Navajo's Fire Department and there were no injuries. Navajo's SOP will be to cut future manways using water. The tank has not been replaced or torn down.
- 4) On May 21, 2009, a seal failure in the AGO pump in the South Crude Unit caused a fire that was extinguished immediately. Some nearby scaffolding caught fire also but there were no injuries. The seal on the pump was fixed on May 21, 2009. No clean up needed.
- 5) On July 22, 2009, a fire in the FCC Unit caused by a gasket leak in an exchanger. The fire was put out immediately and there were no injuries. Some insulation was burned and had to be replaced. No cleanup needed.

- 6) On August 18, 2009, a fire from a leaking gasket on an exchanger in the Hydrogen Unit. The gasket was replaced and there were no injuries and no damage except to insulation. No cleanup needed.
 - 7) On November 5, 2009, a fire in the CCR Unit at Heater 363. A braided hose caught fire and was extinguished immediately. The braided hose was replaced. There were no injuries from this fire. No clean up was needed.
 - 8) On December 20, 2009, a pump seal failed on a pump near TK-433 and gas oil caught fire. The leaked gas oil stayed within the secondary containment of the pump. The fire was extinguished immediately and no one was injured in the fire. No clean up was needed.
 - 9) On December 22, 2009, a fire on the inlet reactor flange in the CCR Unit. A contractor was installing a clamp on the reactor flange trying to stop a hydrogen leak. The hydrogen temperature was about 900 degree F and the hydrogen auto ignited. The fire was extinguished using hand held fire extinguishers. There were no injuries and no clean-up was needed.
 - 10) On December 31, 2009, a hydrogen fire in the CCR Unit. Contractors were replacing piping on a hydrogen line. While they were grinding, a spark ignited a hydrogen leak from a blind flange that was not completely tight. The fire was extinguished using hand-held extinguishers. The flange was tightened and the leak stopped. There were no damages and no injuries. No clean up was required.

SUMMARY OF NEW GROUNDWATER CONTAMINATION

In 2009, Navajo found no new groundwater contamination and, in fact, the areas where we have plumes, the plumes have decreased in size and thickness. In the North Colony Landfarm area, no measurable phase separated hydrocarbons (PSH) are found anymore. The PSH in the Tetra Ethyl Lead (TEL) area have been reduced to a sheen. In the southeastern part of the refinery, plume thickness has been decreased significantly.

In November 2008, Navajo hired an employee whose sole job is to maintain recovery wells, bail wells that have PSH, and keep records of those activities. This more aggressive approach to removing PSH should show up in future reports as reduced PSH overall. For the year of 2009, we recovered a total of 162 gallons of product from wells with PSH (Table 5). We are looking into more efficient methods of removing this product.

In Table 4, are the summaries of the production of hydrocarbons from our Recovery Trenches and the results of our bailing of monitor wells with PSH are summarized in Table 5.

Table 5
Summary of Recovery Wells Product Recovery

Navajo Refinery, Artesia, New Mexico

,	V	olume of H	•	ns Recover	ed
			(gallons)		
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total 2009
KWB-2R	0	0	0	0	0
KWB-4	25	12	11	4	51
KWB-6	7	6	3	1	16
MW-64	0	1	2	2	5
MW-65	1	5	1	0	7
MW-85	1	2	1	3	7
MW-86	2	2	1	4	8
MW-94	10	11	5	5	31
MW-97	6	3	6	0	15
MW-100	0	0	0	0	0
MW-102	9	6	7	0	22
Chase ¹	0	0	0	3	3
TOTAL	59	47	36	20	162

Dewatering sump located at Chase's pecan farm east of Bolton Road operated as needed.
Qtr = Quarter

SUMMARY OF EPA/NMED RCRA ACTIVITY

As OCD is aware, Navajo is in the process of investigating numerous areas of the refinery and outlying areas as part of our post-closure permit with NMED. During 2009, we performed several investigations and submitted several reports as follows:

· marking frames a

Revised Three-Mile Ditch Additional Corrective Action Investigation Report

This report, required by NMED and submitted on January 30, 2009, asked Navajo to conduct additional field investigations of Three Mile Ditch (TMD) to better define soil and groundwater impacts that were documented during the TMD Corrective Action Investigation and remove impacted soils that could potentially be leaching organic and inorganic constituents to groundwater.

About 13,500 cubic yards of soil was excavated and disposed at CRI. Sampling results and manifests are included with this report.

Evaporation Ponds Additional Corrective Action Investigation Report

This report, required by NMED, summarizes the activities completed according to the approved *Evaporation Ponds Corrective Action Work Plan* that was approved by NMED on October 2006. The focus of this report was to better define soil and groundwater impacts documented during the 2005 Corrective Action Investigation. The following conclusions were made based on the data obtained:

Total Petroleum Hydrocarbons, Diesel Range Organics, arsenic, chromium, mercury and selenium impacts are present in the shallow soils beneath the Evaporation Ponds at concentrations exceeding regulatory screening standards.

Depth to groundwater ranges from six feet to ten feet and the gradient is to the east-northeast.

The general water chemistry parameter total dissolved solids (TDS) is elevated in all wells, but may be naturally occurring.

No phase separated hydrocarbons (PSH) were encountered in groundwater beneath the ponds during the investigation but subsequent monitoring events have shown the presence of PSH in MW-85 and MW-86.

Dissolved phase groundwater impacts include TPH DRO, benzene, arsenic and selenium.

The inactive ponds are, in some areas, impacting groundwater above a level of concern and thus corrective action will be required.

A closure plan will need to be submitted in the near future.

Area of Concern (AOC) Group 2 Corrective Action Investigation Report

This report, required by NMED was submitted in April 2009. As required by the Permit and NMED, the *AOC Group 2 Corrective Action Investigation Work Plan* (Workplan) was submitted in May 2007. The approved Workplan provided a detailed description of activities to be conducted at the each of the four areas included in Group 2:

• Old API Separator (Group 2 AOC1, Permit SWMU 16): this area is located immediately south of the southwestern end of the Southeast Tank Farm Area and formerly contained an API separation unit. The separator is no longer present and Tank 136 has been placed in the area.

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- South API Separator (Group 2 AOC2, Permit SWMU 19): this area is located in the central portion of the Refinery and also within the boundaries of the Southeast Tank Farm. The API separator that was located in this area has been removed from service.
- Southwest Tank Farm (Group 2 AOC3, Permit AOC 4): this area is located in the southwest corner of the refinery and contains nine active storage tanks of varying capacities.
- Crude Tank Farm (Group 2 AOC4, Permit AOC 5): this tank farm formerly contained two crude storage tanks (437 and 439) inside a bermed area located in the center of the refinery. The eastern tank was removed from service and the berms removed from the area to allow for construction of a new hydrocracker unit and a new Rose unit in 2008. The western tank remains in service.

An Amendment to the Workplan was submitted in February 2009 requesting a change from active soil gas sample collection procedures using a geoprobe rig to passive soil gas sample collection.

The scope of services actually performed included the following:

- Old API Separator:
 - Four passive soil vapor sample modules were placed at the four corners of the area. However, only 3 sample modules were retrieved and thus 3 soil vapor samples were collected in this area.
 - Two soil samples were collected from soil boring AOC1-SB1, which was installed near the center of the area.
 - Phase-separated hydrocarbon (PSH) was encountered during the drilling of AOC1-SB1 and the planned temporary well was not installed. A

sample of the PSH was collected from AOC1-SB1 and submitted for laboratory analysis to determine the general nature of the PSH.

O Groundwater was not sampled from within this area.

• South API Separator:

- o Four soil vapor samples were collected from the corners of this area.
- o Three soil samples were collected from soil boring AOC2-SB1, which was installed near the center of the area.
- A temporary well was installed in AOC2-SB1. PSH was encountered during development of and sample collection from AOC2-SB1. A sample of the PSH was collected from AOC2-SB1 and submitted for laboratory analysis to determine the general nature of the PSH.
- O No groundwater sample was collected from this area.

• Southwest Tank Farm:

- A total of 21 passive soil vapor sample modules were placed in the Southwest Tank Farm area. During retrieval the sample module placed at location AOC3-SG11 could not be recovered due to collapsing soil. Therefore, only 20 of the 21 modules installed in AOC3 were analyzed by the laboratory.
- Soil samples were collected from 5 soil borings at the locations.
- Temporary wells were installed in each of the 5 soil borings. Groundwater samples were collected from three of the four temporary wells. PSH was encountered during development of and sample collection from AOC3-SB5. A sample of the PSH was collected from AOC3-SB5 and submitted for laboratory analysis to determine the general nature of the PSH.
- O Monitor wells MW-103 and MW-104 were installed on the south side of the Southwest Tank Farm. Soil samples were collected during the installation of these two wells and groundwater samples were collected from MW-103 and MW-104 during the subsequent semiannual groundwater monitoring event and again in March 2009.

• Crude Tank Farm:

 Passive soil vapor sample modules were placed in 12 locations throughout the Crude Tank Farm. Construction activities continue in the area of AOC4. During retrieval, it was discovered that one of the construction crews had buried the sample module at location AOC4-SG7. An attempt was made to dig through the dirt and through the underlying caliche to recover the module but it was unsuccessful. Thus, only 11 soil vapor samples were obtained.

- Soil samples were collected from 4 soil borings throughout the Crude Tank Farm.
- Temporary wells were installed in 3 of the 4 soil borings. The geoprobe hit refusal at 18 feet below ground surface (ft bgs) in AOC4-SB4 and the boring was terminated prior to reaching groundwater. Thus, a temporary well was not installed in AOC4-SB4.
- Groundwater samples were collected from each of the 3 temporary wells.
 No PSH was encountered in these temporary wells.
- Monitor wells MW-105, MW-106 and MW-107 were installed in the vicinity of the Crude Tank Farm. Soil samples were collected during the installation of these 3 wells in a manner similar to the soil borings.
- o PSH was encountered in MW-105 during development. A PSH sample was collected from MW-105 and submitted for fingerprint analysis.
- o Groundwater samples were collected from MW-49, MW-106 and MW-107 as per the approved Workplan.

• Soil Vapor Study Area:

O Six pairs soil gas sample locations were selected in a north-south line extending northward from near KWB-5, located southeast of the refinery. Passive soil gas samples were collected from the western location of each pair and were designated as SVS-1A through SVS-6A. Active soil gas samples were collected from the eastern location of each pair and were designated as SVS-1B through SVS-6B.

Soil Reuse Issue

As a result of all the recent construction at the refinery, Navajo had large piles of dirt that we wanted to use for berms for new tanks we were building. Through a series of letters and sampling campaigns, NMED and OCD allowed Navajo to use portions of the piles that passed State regulated limits as berm material in the refinery. The rest of the dirt was hauled to CRI as non hazardous waste.

North Colony Landfarm Revised Permit Modification Request

Submitted on November 13, 2009, this Permit Modification Request (PMR) addresses modifications made by the Permittee to the North Colony Landfarm (NCL). The NCL is an approximately 4.25-acre land treatment unit located near the northwestern corner of the refinery property, north of two aboveground diesel storage tanks (Tank 834 and Tank 838). The NCL received hazardous wastes (K049, K050, K051 and K052) between 1980 and 1990, where they were spread and tilled for treatment.

Modifications made by the Permittee at the NCL consist of installation of Tank 815 for storage of ultra low sulfur diesel (ULSD) fuel and installation of secondary containment berms and ancillary tank equipment.

SUMMARY

2009 was a busy year at Navajo Refining. The more aggressive approach to removing hydrocarbons (by hiring our new employee) gives us a more consistent approach to removing hydrocarbons in wells that have PSH. We expect much better results as this approach is put into use over the years.

With the startup of the new units in 2009, our capacity is now 100,000 bbls a day. These new units will also give us better flexibility in the type of crude we can run.

We found no new groundwater contamination in 2009 and, in fact, have seen areas where there had previously been PSH now showing nothing or only a sheen. This is some positive proof that our recovery trenches are doing the job they were intended for.

We continue to make progress on delineating and defining any contamination associated with our Solid Waste Management Units (SWMU's) and executing plans to remediate and close those units. In the first part of this year (2010) we have closed the North Colony Landfarm and hope to be able to do the same thing to the Evaporation Ponds in the near future.

District J
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

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

Form C-141

Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Ee NIM 87505

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	·		Rele	ase Notific	ation	and Co	rrective A	ction			<u></u>		
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Name of Co	mpany	Navajo Re	fining Co			Contact I	Darrell Moore						
		Artesia, NM	mmg oo				No. 575-746-5	281					
Facility Na		esia Plant				Facility Typ		n Refinery					
racinty Na	me 7111	esta i tatti				racinty Typ	C I cuolculi	i reciliery		··-			
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				NAT	URE	OF REL	EASE						
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By Whom?						Date and H	lour						
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			Yes 🔀	No									
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Signature:	Don	ull /	Voc	L			OIL CON		<u>ION</u>	DIVISIO	<u>NC</u>		
Printed Nam	e: Darrell	Moore				Approved by	District Supervis	sor:					
Title: Envir	onmental N	lanager for W	ater and W	/aste		Approval Da	te:	Expir	ation	Date:			
E-mail Addr	ess: Darre	ll.moore@hol	lycorp.com	1		Conditions of	f Approval:						
							• •			Attached			
Date: Ap	ril 1, 2009			Phone: 57:	5-								

746-5281

^{*} Attach Additional Sheets If Necessary

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenuc, 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

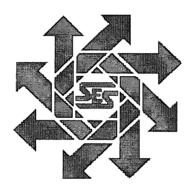
			Rele	ease Notific	cation	and Co	rrective A	ction		
						OPERA?	ГOR		Initia:	l Report 🔲 Final Report
Name of Co	ompany: N	lavajo Refini	ng Co. L	LC		Contact: Aa	ron Strange			
		Street Artes	ia, N.M.	88210			No. 575-748-33			
Facility Na	me: Artesi	a Plant				Facility Typ	e: Petroleum Re	efinery		
Surface Ow	ner			Mineral C)wner			Lea	se N	0.
				LOCA	ATION	OF REI	LEASE			
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Signature: 6	lana		ton	20						
Printed Name	: Aaron Str				A	Approved by l	District Superviso	or:		
Title: Sr. Env	ironmental	Technician			A	Approval Date	<u>:</u>	Expirat	ion D	ate:
E-mail Addre	ss: aaron.st	range@hollyc	orp.com			Conditions of	Approval:			Attached
Date: 5/8/09			ומ	hone: 575-746-54	51				}	

^{*} Attach Additional Sheets If Necessary

Navajo Refining Company PG Loading Rack at the Artesia Refinery Section 8, Township 17S, Range 26E Eddy County, New Mexico

Delineation Report/Work Plan

June 24, 2009



Prepared for:

Navajo Refining Company P.O. Box 159 Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Hobbs, New Mexico 88240 (575) 397-0510

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I. Company Contacts

NAME	Company	Telephone	E-mail
Darrell Moore	Navajo Refining	575-748-3311	darrell.moore@navajo-refining.com
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Navajo Refining Company to perform delineation services at the Artesia Refinery. Approximately 300 barrels of fuel oil spilled onto the PG loading rack due to a faulty valve an the bottom of a rail tanker car. The top six (6) to eight (8) inches of contaminated soil was excavated and disposed of at a New Mexico Oil Conservation Division (NMOCD) approved facility. Clean sand was then placed in between tracks.

III. Surface and Ground Water

According to Safety and Environmental Inc. Semi-Annual Groundwater Monitoring Water Level and Sampling Records prepared for Navajo Refining Company Artesia, New Mexico in March-April 2009, the closest groundwater of record is fifteen (15) feet at monitor well #50.

IV Soils

The surface soils in the area are predominantly sand and sandy loam.

V. Work Performed

On June 1-2, 2009, SESI installed a total of forty two (42) hand auger holes to determine the vertical extent of contamination.

Samples were retrieved at thirty (30) inches from all forty two (42) hand auger holes. Twenty (20) auger holes were installed on the track between the ties and twenty-two (22) auger holes were installed between and beside the tracks themselves. (See Figure 3) All samples were properly preserved and transported under Chain of Custody to ALS Laboratory Group of Houston, Texas for analysis. The samples were analyzed for Total Petroleum Hydrocarbons (EPA Method SW-8015M) and Low Level Polycyclic Aromatic Hydrocarbons (PAHs) (EPA Method SW-8270). The results of the analysis are located in Appendix A.

All borings were backfilled from total depth to surface with bentonite and hydrated.

The results of all samples are below the New Mexico Environmental Department (NMED) Soil Screening Guidance, Industrial/Occupational Soil Levels with the exception of sample AH #24. The New Mexico soil screening level for Benzo (a) pyrene is 2.34 mg/kg and the sample result is 2.7 mg/kg. This level is only 0.36 mg/kg above the soil screening level. Given the location from which sample AH #24 was taken, (See Figure 3) in the middle of the loading tracks, it is felt that the sample result does not present an unacceptable risk to people, groundwater, or any other element of the natural environment.

VI. Action Plan

The fuel oil has not migrated to the depth of thirty (30) inches. As a result, the area between the tracks will be covered with new ballast. In addition, two (2) monitor wells will be installed down gradient of the spill area to insure there is no migration to the groundwater in the future. These monitor well will be sampled and analyzed for the constituents of concern semi-annually.

VII. Figures & Appendices

Figure 1 – Vicinity Map Figure 2 – Site Plan Figure 3 – Auger Hole Locations Appendix A – Analytical Results Appendix B –Site Photos Appendix C—C-141

Figure 1 Vicinity Map

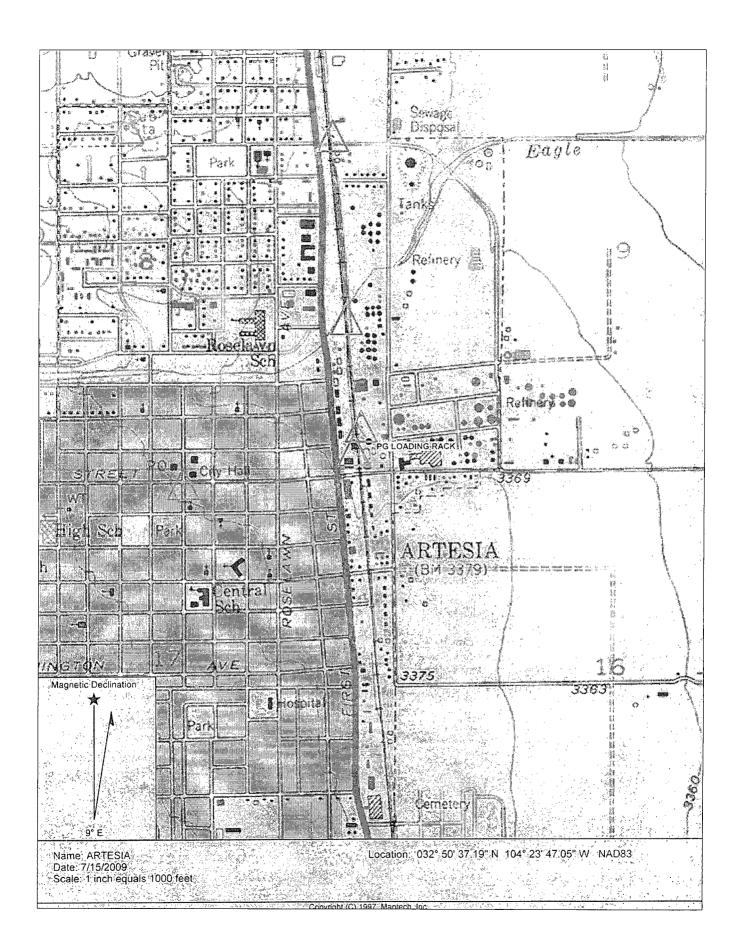


Figure 2 Site Plan



Figure 3 Auger Hole Locations

Appendix A Analytical Results

Appendix B Site Photos

June 1, 2009



Site Photo #1 - East of release area AH locations facing south



Site Photo #2 - North of release area facing north



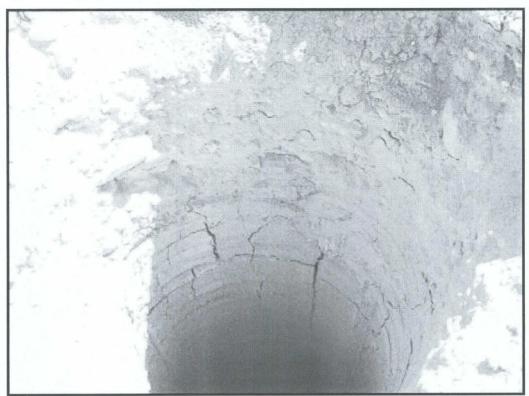
Site Photo #3 - North of release area facing north



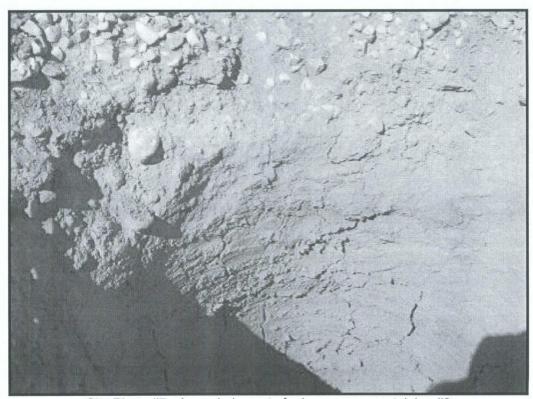
Site Photo #4 - Northeast of release area facing north



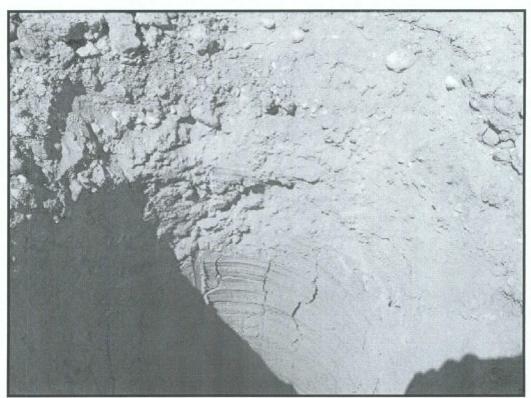
Site Photo #5 - Auger hole east of release area no staining #1



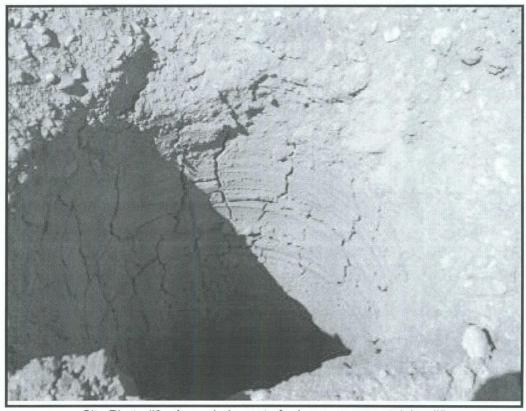
Site Photo #6 - Auger hole east of release area no staining #2



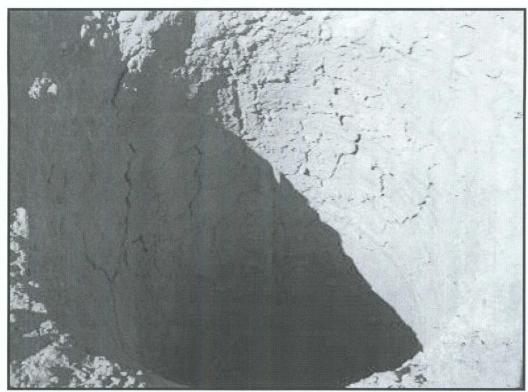
Site Photo #7 - Auger hole east of release area no staining #3



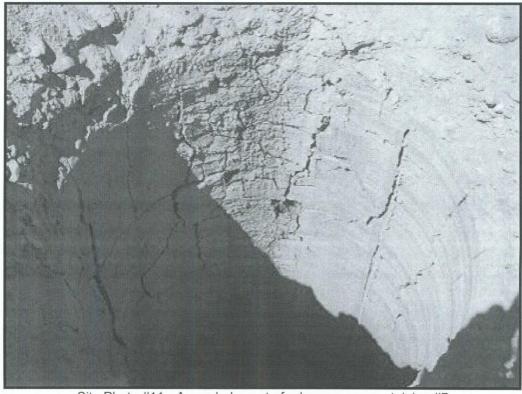
Site Photo #8 - Auger hole east of release area no staining #4



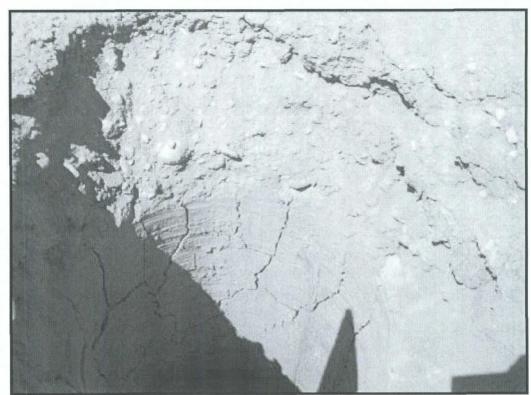
Site Photo #9 - Auger hole east of release area no staining #5



Site Photo #10 - Auger hole east of release area no staining #6



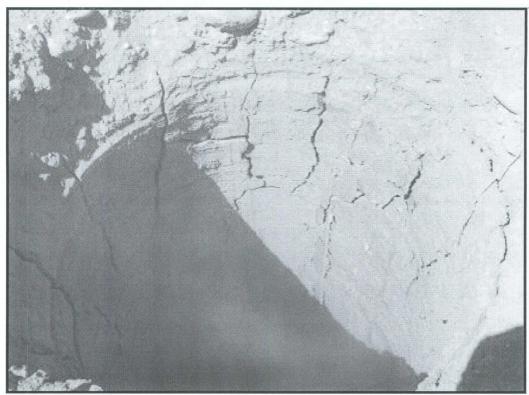
Site Photo #11 - Auger hole east of release area no staining #7



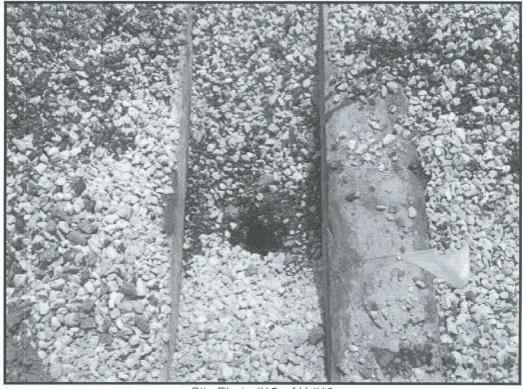
Site Photo #12 - Auger hole east of release area no staining #8



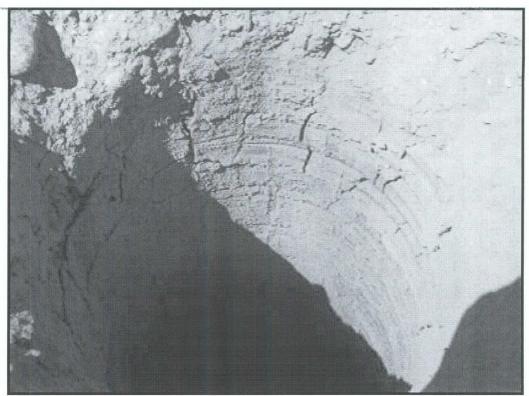
Site Photo #13 - Auger hole east of release area no staining #9



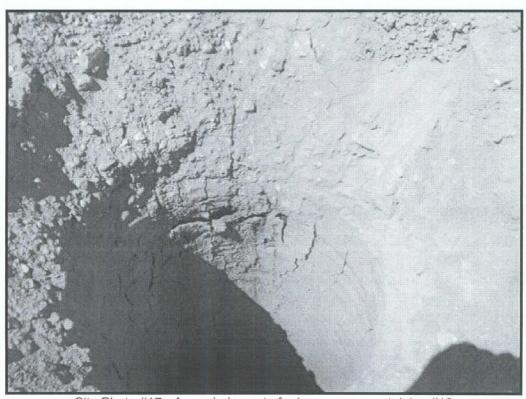
Site Photo #14 - Auger hole east of release area no staining #10



Site Photo #15 - AH #10



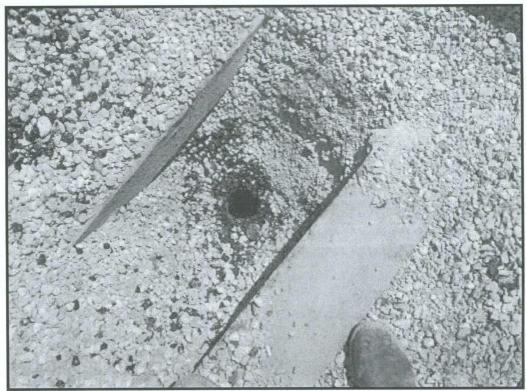
Site Photo #16 - Auger hole east of release area no staining #11



Site Photo #17 - Auger hole east of release area no staining #12



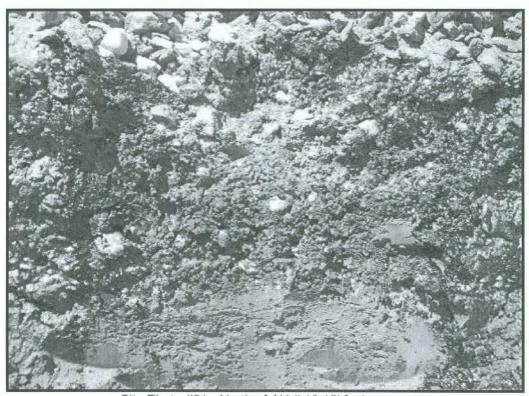
Site Photo #18 - AH #12



Site Photo #19 - AH #14



Site Photo #20 - North of release area at AH #19



Site Photo #21 - North of AH # 19 15' facing west





Site Photo #22 - East side of release area in sand



Site Photo #23 - East side of release area excavated to 2"



Site Photo #24 - Eastside of release area excavated 2"



Site Photo #25 - North of AH #19 100' facing west



Site Photo #26 - West side of AH #23 6' facing west



Site Photo #27 - West of AH #29 facing west



Site Photo #28 - AH #40



Site Photo #29 - AH #41



Site Photo #30 - AH #42

PART I:	Generato	Artesia km	()
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ORGINAT	ION OF WA		
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Property N	lame <u> </u>	(Well, Tank Battery, Plant, Facility)	
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PART II:	TRANSP	ORTER: (To be completed in full by Tra	insporter)
		S, Brothers 512 texas	Telephone No.
CERTIFIC	ATION: 1	certify that the waste in quantity above was received by me for ships	Truck No. nent to the destination below. 6 / 0 · 0 9 Date and Time Received
PART III:	DISPOSA	L OR RECLAMATION SITE:	
	Name Address City/State	Controlled Recovery, Inc. P.O. Box 388 Hobbs, N.M. 88241-0388	(575) 393-1079 Telephone No. Www.crihobbs.com E-mail
CERTIFIC	ATION: 1	certify that the waste described in Part I was received by me via the t	_)
	_	Signature of Facility Agent	Date and Time Received

PART I:	Generato Address City/State	^ \ \	Telephone No.
ORGINATIO	ON OF WA	ASTE:	
Operations	Center		Permit No
Property Na	ame	(Well, Tank Battery, Plant, Facility)	7
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.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Name Address City/State	S. Brothers 512 Texas	Telephone No.
CERTIFICA	ATION:	I certify that the waste in quantity above was received by me for ship	
		Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOS	AL OR RECLAMATION SITE:	
	Name Address City/State	P.O. Box 388 Hobbs, N.M. 88241-0388	(575) 393-1079 Telephone No. www.crihobbs.com E-mail
CERTIFICA	ATION:	I certify that the waste described in Part I was received by me via the	

PART I:	Generator	Navajo Refining Co. LLC	
	Address _	PO Box 159	(₅₇₅) ₇₄₈₋₃₃₁₁
	City/State_	Artesia, NM 88211-0159	Telephone No.
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Operations	Center	Artesia	Permit No. NMD 048918817
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Contaminated		Other Materials	Pit No
		DESCRIPTION / NOTES	
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		P.C. Ruch	
CERTIFICA		e waste described above is not hazardous pursuant to 40 CFR P ned below. I certify that the foregoing is true and correct to the Signature of Generator's Authorized Agent	
PART II:	TRANSPO	RTER: (To be completed in full by T	ransporter)
	Name		
	Address _	S Brothers	Telephone No.
	City/State _		
	•		Truck No.
CERTIFICA	TION: 1 ce	ertify that the waste in quantity above was received by me for st	nipment to the destination below.
	*********	Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOSAL	OR RECLAMATION SITE:	,
	Name _	Controlled Recovery, Inc.	(575) 393-1079
	Address _	P.O. Box 388	Telephone No.
	City/State _	Hobbs, N.M. 88241-0388	www.crihobbs.com
	TION		E-mail
CERTIFICA		rtify that the waste described in Part I was received by me via the signature of Facility Agent	te transporter described in Part II. 5-29-09 Date and Time Received

PART I:	Generato	Or Navajo Refining Co. LLC	<i>(</i>)	
		PO Box 159	575-748-331	
	City/Stat	eArtesia, NM 88211-0159	Telephone	: No.
ORGINAT	ION OF WA	ASTE:		
Operation	s Center	Artesia	Permit No. NMD04	8918817
Property N	Vame			
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Completion	Fluids	Gas Plant Waste	C117 No	
Contaminat	ed Soil	Other Materials	Pit No.	
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CERTIFIC	CATION:	The waste described above is not hazardous pursuant to 40 CFR P	art 261 and was consigned to the transp	oorter
		named below. I certify that the foregoing is true and correct to the		
•		Hornin Hermound	4	-79-9
		Signature of Generator's Authorized Agent		Time of Shipment
	TD 41105			
PART II:	TRANSF	PORTER: (To be completed in full by T	ransporter)	
,	Name	S Brothers		
	Address		Telephor	ie No.
	City/Stat			
ocotici o	ATION		Truck	No.
CERTIFIC	AHON:	I certify that the waste in quantity above was received by me for sh	nipment to the destination below.	70 0
		Signature of Transporter's Agent	Date ar	nd Time Received
DADT III.	DICDOC	AL OR PECLAMATION SITE.		
PART III:	DISPUS	AL OR RECLAMATION SITE:		
	Name	Controlled Recovery, Inc.	(575) 393-1	079
	Address	P.O. Box 388	Telephone N	
	City/State	e Hobbs, N.M. 88241-0388	www.crihobb	s.com
OFDT: CIO	ATION		E-mail	
CERTIFIC	AHUN:	I certify that the waste described in Part I was received by me via the	ne transporter described in Part II.	~ ~ ~ · · · · · · · · · · · · · · · · ·
		Signature of Facility Agent	Date ar	nd Time Received

PART I: Generat Address City/Sta		() Telephone No.
ORGINATION OF W	ASTE:	
Operations Center		Permit No
Property Name	(Well, Tank Battery, Plant, Facility)	
WASTE IDENTIFICAT	ION AND AMOUNT (BARRELS, YARDS, TONS, C	CU.FT., LBS., UNITS, ETC.)
Drilling Fluids Completion Fluids Contaminated Soil	Tank Bottoms Gas Plant Waste Other Materials	Exempt Fluids C117 No Pit No
	,DESCRIPTION / NOTES	
PGR	PG-Asphalt	12405
CERTIFICATION:	The waste described above is not hazardous pursuant to 40 CFR Part named below. I certify that the foregoing is true and correct to the be	-
	Signature of Generator's Authorized Agent	Date and Time of Shipment
PART II: TRANSI Name Address City/Stat		Telephone No.
CERTIFICATION:	I ceptify that the waste in quantity above was received by me for ship UM CM Signature of Transporter's Agent	Truck No. oment to the destination below. Date and Time Received
PART III: DISPOS	AL OR RECLAMATION SITE:	
Name Address City/Stat		(575) 393-1079 Telephone No. www.crihobbs.com E-mail
CERTIFICATION:	I certify that the waste described in Part I was received by me via the	

Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

PART I:	Generato Address City/State	<u> </u>	<u>(</u>) Telephone No.
ORGINATIO	ON OF WA	STE:		
Operations	Center		Permit No.	
Property Na	ame	(Well, Tank Battery, Plant, Facility)	-	
WASTE IDE	ENTIFICATIO	ON AND AMOUNT (BARRELS, YARDS, TONS	, CU.FT., LBS., UNI	TS, ETC.)
Drilling Fluid Completion I Contaminated	Fluids	Tank Bottoms Gas Plant Waste Other Materials	Exempt Flu C117 No. Pit No.	ids
		DESCRIPTION / NOTES		
		PGASPA	a It	12 Yds
BOK	29 RB	.79467		·
CERTIFICA		The waste described above is not hazardous pursuant to 40 CFR F named below. I certify that the foregoing is true and correct to the	•	to the transporter
	_	Signature of Generator's Authorized Agent		Date and Time of Shipment
PART II:	TRANSP	ORTER: (To be completed in full by 1	Transporter)	
	Name Address City/State	S, Brothers Artesia NW	- -	Telephone No.
CERTIFICA	ATION: 1	I certify that the waste in quantity above was received by me for s	shipment to the destination b	Truck No. Delow. Date and Time Received
PART III:	DISPOSA	AL OR RECLAMATION SITE:		
,	Name Address City/State	Controlled Recovery, Inc. P.O. Box 388 Hobbs, N.M. 88241-0388	1	rihobbs.com
CERTIFICA	ATION:	certify that the waste described in Part I was received by me via t		— E-mail Part (I. SERO - 09 - 43

Signature of Facility Agent

PART I:	Generat	te Artesia um	()
	City/Sta	te Artesia Nin	Telephone No.
ORGINAT	ION OF W	ASTE:	
Operations	s Center		Permit No
Property N	lame	(Well, Tank Battery, Plant, Facility)	
WASTE ID	DENTIFICAT	ION AND AMOUNT (BARRELS, YARDS, TONS,	CU.FT., LBS., UNITS, ETC.)
Drilling Flu Completion Contaminate	Fluids	Tank Bottoms Gas Plant Waste Other Materials	Exempt Fluids C117 No Pit No.
		DESCRIPTION / NOTES	
		P6 Ashpalt	12 4/5
CERTIFIC	ATION:	The waste described above is not hazardous pursuant to 40 CFR Panamed below. I certify that the foregoing is true and correct to the	
· .		Signature of Generator's Authorized Agent	Date and Time of Shipment
	TDANIC		<u> </u>
PART II:	IRANSI	PORTER: (To be completed in full by Tr	ransporter)
	Name Address City/Stat	^	Telephone No.
CERTIFIC	ATION:	I certify that the waste in quantity above was received by me for shi	•
		Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOS	AL OR RECLAMATION SITE:	
	Name	Controlled Recovery, Inc.	(575) 393-1079
	Address	P.O. Box 388 Hobbs, N.M. 88241-0388	Telephone No.
	City/Stat	A /	www.crihobbs.com E-mail
CERTIFIC	ATION:	I certify that the waste described in Part I was received by me via the	e transporter described in Part II.
		Signature of Facility Agent	Date and Time Received

PART I:	Generato Address City/Stat		Telephone No.
ORGINATIO	ON OF WA	ASTE:	
Operations	Center		Permit No
Property Na	ıme	(Well, Tank Battery, Plant, Facility)	
WASTE IDE	NTIFICATI	ON AND AMOUNT (BARRELS, YARDS, TONS,	CU.FT., LBS., UNITS, ETC.)
Drilling Fluid Completion F Contaminated	luids	Tank Bottoms Gas Plant Waste Other Materials	Exempt Fluids C117 No Pit No
		DESCRIPTION / NOTES	
15-10 d	+ RBZ	PG Ashpat	12115
CERTIFICA	ITON:	The waste described above is not hazardous pursuant to 40 CFR Pa named below. I certify that the foregoing is true and correct to the	best of my knowledge.
· · · · · · · · · · · · · · · · · · ·		Signature of Generator's Authorized Agent	Date and Time of Shipment
PART II: CERTIFICA	Name Address City/State	PORTER: (To be completed in full by Tr Signature of Transporter's Agent	Telephone No.
PART III:	DISPOS	AL OR RECLAMATION SITE:	
	Name Address City/State	Controlled Recovery, Inc. P.O. Box 388 Hobbs, N.M. 88241-0388	(575) 393-1079 Telephone No. www.crihobbs.com E-mail
CERTIFICA	TION:	I certify that the waste described in Part I was received by me via th	e transporter described in Part II.

PART I:	Generate Address City/Stat	re Hatesia, rum	Telephone No.
ORGINATIO	ON OF WA	ASTE:	
Operations	Center		Permit No.
Property Na	ame	(Well, Tank Battery, Plant, Facility)	
WASTE IDE	ENTIFICATI	ON AND AMOUNT (BARRELS, YARDS, TONS,	CU.FT., LBS., UNITS, ETC.)
Drilling Fluid Completion F	Fluids	Tank Bottoms Gas Plant Waste Other Materials	Exempt Fluids C117 No Pit No
		DESCRIPTION / NOTES	
	DG	Ashpalt	12445
			Bandond
CERTIFICA	ATION:	The waste described above is not hazardous pursuant to 40 CFR Pa named below. I certify that the foregoing is true and correct to the Signature of Generator's Authorized Agent	
PART II:			Telephone No. Truck No.
CERTIFICA	ATION:	I certify that the waste in quantity above was received by me for sh	ipment to the destination below. 5 2 2 0 9 Date and Time Received
PART III:	DISPOS	AL OR RECLAMATION SITE:	
	Name Address City/Stat		(575) 393-1079 Telephone No. www.crihobbs.com E-mail
CERTIFICA	TION:	Certify that the waste described in Part I was received by me via the signature of Facility Agent	e transporter described in Part II. 5 - 7 - 6 - 9 Date and Time Received

PART I:	Generator Navajo Ref. Address City/State Areste Nm	Telephone No.
ORGINATIO	ON OF WASTE:	
Operations	Center	Permit No.
Property Na	(Well, Tank Battery, Plant, Facility)	
WASTE IDE	ENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU	J.FT., LBS., UNITS, ETC.)
Drilling Fluid Completion I	Fluids Gas Plant Waste	Exempt Fluids C117 No Pit No
	DESCRIPTION / NOTES	
Bint	PG Ashpalt R2870AT	
CERTIFICA	The waste described above is not hazardous pursuant to 40 CFR Part 20 named below. I certify that the foregoing is true and correct to the best Signature of Generator's Authorized Agent	•
DART II.		
PART II:	Name Address City/State	Telephone No.
CERTIFICA	I certify that the waste in quantity above was received by me for shipm Signature of Transporter's Agent	ent to the destination below.
PART III:	DISPOSAL OR RECLAMATION SITE:	
	Name Address City/State Controlled Recovery, Inc. P.O. Box 388 Hobbs, N.M. 88241-0388	(575) 393-1079 Telephone No. www.crihobbs.com E-mail
CERTIFICA	I certify that the waste described in Part I was received by me via the tra	

PART I:	Generator	Navajo Refining Co. LLC			
	Address_		<u>4</u> 75)748-3311		
	City/State	Artesia, NM 88211-0159	Telephone No.		
ORGINAT	ION OF WAS	STE:			
Operations	s Center _	Artesia	Permit No. NMD048918817		
Property N	lame _	(Well, Tank Battery, Plant, Facility)			
WASTE ID	ENTIFICATIO	N AND AMOUNT (BARRELS, YARDS, TONS, C	CU.FT., LBS., UNITS, ETC.)		
Drilling Flu	ids	Tank Bottoms	Exempt Fluids		
Completion		Gas Plant Waste	C117 No		
Contaminate	ed Soil	Other Materials	Pit No.		
		DESCRIPTION/NOTES			
		Asobalt			
		Contessoria 12-yds 10.	125		
,		PG Rack			
CERTIFIC		he waste described above is not hazardous pursuant to 40 CFR Part amed below. I certify that the foregoing is true and correct to the bo			
		(ani Hunandy			
		Signature of Generator's Authorized Agent	Date and Time of Shipment		
PART II:	TRANSPO	DRTER: (To be completed in full by Tra	ansporter)		
	Nome	S Brothers			
	Name		Telephone No.		
	Address City/State		2		
	Oity/Otate		Truck No.		
CERTIFIC	ATION: 14	certify that the waste in quantity above was received by me for ship	oment to the destination below.		
		Street bould in pla	<u> 6-11-09</u>		
		Signature of Transporter's Agent	Date and Time Received		
PART III:	DISPOSA	L OR RECLAMATION SITE:			
	Name	Controlled Recovery, Inc.	(575) 393-1079		
	Address	P.O. Box 388	Telephone No.		
	City/State	Hobbs, N.M. 88241-0388	www.crihobbs.com		
			E-mail		
CERTIFIC	AFION: 10	certify that the waste described in Part I was received by me via the	transporter described in Part II.		
		Simply of Facility Agent	Deta-dTim-Barriel		

PART I:	Generator _	Navajo Refining Co. LLC		,
	Address	PO Box 159		75-748-3311
	City/State	Artesia, NH 88211-0159		Telephone No.
ORGINATI	ON OF WAST	E:		
Operations	s Center	Artesia	Permit N	loNMD048918817
Property N	lame			
•		(Well, Tank Battery, Plant, Facility)		
WASTE ID	ENTIFICATION	AND AMOUNT (BARRELS, YARDS	S, TONS, CU.FT., LBS., U	NITS, ETC.)
Drilling Flu	ids	Tank Bottoms	Exempt	Fluids
Completion	Fluids	Gas Plant Waste	C117 No)
Contaminate	ed Soil	Other Materials	Pit No.	
		DESCRIPTION / N	OTES	
		ASDIM 1+	10 vd s	
		'Fraction Debris	12 mode	
		PG Rack		
		Signature of Generator's Authorized Agent		Date and Time of Shipment
PART II:	TRANSPOR	RTER: (To be completed in f	ull by Transporter)	
	Name _	S Brothers		
	Address	b brothers		Telephone No.
	0:1 101 1			2
				Truck No.
CERTIFIC	ATION: 1 cert	ify that the waste in quantity above was received	by me for shipment to the destinati	on below.
		Signature of Transporter's Agent		Date and Time Received
PART III:	DISPOSAL	OR RECLAMATION SITE:	11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	yy, (p. h., g. m. p. 1 - 1 - 1 ,
	Name _	Controlled Recovery, Inc.	(5	75) 393-1079
	Address	P.O. Box 388		Telephone No.
	City/State _	Hobbs, N.M. 88241-038	8 <u>ww</u> v	v.crihobbs.com
CEDTIFIC	ATION:			E-mail
CERTIFIC	ATION: 1 cert	ify that the waste described in Part I was received	by me via the transporter described	l in Part II.
		Signature of Facility Agent		Date and Time Received

Generator.	Navajo Refining Co. LLC	
		(575-748-)3311
City/State_	Artesia, NM 88211-0159	Telephone No.
ON OF WAS	TE:	
Center _	Artesia	Permit No. NMD048918817
ame _	(Well, Tank Battery, Plant, Facility)	
ENTIFICATION		. CÚ.FT., LBS., UNITS, ETC.)
2111111011101	This indicate (Britishes), indeed, remain	, 0012 1, 220, 0.112, 270,
ds _	Tank Bottoms	Exempt Fluids
Fluids _	Gas Plant Waste	C117 No
ed Soil _	Other Materials	Pit No.
	DESCRIPTION / NOTES	
	Yspialt Loyds	<u> </u>
(Y)		
	Rack Done you	
TRANSPO	RTER: (To be completed in full by 1	Fransporter)
A. 1		a.
	5 Brothers	Telephone No.
		Ž.
Oity/Otate_		Truck No.
ATION: 1 co		hipment to the destination below.
_	Signature of Transporter's Agent	Date and Time Received
DISPOSAL	OR RECLAMATION SITE:	
Name	Controlled Recovery, Inc.	(575) 393-1079
Name _ Address _	P.O. Box 388	(575) 393-1079 Telephone No.
Name Address City/State		· ————————————————————————————————————
Address City/State	P.O. Box 388	Telephone No.
Address City/State	P.O. Box 388	Telephone No. WWW.crihobbs.com E-mail
	Address City/State _ CON OF WAS Center ame ENTIFICATION ds Fluids d Soil ATION: The name Address City/State ATION: Ice	Address PO Box 159 City/State Artesia, NN 88211=0159 ON OF WASTE: Center Artesia ame (Well, Tank Battery, Plant, Facility) ENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS) ds Tank Bottoms Fluids Gas Plant Waste d Soil Other Materials DESCRIPTION/NOTES ATION: The waste described above is not hazardous pursuant to 40 CFR in named below. I certify that the foregoing is true and correct to the Signature of Generator's Authorized Agent TRANSPORTER: (To be completed in full by Tank and the same

PART I:	Generato		(575) 748-3311
	Address City/Stat		Telephone No.
	City/Clat		
ORGINATI	ON OF WA	ASTE:	
Operations	Contor	Artesia	Permit No. NMD048918817
Operations	Center	-	remitivo.
Property N	lame		
		(Well, Tank Battery, Plant, Facility)	<i>3</i>
WASTE ID	ENTIFICATI	ON AND AMOUNT (BARRELS, YARDS, TONS,	CU.FT., LBS., UNITS, ETC.)
Drilling Flu	ids	Tank Bottoms	Exempt Fluids
Completion	Fluids	Gas Plant Waste	C117 No.
Contaminate	ed Soil	Other Materials	Pit No.
		DESCRIPTION / NOTES	
		Conservation 12	yds
ļ		1 1 1	
		P.C. Ruell	
CERTIFIC	ATION:	The waste described above is not hazardous pursuant to 40 CFR P named below. I certify that the foregoing is true and correct to the Signature of Generator's Authorized Agent	-
PART II:	TRANSF	PORTER: (To be completed in full by T	ransporter)
			,
	Name	8 Brothers	Telephone No.
	Address	-	Telephone No.
	City/Stat	e	Truck No.
CERTIFIC	ATION:	I certify that the waste in quantity above was received by me for sl	
		& 1/1/h	7.6.09
		Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOS	AL OR RECLAMATION SITE:	
	Name	Controlled Recovery, Inc.	(575) 393-1079
	Address	P.O. Box 388	Telephone No.
	City/Stat		www.crihobbs.com
	Jily/Olde		E-mail ,
CERTIFIC	ATION:	1 certify that the waste described in Part I was received by me via the	he transporter described in Part II.
	e si	Jak DAMANT	7-6-09
	de la companya della companya della companya de la companya della	Signature of Facility Agent	Date and Time Received

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

State of New Mexico Energy Minerals and Natural Resources

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

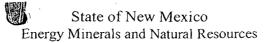
Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

					OPEKA.	IUK	L	∠ Initi	al Report Final Repor		
Name of Company					Contact: Aa	ron Strange					
Address: 501 E. M	lain Street Artes	sia, N.M.	88210		Telephone No. 575-748-3311						
Facility Name: Ar	tesia Plant				Facility Typ	e: Petroleum R	efinery				
Surface Owner			Mineral O	wner				Lease N	No.		
			LOCA	TIO	N OF RE	FASE					
Unit Letter Section	on Township	Range	Feet from the		h/South Line	Feet from the	Fast/W	est Line	County		
Olin Editer Book	, rownship	range	Total Home wife	, , , , ,		. cot iroin tile	Luse //	33.75	County		
					T	·			<u> </u>		
		La	titude		_						
			NAT	URE	OF REL						
Type of Release: Die			hT1. 042			Release: 45 barr			Recovered: 40 barrels		
Source of Release: I	nesei coalescer di	rain near t	ne rank 843 sump	1	12/17/09 ~	lour of Occurrenc 23:40	1	~ 23:42	Hour of Discovery: 12/17/09		
Was Immediate Noti					If YES, To	Whom? NA					
		Yes 🗵	No Not Re	quired	1						
By Whom? NA					Date and H						
Was a Watercourse I		If YES, Volume Impacting the Watercourse. NA									
If a Watercourse was NA	Impacted, Descr	ibe Fully.	*								
	54 operators disc	overed a d	iesel spill near the						was associated with the diesel a roll-off bin and tested for		
Describe Area Affec On 12/17/09 at ~ 23: coalescer. The spill of contaminated soil wi	40 operators disconcerred and rema	overed a d	iesel spill near the in the tank berm. A	A vacu					was associated with the diesel standing liquid. The		
regulations all operat public health or the e should their operation	ors are required to nvironment. The ns have failed to a In addition, NMC	o report ar acceptance adequately OCD accep	nd/or file certain re se of a C-141 report investigate and re	clease r rt by th emedia	notifications ar ne NMOCD ma te contamination	nd perform correct arked as "Final Roon that pose a three	etive action eport" do eat to gro	ns for rele es not reli und water	cuant to NMOCD rules and cases which may endanger eve the operator of liability surface water, human health compliance with any other		
Signature: Aaru	m force	~				OIL CONS	SERVA	ATION	DIVISION		
Printed Name: Aaron		Approved by	District Superviso	or:							
Title: Sr. Environmer					Approval Date	e:	Ex	xpiration I	Date:		
	-						1.3				
E-mail Address: aaro	n.strange@hollyc	corp.com		-	Conditions of	Approval:			Attached		
Date: 12/18/09			Phone: 575-703-50	057							
Attach Additional S	heets If Necess:	arv									

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



Form C-141 Revised October 10, 2003

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Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, NM 87505

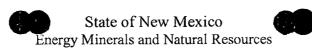
Release Notification and Corrective Action

	OPERATOR	
Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange	
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311	
Facility Name: Artesia Plant	Facility Type: Petroleum Refin	ery
Surface Owner Mineral Owner	r	Lease No.
LOCATIO	ON OF RELEASE	
		ast/West Line County
Latitude <u>32.847169</u>	Longitude104.391115	-
NATUR	E OF RELEASE	
Type of Release: Diesel	Volume of Release: 5 to 7 barre	Is Volume Recovered: ~ 5 barrels mixed with rain water
Source of Release: Holly Energy Partners (HEP) flange leak on the pig trap at the Four Corners (4-C) manifold at the Artesia Refinery.	12/23/09 ~ 21:35	Date and Hour of Discovery: 12/23/09 ~ 21:35
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Require	If YES, To Whom? National Reed 927024	sponse Center (NRC) Incident Report #
By Whom? Lori Clowe (with HEP)	Date and Hour: 12/24/09 ~ 00:2	2
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the V	Watercourse.
If a Watercourse was Impacted, Describe Fully.* NA		
with rain water was recovered. HEP remove ~ 2 yards of gravel/soil and ground dries out and will collect bottom hole samples. Navajo will disp HEP reported this spill to the NRC due to the pipeline being DOT regul Describe Area Affected and Cleanup Action Taken.* On 12/23/09 at ~ 21:35 Ed Fourlines (HEP operator) discovered mist/s Artesia Refinery. The Flange gasket failed spraying diesel onto the ground dries are the standing liquid and sorbent pads were used to absorb the dwater. The diesel (on top of the puddles of rain water) along with rain with rain water was recovered. HEP remove ~ 2 yards of gravel/soil and ground dries out and will collect bottom hole samples. Navajo will disp HEP reported this spill to the NRC due to the pipeline being DOT regul	pray coming from a flange on pig trained and into the fire water pond. The diesel on the fire water pond. The growater was removed with the vacuum to disorbent pads. We will be monitoring toose of the contaminated soil. The real	p at the 12" Four Corners pipeline at the pipeline was shut down. A vacuum truck and was wet and covered with puddles of rail ruck. Approximately 5 barrels of diesel mixe g the area for signs of stained soil as the
hereby certify that the information given above is true and complete to egulations all operators are required to report and/or file certain release ublic health or the environment. The acceptance of a C-141 report by nould their operations have failed to adequately investigate and remeding the environment. In addition, NMOCD acceptance of a C-141 report aderal, state, or local laws and/or regulations.	e notifications and perform corrective the NMOCD marked as "Final Report tate contamination that pose a threat t	actions for releases which may endanger rt" does not relieve the operator of liability to ground water, surface water, human health
gnature Javan Sury	OIL CONSE	RVATION DIVISION
inted Name: Aaron Strange	Approved by District Supervisor:	
tle: Sr. Environmental Technician	Approval Date:	Expiration Date:
mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached
te: 1/07/10 Phone: 575-703-5057		

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



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

Form C-141

Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. side of form

Santa Fe, NM 87505 Release Notification and Corrective Action

						OPERATOR Initial Report Final Rep							
Name of Co		Navajo Ref	ining Co.			Contact Darrell Moore							
Address 50		<u></u>	NM 8821	1		Telephone No. 575-746-5281							
Facility Nat	ne Nav	ajo Refining	·			Facility Typ	e Petroleum F	Refiner	у				
Surface Ow	ner			Mineral O	wner	Lease No.							
				<u>-</u>									
Unit Letter	Castian	Tanakia	Danas			N OF REI	,	L 104/1	1/ Y :	Country			
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East	West Line	County			
										<u> </u>			
			Lat	titude		Longitud	le						
	LatitudeLongitude NATURE OF RELEASE												
Type of Rele	ase Wash	Water		IVAI	UKE		Release 50 bbls		Volume I	Recovered 3	5 bbl	s	
Source of Re			units duri	ng turn around		Date and F				Hour of Disc			
							e2/1/09 9am	i	9:30am				
Was Immedia	ate Notice C		Voc [No. □ Not Do	mirad	If YES, To	Whom? z and Mike Bratc	ah arr					
By Whom? Darrell Moore												<u> </u>	
Was a Water							four 2/2/09 8 a plume Impacting t		~~~~				
Yes X No						II TES, VC	nume impacting t	ne wan	creourse.				
If a Watercou	rse was Im	nacted Descr											
		paotoa, Deoor	ioc i unij.										
Describe Cau	se of Proble	em and Reme	dial Action	Taken.*									
	During Turn around at the plant, a section of sewer was bypassed for work related projects. This section was "pumped around" using a diaphragm pump. The diaphragm pump failed and allowed the water to back up and overflow. The water ran to a low spot just north east of the Alky Unit and was sucked up												
using a vacuu		led and allow	ed the wat	er to back up and	overflo	w. The water	ran to a low spot	just nor	th east of th	ne Alky Unit	and v	vas sucked up	
dsing a vacuu	im duck.												
Describe Are	Affected of	and Cleanup A	ation Tale	on *									
					t 50 vds	long and 15	yds wide. The star	nding w	ater was su	icked up usin	gav	acuum truck	
and contamin	ated soil wi	ill be removed	l .	F	,		,				6		
							knowledge and u						
							nd perform correct						
should their c	or the envir	onment. The	acceptanc dequately	e of a C-141 repo	rt by the	e NMOCD ma e contaminati	arked as "Final Re on that pose a thre	eport" d	oes not reli	eve the opera	itor o	f liability Iman health	
or the enviror	ment. In a	ddition, NMO	CD accept	tance of a C-141 r	report d	oes not reliev	e the operator of r	esponsi	bility for co	ompliance wat	th an	y other	
federal, state,	or local lay	vs and/or regu	lations.										
•	`				-		OIL CONS	SERV	<u>ATION</u>	<u>DIVISIO</u>	<u>N</u>		
Signature:	Daw	MM	Mu										
Printed Name						Approved by	District Supervise	or:					
Timed Ivanic	. Darien w	0010											
Title: Enviror	mental Ma	nager for Wat	er and Wa	ste		Approval Dat	e:		Expiration 1	Date:			
E-mail Addre	ss: Darrell.	moore@hollv	corn.com			Conditions of	Approval·						
						Conditions of Approval:			Attached				
Date: Febru				Phone	e:								
575-746-5281	<u> </u>									L			

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

							ГOR	☑ Initial Report ☐ Final Report					
Name of Co	mpany: N	lavajo Refini	ng Co. L	LC		Contact: Aaron Strange							
		Street Artes	ia, N.M.	88210			No. 575-748-33						
Facility Nat	ne: Artesi	a Plant				Facility Type: Petroleum Refinery							
Surface Ow	ner			Mineral C)wner				Lease No.				
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/\	West Line	County	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		l	La	titude		Longitud	e						
				NAT	URE	OF RELI							
		lous Waste Sp					Release: ~ 290 b			Recovered: ~			
Source of Re	lease: FRA	C Tank for the	e T-63 cle	aning project.		1	our of Occurrent	ce:	Date and ~ 09:00	Hour of Disc	covery:	: 5/5/0)9
Was Immedia	ite Notice (Given?				5/5/09 ~ 09	Whom? OCD B	rad Ione		Hone Monze	alio &	NRC	
7 ao Immedia			Yes [No 🗌 Not Re	equired		Arsenaual (NRC				~, .		-
By Whom? A	aron Stran	ge				Date and H	our: 5/5/09 OCD) -09:38,	NMED-09	:40, & NRC-	-09:45		
Was a Watercourse Reached? ☐ Yes ☒ No If Y NA						1	lume Impacting	the Wat	ercourse.				
On 5/6/09 the hazardous wa The spill was into T-63. Ar barrels of wa	e Navajo Va aste; K-170 contained tother vacuuste spilled of	While pumpi with soil berm um truck was i onto the groun and Cleanup A	arked to some the vacues. A small brought in d.	tart unloading a F cuum truck started I ditch was created I to pump out rema	I to roll d to char aining v	backward and nnel the wasto vaste and min	damaged to tank into a hose and imize the amount	c header pump. T t spilled	K-170 sta The waste (sonto the gr	rted to spill of still leaking) round. Appro	onto the was be eximate	e grou eing pu ely 290	ınd. umped 0
I hereby certi regulations al public health should their cor the environ	fy that the il operators or the environment. In a	e contaminate information gi are required to ronment. The lave failed to a	ven above o report ar acceptance dequately OCD accep	dug up and place is true and compid/or file certain rece of a C-141 reporting true and restance	lete to the lease nort by the	nd top roll-off the best of my otifications are e NMOCD ma e contaminati	knowledge and und perform correctarked as "Final Room that pose a thr	as the landerstanding active act	nd that pursions for rel loes not rel round water	suant to NM0 eases which ieve the oper r, surface wa	OCD rumay en ator of ter, hui	ules ar idange liabili man h	nd er lity sealth
Signature: amon Stronge							OIL CON	SERV	'ATION	DIVISIO	<u>N</u>		
Printed Name		···-				Approved by	District Supervis	or:					
Title: Sr. Env	ironmental	Technician				Approval Dat	e:	Expiration Date:					
E-mail Addre	ss: aaron.st	range@hollyc	orp.com			Conditions of	Approval:	Attached					
Date: 5/7/09			P	Phone: 575-746-54	451								
Attach Addi	ional She	ets If Necess					-····			<u> </u>			

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

Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance

Form C-141

with Rule 116 on back side of form

			Rele	ease Notific	atio	n and Co	orrective A	ction	١,				
_						OPERA'	TOR	☐ Initial Report ☐ Final R					
		Iavajo Refini				Contact: Aa							
		Street Artes	ia, N.M.	88210		Telephone No. 575-748-3311							
Facility Nar	ne: Artesia	a Plant				Facility Type: Petroleum Refinery							
Surface Ow	ner			Mineral C	wner	er Lease No.							
				LOCA	OIT	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	West Line	County			
L	<u> </u>		La	titude		Longitud	le	· -		<u> </u>			
			2		rme								
Type of Relea	use: Hazard	lous Waste Sn	ill K-170	NAI	UKE	OF REL	Release: ~ 45 bar	rrels	Volume F	Recovered: ~	38 ba	rrels	
		n manhole on					Iour of Occurrence			Hour of Disc			
						5/11/09 ~			~ 13:30				
Was Immedia	ate Notice C	Given?	Yes [] No 🗌 Not Re	quired		Whom? OCD Br ith (NRC Inciden			Hope Monze	glio, &	k NRC Petty	
By Whom? A							lour: 5/11/09 OCI			5:23, & NRC	C-15:2	8	
Was a Watercourse Reached? ☐ Yes M No						If YES, Volume Impacting the Watercourse. NA							
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*	k		<u> </u>							
NA	•	,	,										
Describe Cau	se of Proble	em and Remed	dial Action	n Taken.*									
				side of T-63 was o									
				tank and was said e refining process.									
the listed haza			ied it to tri	e remning process.	i ne c	comammateu s	on was dug up an	id prace	mico a naro	юр топ-оп	om 10	r disposai as	
									سيدر ري				
Describe Area					.cm.	2 4				Pl			
				he north west side osal as the listed ha				standir	ig iiquid. I	ne contamir	iated s	oil was dug	
ap ana piaco .		.op 19., 011 on	. 10. dispe	our do mo nota n			•						
7 1 1	C d	C				1 - 1 C	· · · · · · · · · · · · · · · · · · ·		2 1	ND 46		, , , ,	
regulations al	ry that the ii	ntormation gi are required to	ven above renort an	is true and compled/or file certain re	ete to ti dease n	ne best of my ofifications ar	knowledge and ut	naerstar tive acti	id that purs ons for rele	uant to NMC eases which i	JCD II may er	ules and	
public health	or the envir	onment. The	acceptanc	e of a C-141 repor	rt by th	e NMOCD m	arked as "Final Re	eport" d	oes not reli	eve the opera	ator of	fliability	
				investigate and re									
federal, state,				tance of a C-141 r	eport a	oes not renev	e the operator of r	esponsi	bility for co	ompiiance w	ith any	other	
1000101, 01010,		, o and or 10ga	<u> </u>				OIL CONS	SERV	ATION	DIVISIO	N		
Signature: C	Tansa	- E	tur		-						<u></u>	[
Signature: C	viva			8	-+	A have	District Companies						
Printed Name	: Aaron Str	ange				Approved by	District Superviso	or. ———					
Title: Sr. Envi	ironmental '	Technician				Approval Dat	e:	F	Expiration I	Date:			
E-mail Addres	ss: aaron.str	range@hollyc	orp.com			Conditions of	Approval:	· _		Attached	\Box		
Date: 5/11/09]	Phone: 575-746-5	451						.		

^{*} Attach Additional Sheets If Necessary

Box R-82

Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 4. Manifest Tracking Number 3. Emergency Response Phone 0040921 **WASTE MANIFEST** NM0048918817 5. Generator's Name and Mailing Address AIAUAIO REFINIALY Generator's Site Address (if different than mailing address) 501 E MAIN ARTESIA NIM 88219 Generator's Phone: 5 75 - 71/6-578 U.S. EPA ID Number 6. Transporter 1 Company Name 7xn98£057931 U.S. EPAID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number DINECO PO BOX 779 BENTON AR 72018 ARD981057870 Facility's Phone: 18003774692 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Wt./Vol Quantity нМ No. Type TRO, HAZARDOUS WASTE SOLID, N.O.S., 9, UN3277 170 P X PGIL, (K170) 27880 14. Special Handling Instructions and Additional Information PROFILE -090507735 UNICOAD # 165093 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name Day Month Year COLC 16 International Shipments Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Day Transporter 2 Printed/Typed Name Day 18. Discrepancy 18a. Discrepancy Indication Space ___ Quantity Type __ Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number DESIGNATED FACILITY Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator, Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Month EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

÷ #>

1	UNIFORM HAZARDOUS 1. Generator ID Number	2. Page 1 of 3. Eme	rgency Lesponse Phone	4. Manifest Tracking N	umber	11/
П	5. Generator's Name and Mailing Address	Generat	or's Site Address (if different the)2134 J	<u>J'V</u>
$\ \ $	Altonia decommo	`	or a otte Address (ii dillerent till	an mailing address/	. : !	
П	SOJE MAINI BUTTON RIM EE	12101		,		İ
П	Generator's Phone:					
Ш	6. Transporter 1 Company Name	}		U.S. EPA ID Number		
Ш	7. Transporter 2 Company Name	1 BIE		U.S. EPA ID Number	02797	
П	7. Hansporter 2 company Name			i		
	8. Designated Facility Name and Site Address			U.S. EPA ID Number		
$\ \ $	P.O. SOX 775	•	•			
П	SEMTUM AN TE	018	and the second	1		
$\ \ $	Facility's Phone:		.:	1 AR GASIG	7270	
	9a. HM 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Name and Packing Group (if any))		10. Containers No Type	11. Total 12. Unit Quantity Wt./Vol.	13. Waste Coo	es
뜅	120, 1777 comes with some, A. O.	5. 19, wd 3077.		,	¥1700	
GENERATOR	X 7612, (1170)		1 Cm	27810 P	,	
	2.					
		\				
$\ \cdot \ $	3.				 	+
$\ \ $			1 1			<u> </u>
			27 to 2 d 20			طهر الرود. الإدارة
	4.		*			
Ш	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1.
$\ \cdot \ $	14. Special Handling Instructions and Additional Information	A STATE OF THE STA			<u> </u>	
П	PROFUE - 090507735				*	
Н						1
П	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the content	its of this consignment are fully a	nd accurately described above	by the proper shipping name	e, and are classified, pac	kaged.
П	marked and labeled/placarded, and are in all respects in proper condition for trans, Exporter, I certify that the contents of this consignment conform to the terms of the	sport according to applicable inte	rnational and national governme	ental regulations. If export sh	ipment and I am the Prin	nary
	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I a	nm a large quantity generator) or		erator) is true.		· ·
	Generator's/Offeror's Printed/Typed Name	Signature	N. 18 M	1	Month Day	/ Year
*	16. International Shipments Import to U.S.		ALLEY N	- (ACL)		167
ΙŻ	Import to U.S. Transporter signature (for exports only):	Export from U.S:	Port of entry/exit: Date leaving U.S.:			
ER	17. Transporter Acknowledgment of Receipt of Materials	·				78 °
TRANSPORTER INT	Transporter 1 Printed/Typed Name	Signature	te.		Month Day	Year™
NSF	Transporter 2 Printed/Typed Name	Signature		3	Month Day	Year
TR/					1 1	1
1	18. Discrepancy					
1	18a. Discrepancy Indication Space Quantity	уре 🗀	Residue	Partial Rejection	Full Re	jection
		Ms	nifest Reference Number:			1
בׂו	18b. Alternate Facility (or Generator)	IWIG	minest reference number.	U.S. EPA ID Number		——
딩	_				* eq.y	
D FA	Facility's Phone:			r _{ang} in		
ATE	18c. Signature of Alternate Facility (or Generator)				Month Da	y Year
DESIGNATED FACILITY	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous wa	iste treatment, disposal, and reco	voling systems)			4
띰	1. 2.	3.	<u> </u>	4.		
				,		
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials Printed/Typed Name	s covered by the manifest excep Signature			Month Day	Year
\downarrow	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,]	· · · · · · · · · · · · · · · · · · ·			leal
	L					1 1

		RINECO	LAND 3	POSAL I	RESTRICTI	ONS N	NOTIFICA	L, -N	FORM		
Generato	r: Na	vajo							EPA ID#	MM	1004891881
	<u> </u>				Manifest D	oc. #	204092	1345	NTK]		,
EPA Cod	es	K17)		Profile #	090	50773.	5	Line It	em	1.
						<u> </u>	50,72			,	
EPA Was	te Codes	Waste Descrip Regulatory Su	otion & Treatment/ bcategory		NON-WASTE	WATE	R		ntration in mology Code	g/1 or	
	D001		ic wastes, except for ry that are managed		CWA equivalent/non	class I			T and meet 26 ards or RORGS T		
	D001		e characteristic liquer than or equal to		roy based on 40 (CFR		RORG or POI	S; or CMBST; LYM		
	D002	Corrosive characte non CWA equivale	eristic wastes that a ent, or class / SDW		in non-CWA			DEAC standa	T & meet 268. irds	48	
D004-D011	Heavy	Metals Expressed	in Concentration	ns of mg/l (T	CLP) and must	meet 26	8.48 Standar	ds. (N	ON-WASTE	WATER	2)
		Arsenic 5.0		D008	Lead 0.75						
		Barium 21 Cadmium 0.11	<u> </u>	D009 D010	Mercury 0.20 Selenium 5.7	low mer	cury subcateg	jory			
		Chromium 0.60		D011	Silver 0.14						
D012-D043	Conce	ntrations Expresse	d in mg/kg, and f	Must Meet 2	68.48 Standard	ls.		(1)	ION-WASTE	WATER	₹)
===		drin 0.13			m-cresol 5.6		<u></u>			itorbenz	
		dane 0.066	<u></u>		p-cresol 5.6		[entachli yridine 1	orophenol 7.4
		thoxychlor 0.18 caphene 2.6			Cresol Mixed Is p-dichlorbenze		'.2 <u>L</u>			-	proethylene 6.0
		D 10			1,2-dichloroeth		Ĺ				thylene 6.0
		5-TP Silvex 7.9			1,1-dichloroeth	ylene 6.0			D041 2	4,5-Tric	chlorophenol 7.4
	0018 Ber	nzene 10		D030	2,4-dinitrotolue	ne 140					chlorophenol 7.4
===		bon Tetrachloride	5.0		Heptachlor & e		0.066		D043 V	inyl Chl	oride 6.0
===	- •	ordane 0.26			Hexachlorbenz		6				
	-	orobenzene 6.0 oroform 6.0	<u> </u>		Hexachlorobuta Hexachloroetha		.o				
====		resol 5.6			Methyl Ethyl Ke						
7001-F005 Spo			(NON-W	ASTEWAT			005 Non-Was		r spent solve	nts	
	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u></u>					_				
	Acetone 16			-	Icohol 170				Carbon dis		
	Benzene 10				e Chloride 30				Cyclohexa	none 0.	75
	N-butyl alco carbontetra			-	hyl Ketone 36 butyl Ketone 3:	3			Methanol (1.75	
	chlorobenze			Nitrobenz	•						
	o-cresol 5.6			Pyridine 1	6						
	m-cresol 5.6	;		Tetrachlo	roethylene 6.0						
	p-cresol 5.6			Toluene 1							
		d isomers 11.2			oroethane 6.0						
	O-Dichlorob		<u> </u>		loroethane 6.0	th	20				
	Ethyl Acetat Ethyl Benze				loro-122-trifluor	oemane	JU				
	Ethyl Ether 1				ethylene 6.0 nonofluorometh	ane 30					
۱ ا	_any cure	.00			iixed isomers) 3						

GENERATOR COPY

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Gen	erator:	RINECO LAND SPOSAL RESTRICT	EPAID# NOTIFICAT N FORM
EPA W	/aste	(NON-WASTEWATER)	Technology Code
	U023, U0	986,U099,U103,U109,U133,U135,U160,U189,U249	CHOXD;CHRED; or CMBST
=	U246		CHOXD;WETOX; or CMBST
\square	U115		CHOXD; or CMBST
	K047	·	DEACT
	K108,K10 U001,U00 U021,U02 U056,U09 U091,U09 U122,U12 U154,U18	Nitropropane, 2-ethaxyethanol),F024,K025,K026,K027,K039,K107, 09,K110,K112,K113,K114,K115,K116,K123,K124,K125,K126, 03,U006,U007,U008,U010,U011,U014,U015,U016,U017,U020, 06,U033,U034,U035,U038,U041,U042,U046,U049,U053,U055, 057,U058,U059,U062,U064,U073,U074,U085,U087,U089,U090, 02,U093,U094,U095,U097,U108,U110,U113,U114,U116,U119, 23,U124,U125,U126,U132,U143,U147,U148,U149,U150,U153, 056,U163,U164,U166,U167,U168,U171,U173,U176,U177,U178, 034,U186,U191,U193,U194,U197,U200,U201,U202,U206,U213, 9,U221,U222,U223,U234,U236,U237,U238,U240,U244,U248, 13,U359	CMBST
	K106		RMERC
	U134		ADGAS fb NEUTR; or NEUTR
		r codes not listed on this form that apply to this wast eatment standard below.	·

*Note: Retain one copy for your files, send one copy with your shipment

er Berne

Page 2 10/7/2008



Navajo Refining Company Darrell Moore P O Box 159 Artesia, NM 88211-0159 06/02/2009

Certificate of Disposal

Navajo Refining Company, Artesia, NM Manifest # 004092134JJK Received 5/20/2009

This is to certify that the waste materials received from the above referenced generator and manifest number have been managed and disposed of in accordance with all applicable Federal, State, and Local laws and regulations.

MINTS DILL

Monte J. Dilick, Vice President of Sales & Marketing

The first of the second of the

090206450233-243796-22029

WHEN THE

Page 1 of 1

004092134JJK

Please	e print or type. (Form designed for use on elite (12-pitch) typewriter.)							OMB No.	2000-0038
	JNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST AMA 01 891817	2. Page 1 of 3. E	mergency Responsi <u>グラーフ4じ</u>	Phone 3311	4. Manifest	Tracking N	lumber]	5 J.	JK
5	WASTE MANIFEST AMO 018918217 Generator's Name and Mailing Address NAVATO REFINIALS	Gene	rator's Site Address	(if different th	an mailing addres	s)	ng t daywag colo		
	501 E MAINI FRIESIA NIM 867	210 .							
G	Generator's Phone: 177 190 - 5761								
6	. Transporter 1 Company Name				U.S. EPA ID N				
╽╽	FLUID TRANSPORTS				U.S. EPAID N	7880	15795	1	
'	. Transporter 2 Company Name				U.S. EPAID N	lumber			
	Designated Facility Name and Site Address RIALE CO				U.S. EPA ID N	lumber			
$\ \cdot\ ^{\circ}$	6.0.30 × 729				0.0. LI A ID I	dilibei			
П	BEALTUNI AR 7701	£.				,			
$\ \ _{F}$	acility's Phone: 800 : 377 - 1697	243			IARA	129	0578	70	
	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		10. Contai	ners	11. Total	12. Unit			
	and Packing Group (if any))		No.	Туре	Quantity	Wt./Vol.	13.	Waste Code	s
	IRQ, HAZARDOUS WASTE SOUR, N.	0.S., 9,					12170		
ğ)	ξ	, ,	1	2 30	28960	P			
GENERATOR	NA 3077, PGIII, (KI70)			CFS	040 160				
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}	3.		+	 			 - 		
	€								
	4.								
Ш									
	4. Special Handling Instructions and Additional Information					<u></u> _			
	4. Operat Handling instructions and Additional Information							yr T	
				4					
	PROFILE # 09 05 07735	_			(usida)	₹ <u></u>			
15	 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this marked and labeled/placarded, and are in all respects in proper condition for transport acc 								
	Exporter, I certify that the contents of this consignment conform to the terms of the attache	ed EPA Acknowledgm	ent of Consent.	· ·			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		/
G	Lecrtify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large innerator's/Qfferor's Printed/Typed Name	ge quantity generator, Signature		III quantity get	nerator) is true.		Mor	th Day	Year
 	Darrell Moore	17	and	V IV	land		10:3	5 22	109
11	6. International Shipments Import to U.S.	Export from U.S.	Port of en	trv/exit:					1,
	ransporter signature (for exports only):		Date leavi	,					.,
<u> </u>	7. Transporter Acknowledgment of Receipt of Materials	Cinnatura	1	2) 2 4 -				· D-··	· · · ·
ဗ္ဂို "	ransporter 1 Printed/Typed Name	Signature	$\Delta_{a}(\cdot)$	ZH	Á		Mon	th Day √` ≉⇒	Year
SIT	ransporter 2 Printed/Typed Name	Signature	7	- Annual Control	Co-		Mon	th Day	Year
3		1					- 1	1	
	8. Discrepancy								
18	8a. Discrepancy Indication Space Quantity Type		Residue		Partial Reje	ection		Full Reje	ction
≥ 18	8b. Alternate Facility (or Generator)		Manifest Reference	Number:	U.S. EPA ID N	umber			
딋	, , , , , , , , , , , , , , , , , , , ,							•	•
۔ ا≶									. *
M- 11-2	acility's Phone:						Mot	41 0	
E 1	acility's Phone: 8c. Signature of Alternate Facility (or Generator)						IVIO	nth Day	Year
NATED F	8c. Signature of Alternate Facility (or Generator)	-A					Wioi	ntn Day	Year
SIGNATED F	8c. Signature of Alternate Facility (or Generator) 9. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treat		recycling systems)				Wildi	ntn Day	Year
NATED	8c. Signature of Alternate Facility (or Generator) 9. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treat	tment, disposal, and	recycling systems)		4.		MOI	ntn Day	Year
ıL	8c. Signature of Alternate Facility (or Generator) 9. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treat	3.		n 18a	4.		NO	ntn Day	Year
20	8c. Signature of Alternate Facility (or Generator) 9. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treat	3.	cept as noted in Iten	n 18a	4.		Mor		Year



Navajo Refining Company Darrell Moore P O Box 159 Artesia, NM 88211-0159 06/09/2009

Certificate of Disposal

Navajo Refining Company, Artesia, NM Manifest # 004092115JJK Received 5/27/2009

This is to certify that the waste materials received from the above referenced generator and manifest number have been managed and disposed of in accordance with all applicable Federal, State, and Local laws and regulations.

By: Mont & Dille

Monte J. Dilick, Vice President of Sales & Marketing

	,	igned for use on elite (12-pitch) ty - writer.)				T		i Approved. C		
1	UNIFORM HAZARDOUS	Generator ID Number	2. Page 1 of 3. Em	ergency Response I	Phone	4. Manifest			I I	17
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Н		inimization statement identified in 40 CFR 262.27(a			quantity gene	erator) is true.				
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Generato	or: N	avajo					EPA ID	# NMD04891881
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EPA Cod	ies I	K170		Profile #	0903	507735	Line	Item 1.
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EPA Was	te Codes	Waste Description & T Regulatory Subcatego		NON-WASTE	WATER		oncentration in echnology Cod	-
	D001	Ignitable characteristic wastes High TOC subcategory that ar SDWA systems.		CWA equivalent/non	class I	s	EACT and meet landards or ROF MBST	
	D001	High TOC Ignitable character 1201.21(a)(1)-greater than continuous		roy based on 40 C	CFR		ORGS; or CMB: r POLYM	ST;
	D002	Corrosive characteristic wa non CWA equivalent, or cla		in non-CWA			EACT & meet 26 andards	58.48
D004-D011	Hea	vy Metals Expressed in Con	centrations of mg/l (1	CLP) and must	meet 268	.48 Standards.	(NON-WAS	(EWATER)
	D004	Arsenic 5.0	D008	Lead 0.75				
	D005	Barium 21	D009	-		ury subcategor	1	
	D006	Cadmium 0.11	D010	Selenium 5.7				
	D007	Chromium 0.60	D011	Silver 0.14	·			
D012-D043	Con	centrations Expressed in mg	g/kg, and Must Meet 2	268.48 Standard	ls.		(NON-WAS	TEWATER)
		indrin 0.13	D024	m-cresol 5.6			D036	Nitorbenzene 14
		indane 0.066	D025	p-cresol 5.6		, <u> </u>	D037	Pentachlorophenol 7.4
		Methoxychlor 0.18 Toxaphene 2.6	D026	Cresol Mixed Is p-dichlorbenze		-	D038 D039	Pyridine 16 Tetrachloroethylene 6.0
	•	,4 D 10	D027	1,2-dichloroeth			= D039	Trichlorethylene 6.0
===		,4,5-TP Silvex 7.9	D029	1,1-dichloroeth			D041	2,4,5-Trichlorophenol 7.4
	D018 B	enzene 10		2,4-dinitrotolue	=		D042	2,4,6-Trichlorophenol 7.4
	D019 C	arbon Tetrachloride 6.0	D031	Heptachlor & e	poxides 0.	066	D043	Vinyl Chloride 6.0
	D020 C	hlordane 0.26		Hexachlorbenz				
		hlorobenzene 6.0		Hexachlorobuta				
		Chloroform 6.0		Hexachloroetha				
<u> </u>	D023 o	-cresol 5.6	D035	Methyl Ethyl Ke	etone 36			
F001-F005 Sp			(NON-WASTEWA			5 Non-Wastew in mg/l (TCL		lvents
	Acotone	160	la about 1	Machal 170				digulfido 4 9
	Acetone 1 Benzene			Alcohol 170 ne Chloride 30		<u></u>	==	disulfide 4.8
	N-butyl al			thyl Ketone 36		<u> </u>		xanone 0.75
	-	rachloride 6.0		obutyl Ketone 33	3	Ļ	Methano	010.75
	chlorober	nzene 6.0	Nitroben:	zene 14				
	o-cresol 5		Pyridine Pyridine					
	m-cresol			proethylene 6.0				
	p-cresol 5		Toluene					
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	Ethyl Ace			นอกอยเกลกษาย.บา ปอกอ-122-trifluor	nethane 3	10		
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GENERATOR COPY

Page 1 10/7/2008

EPAID# NM DO4891881 Navajo Generator: - - Mingel generating program in the commentation of the commentation of the company of the comp **EPA Waste Technology Code** (NON-WASTEWATER) Codes U023, U086,U099,U103,U109,U133,U135,U160,U189,U249 CHOXD; CHRED; or CMBST U246 CHOXD;WETOX; or CMBST U115 CHOXD; or CMBST DEACT K047 F005 (2-Nitropropane, 2-ethaxyethanol),F024,K025,K026,K027,K039,K107, **CMBST** K108,K109,K110,K112,K113,K114,K115,K116,K123,K124,K125,K126, U001, U003, U006, U007, U008, U010, U011, U014, U015, U016, U017, U020, U017U021,U026,U033,U034,U035,U038,U041,U042,U046,U049,U053,U055, U056,U057,U058,U059,U062,U064,U073,U074,U085,U087,U089,U090, U091,U092,U093,U094,U095,U097,U108,U110,U113,U114,U116,U119, U122,U123,U124,U125,U126,U132,U143,U147,U148,U149,U150,U153, U154,U156,U163,U164,U166,U167,U168,U171,U173,U176,U177,U178, U182,U184,U186,U191,U193,U194,U197,U200,U201,U202,U206,U213, U2I8,U219,U221,U222,U223,U234,U236,U237,U238,U240,U244,U248, U328,U353,U359 **RMERC** K106 ADGAS fb NEUTR; or NEUTR U134 f there are any codes not listed on this form that apply to this waste stream, please list the EPA waste code and the treatment standard below.

SPOSAL RESTRICTIONS NOTIFICAT

RINECO

LAND

*Note: Retain one copy for your files, send one copy with your shipment

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N FORM

DESIGNATED FACILITY TO GENERATOR



white a property of the

Navajo Refining Company Darrell Moore P O Box 159 Artesia, NM 88211-0159 06/10/2009

Certificate of Disposal

Navajo Refining Company, Artesia, NM Manifest # 004092114JJK Received 5/28/2009

This is to certify that the waste materials received from the above referenced generator and manifest number have been managed and disposed of in accordance with all applicable Federal, State, and Local laws and regulations.

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Monte J. Dilick, Vice President of Sales & Marketing

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$ \uparrow$	UNIFORM HAZARD WASTE MANIFES	003		Town 1 7					00	409	211	4 J.	JK.
	5. Generator's Name an	d Mailing Address "	MIAUA U	BEFINENCY	,	"Generator's	Site Address	(if different t	han mailing addres	s)		a may an	
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	7. Hansporter 2 Compa	ly Name								ambo,			
	8. Designated Facility N	ame and Site Address	H was re						U.S. EPA ID N	lumber			-
П			Sup Bus	727									
Π	Facility's Phone:		Sy ariger	6x 7100	11				1.) 4.3	·	ال المعتدد الله المحر	* 91	
П	Pacility's Phone:	escription (including Pr	oner Shinning Name	Hazard Class ID Numb	her		10. Contai	ners	11. Total	12. Unit			
	HM and Packing Gr	oup (if any))	oper ompping Hame,	, Flazard Glass, ID Resili			No.	Туре	Quantity	Wt./Vol.	13. \	Waste Code:	· · · · · · · · · · · · · · · · · · ·
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	14. Special Handling Ins	tructions and Additiona	al Information	·	•	12 - 7 m		Ц					
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	PROFILE	1 04	240773	55	,	(a) A #	* 4 1	P. Cirm					
$\ \ $	15. GENERATOR'S/O	FFEROR'S CERTIFICA	ATION: I hereby dec	lare that the contents of	this consignm	ent are fully and	accurately de	scribed above					
Ш				r condition for transport n to the terms of the atta				ional governn	nental regulations.	lf export shi	pment and I a	m the Prima	ry
Ш	I certify that the wa		ment identified in 40 (CFR 262.27(a) (if I am a	large quantity	generator) or (b) Signature	(if I am a sma	all quantity ge	nerator) is true.		Mon	th Day	Year
\prod		nted/Typed Name	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Í	Signature	. A	(H)	1.4.2.5		l s.	ui Day	l was
Ė	16. International Shipme	ents \square	ort to U.S.		Export fro	ım U.S.	Port of en		7 April 3		<u></u>	<u> </u>	17.73
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TRANSPORTER	Trafisporter 2 Printed/Ty	ped Name	, ,		i	Signature	er die eer	· · · · · · · · · · · · · · · · · · ·		_	Mon	th Day	Year
-	18. Discrepancy								·				Ь
	18a. Discrepancy Indica	tion Space ,	Quantity	Туре			Residue	*****	Partial Reje	ction	Γ	Full Reje	ction
			Quantity	ш туре			Kesidde		rantai Neje	Cuon	L.	ruli Keje	Juon
	18b. Alternate Facility (o	r Generator)			<u>.</u>	Manif	est Reference	Number:	U.S. EPA ID N	ımher			 -
릹	TOD. Alternate Facility (O	Generator)							0.5. EFAID N	umbei			
FA	Facility's Phone:					_			1				
眉	18c. Signature of Alterna	te Facility (or Generato	or)	· · · · · · · · · · · · · · · · · · ·							Mor	ith Day	Year
DESIGNATED FACILITY	19. Hazardous Waste Ri	anad Managamant Mai	thod Codes (i.e. code	se for hazardoue wasta	treatment disc	osal and recycli	na systems)						1
DESI	1. Hazardous Waste Ri	port management Met	2.	es ioi nazaruous waste i		osai, and recycli 3.	ig systellis)		4.				
			<u></u>										
	20. Designated Facility (Printed/Typed Name)wner or Operator: Cer	tification of receipt of	hazardous materials co		nanifest except a Signature	s noted in Iter	n 18a			Me-	th Day	Voor
Ц	r mileo/ rypeu Name				ı	olgnature					Mon I	th Day	Year I

1	RINECO LA	ND POSAL I	RESTRICTIONS	NOTIFICA	N FORM	
Generator:	Navajo				EPA ID #	1881 PRI PRI 1881
	a description of the second	ilea - T	Manifest Doc. #	004092	MITTH	g (G. g) prisons regarder
EPA Codes	K170		Profile# 09	0507735		
	·					
EPA Waste Cod	es Waste Description & Regulatory Subcatego		NON-WASTEWAT	ER	Concentration in Technology Code	
D00	1 Ignitable characteristic waste High TOC subcategory that a SDWA systems.		:WA equivalent/non class l		DEACT and meet : standards or RORG CMBST	
D00	High TOC Ignitable charac 261.21(a)(1)-greater than		roy based on 40 CFR		RORGS; or CMBS or POLYM	т;
D00	2 Corrosive characteristic w non CWA equivalent, or c	_	in non-CWA		DEACT & meet 26i standards	8.48
D004-D011 He	eavy Metals Expressed in Cor	ncentrations of mg/l (T	CLP) and must meet	268.48 Standard	s. (NON-WAST	EWATER)
D004 D005 D006 D007	Barium 21 Cadmium 0.11	D008 D009 D010 D011	Lead 0.75 Mercury 0.20 low m Selenium 5.7 Silver 0.14	ercury subcatego	ory	
D012-D043 Co	oncentrations Expressed in m	g/kg, and Must Meet 2	68.48 Standards.		(NON-WAST	EWATER)
D012 D013 D014 D015 D016 D017 D018 D019 D020 D021 D022 D023	Endrin 0.13 Lindane 0.066 Methoxychlor 0.18 Toxaphene 2.6 2,4 D 10 2,4,5-TP Silvex 7.9 Benzene 10 Carbon Tetrachloride 6.0 Chlordane 0.26 Chlorobenzene 6.0 Chloroform 6.0 o-cresol 5.6	D025 D026 D027 D028 D029 D030 D031 D032 D033 D034	m-cresol 5.6 p-cresol 5.6 Cresol Mixed Isomer p-dichlorbenzene 6.0 1,2-dichloroethane 6. 1,1-dichloroethylene 6.2 4-dinitrotoluene 140 Heptachlor & epoxide Hexachlorbenzene 10 Hexachlorobutadiene Hexachloroethane 30 Methyl Ethyl Ketone 3	0 6.0 D es 0.066	D037 D038 D039 D040 D041 D042	Nitorbenzene 14 Pentachlorophenol 7.4 Pyridine 16 Tetrachloroethylene 6.0 Trichlorethylene 6.0 2,4,5-Trichlorophenol 7.4 2,4,6-Trichlorophenol 7.4 Vinyl Chloride 6.0
7001-F005 Spent Solvoncentrations expre		(NON-WASTEWAT	,	F005 Non-Wasto ssed in mg/l (TC	•	vents
carbont chlorob o-creso m-creso p-creso Cresol r O-Dicht	ne 10 alcohol etrachloride 6.0 enzene 6.0 I 5.6 I 5.6 mixed isomers 11.2 orobenzene 6.0 cetate 33 enzene 10	Methylen Methyl Et Methyl Isc Nitrobenz Pyridine 1 Tetrachlo Toluene 1 111-Trichl 112-Trich Trichloroe	foethylene 6.0			lisulfide 4.8 ranone 0.75 I 0.75

Xylene (mixed isomers) 30

GENERATOR COPY

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Gene	erator:	Navajo	EPAID# NMDO489	1188
PA Wa	aste	(NON-WASTEWATER)	Technology Code **	
	U023, U08	36,U099,U103,U109,U133,U135,U160,U189,U249	CHOXD;CHRED; or CMBST	
	U246		CHOXD;WETOX; or CMBST	
	U115		CHOXD; or CMBST	
	K047		DEACT	
	K108,K109 U001,U003 U021,U026 U056,U05 U091,U092 U122,U123 U154,U156 U182,U184	itropropane, 2-ethaxyethanol),F024,K025,K026,K027,K039,K107, 9,K110,K112,K113,K114,K115,K116,K123,K124,K125,K126, 3,U006,U007,U008,U010,U011,U014,U015,U016,U017,U020, 6,U033,U034,U035,U038,U041,U042,U046,U049,U053,U055, 7,U058,U059,U062,U064,U073,U074,U085,U087,U089,U090, 2,U093,U094,U095,U097,U108,U110,U113,U114,U116,U119, 3,U124,U125,U126,U132,U143,U147,U148,U149,U150,U153, 6,U163,U164,U166,U167,U168,U171,U173,U176,U177,U178, 4,U186,U191,U193,U194,U197,U200,U201,U202,U206,U213, 0,U221,U222,U223,U234,U236,U237,U238,U240,U244,U248, 3,U1350	CMBST	
	K106		RMERC	
	U134		ADGAS fb NEUTR; or NEUTR	
		codes not listed on this form that apply to this was eatment standard below.	ite stream, please list the EPA waste একটা দিন্দি	."

*Note: Retain one copy for your files, send one copy with your shipment

Page 2 10/7/2008

Ple	ase pi	print or type. (Form designed for use on elite (12-pitch) typewriter.)								I. OMB No	. 2050-0039
$\lceil \uparrow \rceil$		IFORM HAZARDOUS 1. Generator ID Number WASTE MENIFEST MMD048918817	2. Page 1 o	f 3. Emerge	ency Response	Phone 8365	4. Manifest	Tracking N	1umber 5553	4 J	JK
	P. An	enerator's Name and Mailing Address avajo Refining Company (D0035) .O. Box 159 rtesia, NM 88211-0159 nerator's Phone: 505 748-3311		Generator's	s Site Address ast Mai ia, NM	(if different t in	han mailing addre	ss)		- 	
11	6. Tr	ransporter 1 Company Name		<u> </u>			U.S. EPA ID I	Number			
П		luid Transport (41382)							88057	931	
	7. Tr	ransporter 2 Company Name					U.S. EPA ID N	Number			
	Dt 27	Designated Facility Name and Site Address URATherm, Inc. (34814) 700 Avenue S An Leon, TX 77539 Illitys Phone: 281=339=1352					U.S. EPA ID I		310537	70	
		Child DOT Door S. C. L. C. D. and Object Name of Class ID Number			10. Contair	nore	44 Takel		1		
	9a. HM			-	No.	Туре	11. Total Quantity	12. Unit Wt./Vol.	13	. Waste Coo	es
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		rans. Phone #					3	399	8		
	125		io occaion	t are fully and			e by the proper sh	ipping name	e, and are cla		· ·
		GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of thi marked and labeled/placarded, and are in all respects in proper condition for transport ac Exporter, I certify that the contents of this consignment conform to the terms of the attach. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a lar	cording to appi ed EPA Acknow	licable interna wledgment of	Consent.	ıll quantity qe	enerator) is true.				nary
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Ш		O. Box 159	BISH	sia. MM	88210)				
П		tesia, 22 88211-0159	1							
П	Gene	rator's Phone: 505 748-3311								
Ħ	6. Tra	insporter 1 Company Name				U.S. EPA ID I	Number			
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1		FORM HAZARDOUS 1. Generator ID Number ASTE MANIFEST 220048918817	2. Page 1 of	523	ency Respons	836.	s 00	503	553	4 J	JK
	Sene	nerator's Name and Mailing Address Train Company (D0035) O. Box 159 Cosia, Wil 88211-0159 trator's Phone: 505 746-3311		501 E	's Site Addres あって 鋭の i.a., 別別)	,			
	ı	ansporter 1 Company Name					U.S. EPA ID N		55028°	<u>ለ ግ ዓ</u>	
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$\ \cdot\ $	Facili	ty's Phone: 281-339=1352						TADS	810537	70	
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Conta No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13	. Waste Cod	les
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	15.	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this marked and labeled/placarded, and are in all respects in proper condition for transport acc	s consignment	t are fully an	d accurately de	escribed abov	e by the proper shi	pping nam	e, and are cla	ssified, pack	kaged,
$\ \ $	- 52	Exporter, I certify that the contents of this consignment conform to the terms of the attache i certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large	ed EPA Acknow	wledgment o	f Consent.		and the first	похронз	impinent and	an the ran	nui y
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12	Facilit	y's Phone:								-#- D-	
DESIGNATED FACILITY	100.8	Signature of Alternate Facility (or Generator)							Mo	onth Day	y Year
Sigh	19. H	azardous Waste Report Management Method Codes (i.e., codes for hazardous waste trea	tment, disposa	al, and recyc	ling systems)		·				1
H		2.	3.				4.				
	-	csignated Facility Owner or Operator: Certification of receipt of hazardous materials cover	ed by the man	ifest except	as noted in Ite	m 18a	<u>L</u>			· · · · ·	
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		narked and labeled/placard Exporter, I certify that the co							ional governr	nental regulations.	If export s	hipment and I	am the Prin	nary
П		certify that the waste minir	nization statement			a large quantity g	enerator) or		all quantity ge	enerator) is true.			-4b D-1	, , ,
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S S	10 40	zardous Waste Report Ma	nagement Method	Codes (i.e., codes t	for hazardous waste	e treatment, dispo	sal, and recy	cling systems)						
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当 	1. 20. De	signated Facility Owner or I/Typed Name		<u> </u>	zardous materials o	covered by the ma	- 	t as noted in Iten	n 18a	4.		Mo	nth Day	y Year

DuraTherm, Inc.Land Disposal Notification Form

Gene	erator Name	Navajo Refini		_	EPA ID No.	NMD)4891 <u>8817 Agail</u> e,
Dura	Therm Waste	Profile No.	090074	_	Manifest No.	0050	35534 JJK
	ified below ar		ous waste codes applicable	to this waste sh	nipment as de	fined by 40) CFR 261, including the
EPA	Hazardous		Subcategory			Treatabil	ity Group
Wa	aste Code	None	Description		Wastew	ater	Non Wastewater
	K170						X
						V	
<u>-</u>			şe .				
This \	waste must be	e managed in acco	rdance with 40 CFR 268.7 a	is indicated belo	w:		
			nent to applicable concentra			R 268.40	
		vaste requires trea	tment to applicable techno				.42, 40 CFR 268.32 or
	familiar with that the wa prohibitions accurate and	the waste through ste complies with set forth in 40 CF	further treatment - I certify analysis and testing or the the treatment standards R 268.32 or RCRA Section aware that there are significant.	rough knowledg specified in 40 n 3004 (d). I b	e of the was CFR Part 20 pelieve that th	e to supp 68 Subpai e informat	ort this certification and t D and all applicable tion I submitted is true,
	familiar with based on m treatment pro CFR Part 26 impermissible	the treatment techny inquiry of these ocess has been op 68 Subpart D and e dilution of the p	erformance standards - I connology and operation of the individuals immediately related and maintained propall applicable prohibitions sorohibited waste. I am awbility of fine and imprisonme	te treatment processions for serly so as to conset forth in 40 Covere that there	cess used to obtaining this mply with the CFR 268.32 o	support th information performanor RCRA S	is certification and that, on. I believe that the ce levels specified in 40 ection 3004 (d) without
		•	ariance – This waste is sul Attached or On file at D		ce under 40 (CFR 268.6	or 40 CFR Subpart C.
	Non-restricte	ed waste – not subj	ect to 40 CFR 268 restriction	18			
	Restricted wa	aste requiring treat	ment (stabilization) for meta	ls. Organics me	et UTS/LDR re	equirement	ts.
l here		7	bmitted is true, accurate, an	d complete to th	e best of my k	nowledge	and information.
	rell Ma	ore Day	ullMou	Enu	Mgr		5/26/09
Name)	Authorize	d Signature	litle	ľ		⊔ate '

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	L	ASTE MANIFEST		4D04891881	17			5-836			<u> 3553</u>	<u> </u>	<u>JK</u>
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		vajo Refinin O. Box 159	ig Compai	ny (DUU35)	,		East	Main NM 8821	^				
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	Fl	uid Transpor nsporter 2 Company Name	t (4138	2)					U.S. EPA ID f	TXDS	988057	931	_
	7. ITal	nsporter 2 Company Name							1	VUITIDE!			
	<u></u>		0.5						U.S. EPA ID I	Maria II.			
11		signated Facility Name and							U.S. EPA ID I	Number			
Ш	27	raTherm, Inc 00 Avenue S	. (34014	*)									
Ш	Sai	n Leon, TX 7	7539						1				
	Facility	n Leon, TX 7 y's Phone: 281-339	9-1352			·	T			TXD9	81053	770	
Н	9a.	9b. U.S. DOT Description and Packing Group (if any		Shipping Name, Haza	ard Class, ID Number,		—	Containers	11. Total	12. Unit	1.0	3. Waste Cod	ies
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	15. Gene 16. In Trans 17. Tr Trans Trans 18. D	GENERATOR'S/OFFEROR'S CERTIFICATION: I here marked and labeled/placarded, and are in all respects in Exporter, I certify that the contents of this consignment of certify that the waste minimization statement identified international Shipments Import to U.S. sporter signature (for exports only): Transporter Acknowledgment of Receipt of Materials sporter 1 Printed/Typed Name AND TESAM Sporter 2 Printed/Typed Name Discrepancy Discrepancy Indication Space Quantity	by declare that the contents of this proper condition for transport acconform to the terms of the attache in 40 CFR 262.27(a) (if I am a large	is consignments cording to applie d EPA Acknow ge quantity gen	are fully and cable intermyledgment or perator) or (t inature)	Port of en Date leave	all quantity go	verby the proper sh mental regulations. enerator) is true.	ipping nam If export s	ne, and are cla hipment and Mo	essified, pact I am the Prin	Year Year Year Year Year Year
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	Gene 16. In Trans 17. Tr Trans Trans 18. D 18a. L	GENERATOR'S/OFFEROR'S CERTIFICATION: I here marked and labeled/placarded, and are in all respects in Exporter, I certify that the contents of this consignment of Lectify that the waste minimization statement identified religions of the content of the content of this consignment of Lectify that the waste minimization statement identified religions. I certify that the waste minimization statement identified religions of the content of the	by declare that the contents of this in proper condition for transport act conform to the terms of the attache in 40 CFR 262.27(a) (if I am a large	is consignments cording to applie d EPA Acknow ge quantity gen Sig	rare fully and cable intermyledgment or legator) or (to inature) u.s.	Port of en Date leav	all quantity g	Partial Reju	ipping nam If export s	e, and are clahipment and	essified, pacil am the Print Day 2.5 2 2 2 2 2 2 2 2 2	Year Year Year Year Year
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Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) type. 4. Manifest Tracking Number UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone **WASTE MANIFEST** MMD048918811 Generator's Site Address of different than mailing address) 5. Generator's Name and Mailing Address Bavajo Kafining Company (D0035) 501 East Main 8.0. Box 359 Artenia, BM 88210 Artesia, MM 08211-0159 Generator's Phone: 404 748...31 U.S. EPA ID Number TYD948057937 Fluid Transport (41382) 7. Transporter 2 Company Name U.S. FPA ID Number U.S. EPA ID Number 8. Designated Facility Name and Site Address DuroTherm, Inc. (34814) 2700 Avenue S San Leon, TX 77539 Facility's Phone: 281-339-1382 TYDGATOS3770 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12. Unit 9a 13. Waste Codes and Packing Group (if any)) Quantity Wt./Vol. HM No. Type Figur. K170 ours 489H RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, GENERATOR PCITI (K170) CM 1 X 26780 14. Special Handling Instructions and Additional Information Profile 090074 Caliche w/Oily Sludge 8039 Em " 1 18 Trans. Phone # 15. GENERATOR'S/OFFEROR'S CERTIFICATION: 1 hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name Month Day Year 16. International Shipments Export from U.S. Port of entry/exit: Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Year DANG THEFT y di (-1)Transporter 2 Printed/Typed Name Month Year 18. Discrepancy 18a. Discrepancy Indication Space Туре Full Rejection □ Quantity Residue Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 4 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year

W. Att.

DuraTherm, Inc.

Land Disposal Notification Form

Ger	erator Name	Navajo Refinii		EPA ID No.	NMD048918817	
Dura	aTherm Waste	Profile No.	090074	Manifest No.	005035535	ブブト
	ntified below ar licable subcate		ous waste codes applicable to	this waste shipment as de	fined by 40 CFR 261,	including the
EP	A Hazardous		Subcategory		Treatability Group	
_ v	/aste Code	None	Description	Wastew	vater Non W	astewater
	K170					X
ļ						
ļ						
<u></u>						
ļ						
 		-				····
ļ						
						
Thic	wasto must be	managed in accor	rdance with 40 CER 269 7 as	indicated helow:		
		-	rdance with 40 CFR 268.7 as in the depth of		ED 269 40	
		aste requires trea	tment to applicable technolo			₹ 268.32 or
	familiar with that the was prohibitions s accurate and	the waste through ste complies with set forth in 40 CF	further treatment - I certify ur analysis and testing or thro the treatment standards sp R 268.32 or RCRA Section aware that there are significa ent.	ugh knowledge of the was ecified in 40 CFR Part 2 3004 (d). I believe that the	te to support this certi 68 Subpart D and al ne information I submi	fication and I applicable tted is true,
	familiar with based on m treatment pro CFR Part 26 impermissible	the treatment tech y inquiry of these press has been ope 8 Subpart D and e dilution of the p	rformance standards - I certi nology and operation of the individuals immediately reserated and maintained proper all applicable prohibitions set rohibited waste. I am awar willty of fine and imprisonment.	treatment process used to ponsible for obtaining this ly so as to comply with the forth in 40 CFR 268.32 oe that there are significan	support this certifications information. I believe performance levels sper RCRA Section 3004	on and that, ve that the ecified in 40 (d) without
		•	ariance – This waste is subje Attached or On file at Dura		CFR 268.6 or 40 CFR	Subpart C.
	Non-restricted	d waste – not subje	ect to 40 CFR 268 restrictions			
	Restricted wa	iste requiring treatr	nent (stabilization) for metals.	Organics meet UTS/LDR re	equirements.	
J here	eby certify that	the information sub	omitted is true, accurate, and o	complete to the best of my k	nowledge and informat	tion.
_	crell Mo	_	10 Muson	· ·	-11	•
<i>J∕o</i> Name		Authorized	d Signature	Env. Mgr.	S/21/69	

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action /

						OPERA?	ГOR		Initi	al Report		Final	Repor
Name of Co	mpany: N	avajo Refini	ng Co. L	LC		Contact: Aa	ron Strange						
		Street Artes	ia, N.M.	88210			No. 575-748-33						
Facility Na	me: Artesia	a Plant				Facility Typ	e: Petroleum Re	efinery	·				
Surface Ow	ner			Mineral (Owner				Lease 1	No.			
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/\	West Line	County			
	 	<u> </u>	La	titude	1	Longitud	le						
				NAT	URE	OF REL	EASE						
		backup of wat		drocarbon			Release: ~ 15 bar	rrels		Recovered: ~ 10			
			d North of	the ISOM unit.		6/18/09 ~ 2	<u> </u>	:e:	Date and ~ 03:00	Hour of Discov	very:	6/19/0)9
Was Immedi	ate Notice (Yes [] No 🗹 Not R	equired	If YES, To	Whom? NA						
By Whom?						Date and H	lour: NA						
Was a Water	course Read		Yes 🗸	 No		If YES, Vo	olume Impacting t	he Wat	ercourse.				
On 6/18/09 a put it back in Describe Are The spill occ sewer inlet, s into the draw disposal facil	t ~ 23:00 th to the Waste a Affected a turred at D-8 ewer vents, A vacuum ity will be c	and Cleanup A 80 and north o and a sewer c truck remove chosen, based	-80 and no rs. The control Take of the ISON eleanout. See the standon the analysen above	orth of the ISOM ontaminated soil value* Munit. This section of the spill of th	on of several contaminations.	vers runs alor in a storm wanated soil was	onto the ground. I into hard top rol g the South side of the ditch next to dug up and place	l-off bir of Eagle Eagle D ed into l	e Draw. Moraw that prohard top rol	ost of the spill of events releases	colle form ispos	cted ne n gettin sal. A	ear the
public health should their or or the environ	or the envir perations hament. In a	ronment. The ave failed to a	acceptance dequately CD accep	e of a C-141 repo	ort by the	NMOCD me contaminati	nd perform correct arked as "Final Roon that pose a three the operator of r	eport" deat to gresponsi	loes not reli round water ibility for c	ieve the operator, surface water ompliance with	or of , hur any	liabilit nan hea	ty
Signature:	Caron	- Sa	n				OIL CONS	SERV	'ATION	DIVISION	[
Printed Name	: Aaron Str	ange				Approved by	District Superviso	or:					
Title: Sr. Env	rironmental	Technician				Approval Dat	e:		Expiration	Date:	_		
E-mail Addre	ss: aaron.st	range@hollyc	orp.com		(Conditions of	Approval:			Attached []		
Date: 6/19/09				Phone: 575-746-	5451							·	
Attach Addi	tional Shee	ts If Necess	arv.										

NON-HAZARDOUS WASTE MANIFEST

PART I:	Generator _	Navajo Refining Co. LLC	
	Address	PO Box 159	(575) 748-3311
	City/State_	Artesia, NM 88211-0159	Telephone No.
ORGINAT	TON OF WAST	E:	
Operation	s Center	Artesía	Permit No
Property N	Name	3 Mile Ditch	
		(Well, Tank Battery, Plant, Facility)	
WASTE II	DENTIFICATION	AND AMOUNT (BARRELS, YARDS, TONS	, CU.FT., LBS., UNITS, ETC.)
Drilling Flu	ıids	Tank Bottoms	Exempt Fluids
Completion		Gas Plant Waste	C117 No
Contaminat		Other Materials	Pit No.
		DESCRIPTION / NOTES	
		12 Yds Cont. Soil de Los	===
		Deure	June
CERTIFIC		waste described above is not hazardous pursuant to 40 CFR I ed below. I certify that the foregoing is true and correct to the signature of Generator's Authorized Agent	-
PART II:	TRANSPOR	RTER: (To be completed in full by	Transporter)
	Name _	S Brothers	
	Address _		Telephone No.
			2
	•		Truck No.
CERTIFIC	CATION: 1 cert	tify that the waste in quantity above was received by me for s	shipment to the destination below.
		Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOSAL	OR RECLAMATION SITE:	Date and Time Received
	_		/
		Controlled Recovery, Inc.	(575) 393-1079 Telephone No.
	Address _	P.O. Box 388	·
	City/State	Hobbs, N.M. 88241-0388	www.crihobbs.com E-mail
CERTIFIC	ATION: 1 cert	ify that the waste described in Part I was received by me via	the transporter described in Part II.
	Ho	he type Drald	6/30/29 6:3.7 4)
		Signature of Facility Agent	Date and Time Received

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

						OPERA	TOR		M Initia	al Report		Fina	al Report
Name of Co	mpany: N	avajo Refini	ng Co. L	LC		Contact: Aa	ron Strange						
		Street Artes	ia, N.M.	88210			No. 575-748-33						
Facility Nar	ne: Artesia	a Plant				Facility Type: Petroleum Refinery							
Surface Ow	ner			Mineral O	wner				Lease N	lo.			
				LOCA	TION	ION OF RELEASE							
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	Vest Line	County	- 		
		,	J										
	<u> </u>		La	titude		Longitud	e						
				NAT	URE	OF RELI	EASE						
Type of Rele	ase: Sewer	backup of plan	it waste w	rater		Volume of	Release: ~ 50 bar	rrels	Volume F	Recovered: ~	40 bar	rels	
Source of Re	lease: South	Bundle Clea	ning Pad.			Date and H 10/08/09 ~	our of Occurrenc 20:00	e:	Date and ~ 08:15	Hour of Disc	overy:	10/0)8/09
Was Immedia	ate Notice (Yes [No □ Not Re	equired		Whom? OCD	· · · · · · · · · · · · · · · · · · ·					
By Whom? A	Aaron Strans					Date and H	our: 10-08-2009	at ~22:1	6				
Was a Water		ched?		-			lume Impacting t						
			Yes ⊠			NA							
If a Watercou	irse was Im	pacted, Descr	ibe Fully.							_			
Describe Cau	ise of Proble	em and Reme	dial Action	Taken *		· · · -							
On 10/08/09	at ~ 20:00 t	he South Bun	dle Cleani	ng pad overflowe									
and part of E and placed in			ick remov	ed the standing lic	quid and	put it back in	nto the Waste Wa	ter Sewe	ers. Any co	ntaminated s	oil wil	ll be	dug up
L				·			·						
		and Cleanup A		ten.* Pad and ran dowr	. Chicur	n Ave and no	ert of Fact Fifth S	t A vac	uum truck	removed the	etandi	na lic	bne biur
put it back in	to the Wast	e Water Sewe											
based on the	analytical to	est results.				e dug up and placed into hard top roll-off bins. A disposal facility will be chosen,							
				is true and comp									
				id/or file certain re se of a C-141 repo									
should their of	perations h	ave failed to a	dequately	investigate and re	emediate	e contaminati	on that pose a thre	eat to gr	ound water	r, surface wa	ter, hu	man l	health
or the environ federal, state,	nment. In a	ddition, NMC	CD accep	tance of a C-141	report de	oes not reliev	e the operator of	responsi	bility for c	ompliance w	ith any	othe	er
rederin, state,	or room in						OIL CONS	SERV	ATION	DIVISIO	N		
Signature: (Tara	/	un	41/							<u></u>		
				7		Approved by	District Supervise	or:					
Printed Name	e: Aaron Sti	range											
Title: Sr. Env	vironmental	Technician				Approval Dat	e:	F	Expiration	Date:			
E-mail Addre	ess: aaron.st	range@hollyc	orp.com			Conditions of	Approval:						
							• •			Attached			
Date: 10/09/0 5451 or 575-				Phone: 575-746-	-								
		ata If Nagana											

^{*} Attach Additional Sheets If Necessary

Client:

Holly Energy Partners

Project:

Note:

South Bundle Pad

Sample ID:

BH #1

BH#

Collection Date: 1/6/2010 08:45 AM

Date: 21-Jan-10

Work Order: 1001092

Lab ID: 1001092-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO	\		SW8015	M	Prep Date: 1/8/2010	Analyst: KMB
TPH (Diesel Range)	23		8.5	mg/Kg	5	1/13/2010 10:52 AM
TPH (Motor Oil Range)	250		17	′ mg/Kg	5	1/13/2010 10:52 AM
Surr: 2-Fluorobiphenyl	102		70-130	%REC	5	1/13/2010 10:52 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050) mg/Kg	1	1/13/2010 06:45 PM
Surr: 4-Bromofluorobenzene	92.9		70-130	%REC	1	1/13/2010 06:45 PM
MERCURY			SW7471	Α	Prep Date: 1/12/201	0 Analyst: JCJ
Mercury	0.0366		0.00346	mg/Kg	1	1/12/2010 04:15 PM
METALS			SW6020		Prep Date: 1/11/201	0 Analyst: SKS
Arsenic	5.27		0.463	mg/Kg	1	1/11/2010 08:42 PM
Barium	153		0.463	mg/Kg	1	1/11/2010 08:42 PM
Cadmium	ND		0.463	3 mg/Kg	1	1/11/2010 08:42 PM
Chromium	22.5		0.463	mg/Kg	1	1/11/2010 08:42 PM
Lead	16.6		0.463	mg/Kg	1	1/11/2010 08:42 PM
Selenium	1.04		0.463	mg/Kg	1	1/11/2010 08:42 PM
Silver	ND		0.463	3 mg/Kg	1	1/11/2010 08:42 PM

Date: 21-Jan-10

Client:

Holly Energy Partners

Project:

Note:

South Bundle Pad

Sample ID:

BH #2

Collection Date: 1/6/2010 08:52 AM

121.1.113

Work Order: 1001092

Lab ID: 1001092-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
TPH DRO/ORO			SW8015	M	Prep Date:	1/8/2010	Analyst: KMB
TPH (Diesel Range)	11		8.5	mg/Kg	5		1/13/2010 11:11 AM
TPH (Motor Oil Range)	250		17	mg/Kg	5		1/13/2010 11:11 AM
Surr: 2-Fluorobiphenyl	119		70-130	%REC	5		1/13/2010 11:11 AM
GASOLINE RANGE ORGANICS			SW8015				Analyst: RKG
Gasoline Range Organics	ND		0.050) mg/Kg	1		1/13/2010 07:10 PM
Surr: 4-Bromofluorobenzene	90.3		70-130	%REC	1		1/13/2010 07:10 PM
MERCURY			SW7471	Α	Prep Date:	1/12/2010	Analyst: JCJ
Mercury	0.0697		0.00348	mg/Kg	1		1/12/2010 04:17 PM
METALS			SW6020		Prep Date:	1/11/2010	Analyst: SKS
Arsenic	4.41		0.439	mg/Kg	1		1/11/2010 08:48 PM
Barium	121		0.439	mg/Kg	1		1/11/2010 08:48 PM
Cadmium	ND		0.439	mg/Kg	1		1/11/2010 08:48 PM
Chromium	16.0		0.439	mg/Kg	1		1/11/2010 08:48 PM
Lead	31.4		0.439	mg/Kg	1		1/11/2010 08:48 PM
Selenium	0.715		0.439	mg/Kg	1		1/11/2010 08:48 PM
Silver	ND		0.439	mg/Kg	1		1/11/2010 08:48 PM

See Qualifiers Page for a list of qualifiers and their explanation.

10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel, +1 281 530 5656 Fax. +1 281 530 5887

Chain of Custody Form

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Page	

O ALS Laboratory Group 3352 128th Ave. Holfand, MI 49424-9263 Tel: +1 616 399 6070 Fax: +1 616 399 6185

		ALS Project Manager.	Manager:			ALS Work Order #: 100 067	20 001 1:#	
Customer Information				ĺ	Parameter/	Parameter/Method Request for Analysis	st for Anal	ysis
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Client:

Holly Energy Partners

Project:

South Bundle Pad

Sample ID:

F037 BH#1

Collection Date: 11/4/2009 01:36 PM

Date: 19-Nov-09

Work Order: 0911117

Lab ID: 0911117-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
TPH DRO/ORO			SW8015	5M	Prep Date:	11/6/2009	Analyst: KMB
TPH (Diesel Range)	160		3	4 mg/Kg	20		11/17/2009 05:53 PM
Surr: 2-Fluorobiphenyl	105		70-13	0 %REC	20		11/17/2009 05:53 PM
GASOLINE RANGE ORGANICS			SW8015	5			Analyst: RKG
Gasoline Range Organics	ND		0.05	0 mg/Kg	1		11/9/2009 01:39 PM
Surr: 4-Bromofluorobenzene	80.2		70-13	0 %REC	1		11/9/2009 01:39 PM
MERCURY			SW7471	IA	Prep Date:	11/9/2009	Analyst: JCJ
Mercury	0.204		0.0033	5 mg/Kg	1		11/9/2009 09:02 PM
METALS			SW6020)	Prep Date:	11/9/2009	Analyst: SKS
Arsenic	6.71		0.43	9 mg/Kg	1		11/9/2009 06:38 PM
Barium	126		0.43	9 mg/Kg	1		11/9/2009 06:38 PM
Cadmium	ND		0.43	9 mg/Kg	1		11/9/2009 06:38 PM
Chromium	36.2		0.43	9 mg/Kg	1		11/9/2009 06:38 PM
Lead	20.1		0.43	9 mg/Kg	1		11/9/2009 06:38 PM
Selenium	9.09		0.43	9 mg/Kg	1	* *	11/9/2009 06:38 PM
Silver	ND		0.43	9 mg/Kg	1		11/9/2009 06:38 PM
LOW-LEVEL PAHS			SW8270)	Prep Date:	11/18/2009	Analyst: LG
Acenaphthene	ND		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Acenaphthylene	ND		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Anthracene	ND		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Benz(a)anthracene	0.010		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Benzo(a)pyrene	0.014		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Benzo(b)fluoranthene	0.0099		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Benzo(g,h,i)perylene	0.019		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Benzo(k)fluoranthene	0.012		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Chrysene	0.064		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Dibenz(a,h)anthracene	ND		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Fluoranthene	0.010		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Fluorene	ND		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Indeno(1,2,3-cd)pyrene	0.0097		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Naphthalene	ND		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Phenanthrene	0.013		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Pyrene	0.050		0.006	6 mg/Kg	1		11/18/2009 05:03 PM
Surr: 2-Fluorobiphenyl	82. <i>4</i>		43-12	5 %REC	1		11/18/2009 05:03 PM
Surr: 4-Terphenyl-d14	96.1		32-12	5 %REC	1		11/18/2009 05:03 PM
Surr: Nitrobenzene-d5	64.8		37-12	5 %REC	1		11/18/2009 05:03 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Holly Energy Partners

Project:

Note:

South Bundle Pad

Sample ID:

F037 BH#2

Collection Date: 11/4/2009 01:38 PM

Date: 19-Nov-09

Work Order: 0911117

Lab ID: 0911117-02

Matrix: SOIL

Analyses	Result	Report Qual Limit U	nits	Dilution Factor	Date Analyzed
TPH DRO/ORO	-	SW8015M	-	Prep Date: 11/6/2009	9 Analyst: KMB
TPH (Diesel Range)	16	1.7	mg/Kg	1	11/17/2009 05:21 PM
Surr: 2-Fluorobiphenyl	85.8	70-130	%REC	1	11/17/2009 05:21 PM
GASOLINE RANGE ORGANICS		SW8015			Analyst: RKG
Gasoline Range Organics	ND	0.050	mg/Kg	1	11/10/2009 04:28 PM
Surr: 4-Bromofluorobenzene	82.4	70-130	%REC	1	11/10/2009 04:28 PM
MERCURY		SW7471A		Prep Date: 11/9/2009	Analyst: JCJ
Mercury	0.0594	0.00350	mg/Kg	1	11/9/2009 09:04 PM
METALS		SW6020		Prep Date: 11/9/2009	Analyst: SKS
Arsenic	5.57	0.442	mg/Kg	1	11/9/2009 06:44 PM
Barium	105	0.442	mg/Kg	1	11/9/2009 06:44 PM
Cadmium	ND	0.442	mg/Kg	1	11/9/2009 06:44 PM
Chromium	16.1	0.442	mg/Kg	1	11/9/2009 06:44 PM
Lead	14.8	0.442	mg/Kg	1	11/9/2009 06:44 PM
Selenium	0.958	0.442	mg/Kg	· 1	11/9/2009 06:44 PM
Silver	ND	0.442	mg/Kg	1	11/9/2009 06:44 PM

Client:

Holly Energy Partners

Project:

Note:

South Bundle Pad

Sample ID:

F037 BH#3

Collection Date: 11/4/2009 01:41 PM

Date: 19-Nov-09

Work Order: 0911117

Lab ID: 0911117-03

Matrix: SOIL

Analyses	Result		port mit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO	-	SI		VI	Prep Date:	11/6/2009 Analyst: KMB
TPH (Diesel Range)	ND		34	mg/Kg	20	11/17/2009 04:48 PM
Surr: 2-Fluorobiphenyl	87.7		70-130	%REC	20	11/17/2009 04:48 PM
GASOLINE RANGE ORGANICS		SI	N8015			Analyst: RKG
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 04:52 PM
Surr: 4-Bromofluorobenzene	81.6		70-130	%REC	1	11/10/2009 04:52 PM
MERCURY		SI	N7471	4	Prep Date:	11/9/2009 Analyst: JCJ
Mercury	0.0403		0.00348	mg/Kg	1	11/9/2009 09:06 PM
METALS		SI	N6020		Prep Date:	11/9/2009 Analyst: SKS
Arsenic	4.10		0.442	mg/Kg	1	11/9/2009 06:50 PM
Barium	126		0.442	mg/Kg	1	11/9/2009 06:50 PM
Cadmium	ND		0.442	mg/Kg	1	11/9/2009 06:50 PM
Chromium	12.3		0.442	mg/Kg	1	11/9/2009 06:50 PM
Lead	48.0		0.442	mg/Kg	1	11/9/2009 06:50 PM
Selenium	1.07		0.442	mg/Kg	1	11/9/2009 06:50 PM
Silver	ND		0.442	mg/Kg	1	11/9/2009 06:50 PM

Client:

Holly Energy Partners

Project:

South Bundle Pad

Sample ID:

F037 BH#4

Collection Date: 11/4/2009 01:49 PM

Date: 19-Nov-09

Work Order: 0911117

Lab ID: 0911117-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015	М	Prep Date: 11	/6/2009 Analyst: KMB
TPH (Diesel Range)	580		34	‡ mg/Kg	20	11/17/2009 05:21 PM
Surr: 2-Fluorobiphenyl	59.5	S	70-130	%REC	20	11/17/2009 05:21 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050) mg/Kg	1	11/10/2009 01:52 PM
Surr: 4-Bromofluorobenzene	82.3		70-130	%REC	1	11/10/2009 01:52 PM
MERCURY			SW7471	Α	Prep Date: 11	/9/2009 Analyst: JCJ
Mercury	0.0496		0.00348	B mg/Kg	1	11/9/2009 09:08 PM
METALS			SW6020		Prep Date: 11	9/2009 Analyst: SKS
Arsenic	6.39		0.463	mg/Kg	1	11/9/2009 06:56 PM
Barium	121		0.463	mg/Kg	1	11/9/2009 06:56 PM
Cadmium	· ND		0.463	3 mg/Kg	1	11/9/2009 06:56 PM
Chromium	16.3		0.463	mg/Kg	1	11/9/2009 06:56 PM
Lead	27.0		0.463	mg/Kg	1	11/9/2009 06:56 PM
Selenium	0.930		0.463	3 mg/Kg	1	11/9/2009 06:56 PM
Silver	ND		0.463	B mg/Kg	1	11/9/2009 06:56 PM
LOW-LEVEL PAHS			SW8270		Prep Date: 11/	18/2009 Analyst: LG
Acenaphthene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Anthracene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benz(a)anthracene	0.016		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benzo(a)pyrene	0.016		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benzo(b)fluoranthene	0.021		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benzo(g,h,i)perylene	0.012		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benzo(k)fluoranthene	0.016		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Chrysene	0.048		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Fluoranthene	0.036		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Fluorene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Indeno(1,2,3-cd)pyrene	0.015		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Phenanthrene	0.023		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Pyrene	0.043		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Surr: 2-Fluorobiphenyl	79.3		43-125	%REC	1	11/18/2009 05:24 PM
Surr: 4-Terphenyl-d14	91.1		32-125	%REC	1	11/18/2009 05:24 PM
Surr: Nitrobenzene-d5	60.6		37-125	%REC	1	11/18/2009 05:24 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Holly Energy Partners

Project:

Note:

South Bundle Pad

Sample ID:

F037 BH#5

Collection Date: 11/4/2009 01:53 PM

Date: 19-Nov-09

Work Order: 0911117

Lab ID: 0911117-05

Matrix: SOIL

Analyses	Result	Report Qual Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO	···	SW801	5M	Prep Date: 11/6/20	D9 Analyst: KMB
TPH (Diesel Range)	35	3	4 mg/Kg	20	11/11/2009 04:31 PM
Surr: 2-Fluorobiphenyl	84.6	70-13	80 %REC	20	11/11/2009 04:31 PM
GASOLINE RANGE ORGANICS		SW801	5		Analyst: RKG
Gasoline Range Organics	ND	0.05	0 mg/Kg	1	11/10/2009 05:17 PM
Surr: 4-Bromofluorobenzene	84.9	70-13	80 %REC	1	11/10/2009 05:17 PM
MERCURY		SW747	1A	Prep Date: 11/9/200	9 Analyst: JCJ
Mercury	0.0496	0.0034	l9 mg/Kg	1	11/9/2009 09:10 PM
METALS		SW602	0	Prep Date: 11/9/200	9 Analyst: SKS
Arsenic	5.26	0.45	55 mg/Kg	1	11/9/2009 07:08 PM
Barium	140	0.45	55 mg/Kg	1	11/9/2009 07:08 PM
Cadmium	ND	0.45	55 mg/Kg	1	11/9/2009 07:08 PM
Chromium	19.0	0.45	55 mg/Kg	1	11/9/2009 07:08 PM
Lead	32.7	0.45	55 mg/Kg	1	11/9/2009 07:08 PM
Selenium	1.10	. 0.45	55 mg/Kg	1	11/9/2009 07:08 PM
Silver	ND	0.45	55 mg/Kg	1	11/9/2009 07:08 PM

See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Holly Energy Partners

Project:

Note:

South Bundle Pad

Sample ID:

F037 BH#6

Collection Date: 11/4/2009 01:56 PM

Date: 19-Nov-09

Work Order: 0911117

Lab ID: 0911117-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015	М	Prep Date: 11/6/20	09 Analyst: KMB
TPH (Diesel Range)	26		1.7	mg/Kg	1	11/17/2009 05:53 PM
Surr: 2-Fluorobiphenyl	108		70-130	%REC	1	11/17/2009 05:53 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050) mg/Kg	1	11/12/2009 03:13 PM
Surr: 4-Bromofluorobenzene	84.1		70-130	%REC	1	11/12/2009 03:13 PM
MERCURY			SW7471	Α	Prep Date: 11/9/20	09 Analyst: JCJ
Mercury	0.0131		0.00358	3 mg/Kg	1	11/9/2009 09:12 PM
METALS			SW6020		Prep Date: 11/9/20	09 Analyst: SKS
Arsenic	3.21		0.463	3 mg/Kg	1	11/9/2009 07:14 PM
Barium	142		0.463	3 mg/Kg	1	11/9/2009 07:14 PM
Cadmium	ND		0.463	3 mg/Kg	1	11/9/2009 07:14 PM
Chromium	10.8		0.463	3 mg/Kg	1	11/9/2009 07:14 PM
Lead	11.4		0.463	3 mg/Kg	1	11/9/2009 07:14 PM
Selenium	0.994		0.463	mg/Kg	1	11/9/2009 07:14 PM
Silver	ND		0.463	3 mg/Kg	1	11/9/2009 07:14 PM

See Qualifiers Page for a list of qualifiers and their explanation.

Client:

Holly Energy Partners

Project:

South Bundle Pad

Sample ID:

Trip Blank

Collection Date: 11/4/2009 01:56 PM

Date: 19-Nov-09

Work Order: 0911117

Lab ID: 0911117-07

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS			SW8015	;		Analyst: RKG
Gasoline Range Organics	ND		0.050	0 mg/L	1	11/8/2009 11:06 PM
Surr: 4-Bromofluorobenzene	81.0		70-13	0 %REC	1	11/8/2009 11:06 PM

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Note: See Qualifiers Page for a list of qualifiers and their explanation.

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Chain of Custody Form

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Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Things atherwise narred in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

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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 Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance

Form C-141

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

Release Notification and Corrective Action OPERATOR ☐ Final Report M Initial Report Name of Company: Navajo Refining Co. LLC Contact: Aaron Strange Address: 501 E. Main Street Artesia, N.M. 88210 Telephone No. 575-748-3311 Facility Name: Artesia Plant Facility Type: Petroleum Refinery Surface Owner Mineral Owner Lease No. LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line Unit Letter Section Township County Range _ Longitude__ Latitude NATURE OF RELEASE Volume of Release: ~ 10 barrels Type of Release: Sewer backup of process water Volume Recovered: ~ 8 barrels Source of Release: Sewer Box at the north end of ISOM unit. Date and Hour of Occurrence: Date and Hour of Discovery: 10/14/09 10/13/09 ~21:00 ~ 06:00 If YES, To Whom? N/A Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required By Whom? N/A Date and Hour: 10-08-2009 at ~22:16 Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* On 10/13/09 at ~ 21:00 a sump (connected to the sewer) at the north end of the ISOM unit was high. A diaphragm pump was used to transfer it to another sump downstream to prevent it from overflowing. However during the night the downstream sump overflowed. The pump was first turned off then the downstream sump was pumped into another sewer. A vacuum truck has been removing the standing liquid and putting it back into the Waste Water Sewers. Any contaminated soil will be dug up and placed into hard top roll-off bins. Describe Area Affected and Cleanup Action Taken.* The spill occurred north of the ISOM unit by the North Side Flare Drum. It left puddles by the flare drum and also collected in the storm water ditch. A vacuum truck has been removing the standing liquid and putting it back into the Waste Water Sewers. The contaminated soil is being dug up and placed into hard top roll-off bins. The contaminated soil will be disposed of as hazardous waste F037/F038 with D018. 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. OIL CONSERVATION DIVISION Signature: Davar Surry Approved by District Supervisor: Printed Name: Aaron Strange Title: Sr. Environmental Technician Approval Date: Expiration Date: E-mail Address: aaron.strange@hollycorp.com Conditions of Approval: Attached

Phone: 575-746-

Date: 10/14/09

 ⁵⁴⁵¹ or 575-703-5057
 Attach Additional Sheets If Necessary

Client:

Holly Energy Partners

Project:

ISDM Overflow

Sample ID:

Note:

F037 BH#1

Collection Date: 11/4/2009 02:22 PM

Date: 16-Nov-09

Work Order: 0911131

Lab ID: 0911131-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID	· · ·		SW8015	———— М	Prep Date: 11/6/20	009 Analyst: KMB
TPH (Diesel Range)	ND		49	mg/Kg	1	11/10/2009 09:27 PM
Surr: 2-Fluorobiphenyl	84.9		70-130	%REC	1	11/10/2009 09:27 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 06:06 PM
Surr: 4-Bromofluorobenzene	82.6		70-130	%REC	1	11/10/2009 06:06 PM
MERCURY	•		SW7471	4	Prep Date: 11/9/20	09 Analyst: JCJ
Mercury	0.139		0.00353	mg/Kg	1	11/9/2009 09:14 PM
METALS			SW6020		Prep Date: 11/9/20	009 Analyst: SKS
Arsenic	6.60		0.450	mg/Kg	1	11/9/2009 10:42 PM
Barium	142		0.450	mg/Kg	1	11/9/2009 10:42 PM
Cadmium	0.631		0.450	mg/Kg	1	11/9/2009 10:42 PM
Chromium	42.9		0.450	mg/Kg	1	11/9/2009 10:42 PM
Lead	78.3		0.450	mg/Kg	1	11/9/2009 10:42 PM
Selenium	5.06		0.450	mg/Kg	1	11/9/2009 10:42 PM
Silver	ND		0.450	mg/Kg	1	11/9/2009 10:42 PM

Client: Holly Energy Partners

Project: ISDM Overflow

Sample ID: F037 BH#2 Collection Date: 11/4/2009 02:24 PM **Date:** 16-Nov-09

Work Order: 0911131

Lab ID: 0911131-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			SW8015	M	Prep Date: 11/6/2	009 Analyst: KMB
TPH (Diesel Range)	570		49	mg/Kg	1	11/10/2009 07:49 PM
Surr: 2-Fluorobiphenyl	103		70-130	%REC	1	11/10/2009 07:49 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/12/2009 11:50 PM
Surr: 4-Bromofluorobenzene	88.4		70-130	%REC	1	11/12/2009 11:50 PM
MERCURY			SW7471	А	Prep Date: 11/9/20	009 Analyst: JCJ
Mercury	0.144		0.00355	mg/Kg	1	11/9/2009 09:20 PM
METALS			SW6020		Prep Date: 11/9/20	009 Analyst: SKS
Arsenic	5.75		0.481	mg/Kg	1	11/9/2009 10:48 PM
Barium	170		0.481	mg/Kg	1	11/9/2009 10:48 PM
Cadmium	ND		0.481	mg/Kg	1	11/9/2009 10:48 PM
Chromium	27.4		0.481	mg/Kg	1	11/9/2009 10:48 PM
Lead	153		0.481	mg/Kg	1	11/9/2009 10:48 PM
Selenium	1.61		0.481	mg/Kg	1,	11/9/2009 10:48 PM
Silver	ND		0.481	mg/Kg	1.	11/9/2009 10:48 PM

Note:

Client: Holly Ene

Holly Energy Partners

Project: Sample ID:

Note:

ISDM Overflow F037 BH#3

Collection Date: 11/4/2009 02:27 PM

Date: 16-Nov-09

Work Order: 0911131

Lab ID: 0911131-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			SW8015	 М	Prep Date: 11/6/2	009 Analyst: KMB
TPH (Diesel Range)	ND		50	mg/Kg	1	11/10/2009 08:21 PM
Surr: 2-Fluorobiphenyl	82.9		70-130	%REC	1	11/10/2009 08:21 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/13/2009 12:14 AM
Surr: 4-Bromofluorobenzene	89.9		70-130	%REC	1	11/13/2009 12:14 AM
MERCURY			SW7471	A	Prep Date: 11/9/2	009 Analyst: JCJ
Mercury	0.271		0.00356	mg/Kg	1	11/9/2009 09:22 PM
METALS			SW6020		Prep Date: 11/9/2	009 Analyst: SKS
Arsenic	6.09		0.439	mg/Kg	1	11/9/2009 10:54 PM
Barium	120		0.439	mg/Kg	1	11/9/2009 10:54 PM
Cadmium	ND		0.439	mg/Kg	1	11/9/2009 10:54 PM
Chromium	148		0.439	mg/Kg	1	11/9/2009 10:54 PM
Lead	227		4.39	mg/Kg	10	11/10/2009 03:31 PM
Selenium	3,48		0.439	mg/Kg	1	11/9/2009 10:54 PM
Silver	ND		0.439	mg/Kg	1.1	11/9/2009 10:54 PM

Client: Holly Energy Partners

Project: ISDM Overflow

Sample ID: F037 BH#4 **Collection Date:** 11/4/2009 02:30 PM

Work Order: 0911131

Lab ID: 0911131-04

Date: 16-Nov-09

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			SW8015	 М	Prep Date: 11/6/2009	Analyst: KMB
TPH (Diesel Range)	890		49	mg/Kg	1	11/10/2009 08:54 PM
Surr: 2-Fluorobiphenyl	80.4		70-130	%REC	1	11/10/2009 08:54 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/13/2009 12:39 AM
Surr: 4-Bromofluorobenzene	93.2		70-130	%REC	1	11/13/2009 12:39 AM
MERCURY			SW7471	Α	Prep Date: 11/9/2009	Analyst: JCJ
Mercury	0.342		0.00355	mg/Kg	1	11/9/2009 09:24 PM
METALS			SW6020		Prep Date: 11/9/2009	Analyst: SKS
Arsenic	5.76		0.446	mg/Kg	1	11/9/2009 11:00 PM
Barium	126		0.446	mg/Kg	1	11/9/2009 11:00 PM
Cadmium	ND		0.446	mg/Kg	1	11/9/2009 11:00 PM
Chromium	141		0.446	mg/Kg	1	11/9/2009 11:00 PM
Lead	262		4.46	mg/Kg	10	11/10/2009 03:37 PM
Selenium	4.82		0.446	mg/Kg	1	11/9/2009 11:00 PM
Silver	ND		0.446	mg/Kg	1	11/9/2009 11:00 PM

See Qualifiers Page for a list of qualifiers and their explanation.

Note:

Client:

Holly Energy Partners

Project:

Note:

ISDM Overflow

Sample ID:

F037 BH#5

Collection Date: 11/4/2009 02:32 PM

Date: 16-Nov-09

Work Order: 0911131

Lab ID: 0911131-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			SW8015	M	Prep Date: 11/6/2009	Analyst: KMB
TPH (Diesel Range)	1,200		50	mg/Kg	1	11/10/2009 09:27 PM
Surr: 2-Fluorobiphenyl	124		70-130	%REC	1	11/10/2009 09:27 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 07:45 PM
Surr: 4-Bromofluorobenzene	80.3		70-130	%REC	1	11/10/2009 07:45 PM
MERCURY			SW7471	Α	Prep Date: 11/9/2009	Analyst: JCJ
Mercury	0.379		0.00358	mg/Kg	1	11/9/2009 09:26 PM
METALS			SW6020		Prep Date: 11/9/2009	Analyst: SKS
Arsenic	7.36		0.476	mg/Kg	1	11/9/2009 11:06 PM
Barium	151		0.476	mg/Kg	1	11/9/2009 11:06 PM
Cadmium	ND		0.476	mg/Kg	1	11/9/2009 11:06 PM
Chromium	210		4.76	mg/Kg	10	11/10/2009 03:43 PM
Lead	351		4.76	mg/Kg	10	11/10/2009 03:43 PM
Selenium	6.04	,	0.476	mg/Kg	1	11/9/2009 11:06 PM
Silver	ND			mg/Kg	1	11/9/2009 11:06 PM

Date: 16-Nov-09

Client:

Holly Energy Partners

Project:

Note:

ISDM Overflow

Sample ID:

F037 BH#6

Collection Date: 11/4/2009 02:35 PM

1007 1011110

Work Order: 0911131

Lab ID: 0911131-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			SW8015	M	Prep Date: 11/6/200	9 Analyst: KMB
TPH (Diesel Range)	800		49	mg/Kg	1	11/10/2009 09:59 PM
Surr: 2-Fluorobiphenyl	94.7		70-130	%REC	1	11/10/2009 09:59 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 08:10 PM
Surr: 4-Bromofluorobenzene	78.9		70-130	%REC	1	11/10/2009 08:10 PM
MERCURY			SW7471	Α	Prep Date: 11/9/200	9 Analyst: JCJ
Mercury	0.171		0.00353	mg/Kg	1	11/9/2009 09:28 PM
METALS			SW6020		Prep Date: 11/9/200	9 Analyst: SKS
Arsenic	8.37		0.481	mg/Kg	1	11/9/2009 11:24 PM
Barium	142		0.481	mg/Kg	1	11/9/2009 11:24 PM
Cadmium	ND		0.481	mg/Kg	1	11/9/2009 11:24 PM
Chromium	102		0.481	mg/Kg	1	11/9/2009 11:24 PM
Lead	148		4.81	mg/Kg	10	11/10/2009 03:49 PM
Selenium	3.60		0.481	mg/Kg	1	11/9/2009 11:24 PM
Silver	ND		0.481	mg/Kg	· 1	11/9/2009 11:24 PM

10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 D

Chain of Custody Form

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☐ ALS Laboratory Group 3352 128th Ave. Holland, MI 49424-9263 Tel: +1 616 399 6070 Fax: +1 616 399 6185

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Preservative Key:	2-HNO3 3-H-504	NAOH 5-NAS. O. 1 6:NAHSO 7:0ther 8-4°C 9:5035.	TOTAL STATE OF THE

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Theless adherence narmed in a formal rentract, corvices manided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

Copyright 2008 by ALS Laboratory Group.

		ASTE MANIFEST MANUSCALIST 195-17	_1	505-749-3	311) (0.6)	Subject: \$1,000	. -		
\prod^{3}		nerator's Name and Malling Address		Generator's Site Ad	dress (if different ti	han mailing addres	(s)	CCU	<u> </u>	K
Н	- 40	Marajo Resning Cordoacy 501 E. Mair P. D. BOX 159		Nasalo I	fi <i>elall</i> ag Cem	038Y 50	IEM	ain	2017度	
П		Artesia, NAA 88211-0759 USA		, स्टाहरू ।	HM 33210 1	dise.	-, ,	-, -, ,	. 7	
		rator's Phone: Sps. 7 88. 5345 Sps. 48 Montes								<u>:</u>
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11		FLUID TRANSPORTS, INC.			- پير ^{نت} جروا د		9000513	GP)		
Ш	. Tran	nsporter 2 Company Name				U.S. EPA ID N	Number			
١L						<u>. J </u>	·			
\prod		signated Facility Name and Site Address				U.S. EPA ID N	Number			
11		RINECO 1807 VULCAN ROAD	**			ు,కొ!)55 105 T	sinj.		
Ш		BENTON, AR	;	:						
11,	acility	y's Phone: 901-778-6325				j				
١r	a.	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		10. 0	Containers	11. Total	12. Unit	40	\W	
1 1	-IM	and Packing Group (if any))		No.	Туре	Quantity	Wt./Vol.	13.	Waste Codes	S
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11		BOX # 20 S. 16)	*			Į.	12	7	Ų)	
11	5. G	GENERATOR'S/OFFEROR'S CERTIFICATION: Hereby declare that the contents of this contents of the	onsignment	are fully and accurate	ely described abov	e by the proper sh	ipping name	and are cla	ssified, packa	aged.
Ш	n	narked and labeled/placarded, and are in all respects in proper condition for transport accord	ding to appli	cable international ar	nd national governr					
П		Exporter, I certify that the contents of this consignment conform to the terms of the attached certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large				enerator) is true				
11			Sig	nature	~			Mo	nth Day	Year
\prod	4	ator's/Offeror's Printed/Typed Name Ar ON 5 1 1 A 11 B P emational Shipments	10	inatyre down	1	سعادر بستات		· Y	0129	109
<u> </u>	6. Inte	ernational Shipments								_ /_ _
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a li	<u> </u>	ignature of Alternate Facility (or Generator)						Mo	onth Day	Year
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		signated Facility Owner or Operator: Certification of receipt of hazardous materials covered I/Typed Name		nature	m nem 18a		·	Mo	nth Day	Year
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	WASTE MAN	IFEST	MMC048918617		1 2 5	<u> </u>	~ × -	} 1 54 m	44.11			
	5. Generator's Nam	ne and Mailin	g Address		Gener	ator's Site Address	s (if different th	an mailing addres	s)	<u> </u>	<u> </u>	- Compa
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	Generator's Phone 6. Transporter 1 Co				 	· · · · · · · · · · · · · · · · · · ·		U.S. EPA ID N	lumber			
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П	8. Designated Faci	•						U.S. EPA ID N	iumber 3931-957	F(2+)		
П	1007 VUL BENTON,		RD						and the same of			
П		501-778-	6825					-				
			on (including Proper Shipping Name	, Hazard Class, ID Number,		10. Conta	iners	11. Total	12. Unit	13	. Waste Codes	
		ng Group (If a				No.	Туре	Quantity	Wt./Vol.		. *******	
¥	γ 1. RQ.	M43077,	Hazardous Waate Solid I	MOS (F037) 9, PO I	01, ()	,	€#	A PATOK	Cr	FOGT	D-018	
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	1. 0910-11	•	s and Additional Information ERGSH 71 F037 Tank Sk	រាជិទ		•	5	ewer	over	4/01	r	
					* **							
				Box# -	20555		17/	1757/				
			R'S CERTIFICATION: I hereby dec ded, and are in all respects in prope									
	Exporter, I ce	rtify that the o	contents of this consignment conform	n to the terms of the attache	d EPA Acknowledgme	nt of Consent.	-	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			.,
	Generator's/Offeror		imization statement identified in 40 (ped Name	CFR 262.27(a) (II I ain a laig	Signature					Mo	onth Day	Year
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Ξ	16. International St	hipments	Import to U.S.		Export from U.S.	Port of e	ntry/exit:	عثنت	~			
≥	Transporter signat					Date leav	ving U.S.:					
TRANSPORTER	17. Transporter Ack Transporter 1 Printe		t of Receipt of Materials		Signature	1		Karana and a same and a		Mo	onth Day	Year
Š	Ros	2 5	TECHERT		1 4	NA	Color	76		1/	0130	109
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			or anne 1. J	(1) anoxy	WILLIAM IT WILL	月VとD 1/0 ロ Manifest Reference	i † ⊞) ∃ ⊜ (ce Number:	imp. /w	and at v	1 (2004	etun.	•
=	18b. Alternate Faci	ility (or Gener	ator)	· · · · · · · · · · · · · · · · · · ·				U.S. EPA ID N	lumber			
FACILITY				. •				,				
3	Facility's Phone: 18c. Signature of A	Iternate Facil	lity (or Generator)			 				T N	onth Day	Ye
Ä	100. Olghalare or 7	incrnote r doi	ny (or oeneratory							"	1	1
2	19. Hazardous Wa	ste Report M	anagement Method Codes (i.e., cod	es for hazardous waste treat	tment, disposal, and n	ecycling systems)						
DESIGNALED	1.	1 01	2.		3.			4.				
l	J + 1 C	74.1		· · · · · · · · · · · · · · · · · · ·			د پر پر د ایا د					
	20. Designated Fac Pfinled/Typed Nam		r Operator: Certification of receipt of	f hazardous materials covere	ed by the manifest exc Signature	cept as noted in Ite	em 18a /	-)			onth Day	 Ş
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P/	Form 8700-22 (F	Rev. 3-05) F	Previous editions are obsolete.	 		sign of the	J# 1	DESIGNATI	D FAC	ILITY T	O GENE	RA'
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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

Release Notification and Corrective Action

						OPERATOR Initial Report					Final	Repor	
Name of Co	ompany: N	avajo Refini	ng Co. L	LC		Contact: Aaron Strange							
Address: 50)1 E. Main	Street Artes	ia, N.M.	88210		Telephone No. 575-748-3311							
Facility Na	me: Artesi	a Plant				Facility Type: Petroleum Refinery							
Surface Ow	mer	-		Mineral C	Owner	Lease No.							
			····			OF RE							
Unit Letter	Section	Township	Range	Feet from the	North/	th/South Line Feet from the East/West Line County							
	}	ļ								1			
			La	titude		Longitude							
				NAT	TURE	E OF RELEASE							
Type of Rele	ase: Proces	s Water (After	r Aerobic	Treatment)			Release: ~ 120 b			Recovered: ~			
Source of Release: Waste water from T-836.						Date and Hour of Occurrence: 10/25/09 ~ 17:00 Date and Hour of Discovery: 10/25/09 ~ 17:15						5/09	
Was Immediate Notice Given?							Whom? OCD		~ 17.13				
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required						,							
By Whom? Aaron Strange						Date and H	lour: 10-25-2009	at~18:0	5				
Was a Watercourse Reached?						Date and Hour: 10-25-2009 at ~18:05 If YES, Volume Impacting the Watercourse.							
☐ Yes ☒ No						N/A							
If a Watercourse was Impacted, Describe Fully.* N/A													
Fall-Off test Waste Water Describe Ard The spill occ	Describe Cause of Problem and Remedial Action Taken.* On 10/25/09 at ~ 17:00 a flex line connected to T-437 split open. Waste water was being pumped from T-836 to T-437 to provide more capacity during a Fall-Off test for one for one of Navajo's injection wells. The line was replaced and a vacuum truck has removed the standing liquid and put it back into the Waste Water Sewers. Describe Area Affected and Cleanup Action Taken.* The spill occurred at T-437 within the tanks berm. The water collected inside the tank berm with rain water that was already present. A vacuum truck has removed the standing liquid and put it back into the Waste Water Sewers.								nto the				
regulations a public health should their or the enviro	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.							r ty ealth					
_						OIL CONSERVATION DIVISION							
Signature: Amon Sange													
						Approved by District Supervisor:							
Title: Sr. En	vironmental	Technician				Approval Date: Expiration Date:							
E-mail Addr	ess: aaron.s	trange@hollye	corp.com			Conditions of Approval:				Attached	П		
Date: 10/26/ 5451 or 575-				Phone: 575-746	5-	Attached							
5451 or 575-703-5057 Attach Additional Sheets If Necessary													

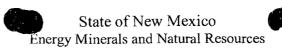
PART I:	Generator _	Navajo Refining Co. LLC	
	Address	PO Box 159	(₅₇₅) ₇₄₈₋₃₃₁₁
	City/State _	Artesia, NM 88211-0159	Telephone No.
ORGINAT	ION OF WAST	E:	
Operation	s Center	Artesia	Permit No. NMD048918817
Property N	Name	(Well, Tank Battery, Plant, Facility)	
WASTE II	DENTIFICATION	AND AMOUNT (BARRELS, YARDS, TONS,	CU.FT., LBS., UNITS, ETC.)
			D
Drilling Flu		Tank Bottoms	Exempt Fluids
Completion		Gas Plant Waste	C117 No
Contaminat	ed Soil	Other Materials	Pit No.
		DESCRIPTION/NOTES	
		12 Yds Cont. Soil	
		north 5 do Soi	XQ.
PART II:		Signature of Generator's Authorized Agent RTER: (To be completed in full by Tr	Date and Time of Shipment
	Name _	S Brothers	Talada N
	Address		Telephone No.
	City/State _		Truck No.
CERTIFIC	ATION: Loggi	iffy that the waste in quantity above was received by me for sh	
OLIVIII 70	Z	eneral king of Jan 14-2	1 - 2 = 99
	<u></u> .	Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOSAL	OR RECLAMATION SITE:	
	Name _	Controlled Recovery, Inc.	(575) 393-1079
	Address _	P.O. Box 388	Telephone No.
	City/State _	Hobbs, N.M. 88241-0388	www.crihobbs.com
		. / /	E-mail
CERTIFIC	SATION: 1 cert	ify that the waste described in Part I was received by me via the	e transporter described in Part II.
	·	Si Xa SE Si A	3.4.09
		Signature of Facility Agent	Date and Time Received

PART I:	Generator	Navajo Refining Co. LLC	
	Address		(₅₇₅) ₇₄₈₋₃₃₁₁
	City/State _	Artesia, NM 88211-0159	Telephone No.
ORGINAT	ION OF WAST	E:	
Operations	s Center	Artesia	Permit No. NMD048918817
Property N	lame	(Well, Tank Battery, Plant, Facility)	
WASTE ID	ENTIFICATION A	AND AMOUNT (BARRELS, YARDS, TONS, C	CU.FT., LBS., UNITS, ETC.)
Drilling Flu	ids	Tank Bottoms	Exempt Fluids
Completion	Fluids	Gas Plant Waste	C117 No
Contaminat	ed Soil 🧪 🔔	Other Materials	Pit No.
	-	DESCRIPTION / NOTES	
		12 Yds Cont. Soil	
		North Side Spall	
	-		
CERTIFIC	ATION: The v	waste described above is not hazardous pursuant to 40 CFR Par	t 261 and was consigned to the transporter
	name	ed below. I certify that the foregoing is true and correct to the b	est of my knowledge.
		buna blandmes	D. IT' COL
		Signature of Generator's Authorized Agent	Date and Time of Shipment
PART II:	TRANSPOR	RTER: (To be completed in full by Tra	ansporter)
	Name	S Brothers	
	Address		Telephone No.
	City/State		
			Truck No.
CERTIFIC	ATION: 1 cert	ify that the waste in quantity above was received by me for ship	oment to the destination below.
		Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOSAL	OR RECLAMATION SITE:	
	Name _	Controlled Recovery, Inc.	(575) 393-1079
	Address	P.O. Box 388	Telephone No.
	City/State _	Hobbs, N.M. 88241-0388	www.crihobbs.com
CERTIFIC	ATION: Legge	ify that the waste described in Part I was received by me via the	
/ 0		Allert Oil:	4-7/7/19
	-	Signature of Facility Agent	Date and Time Received

PART I:	Generato	Navajo Refining Co. LLC	
	Address_	PO Box 159	(₅₇₅) ₇₄₈₋₃₃₁₁
	City/State	Artesia, NM 88211-0159	Telephone No.
ORGINAT	ION OF WA	STE:	
Operation	s Center _	Artesia	Permit No. NMD048918817
Property N	Name <u>.</u>	(Well, Tank Battery, Plant, Facility)	
WASTE II	DENTIFICATIO	N AND AMOUNT (BARRELS, YARDS, TONS, C	CU.FT., LBS., UNITS, ETC.)
Drilling Flu	ids	Tank Bottoms	Exempt Fluids
Completion		Gas Plant Waste	C117 No
Contaminate		Other Materials	Pít No.
		DESCRIPTION / NOTES	
		12 Yds Cont. Soil	. h ~
		North side sp	
CERTIFIC	ATION: 1	The waste described above is not hazardous pursuant to 40 CFR Part	t 261 and was consigned to the transporter
	r	named below. I certify that the foregoing is true and correct to the b	est of my knowledge.
	(Comie Henrico De	
	_	Signature of Generator's Authorized Agent	Date and Time of Shipment
PART II:	TRANSP	ORTER: (To be completed in full by Tra	ansporter)
	Name	C. Douath and	
	Name Address	S Brothers	Telephone No.
	Address City/State		2
	City/State		Truck No.
CERTIFIC	ATION: 1	certify that the waste in quantity above was received by me for ship	oment to the destination below.
		Dan Vallable	7-1-09
		Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOSA	L OR RECLAMATION SITE:	
	Name	Controlled Recovery, Inc.	(575) 393-1079
	Address	P.O. Box 388	Telephone No.
	City/State	Hobbs, N.M. 88241-0388	www.crihobbs.com
CEDTIEIC	ATION!	1.	E-mail
CERTIFIC	AHUN: I	certify that the waste described in Part I was received by me via the	
	_	Signature of Facility Agent	Date and Time Received
		Signature of Lacinty Agent	Date and Time Received

PART I:	Generator_	Navajo Refining Co. LLC	
	Address		(₅₇₅) ₇₄₈₋₃₃₁₁
	City/State _	Artesia, NM 88211-0159	Telephone No.
ORGINAT	ION OF WAST	E:	
Operation	s Center	Artesia	Permit No. NMD048918817
Property N	Name	3 Mile Ditch	
		(Well, Tank Battery, Plant, Facility)	
WASTE II	DENTIFICATION	AND AMOUNT (BARRELS, YARDS, TONS,	CU.FT., LBS., UNITS, ETC.)
		•	
Drilling Flu	ids	Tank Bottoms	Exempt Fluids
Completion		Gas Plant Waste	C117 No
Contaminat	ed Soil	Other Materials	Pit No.
		DESCRIPTION / NOTES	
		12 Yds Cont. Soil	
<u> </u>		1 voca sing spece	
CERTIFIC	ATIONI		
CERTIFIC		waste described above is not hazardous pursuant to 40 CFR Pa ed below. I certify that the foregoing is true and correct to the	
		Janua Hemande	, .
			Date and Time of Shipment
		Signature of Generator's Authorized Agent	Date and Time of Simplification
PART II:	TRANSPOR	RTER: (To be completed in full by Ti	ransporter)
	N 1	,	
	Name _	S Brothers	Telephone No.
	Address _ City/State _		Z
	City/State _	<u></u>	Truck No.
CERTIFIC	ATION: 1 cert	tify that the waste in quantity above was received by me for sh	ipment to the destination below.
		Lay Van Willy	7-1-09
		Signature of Transporter's Agent	Date and Time Received
PART III:	DISPOSAL	OR RECLAMATION SITE:	
	Name <u>(</u>	Controlled Recovery, Inc.	(575) 393-1079
	Address	P.O. Box 388	Telephone No.
	City/State _	Hobbs, N.M. 88241-0388	www.crihobbs.com
	Oity/State _	24	E-mail
CERTIFIC	ATION: 1 cert	ify that the waste described in Part I was received by me via th	e transporter described in Part II.
	k	(16 1) In hot	7-1-16
	/1	A A A A A A A A A A A A A A A A A A A	<u> </u>

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



Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

						OPERA	ΓOR	\boxtimes :	Initial Report	. [] F	inal Repo
Name of Co	mpany: N	lavajo Refini	ng Co. L	LC		Contact: Aa	ron Strange					
Address: 50	1 E. Main	Street Artes	ia, N.M.	88210			No. 575-748-33					
Facility Nat	ne: Artesi	a Plant				Facility Typ	e: Petroleum Re	efinery				
Surface Ow	ner			Mineral O	wner			Lea	ise No.			
						MARDE	E IE A CITE					
Unit Letter	Section	Toumshin	Dongo	Feet from the		N OF REI	Feet from the	East/West L	ine County			
Onit Letter	Section	Township	Range	reet from the	North	VSOUII LINE	reet nom die	Last West L	ine County			
			La	titude		Longitud	le					
				NAT	'URE	OF REL	EASE					
Type of Rele	ase: Mercu	ry					Release: NA	Volu	me Recovered	: NA		
Source of Re (Saturates Ga	lease: Exca is Plant).	vation for nev	v pipe sup	port footers in Un	it #35	Date and H 11/12/09 ~	Tour of Occurrence 13:00	Date ~ 13:	and Hour of I	hiscove	гу: 1	1/12/09
Was Immedia	ate Notice (Yes 🗵	No □ Not Re	equired		Whom? NA					
By Whom? N	JA					Date and H	Iour: NA					
Was a Water		ched?					olume Impacting t	the Watercours	se.			
			Yes 🛚] No		NA						
If a Watercou NA	irse was Im	pacted, Descr	ibe Fully.	*								
On 11/12/09 much of the o soil and piece	at ~ 13:00 concrete, the concrete of concrete	e contractors f	gan to ren found bead roped off.	nove several sections of Mercury und Safety and Enviro	ler one	of the section	of concrete slab.	All excavation	has been stop	ped and	d the	exposed
The Mercury been stopped	was found and the ex	posed soil and	thern mos pieces of	ken.* t section of concre concrete have bee port and sample ar	en rope	d off. Safety a						
regulations a public health should their or or the environ	Il operators or the envi operations h nment. In a	are required t ronment. The nave failed to a	o report as acceptane adequately OCD accep	e is true and compind/or file certain rece of a C-141 report investigate and retained of a C-141 report ance of a C-141 report ance of a C-141 report ance of a C-141 report ance of a C-141 report ance of a C-141 report ance of a C-141 report ance of a C-141 report ance of a C-141 report and a C-14	elease rort by the emedian	notifications as ne NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actions for eport" does not eat to ground	or releases whi of relieve the o water, surface	ch may perator water, l	end of li huma	anger iability an health
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Signature: U	ortor.	- Sou	ng									
Printed Name	e: Aaron St	range				Approved by	District Supervis	or:				
Title: Sr. Env	vironmental	Technician				Approval Dat	te:	Expira	tion Date:	<u></u>		
E-mail Addre	ss: aaron.s	trange@hollyo	corp.com			Conditions of	Approval:		Attach	ed 🗇		
Date: 11/13/0				Phone: 575-703-5	5057					- 1		
Attach Addi	tional She	ets If Necess	ary									

lea	sse prii	nt or type. (Form desig)								OWR No	. 2050-0039
4	UNIF	ORM HAZARDOUS	1. Generator ID Num	nber		2. Page 1 of	3. Emerg	gency Response	e Phone	4. Manifest	-			
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1	HRV	y Industrial Service	28, LLC							TXD000	075507			
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	9a.	9b. U.S. DOT Descripti	on (including Proper S	Shipping Name, Hazard C	lass. ID Number			10. Contai	ners	11. Total	40.11-2			
	9a. HM	and Packing Group (if		, ,	, (tallibol)	•	F	No.	1	Quantity	12. Unit Wt./Vol.	13.1	Naste Cod	es
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H	, n	narked and labeled/placa	rded, and are in all res	spects in proper condition	for transport acc	cording to applic	cable inten	national and nat	ional governr	nental regulations.	If export sh	ipment and I	am the Pri	mary
Ы		xporter, I certify that the certify that the waste min	contents of this consig	punient conform to the ter lentified in 40 CED 363 3	ms or the attache	eu EPA Acknowl	ieagment (or Consent.	all augatitus	porator) is tain				
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Date: 25-Nov-09

Client:

Navajo Refining Company

Project:

South Plant Mercury Recap

Work Order:

0911550

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix				Hold
0911550-01	NE Corner	Soil	•	11/19/2009 09:22	11/21/2009 08:35	
0911550-02	SE Corner	Soil		11/19/2009 09:25		
0911550-03	SW Corner	Soil		11/19/2009 09:27	11/21/2009 08:35	
0911550-04	Bottom 18"	Soil		11/19/2009 09:30	11/21/2009 08:35	
0911550-05	NW Corner	Soil			11/21/2009 08:35	
0911550-06	West Wall	Soil		11/19/2009 09:35	11/21/2009 08:35	

Date: 25-Nov-09

Client:

Note:

Holly Energy Partners

Project:

South Plant Mercury Recap

Sample ID:

NE Corner

Collection Date: 11/19/2009 09:22 AM

Work Order: 0911550

Lab ID: 0911550-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015I	M	Prep Date:	11/23/2009 Analyst: KMB
TPH (Diesel Range)	1,200		42	mg/Kg	25	11/25/2009 03:14 PM
Surr: 2-Fluorobiphenyl	341	S	70-130	%REC	25	11/25/2009 03:14 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	110		0.25	mg/Kg	5	11/24/2009 03:50 PM
Surr: 4-Bromofluorobenzene	125		70-130	%REC	5	11/24/2009 03:50 PM
MERCURY			SW7471	A	Prep Date:	11/23/2009 Analyst: JCJ
Mercury	104,000		1,780	µg/Kg	500	11/24/2009 10:54 AM
METALS			SW6020		Prep Date:	11/23/2009 Analyst: ALR
Arsenic	4.15		0.472	mg/Kg	1	11/23/2009 11:51 PM
Barium	103		0.472	mg/Kg	1	11/23/2009 11:51 PM
Cadmium	0.484		0.472	mg/Kg	1	11/23/2009 11:51 PM
Chromium	24.0		0.472	mg/Kg	1	11/23/2009 11:51 PM
Lead	50.8		0.472	mg/Kg	1	11/23/2009 11:51 PM
Selenium	1.45		0.472	mg/Kg	1	11/23/2009 11:51 PM
Silver	ND		0.472	mg/Kg	1	11/23/2009 11:51 PM

Date: 25-Nov-09

Client:

Note:

Holly Energy Partners

Project:

South Plant Mercury Recap

Sample ID:

SE Corner

Collection Date: 11/19/2009 09:25 AM

Work Order: 0911550

Lab ID: 0911550-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015	M	Prep Date: 11/	23/2009 Analyst: KMB
TPH (Diesel Range)	630		34	mg/Kg	20	11/24/2009 10:45 AM
Surr: 2-Fluorobiphenyl	172	S	70-130	%REC	20	11/24/2009 10:45 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	97		0.25	mg/Kg	5	11/24/2009 04:14 PM
Surr: 4-Bromofluorobenzene	87.4		70-130	%REC	5	11/24/2009 04:14 PM
MERCURY			SW7471	A	Prep Date: 11/	23/2009 Analyst: JCJ
Mercury	31,200		356	μg/Kg	100	11/24/2009 10:56 AM
METALS		·	SW6020		Prep Date: 11/	23/2009 Analyst: ALR
Arsenic	3.05		0.455	mg/Kg	1	11/23/2009 11:57 PM
Barium	73.9		0.455	mg/Kg	1	11/23/2009 11:57 PM
Cadmium	ND		0.455	mg/Kg	1	11/23/2009 11:57 PM
Chromium	7.29		0.455	mg/Kg	1	11/23/2009 11:57 PM
Lead	28.0		0.455	mg/Kg	1	11/23/2009 11:57 PM
Selenium	0.605		0.455	mg/Kg	1	11/23/2009 11:57 PM
Silver	ND		0.455		1	11/23/2009 11:57 PM

Date: 25-Nov-09

Client:

Holly Energy Partners

Project:

South Plant Mercury Recap

Sample ID:

SW Corner

Collection Date: 11/19/2009 09:27 AM

Work Order: 0911550

Lab ID: 0911550-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015I	M	Prep Date: 11/23/2	2009 Analyst: KMB
TPH (Diesel Range)	820		34	mg/Kg	20	11/24/2009 11:04 AM
Surr: 2-Fluorobiphenyl	403	S	70-130	%REC	20	11/24/2009 11:04 AM
GASOLINE RANGE ORGANICS			SW8015	•		Analyst: RKG
Gasoline Range Organics	1.6		0.25	mg/Kg	5	11/24/2009 04:39 PM
Surr: 4-Bromofluorobenzene	72.6		70-130	%REC	5	11/24/2009 04:39 PM
MERCURY			SW7471	A	Prep Date: 11/23/2	2009 Analyst: JCJ
Mercury	320,000		3,530	μg/Kg	1000	11/24/2009 10:20 AM
METALS			SW6020		Prep Date: 11/23/2	2009 Analyst: ALR
Arsenic	3.12		0.476	mg/Kg	1	11/24/2009 12:03 AM
Barium	101		0.476	mg/Kg	1	11/24/2009 12:03 AM
Cadmium	2.75	•	0.476	mg/Kg	1	11/24/2009 12:03 AM
Chromium	13.2		0.476	mg/Kg	1	11/24/2009 12:03 AM
Lead	28.6		0.476	mg/Kg	1	11/24/2009 12:03 AM
Selenium	1.64		0.476	mg/Kg	1	11/24/2009 12:03 AM
Silver	ND		0.476	mg/Kg	1	11/24/2009 12:03 AM

Date: 25-Nov-09

Client:

Holly Energy Partners

Project:

South Plant Mercury Recap

Sample ID:

Note:

Bottom 18"

Collection Date: 11/19/2009 09:30 AM

Work Order: 0911550

Lab ID: 0911550-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015	VI	Prep Date: 11/2	23/2009 Analyst: KM B
TPH (Diesel Range)	4,700		340	mg/Kg	200	11/25/2009 03:14 PM
Surr: 2-Fluorobiphenyl	0	s	70-130	%REC	200	11/25/2009 03:14 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	92		0.25	mg/Kg	5	11/24/2009 05:31 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	5	11/24/2009 05:31 PM
MERCURY			SW7471	4	Prep Date: 11/2	23/2009 Analyst: JCJ
Mercury	373,000		3,400	μg/Kg	1000	11/24/2009 10:58 AM
METALS			SW6020		Prep Date: 11/2	23/2009 Analyst: ALR
Arsenic	1.97		0.435	mg/Kg	1	11/24/2009 12:09 AM
Barium	73.8		0.435	mg/Kg	1	11/24/2009 12:09 AM
Cadmium	ND		0.435	mg/Kg	1	11/24/2009 12:09 AM
Chromium	10.7		0.435	mg/Kg	1	11/24/2009 12:09 AM
Lead	19.7		0.435	mg/Kg	1	11/24/2009 12:09 AM
Selenium	0.902		0.435	mg/Kg	1	11/24/2009 12:09 AM
Silver	ND		0.435	mg/Kg	1	11/24/2009 12:09 AM

Date: 25-Nov-09

Client:

Holly Energy Partners

Project:

Note:

South Plant Mercury Recap

Sample ID:

NW Corner

Collection Date: 11/19/2009 09:33 AM

Work Order: 0911550

Lab ID: 0911550-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015	VI	Prep Date:	11/23/2009 Analyst: KMB
TPH (Diesel Range)	1,300		34	mg/Kg	20	11/24/2009 11:41 AM
Surr: 2-Fluorobiphenyl	665	S	70-130	%REC	20	11/24/2009 11:41 AM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	90		0.25	mg/Kg	5	11/24/2009 05:56 PM
Surr: 4-Bromofluorobenzene	84.2		70-130	%REC	5	11/24/2009 05:56 PM
MERCURY			SW7471	4	Prep Date:	11/23/2009 Analyst: JCJ
Mercury	74,200		707	μg/Kg	200	11/24/2009 11:00 AM
METALS			SW6020		Prep Date:	11/23/2009 Analyst: ALR
Arsenic	4.37		0.450	mg/Kg	1	11/24/2009 12:15 AM
Barium	146		0.450	mg/Kg	1	11/24/2009 12:15 AM
Cadmium	0.501		0.450	mg/Kg	1	11/24/2009 12:15 AM
Chromium	27.0		0.450	mg/Kg	1	11/24/2009 12:15 AM
Lead	63.7		0.450	mg/Kg	1	11/24/2009 12:15 AM
Selenium	1.52		0.450	mg/Kg	1	11/24/2009 12:15 AM
Silver	ND		0.450	mg/Kg	1	11/24/2009 12:15 AM

Date: 25-Nov-09

Client:

Holly Energy Partners

Project:

South Plant Mercury Recap

Sample ID:

Collection Date: 11/19/2009 09:35 AM

West Wall

Work Order: 0911550

Lab ID: 0911550-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015N	/I	Prep Date:	11/23/2009 Analyst: KMB
TPH (Diesel Range)	2,400		170	mg/Kg	100	11/25/2009 03:33 PM
Surr: 2-Fluorobiphenyl	0	S	70-130	%REC	100	11/25/2009 03:33 PM
GASOLINE RANGE ORGANICS			SW8015			Analyst: RKG
Gasoline Range Organics	0.82		0.25	mg/Kg	5	11/24/2009 02:56 PM
Surr: 4-Bromofluorobenzene	70.2		70-130	%REC	5	11/24/2009 02:56 PM
MERCURY			SW7471	A	Prep Date:	11/23/2009 Analyst: JCJ
Mercury	20,600		354	μg/Kg	100	11/24/2009 10:31 AM
METALS			SW6020		Prep Date:	11/23/2009 Analyst: ALR
Arsenic	2.95		0.476	mg/Kg	1	11/24/2009 12:22 AM
Barium	124		0.476	mg/Kg	1	11/24/2009 12:22 AM
Cadmium	'ND		0.476	mg/Kg	1	11/24/2009 12:22 AM
Chromium	6.88		0.476	mg/Kg	1	11/24/2009 12:22 AM
Lead	22.4		0.476	mg/Kg	1	11/24/2009 12:22 AM
Selenium	0.538		0.476	mg/Kg	1	11/24/2009 12:22 AM
Silver	ND		0.476		1	11/24/2009 12:22 AM

10450 Stancliff Rd., Suite 210 Houston, Taxas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887

Chain of Custody Form

Page 4 of /

3352 128th Ave. Holland, MI 49424-9263 Tel: +1 616 399 6070 Fax: +1 616 399 6185

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Note: 11 Any changes must be made in veriting once samples and COC Form have been submitted to ALS Laboratory Group.
21 Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

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Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Composite Drum

Collection Date: 12/2/2009 10:00 AM

Work Order: 0912072

Lab ID: 0912072-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW801	5M	Prep Date: 12/7/2009	Analyst: KMB
TPH (Diesel Range)	3,000		13	0 mg/Kg	50	12/15/2009 10:32 AM
Surr: 2-Fluorobiphenyl	0	S	70-13	0 %REC	50	12/15/2009 10:32 AM
GASOLINE RANGE ORGANICS			SW801	5		Analyst: RKG
Gasoline Range Organics	98		0.2	5 mg/Kg	5	12/15/2009 01:04 PM
Surr: 4-Bromofluorobenzene	182	S	70-13	0 %REC	5	12/15/2009 01:04 PM
MERCURY			SW7471	IA	Prep Date: 12/11/200	9 Analyst: JCJ
Mercury	3,550,000		34,20	0 μg/Kg	10000	12/11/2009 07:04 PM
METALS			SW6020)	Prep Date: 12/4/2009	Analyst: SKS
Arsenic	5.65		0.44	6 mg/Kg	1	12/4/2009 07:48 PM
Barium	124		0.44	6 mg/Kg	1	12/4/2009 07:48 PM
Cadmium	1.91		0.44	6 mg/Kg	1	12/4/2009 07:48 PM
Chromium	58.5		0.44	6 mg/Kg	1	12/4/2009 07:48 PM
Lead	38.3		0.44	6 mg/Kg	1	12/4/2009 07:48 PM
Selenium .	3.05		0.44	6 mg/Kg	1	12/4/2009 07:48 PM
Silver	ND		0.44	6 mg/Kg	1	12/4/2009 07:48 PM
SEMIVOLATILES			SW8270		Prep Date: 12/8/2009	Analyst: ACN
1,2,4-Trichlorobenzene	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
1,2-Dichlorobenzene	` ND		25	0 μg/Kg	. 1	12/12/2009 11:18 PM
1,3-Dichlorobenzene	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
1,4-Dichlorobenzene	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2,4,5-Trichlorophenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2,4,6-Trichlorophenol	ND		25	0 μg/Kg	· 1	12/12/2009 11:18 PM
2,4-Dichlorophenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2,4-Dimethylphenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2,4-Dinitrophenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2,4-Dinitrotoluene	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2,6-Dinitrotoluene	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2-Chloronaphthalene	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2-Chiorophenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2-Methylnaphthalene	26,000		1,30	0 μg/Kg	5	12/9/2009 03:15 AM
2-Methylphenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
2-Nitroaniline	ND		25	, ,	1	12/12/2009 11:18 PM
2-Nitrophenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
3&4-Methylphenol	ND		25	0 μg/Kg	1 '	12/12/2009 11:18 PM
3,3'-Dichlorobenzidine	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
3-Nitroaniline	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
4,6-Dinitro-2-methylphenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Composite Drum

Collection Date: 12/2/2009 10:00 AM

Work Order: 0912072

Lab ID: 0912072-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Bromophenyl phenyl ether	ND		250) µg/Kg	1	12/12/2009 11:18 PM
4-Chloro-3-methylphenol	ND		250	μg/Kg	1	12/12/2009 11:18 PM
4-Chloroaniline	ND		250) µg/Kg	1	12/12/2009 11:18 PM
4-Chlorophenyl phenyl ether	ND		250) μg/Kg	1	12/12/2009 11:18 PM
4-Nitroaniline	ND		250) μg/Kg	1	12/12/2009 11:18 PM
4-Nitrophenol	ND		250) μg/Kg	1	12/12/2009 11:18 PM
Acenaphthene	360		250) μg/Kg	1	12/12/2009 11:18 PM
Acenaphthylene	ND		250) µg/Kg	1	12/12/2009 11:18 PM
Anthracene	350		250	μg/Kg	1	12/12/2009 11:18 PM
Benz(a)anthracene	400		250	μg/Kg	1	12/12/2009 11:18 PM
Benzo(a)pyrene	ND		250) µg/Kg	1	12/12/2009 11:18 PM
Benzo(b)fluoranthene	ND		. 250) μg/Kg	1	12/12/2009 11:18 PM
Benzo(g,h,i)perylene	ND		250) µg/Kg	1	12/12/2009 11:18 PM
Benzo(k)fluoranthene	ND		250	μg/Kg	1	12/12/2009 11:18 PM
Bis(2-chloroethoxy)methane	ND	÷	250	μg/Kg	1	12/12/2009 11:18 PM
Bis(2-chloroethyl)ether	ND		250) μg/Kg	1	12/12/2009 11:18 PM
Bis(2-chloroisopropyl)ether	ND		250	μg/Kg	1	12/12/2009 11:18 PM
Bis(2-ethylhexyl)phthalate	29,000		1,300	μg/Kg	5	12/9/2009 03:15 AM
Butyl benzyl phthalate	ND		250	μg/Kg	1	12/12/2009 11:18 PM
Carbazole	ND		250) µg/Kg	1	12/12/2009 11:18 PM
Chrysene	770		250	µg/Kg	1	12/12/2009 11:18 PM
Di-n-butyl phthalate	, ND		250) μg/Kg	1	12/12/2009 11:18 PM
Di-n-octyl phthalate	450	•	250	μg/Kg	1	12/12/2009 11:18 PM
Dibenz(a,h)anthracene	ND		250		1	12/12/2009 11:18 PM
Dibenzofuran	ND		250) μg/Kg	1	12/12/2009 11:18 PM
Diethyl phthalate	ND		250	μg/Kg	1	12/12/2009 11:18 PM
Dimethyl phthalate	ND		250	μg/Kg	1	12/12/2009 11:18 PM
Fluoranthene	530		250	μg/Kg	1	12/12/2009 11:18 PM
Fluorene	780	•	250	μg/Kg	1	12/12/2009 11:18 PM
Hexachlorobenzene	ND		250	μg/Kg	1	12/12/2009 11:18 PM
Hexachlorobutadiene	ND		250) µg/Kg	1	12/12/2009 11:18 PM
Hexachlorocyclopentadiene	ND		250) μg/Kg	1	12/12/2009 11:18 PM
Hexachloroethane	ND		250) µg/Kg	1	12/12/2009 11:18 PM
Indeno(1,2,3-cd)pyrene	ND		250	μg/Kg	1	12/12/2009 11:18 PM
Isophorone	ND		250	μg/Kg	1	12/12/2009 11:18 PM
N-Nitrosodi-n-propylamine	ND		250	μg/Kg	1	12/12/2009 11:18 PM
N-Nitrosodiphenylamine	ND		250	μg/Kg	1 .	12/12/2009 11:18 PM
Naphthalene	7,600		250	μg/Kg	1	12/12/2009 11:18 PM
Nitrobenzene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Pentachlorophenol	ND		250	μg/Kg	1	12/12/2009 11:18 PM

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Composite Drum

Collection Date: 12/2/2009 10:00 AM

Work Order: 0912072

Lab ID: 0912072-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenanthrene	5,000		25	0 μg/Kg	1	12/12/2009 11:18 PM
Phenol	ND		25	0 μg/Kg	1	12/12/2009 11:18 PM
Pyrene	1,700		25	0 μg/Kg	1	12/12/2009 11:18 PM
Surr: 2,4,6-Tribromophenol	93.9		36-12	6 %REC	1	12/12/2009 11:18 PM
Surr: 2,4,6-Tribromophenol	73.8		36-12	6 %REC	5	12/9/2009 03:15 AM
Surr: 2-Fluorobiphenyl	82.5		43-12	5 %REC	1	12/12/2009 11:18 PM
Surr: 2-Fluorobiphenyl	81.9		43-12	5 %REC	5	12/9/2009 03:15 AM
Surr: 2-Fluorophenol	77.2		37-12	5 %REC	1 .	12/12/2009 11:18 PM
Surr: 2-Fluorophenol	65.8		37-12	5 %REC	5	12/9/2009 03:15 AM
Surr: 4-Terphenyl-d14	78.5		32-12	5 %REC	5	12/9/2009 03:15 AM
Surr: 4-Terphenyl-d14	85.1		32-12	5 %REC	1	12/12/2009 11:18 PM
Surr: Nitrobenzene-d5	71.1		37-12	5 %REC	5	12/9/2009 03:15 AM
Surr: Nitrobenzene-d5	72.6		37-12	5 %REC	1	12/12/2009 11:18 PM
Surr: Phenol-d6	84.0		40-12	5 %REC	1	12/12/2009 11:18 PM
Surr: Phenol-d6	72.1		40-12	5 %REC	5	12/9/2009 03:15 AM
TCL VOLATILES			SW8260)		Analyst: WLR
1,1,1-Trichloroethane	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
1,1,2,2-Tetrachloroethane	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
1,1,2-Trichloroethane	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
1,1-Dichloroethane	, ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
1,1-Dichloroethene	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
1,2-Dichloroethane	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
1,2-Dichloropropane	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
2-Butanone	ND		0.02	5 mg/Kg	2.5	12/13/2009 05:00 AM
2-Hexanone	ND		0.02	5 mg/Kg	2.5	12/13/2009 05:00 AM
4-Methyl-2-pentanone	ND		0.02	5 mg/Kg	2.5	12/13/2009 05:00 AM
Acetone	0.087		0.06	2 mg/Kg	2.5	12/13/2009 05:00 AM
Benzene	0.11	•	0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
Bromodichloromethane	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
Bromoform	ND		0.02	5 mg/Kg	2.5	12/13/2009 05:00 AM
Bromomethane	ND		0.02	5 mg/Kg	2.5	12/13/2009 05:00 AM
Carbon disulfide	ND		0.02	5 mg/Kg	2.5	12/13/2009 05:00 AM
Carbon tetrachloride	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
Chlorobenzene	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
Chloroethane	ND		0.02	5 mg/Kg	2.5	12/13/2009 05:00 AM
Chloroform	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
Chloromethane	ND		0.02	5 mg/Kg	2.5	12/13/2009 05:00 AM
cis-1,2-Dichloroethene	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
cis-1,3-Dichtoropropene	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM
Dibromochloromethane	ND		0.01	2 mg/Kg	2.5	12/13/2009 05:00 AM

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Composite Drum

Collection Date: 12/2/2009 10:00 AM

Work Order: 0912072

Lab ID: 0912072-01

Matrix: SOIL

Date Analyzed	Dilution Factor	Units	Report Limit U	Qual	Result	Analyses
12/13/2009 05:00 AM	2.5	mg/Kg	0.025		ND	Dichloromethane
12/13/2009 05:00 AM	2.5	mg/Kg	0.012		0.12	Ethylbenzene
12/13/2009 05:00 AM	2.5	mg/Kg			ND	Methyl tert-butyl ether
12/13/2009 05:00 AM	2.5	mg/Kg	0.012		ND	Styrene
12/13/2009 05:00 AM	2.5	mg/Kg	0.012		ND	Tetrachloroethene
12/8/2009 09:21 PM	2.5	mg/Kg	0.012		0.15	Toluene
12/13/2009 05:00 AM	2.5	mg/Kg	0.012		ND	trans-1,2-Dichloroethene
12/13/2009 05:00 AM	2.5	mg/Kg	0.012		ND	trans-1,3-Dichloropropene
12/13/2009 05:00 AM	2.5	mg/Kg	0.012		ND	Trichloroethene
12/13/2009 05:00 AM	2.5	mg/Kg	0.0050		ND	Vinyl chloride
12/13/2009 05:00 AM	2.5	mg/Kg	0.038		0.90	Xylenes, Total
12/13/2009 05:00 AM	2.5	%REC	70-128		112	Surr: 1,2-Dichloroethane-d4
12/8/2009 09:21 PM	2.5	%REC	70-128		94.8	Surr: 1,2-Dichloroethane-d4
12/8/2009 09:21 PM	2.5	%REC	73-126		98.1	Surr: 4-Bromofluorobenzene
12/13/2009 05:00 AM	2.5	%REC	73-126	•	116	Surr: 4-Bromofluorobenzene
12/8/2009 09:21 PM	2.5	%REC	71-128		90.9	Surr: Dibromofluoromethane
12/13/2009 05:00 AM	2.5	%REC	71-128		99.1	Surr: Dibromofluoromethane
12/8/2009 09:21 PM	2.5	%REC	73-127		101	Surr: Toluene-d8
12/13/2009 05:00 AM	2.5	%REC	73-127		104	Surr: Toluene-d8
Analyst: HN			SW-846			REACTIVE CYANIDE
12/4/2009 11:45 AM	1	mg/Kg	40.0		ND	Reactive Cyanide
Analyst: HN			SW-846			REACTIVE SULFIDE
12/4/2009 11:45 AM	1	mg/Kg	40.0		ND	Reactive Sulfide
Analyst: TDW			SW1030			IGNITABILITY
12/4/2009 10:00 AM	1	no unit			Negative	Ignitabílity, Solid
Analyst: TDW 12/10/2009 11:00 AM	s 1		SW9045E		8.82	PH nH
	·				Negative 8.82	

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Drum 2 of 9

Collection Date: 12/2/2009 10:15 AM

Work Order: 0912072

Lab ID: 0912072-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			SW8015	5M	Prep Date: 1	2/7/2009 Analyst: KMB
TPH (Diesel Range)	890		3	4 mg/Kg	20	12/15/2009 10:51 AM
Surr: 2-Fluorobiphenyl	0	S	70-13	0 %REC	20	12/15/2009 10:51 AM
GASOLINE RANGE ORGANICS			SW8015	5		Analyst: RKG
Gasoline Range Organics	23			5 mg/Kg	5	12/7/2009 01:04 PM
Surr: 4-Bromofluorobenzene	127		70-13	0 %REC	5	12/7/2009 01:04 PM
MERCURY			SW7471	IA	Prep Date: 1	2/15/2009 Analyst: JCJ
Mercury	7,410,000		173,00	0 μg/Kg	50000	12/15/2009 04:47 PM
METALS			SW6020)	Prep Date: 1	2/4/2009 Analyst: SKS
Arsenic	3.67		0.43	5 mg/Kg	1	12/7/2009 06:17 PM
Barium	107		0.43	5 mg/Kg	1	12/7/2009 06:17 PM
Cadmium	ND		0.43	5 mg/Kg	1	12/7/2009 06:17 PM
Chromium	19.3		0.43	5 mg/Kg	1	12/7/2009 06:17 PM
Lead	33.5	•	0.43	5 mg/Kg	1	12/7/2009 06:17 PM
Selenium	0.711		0.43	5 mg/Kg	1	12/7/2009 06:17 PM
Silver	ND		0.43	5 mg/Kg	1	12/7/2009 06:17 PM
SEMIVOLATILES			SW8270)	Prep Date: 1	2/8/2009 Analyst: ACN
1,2,4-Trichlorobenzene	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
1,2-Dichlorobenzene	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
1,3-Dichlorobenzene	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
1,4-Dichlorobenzene	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
2,4,5-Trichlorophenol	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
2,4,6-Trichlorophenol	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
2,4-Dichlorophenol	ND	2	17	0 μg/Kg	1	12/13/2009 12:27 AM
2,4-Dimethylphenol	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
2,4-Dinitrophenol	ND		17		1	12/13/2009 12:27 AM
2,4-Dinitrotoluene	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
2,6-Dinitrotoluene	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
2-Chloronaphthalene	ND		17	, 0	1	12/13/2009 12:27 AM
2-Chlorophenol	ND	•	17	0 μg/Kg	1	12/13/2009 12:27 AM
2-Methylnaphthalene	2,000		17	0 μg/Kg	1	12/13/2009 12:27 AM
2-Methylphenol	ND		-17	100	1	12/13/2009 12:27 AM
2-Nitroaniline	ND		17		1	12/13/2009 12:27 AM
2-Nitrophenol	ND		17		1	12/13/2009 12:27 AM
3&4-Methylphenol	ND		17	, 5	1	12/13/2009 12:27 AM
3,3'-Dichlorobenzidine	ND		17	, , ,	1	12/13/2009 12:27 AM
3-Nitroaniline	ND		17	. 0 0	1	12/13/2009 12:27 AM
4,6-Dinitro-2-methylphenol	ND		17	0 µg/Kg	1	12/13/2009 12:27 AM

Client: Holly Energy Partners

Project: South Plant

Sample ID: Drum 2 of 9

Collection Date: 12/2/2009 10:15 AM

Date: 17-Dec-09

Work Order: 0912072

Lab ID: 0912072-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Bromophenyl phenyl ether	ND		170	μg/Kg	1	12/13/2009 12:27 AN
4-Chloro-3-methylphenol	ND		170) μg/Kg	1	12/13/2009 12:27 AN
4-Chloroaniline	ND		170) µg/Kg	1	12/13/2009 12:27 AM
4-Chlorophenyl phenyl ether	ND		170) μg/Kg	1	12/13/2009 12:27 AM
4-Nitroaniline	ND		170) μg/Kg	1	12/13/2009 12:27 AM
4-Nitrophenol	ND	^	170	μg/Kg	1	12/13/2009 12:27 AN
Acenaphthene	ND		170) μg/Kg	1	12/13/2009 12:27 AM
Acenaphthylene	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Anthracene	ND		170) μg/Kg	1	12/13/2009 12:27 AM
Benz(a)anthracene	ND		170) µg/Kg	1	12/13/2009 12:27 AN
Benzo(a)pyrene	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Benzo(b)fluoranthene	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Benzo(g,h,i)perylene	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Benzo(k)fluoranthene	ND		170	μg/Kg	1	12/13/2009 12:27 AN
Bis(2-chloroethoxy)methane	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Bis(2-chloroethyl)ether	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Bis(2-chloroisopropyl)ether	ND		170	μg/Kg	1	12/13/2009 12:27 AN
Bis(2-ethylhexyl)phthalate	3,000		170	μg/Kg	1	12/13/2009 12:27 AM
Butyl benzyl phthalate	ND		170	μg/Kg	1	12/13/2009 12:27 AN
Carbazole	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Chrysene	ND		170) μg/Kg	1	12/13/2009 12:27 AM
Di-n-butyl phthalate	ND		170) μg/Kg	1	12/13/2009 12:27 AM
Di-n-octyl phthalate	ND		170) µg/Kg	1	12/13/2009 12:27 AM
Dibenz(a,h)anthracene	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Dibenzofuran	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Diethyl phthalate	ND		170		1	12/13/2009 12:27 AN
Dimethyl phthalate	ND		170	μg/Kg	1	12/13/2009 12:27 AN
Fluoranthene	ND		170		1	12/13/2009 12:27 AM
Fluorene	ND		170	D μg/Kg	1	12/13/2009 12:27 AM
Hexachlorobenzene	ND		170) μg/Kg	1	12/13/2009 12:27 AN
Hexachlorobutadiene	ND		176	μg/Kg	1	12/13/2009 12:27 AM
Hexachlorocyclopentadiene	ND		170	0 μg/Kg	1	12/13/2009 12:27 AM
Hexachloroethane	ND		170	0 μg/Kg	1	12/13/2009 12:27 AM
indeno(1,2,3-cd)pyrene	ND		179	0 μg/Kg	1	12/13/2009 12:27 AM
Isophorone	ND		170	0 μg/Kg	1	12/13/2009 12:27 AM
N-Nitrosodi-n-propylamine	ND		170	D μg/Kg	1	12/13/2009 12:27 AM
N-Nitrosodiphenylamine	ND		170	0 μg/Kg	1	12/13/2009 12:27 AM
Naphthalene	180		17	0 μg/Kg	1	12/13/2009 12:27 AM
Nitrobenzene	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
Pentachlorophenol	ND		170		1	12/13/2009 12:27 AN

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Drum 2 of 9

Collection Date: 12/2/2009 10:15 AM

Work Order: 0912072

Lab ID: 0912072-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenanthrene	380		170	0 μg/Kg	1	12/13/2009 12:27 AM
Phenol	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
Pyrene	ND		17	0 μg/Kg	1	12/13/2009 12:27 AM
Surr: 2,4,6-Tribromophenol	91.3		36-12	6 %REC	1	12/13/2009 12:27 AM
Surr: 2-Fluorobiphenyl	65.5		43-12	5 %REC	1	12/13/2009 12:27 AM
Surr: 2-Fluorophenol	45.2		37-12	5 %REC	1	12/13/2009 12:27 AM
Surr: 4-Terphenyl-d14	80.4		32-12	5 %REC	1	12/13/2009 12:27 AM
Surr: Nitrobenzene-d5	50.3		37-12	5 %REC	1	12/13/2009 12:27 AM
Surr: Phenol-d6	57.0		40-12	5 %REC	1	12/13/2009 12:27 AM
TCL VOLATILES			SW8260)		Analyst: RKG
1,1,1-Trichloroethane	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
1,1,2,2-Tetrachloroethane	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
1,1,2-Trichloroethane	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
1,1-Dichloroethane	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
1,1-Dichloroethene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
1,2-Dichloroethane	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
1,2-Dichloropropane	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
2-Butanone	0.033		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
2-Hexanone	ND		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
4-Methyl-2-pentanone	ND		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
Acetone	ND		0.06	2 mg/Kg	2.5	12/11/2009 08:38 PM
Benzene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Bromodichloromethane	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Bromoform	ND		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
Bromomethane	, ND		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
Carbon disulfide	ND		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
Carbon tetrachloride	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Chlorobenzene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Chloroethane	ND		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
Chloroform	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Chloromethane	ND		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
cis-1,2-Dichloroethene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
cis-1,3-Dichloropropene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Dibromochloromethane	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Dichloromethane	ND		0.02	5 mg/Kg	2.5	12/11/2009 08:38 PM
Ethylbenzene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Methyl tert-butyl ether	ND			mg/Kg	2.5	12/11/2009 08:38 PM
Styrene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Tetrachloroethene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM
Toluene	ND		0.01	2 mg/Kg	2.5	12/11/2009 08:38 PM

Note:

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Drum 2 of 9

Collection Date: 12/2/2009 10:15 AM

Work Order: 0912072

Lab ID: 0912072-02 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND	-	0.012	mg/Kg	2.5	12/11/2009 08:38 PM
trans-1,3-Dichloropropene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Trichloroethene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Vinyl chloride	ND		0.0050	mg/Kg	2.5	12/11/2009 08:38 PM
Xylenes, Total	0.27		0.038	mg/Kg	2.5	12/11/2009 08:38 PM
Surr: 1,2-Dichloroethane-d4	104		70-128	%REC	2.5	12/11/2009 08:38 PM
Surr: 4-Bromofluorobenzene	95.1		73-126	%REC	2.5	12/11/2009 08:38 PM
Surr: Dibromofluoromethane	95.3		71-128	%REC	2.5	12/11/2009 08:38 PM
Surr: Toluene-d8	104		73-127	%REC	2.5	12/11/2009 08:38 PM
REACTIVE CYANIDE		•	SW-846			Analyst: HN
Reactive Cyanide	. ND		40.0	mg/Kg	1	12/4/2009 11:45 AM
REACTIVE SULFIDE			SW-846			Analyst: HN
Reactive Sulfide	ND		40.0) mg/Kg	1	12/4/2009 11:45 AM
IGNITABILITY			SW1030			Analyst: TDW
Ignitability, Solid	Negative			no unit	1	12/4/2009 10:00 AM
РН			SW9045	В		Analyst: TDW
рН	7.98		0.100	pH Units	1	12/10/2009 11:00 AM

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Drum 9 of 9

Collection Date: 12/2/2009 10:30 AM

Work Order: 0912072

Lab ID: 0912072-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
TPH DRO/ORO			SW8015	5M	Prep Date:	12/4/2009	Analyst: KMB
TPH (Diesel Range)	1.4		0.05	0 mg/L	1		12/7/2009 02:47 PM
Surr: 2-Fluorobiphenyl	115		70-13	0 %REC	1		12/7/2009 02:47 PM
GASOLINE RANGE ORGANICS			SW8015	5			Analyst: RKG
Gasoline Range Organics	ND		0.50	0 mg/L	10		12/9/2009 02:47 PM
Surr: 4-Bromofluorobenzene	90.3		70-13	0 %REC	10		12/9/2009 02:47 PM
MERCURY			SW7470)	Prep Date:	12/8/2009	Analyst: JCJ
Mercury	0.00303	•	0.00020	0. mg/L	1		12/8/2009 03:29 PM
METALS			SW6020)	Prep Date:	12/4/2009	Analyst: ALR
Arsenic	ND		0.0050		1		12/4/2009 09:57 PM
Barium	ND		0.0050	0 mg/L	1		12/4/2009 09:57 PM
Cadmium	ND		0.0020	0 mg/L	1		12/4/2009 09:57 PM
Chromium	ND		0.0050	0 mg/L	1		12/4/2009 09:57 PM
Lead	0.0101		0.0050	0 mg/L	1		12/4/2009 09:57 PM
Selenium	ND		0.0050	0 mg/L	1		12/4/2009 09:57 PM
Silver	ND		0.0050	0 mg/L	1		12/4/2009 09:57 PM
SEMIVOLATILES			SW8270)	Prep Date:	12/8/2009	Analyst: ACN
1,2,4-Trichlorobenzene	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
1,2-Dichlorobenzene	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
1,3-Dichlorobenzene	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
1,4-Dichlorobenzene	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2,4,5-Trichlorophenol	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2,4,6-Trichlorophenol	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2,4-Dichlorophenol	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2,4-Dimethylphenol	ND	1	0.005	0 mg/L	1		12/8/2009 10:23 PM
2,4-Dinitrophenol	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2,4-Dinitrotoluene	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2,6-Dinitrotoluene	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2-Chloronaphthalene	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2-Chlorophenol	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2-Methylnaphthalene	0.013		0.005	0 mg/L	1		12/8/2009 10:23 PM
2-Methylphenol	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2-Nitroaniline	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
2-Nitrophenol	ND		`0.005	0 mg/L	1		12/8/2009 10:23 PM
3&4-Methylphenol	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
3,3'-Dichlorobenzidine	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
3-Nitroaniline	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM
4,6-Dinitro-2-methylphenol	ND		0.005	0 mg/L	1		12/8/2009 10:23 PM

Note:

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Drum 9 of 9

Collection Date: 12/2/2009 10:30 AM

Work Order: 0912072

Lab ID: 0912072-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Bromophenyl phenyl ether	ND		0.0050) mg/L	1	12/8/2009 10:23 PM
4-Chloro-3-methylphenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4-Chloroaniline	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4-Chlorophenyl phenyl ether	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4-Nitroaniline	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
4-Nitrophenol	ND		0.0050) mg/L	1	12/8/2009 10:23 PM
Acenaphthene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Acenaphthylene	ND		0.0050) mg/L	1	12/8/2009 10:23 PM
Anthracene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Benz(a)anthracene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Benzo(a)pyrene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Benzo(b)fluoranthene	ND		0.0050	0 mg/L	· 1	12/8/2009 10:23 PM
Benzo(g,h,i)perylene	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Benzo(k)fluoranthene	ND		0.0050	0 mg/L	1 .	12/8/2009 10:23 PM
Bis(2-chloroethoxy)methane	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Bis(2-chloroethyl)ether	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Bis(2-chloroisopropyl)ether	ND		0.0050	D mg/L	1	12/8/2009 10:23 PM
Bis(2-ethylhexyl)phthalate	0.010		0.0050	mg/L	1	12/8/2009 10:23 PM
Butyl benzyl phthalate	ND.		0.0050	mg/L	1	12/8/2009 10:23 PM
Carbazole	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Chrysene	ND		0.005	0 mg/L	1	12/8/2009 10:23 PM
Di-n-butyl phthalate	ND		0.005		1	12/8/2009 10:23 PM
Di-n-octyl phthalate	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Dibenz(a,h)anthracene	ND		0.005	0 mg/L	1	12/8/2009 10:23 PM
Dibenzofuran	ND		0.0056	0 mg/L	1	12/8/2009 10:23 PM
Diethyl phthalate	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Dimethyl phthalate	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Fluoranthene	ND		0.0050) mg/L	1	12/8/2009 10:23 PM
Fluorene	, ND		0.0050) mg/L	1	12/8/2009 10:23 PM
Hexachlorobenzene	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Hexachlorobutadiene	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Hexachlorocyclopentadiene	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Hexachloroethane	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Indeno(1,2,3-cd)pyrene	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
Isophorone	ND		0.0050	0 mg/L	1	12/8/2009 10:23 PM
N-Nitrosodi-n-propylamine	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
N-Nitrosodiphenylamine	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Naphthalene	0.0061		0.0050	mg/L	1	12/8/2009 10:23 PM
Nitrobenzene	ND		0.0050) mg/L	1	12/8/2009 10:23 PM
Pentachlorophenol	ND		0.0056	D mg/L	1	12/8/2009 10:23 PM

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Drum 9 of 9

Collection Date: 12/2/2009 10:30 AM

Work Order: 0912072

Lab ID: 0912072-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenanthrene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Phenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Pyrene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Surr: 2,4,6-Tribromophenol	74.8		42-124	%REC	1	12/8/2009 10:23 PM
Surr: 2-Fluorobiphenyl	<i>75.8</i>		48-120	%REC	1	12/8/2009 10:23 PM
Surr: 2-Fluorophenol	67.1		20-120	%REC	1	12/8/2009 10:23 PM
Surr: 4-Terphenyl-d14	74.4		51-135	%REC	1	12/8/2009 10:23 PM
Surr: Nitrobenzene-d5	70.5		41-120	%REC	1.	12/8/2009 10:23 PM
Surr: Phenol-d6	71.0		20-120	%REC	1	12/8/2009 10:23 PM
TCL VOLATILES		*	SW8260			Analyst: PC
1,1,1-Trichloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM .
1,1,2,2-Tetrachloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,1,2-Trichloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,1-Dichloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,1-Dichloroethene	ND		0.25	i mg/L	50	12/7/2009 05:49 PM
1,2-Dichloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,2-Dichlôropropane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
2-Butanone	ND		0.50	mg/L	50	12/7/2009 05:49 PM
2-Hexanone	ND		0.50	mg/L	50	12/7/2009 05:49 PM
4-Methyl-2-pentanone	ND		0.50	mg/L	50	12/7/2009 05:49 PM
Acetone	ND		0.50	mg/L	50	12/7/2009 05:49 PM
Benzene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Bromodichloromethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Bromoform	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Bromomethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Carbon disulfide	ND		0.50) mg/L	50	12/7/2009 05:49 PM
Carbon tetrachloride	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Chlorobenzene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Chloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Chloroform	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Chloromethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
cis-1,2-Dichloroethene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
cis-1,3-Dichloropropene	. ND		0.25	mg/L	50	12/7/2009 05:49 PM
Dibromochloromethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Dichloromethane	ND		0.50	mg/L	50	12/7/2009 05:49 PM
Ethylbenzene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Methyl tert-butyl ether	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Styrene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Tetrachloroethene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Toluene	ND		0.25	mg/L	50	12/7/2009 05:49 PM

Note:

Date: 17-Dec-09

Client:

Holly Energy Partners

Project:

South Plant

Sample ID:

Drum 9 of 9

Collection Date: 12/2/2009 10:30 AM

Work Order: 0912072

Lab ID: 0912072-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND		. 0.25	mg/L	50	12/7/2009 05:49 PM
trans-1,3-Dichloropropene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Trichloroethene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Vinyl chloride	ND		0.10	mg/L	50	12/7/2009 05:49 PM
Xylenes, Total	NÐ		0.75	mg/L	50	12/7/2009 05:49 PM
Surr: 1,2-Dichloroethane-d4	111		70-125	%REC	50	12/7/2009 05:49 PM
Surr: 4-Bromofluorobenzene	97.7		72-125	%REC	50	12/7/2009 05:49 PM
Surr: Dibromofluoromethane	95.9		71-125	%REC	50	12/7/2009 05:49 PM
Surr: Toluene-d8	95.5		75-125	%REC	50	12/7/2009 05:49 PM

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Land Landers Land

3352 128th Ave.

10450 Stanoilli Rd Sulte 210 Houston, Texas 77089 Tel. +1 281 530 5656 Fax. +1 281 530 5887

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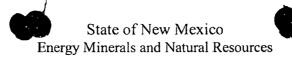
Holland, MI 49424-9263 Tel: +1 616 399 6070 Fax: +1 616 399 6185

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Section Work Order		- Project Numbers		\$ <u>0</u>		3RO (8015M)		T
Company Name	Navajo Retining Company	BIN TO COMPANY	Navajo Refining Company	‡O;		DRO (8015M)		T
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a Grum 9		0501 60 12/21		(1	7	7		
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- fr.p' .	Blank		120 1	7				
88.27 * 65.				·		-		
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2 35/1.6 th 20 - 9 2- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10								
6								
Sample (s) Please Print's Sign	医五年三年 中国 中国 中国 中国 中国 中国 中国 中国 中国 中国 中国 中国 中国	の の の の の の の の の の の の の の	19 qquired, Turiaround, Jimey, Check Boxx, Axolina, sea 4 roct season as a sea	nd Time: (Ch	WICE BOX	12 00 00 00 00 00 00 00 00 00 00 00 00 00	Operators of the Conference of	E # 2 2 2
Relinquished by:	Date: Date: 12 2.		ed by:	Ň	ites:	J'Day TAL		,
Relinquished by:	Date:	Time: Receiv	Received by (Labolatory): 1726	Troo.	S Tracooler Draws	Cooler Tembra	ac Pá	, j. 172
Logged by (Laboratory)。 医复数多条对象管理系统 设备等等位置 全型的有常用是具形的是多数。由于是一个企业的基础的是	有主奏的智術以為自有其有有有有所的 Date: "如此如此的學者的學學 及自由日本人為在於明在表演是經過發展的	· San Date: · San Tara Tara Andrea Ante Ante Ante Ante Ante Ante Ante Ante	·Checked by (Laboralogy)·络皮肤化,中科尔内克尔中国的基础的基础的基础的工作。 基础影響服务家有从表示了一个企业的影像影像影像影像影像影像影像等多级是多数是多数。 1. 安元等	· · · · · · · · · · · · · · · · · · ·	我你都有我有你為	· · · · · · · · · · · · · · · · · · ·	L Level III Sid OC/Row Dala [] TRRP Level IV	
Preservative Key; 11. HOL 21. Phyod	HOLEST ZHUODEST SOFE CHI	aOH	NaHSO4 2 2 1 Other 2 8 4 C. 4 2	9-5035 # *	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		_

Note: 11 Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
21 Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
31 The Chain of Custody is a legal document. All information must be completed accurately.

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<u>District III</u>
1000 Rio Brazos Road, Aztec, NM 87410
<u>District IV</u>
1220 S. 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

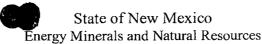
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

						OPERA	ГOR		☐ Initi	al Report	X	Final Repor
Name of Co	^_	Navajo Refi		npany		Contact D	arrell Moore					
Address		Iain Artesia	, NM			Telephone N						
Facility Nar	ne Arte	esia Plant		· · · · · · · · · · · · · · · · · · ·		Facility Typ	e Petroleun	n Refine	ery			
Surface Ow	ner			Mineral O	wner				Lease 1	No.		
				LOCA	TIO	N OF DEI	EACE					
Unit Letter	Section	Township	Range	Feet from the		N OF REI	Feet from the	Fact/W	est Line	County		
Oint Ection	Section	Township	Range	1 cet nom the	NOLLI	/ Sodui Line	r cet iroin the	Last	CSt Line	County		
										1		
			La	titude		Longitud	le					
				NAT	URE	OF RELI	EASE					
Type of Rele							Release NA			Recovered	NA	
Source of Re	lease N	lorth Plant Fla	re				lour of Occurrence	e		Hour of Dis	covery	January 26,
						January 26	, 2009 1:00 am		2009 1:	:00 am		
Was Immedia	ate Notice (Yes [No 🛣 Not Re	quired	If YES, To	Whom?					
By Whom?				<u> </u>	<u> </u>	Date and H	lour					
Was a Water	course Read		Yes 🔀	1 No			lume Impacting t	the Wate	rcourse.			
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*								
North Plant F personnel by	Flare "burpe simply stor	mping on the f	on and sta ire. Navaj	rted a small fire justo's fire departmen				y. The fi	re was pu	t out immedi	ately b	y Navajo
Area effected	l was north	_	v between	Freeman Street an								
regulations a public health should their o or the environ	Il operators or the envi operations h nment. In a	are required tronment. The nave failed to	o report as acceptant adequately OCD accept	e is true and complete is true and complete is certain rece of a C-141 report investigate and repart of a C-141 report ance of a C-141 received.	elease r rt by the emedia	notifications and ne NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a thr	ctive acti Leport" de reat to gre	ons for rel oes not rel ound wate	leases which lieve the ope er, surface wa	may en rator of ater, hu	ndanger f liability man health
Signature:	<u></u>	well !	More	٩			OIL CON	SERV.	<u>ATION</u>	DIVISIO	<u>N</u>	
Printed Name	e: Darrell M	100re				Approved by	District Supervis	or:				
Title: Envir	onmental M	lanager for W	ater and V	Vaste		Approval Dat	e:	F	Expiration	Date:		
E-mail Addre	ess: Darrell	.moore@holly	corp.com			Conditions of	Approval:				_	
Date: Januar 746-5281	y 26, 2009			Phone: 5	575-					Attached		
	. 101	TCAT	·						·	· · · · · · · · · · · · · · · · · · ·		

^{*} Attach Additional Sheets If Necessary

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
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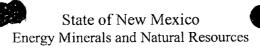
Form C-141

Revised October 10, 2003

			Rele	ase Notifica	ation	and Co	rrective A	ction					
						OPERA?	ГOR		☐ Initi	al Report	X	Final Repor	rt
Name of Co	ompany	Navajo Refin	ning Co-I	ea Refining			arrell Moore						
Address		. Main Lovi	ngton, N	M		Telephone 1							
Facility Nat	me					Facility Typ	e Petroleum R	Refinery		 			_
Surface Ow	ner			Mineral O	wner				Lease 1	No.			_
				LOCA	TION	OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	Vest Line	County			
			Lat	itude		Longitud	le						
				NAT	URE	OF REL	EASE						
Type of Rele	ase Fire					Volume of	Release N/A			Recovered	N/A		_
Source of Re	elease Lo	ose Unions				Date and H	lour of e2/25/09 2:00 am	,	Date and 2:00 am	Hour of Disc	overy	2/25/09	
Was Immedi	ate Notice (Given?				If YES, To		1	2.00 am	·			_
			Yes 🎗	No 🔀 Not Rea	quired								
By Whom?						Date and H							
Was a Water	course Read	ched?	Voc. T	No NA		If YES, Vo	lume Impacting	the Wate	rcourse.				
		pacted, Descri											
The plant has had not been	s been in ex tightened.	The leaking ga	and turn a s ignited.	round mode as we The fire was put o							ude Ch	narge heater	
		and Cleanup A		en.* Pipes will be repla	aced.								
regulations a public health should their or or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to a	o report an acceptance	d/or file certain re te of a C-141 report investigate and re	lease no nt by the mediate	to the best of my knowledge and understand that pursuant to NMOCD rules and ase notifications and perform corrective actions for releases which may endanger by the NMOCD marked as "Final Report" does not relieve the operator of liability ediate contamination that pose a threat to ground water, surface water, human heal out does not relieve the operator of responsibility for compliance with any other							
Signature:	A.	I M	ille o				OIL CON	SERV	ATION	DIVISIO	N		
Printed Name	e: Darrell	Moore	,, <u> </u>			Approved by	District Supervis	sor:					
Title: Envir	onmental M	lanager for W	ater and W	'aste		Approval Dat	e:	l I	Expiration	Date:			
E-mail Addre	ess: Darrell	moore@holly	corp.com			Conditions of	Approval:			Attended		-	,
Date: 2/2	5/09			Phone: 575-746-						Attached	П		

^{*} Attach Additional Sheets If Necessary

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Form C-141 Revised October 10, 2003

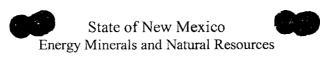
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side of form

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

Release Notification and Corrective Action

			KCK	ast Mount	auo	OPERAT		Cuon	☐ Initi:	al Report	×	Final 1	Report
Name of Co	mpany	NAVAJO	REFININ	G COMPANY			RRELL MOOF	RE		110port	4.5		
Address		AIN ARTE				Telephone N				······································			
Facility Nar		TESIA PLA				Facility Typ	e PETROLE	UM RE	FINERY				
Surface Ow	ner			Mineral O	wner				Lease N	No.	- :		·
			_	LOCA	TIO	N OF REI	FASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W	est Line	County			
			18										
L	l	<u> </u>	Lat	titude		Longitud	le			L			
				NAT	URE	OF RELI	EASE						
Type of Rele		E				Volume of	Release NA			Recovered	NA		
Source of Re	lease FI	RE IN TK 409)				Iour of Occurrence	e	Date and	Hour of Disc	covery	SAME	į
Was Immedia	ate Notice (Fiven?				If YES, To	APRIL 21, 2009 Whom?						
1			Yes [No 🗌 Not Re	quired	BRAD JOI							
By Whom?							lour 10:00 AM						
Was a Water	course Read	ched?	. v 107	l xt.		If YES, Vo	olume Impacting t	the Water	rcourse.				
			Yes 🔀										
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*	•						-11	-		
Describe Cau	se of Probl	em and Reme	dial Action	1 Taken.*						 			
				e started inside the									
				hat had accumulat onger use cutting								e fire w	ithin
innidios. 745 t	result of th	no mo, mavaj	o will no i	onger use cutting	wiches	to cut manwa	iyo into tunko. 1 di	ture man	ways wiii	oo water out.			
Describe Are	a Affected	and Cleanup	Action Tak	en.*									
Area affected	l is Tk 409:	in the South P	lant. We a	re performing stru							nk is a	total lo	SS.
There were n	o injuries a	ssociated with	this event	t. Highway 82 was	s closec	l by the Artesi	a Police Dept. for	r about 3	0 minutes	•			
										•			
I hereby certi	fu that the	information a	von abovo	is true and compl	lete to t	he best of my	knowledge and u	ınderetan	d that pure	nuant to NM(OCD n	iles and	1
regulations a	ll operators	are required t	o report ar	id/or file certain re	elease n	notifications a	nd perform correct	ctive action	ons for rel	eases which	may en	danger	
public health	or the envi	ronment. The	acceptance	e of a C-141 repo	rt by th	e NMOCD m	arked as "Final R	eport" de	oes not rel	ieve the oper	ator of	liabilit	у
or the environ	operations n nment. In a	lave failed to a	adequately ICD accen	investigate and retance of a C-141 i	emediai report d	te contaminati loes not reliev	on that pose a three the operator of	eat to gre responsil	ound water bility for c	r, surtace wa ompliance w	ier, nui ith anv	nan nea	aitn
		ws and/or regi			рого				,.	· · · · · · · · · · · · · · · · · · ·			
							OIL CON	SERV.	<u>ATION</u>	DIVISIO	N		
Signature:	Tau	W IVI	boll										
Printed Name	e: Darrell	Moore				Approved by	District Supervis	or:					
Title: Enviro	nmental Ma	anager for Wa	ter and Wa	iste		Approval Dat	te:	E	Expiration	Date:			· · ·
E-mail Addre	ess: Darrell	.moore@holl	ycorp.com			Conditions of	f Approval:		•	A44 1 1	П		
Date: A	pril 22, 200	9		Phone: 57	_{'5-}					Attached	Ц		
746-5281													

<u>District I</u> 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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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

side of form

Form C-141

Revised October 10, 2003

Release I	Notificati	on and (Corrective	Action

						OPERA'	FOR	Ini	ial Report F	inal Report
Name of Co		Navajo Refi				Contact Da				
Address		ain Artesia	NM 882	11		Telephone l				
Facility Nan	ne Arte	esia Plant				Facility Typ	e Petroleum	Refinery		
Surface Own	ner			Mineral C)wner	···-		Lease	No	
Suritate S W				1711Herur C	WHOI			Bease	110.	
				LOCA	TIOI	N OF RE	LEASE			
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/West Line	County	
<u></u>		L	La La	titude	L	Longitud	le	L		
						OF REL				
Type of Relea	ase Fire				CICL		Release NA	Volume	Recovered NA	
Source of Rel		GO Pump					lour of Occurrence		Hour of Discovery	
						5/21/09 5:3		5/21/09	5:30 am	
Was Immedia	ite Notice (1 27		If YES, To	Whom?			
			Yes _	No Not Re	equired					
By Whom?		1 10				Date and H				
Was a Watero	ourse Read		Yes [l No		If YES, Vo	lume Impacting t	he Watercourse.		
				_	,	<u> </u>				
If a Watercou	rse was Im	pacted, Descri	ibe Fully.'	k						
Describe Caus										
									some scaffolding above	ve the
pump caught	ine. It was	inimediately (exunguisn	ed. The only dam	age was	some minor	charring of the sca	amolding boards.		}
									<u> </u>	
Describe Area	Affected a	and Cleanup A	Action Tak	ten.*						
									suant to NMOCD rule	
regulations all	operators	are required to	o report an	nd/or file certain re	elcase n	otifications ar	d perform correct	tive actions for re	leases which may enda	inger
									lieve the operator of lia	
									er, surface water, huma compliance with any of	
federal, state,					opon a		o mo operator or r	coponicionity for	omphanoe was any o]
	1						OIL CONS	SERVATION	DIVISION	
a: /	1	$\Lambda \cap \Lambda \Lambda$	14.							
Signature:	_yau	UN 100	w							Ī
Printed Name:	Darrell N	Moore			- 4	Approved by	District Superviso	or:		
7 1 11100 1 10110	. Daireit	VIOOIC		· · · · · · · · · · · · · · · · · · ·						
Title: Env Mg	gr for Wate	r and Waste	· · · · · · · · · · · · · · · · · · ·			Approval Dat	e <u>:</u>	Expiration	Date:	
E 9 A 11	. D "	O1 "								
E-mail Addres	ss: Darrell	.moore@holly	corp.com		(Conditions of	Approval:		Attached D	1
Date: 5/21/0	19			Phone: 575-746-					Attached	ļ
5281	_			110.10. 575 770						1
Attach Additi	ional Shee	ets If Necess	ary							

District I
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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Sánta Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

						OPERA?	ГOR		Initia	al Report	Final Report
Name of Co	mpany: N	avajo Refini	ng Co. L	LC	- 10	Contact: Aa	ron Strange				
		Street Artes			-	Telephone 1	No. 575-748-331	1			
Facility Nar	ne: Artesia	a Plant	······				e: Petroleum Re				
Surface Ow	ner			Mineral O	wner_				Lease N	10.	
	,					OF REI					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County	
		L				I anaitud					
			La	titude		_Longitud					
CD 1				NAT	URE	OF REL		-: -			<u> </u>
Type of Rele		Evolungor	V 515 and	X-516) in FCC U	ĭ:4		Release: ~ 15 bar lour of Occurrence			Recovered: ~ 1 Hour of Disco	
#10	icasc. Heat	Exchange (2	X-515 and	1 X-310) III I CC C	71111	7/22/09 ~ (c.	~ 07:46	Hour of Disco	very. 1122109
Was Immedia	te Notice C	Given?				If YES, To			<u> </u>		
_			Yes [No 🗌 Not Re	quired		Chavez) and NM	ED (Ho	pe Monzeg	glio)	
By Whom? D							lour: 7/22/09 ~ 07				
Was a Watero	ourse Read			•			lume Impacting t	he Wate	rcourse.		
_			Yes 🔀	No		NA					
If a Watercou	rse was Im	pacted, Descri	be Fully.	k			. 4.				
NA											
Describe Cau	se of Proble	em and Remed	dial Action	n Taken.*							
				he FCC unit. Two	changers (X-	515 and X-516) s	tarted to	leak Slurr	y Oil from the	shell side of the	
			lue to an e	electrical problem	causing	equipment to	cool down. The	exchang	ers started	to leak from a	round the gaskets
as the metal c	ooled and o	contracted.									
Describe Area	Affected :	and Cleanup /	otion Tal	- *							
The fire occur	rred in the l	FCC unit from	two heat	exchangers (X-51	5 and X	-516). One te	mnerature indicat	or was	damaged fr	om the fire an	d some of the
insulation on	the exchang	gers was remo	ved and re	eplaced. The fire v	vas put o	out immediat	elv and damage w	as verv	minor. No	one was injure	ed from the fire.
_					-		_	_		-	1
				is true and compl							
				nd/or file certain re							
public health	or the envi perations b	ronment. The	acceptance	ce of a C-141 repo investigate and re	rt by the	NMOCD m	arked as "Final Re	eport",d	oes not reli	eve the operat	or of liability
or the environ	ment. In a	ddition NMO	CD accen	tance of a C-141 r	renort de	es not reliev	on mai pose a une e the operator of r	zatio gr resnonsi	bility for co	, surface water	h any other
federal, state,					oport de)	e the operator of t	Сэронэг	onity for o	omphance with	rany onioi
- -				4,38			OIL CONS	SERV	ATION	DIVISION	J
	7.	87			ļ						÷
Signature:	ann	~ ser	ner	ng~							1
Printed Name	: Aaron Str	ange			A	Approved by	District Superviso	or:			
Title: C. E.	iranmantat	Toohnisian				A		-	7	D-+	
Title: Sr. Env	nomnentat	Commetan				Approval Dat	e		Expiration 1	Date:	
E-mail Addre	ss: aaron.st	range@hollvo	orp.com		10	Conditions of	Approval:			1	_
		<u> </u>								Attached [
Date: 7/22/09		····		Phone: 575-703-5	057					1	

^{*} Attach Additional Sheets If Necessary

French Dr., Hobbs, NM 88240 III / Grand Avenue, Artesia, NM 88210 IIII io Brazos Road, Aztec, NM 87410

. St. Francis Dr., Santa Fe, NM 87505

Energy Minerals and Natural Resources

Revised October 10, 2003

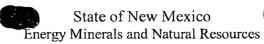
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Release Notification and Corrective Action

					OPERA			al Report		Final Repor	
		avajo Refini				aron Strange					
		Street Artes	ia, N.M.	88210		No. 575-748-33					
ility Nar	me: Artesi	a Plant			Facility Ty	pe: Petroleum R	etinery	 -			
face Ow	ner			Mineral Own	er		Lease 1	Vo.			
				LOCAT	ION OF RE	LEASE					
t Letter	Section	Township	Range	Feet from the N	orth/South Line	Feet from the	East/West Line	County			
		l	La	titude	Longitu	de					
				NATUI	RE OF REL	EASE					
e of Rele						f Release: NA		Recovered: N			
		Preheater Exc	changer ()	K-9852) head in Unit i	1	Hour of Occurrence		Hour of Disc	overy:	: 8/18/09	
drogen P	ate Notice (Given?			8/18/09 ~	o Whom? NA	~ 23:30				
3 mmodi	ate House v		Yes 🗵	No 🗌 Not Requi		o whom: Tit					
Whom? N	NA				Date and	Hour: NA		· · · · · · · · · · · · · · · · · · ·			
	course Read	ched?				olume Impacting	the Watercourse.				
			Yes 🗵] No	NA						
8/18/09 a changer. T scribe Are fire occu	t ~ 23:28 the feed gas a Affected arred in Uni	consists of hy and Cleanup A t #64 from the	or fire in drogen w Action Tal	Unit #64. The Feed Prith some CO2, CO, m	ethane and stear 9852) head. The	n. Maintenance re	paired the leak by r hed using steam ho	eplacing the	gasket.		
ulations ablic health ould their o the environ	II operators or the envi- operations h nment. In a	are required to ronment. The lave failed to a	o report and acceptand adequately OCD accep	nd/or file certain releate of a C-141 report by investigate and reme	to the best of my knowledge and understand that pursuant to NMOCD rules and ase notifications and perform corrective actions for releases which may endanger by the NMOCD marked as "Final Report" does not relieve the operator of liability ediate contamination that pose a threat to ground water, surface water, human health ort does not relieve the operator of responsibility for compliance with any other						
	This	hi			OIL CONSERVATION DIVISION						
	e: Aaron Str		4		Approved by	District Supervis	or:				
e: Sr. Env	vironmental	Technician			Approval Da	ite:	Expiration	Date:			
		range@hollyc	corp.com		_ Conditions o	f Approval:		Attached			
e 8/20/00)			Phone: 575 703 5051	7 1			1			

ttach Additional Sheets If Necessary

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Form C-141

Revised October 10, 2003

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

Santa Fe, NM 87505

Release Notification and Corrective Action

			Ken	ease Nounc	auo	n and Co	MICCUVE A	CHOI				
						OPERA'	ΓOR		M Initi	al Report		Final Repor
		avajo Refini				Contact: Aa	ron Strange					
		Street Artes	ia, N.M.	88210			No. 575-748-331					
Facility Na	me: Artesia	Plant				Facility Typ	e: Petroleum Re	efinery	_			
Surface Ow	mer			Mineral C	humer				Lease N	No.		· ··- ·· · · · · · · · · · · · · · · ·
Startage & V	, noi		,	iviniciai c	WIICI				1 Doube 1	10.		
				LOCA	OITA	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/V	Vest Line	County		
							,					
			L	l	i							·
			La	titude		_ Longitud	le					
				NAT	יור אר אי	OF REL	FASE					
Type of Rele	ase: Fire			IVAI	UKE		Release: NA		Volume I	Recovered:	NA	
		gas braided ho	ose going	to the second by	urner		lour of Occurrence	e:		Hour of Dis		: 11/05/09
				tic Reforming).		11/05/09 ~	11:52		~ 11:52			
Was Immedi						If YES, To	Whom? NA				,	
			Yes 🗵] No 🗌 Not Re	equired							
By Whom?						Date and H	Iour: NA					
Was a Water	course Reac			_		If YES, Vo	olume Impacting t	he Wate	rcourse.			
		LJ	Yes 🗵	No		NA						
If a Waterco	urse was Im	pacted, Descri	ibe Fully.	ķ								
NA							• *					
Describe Car	se of Proble	em and Reme	dial Action	n Taken *								
				Unit #70 on a br	raided t	fuel gas hose	going to the sec	cond bi	irner on F	I-363. The	outsid	e operator
	was in the process of lighting an adjacent burner when the braided hose ignited. The number 2 burner was shut off extinguishing the small flame. A WA was written and the braided hose was changed out. The WA# was 242270											
		and Cleanup A				C1 1		1 1	T	T 2/2 TL-		
				Unit #70 on a brurner when the b								
				ose was change							nsmi	g me sman
IIIIII	2 x ***********************************	iten mid me	oranded h	ose was change	a out.	THE WITH WE	13 242270, 140 01	ic was i	ijurai noi	n the me.		
				is true and comp								
				nd/or file certain r								
public health	or the envir	ronment. The	acceptance	ce of a C-141 repo	ort by th	e NMOCD m	arked as "Final Ro	eport" d	oes not rel	ieve the oper	rator of	liability
or the enviro	nment In a	ddition NMC	idequatery ICD accer	investigate and restance of a C-141	report d	e contaminati loes not reliev	on mat pose a till e the operator of i	eat to gr resnonsi	ound water	r, suriace wa omnliance v	uer, nu vith anv	man neam v other
		vs and/or regu		Or a O-141	. oport o	Hot Tollov	o are operator of t	-oponsi	J.111.5 101 C	omphance w	· - LLL (III)	Julion
							OIL CONS	SERV	ATION	DIVISIO	N	
Ciano	ans.	v B7	7									
Signature: U	www			7								
Printed Nam	e: Aaron Str	ange	•			Approved by	District Superviso	or:				
		9										
Title: Sr. En	vironmental	Technician				Approval Dat	e:	1	Expiration	Date:		
T						a						
E-mail Addr	ess: aaron.st	range@hollyc	corp.com			Conditions of	Approval:			Attached		
Date: 11/05/0	09			Phone: 575-703-5	5057							
		ets If Necess					· · · · · · · · · · · · · · · · · · ·					

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

Santa	a re, NM 8/303									
Release Notificat	ion and Corrective Act	ion								
	OPERATOR	☐ Initial Report ☐ Final Report								
Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange	•								
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311									
Facility Name: Artesia Refinery	Facility Type: Petroleum Refi	nerv								
Surface Owner Mineral Own	er	Lease No.								
LOCAT	ION OF RELEASE									
Unit Letter Section Township Range Feet from the No	orth/South Line Feet from the F	ast/West Line County								
Latitude	Longitude									
	RE OF RELEASE									
Type of Release: Fire	Volume of Release: NA	Volume Recovered: NA								
Source of Release: Pump seal on gas-oil pump near Tank 433.	Date and Hour of Occurrence:	Date and Hour of Discovery: 12/20/09								
Source of Actions I amp sour on gus on pump near Tank 455.	12/20/09 ~ 09:00	~ 09:00								
Was Immediate Notice Given?		Dade (OCD District Supervisor).								
☐ Yes ☐ No ☐ Not Requi										
By Whom? Doug Price	Date and Hour: 12/20/2009 at a call at ~09:50.	-09:43 (left voice mail). Mr. Randy returned the								
Was a Watercourse Reached?	If YES, Volume Impacting the	Watercourse.								
☐ Yes ⊠ No	NA	1								
If a Watercourse was Impacted, Describe Fully.* NA										
Describe Cause of Problem and Remedial Action Taken.* On 12/20/2009 at ~ 09:00, the fire alarm was sounded for a fire near Tank 433. A pump seal on a gas-oil pump near tank 433 caught on fire. The fire was extinguished within a few minutes. No one was injured from the event. At this time no cause has been identified. An accident investigation is being conducted to determine the cause of the fire. A final report will be sent after the accident investigation has been completed. The pump has a concrete containment with a sewer, however nothing spilled out from the pump or got on the ground. Describe Area Affected and Cleanup Action Taken.*										
The area affected was a pump seal on a gas-oil pump near tank 433. T included a section of metal flexible electrical conduit. The conduit pre concrete containment with a sewer, however nothing spilled out from	evented any damage to the wiring. No the pump.	one was injured from the fire. The pump has a								
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 reported federal, state, or local laws and/or regulations.	se notifications and perform correctivy the NMOCD marked as "Final Reportion of the contamination that pose a threat	e actions for releases which may endanger ort" does not relieve the operator of liability to ground water, surface water, human health								
	OIL CONSE	RVATION DIVISION								
Signature: Roman Burn										
Printed Name: Aaron Strange	Approved by District Supervisor:									
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:								
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached								

Phone: 575-703-5057

Attach Additional Sheets If Necessary

Date: 12/21/2009

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 N. 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

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Release Notification and Corrective Action

						OPERA	ror_		Initia	al Report		Final Rep	or
		lavajo Refini				Contact: Aa							
		Street Artes	ia, N.M.	88210			No. 575-748-33						
Facility Na	me: Artesi	a Refinery				Facility Typ	e: Petroleum R	efinery					
Surface Ow	ner			Mineral (Owner			I	ease N	No.			_
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West	Line	County		· · · · · · · · · · · · · · · · · · ·	
		<u> </u>	La	titude		Longitud	le			I			
				NAT	rure	OF REL	EASE						
Type of Rele	ase: Fire						Release: NA			Recovered:			
Source of Re	lease: D-35	4 CCR (Unit	70) reacto	r#3 inlet flange.		Date and F 12/22/09 ~	lour of Occurrence 20:45		ate and 20:45	Hour of Dis	covery:	12/22/09	
Was Immedi	ate Notice (Given?					Whom? Mr. Ran			strict Superv	risor).		
		\boxtimes	Yes [No 🗌 Not R	.equired			·		•			
By Whom? I	Doug Price					call at ~21:				e mail). Mr.	Randy	returned th	ie_
Was a Water	course Read		Yes ⊠	No		If YES, Vo	lume Impacting t	the Waterco	urse.				
NA		pacted, Descr							•				
On 12/22/20 and pumping extinguished stopped the l	09 at ~ 20:4 (it with sea) within a fe eak. No one	lant to stop a l w minutes usi	fire in the lydrogen l ng hand he from the e	CCR (Unit # 70) eak when the fire eld fire extinguish vent. There were	occurre	d. The hydrog steam. The co	gen temperature v ontractor continue	was ~900 °F ed pumping	so it au the seal	ito ignited. T lant into the	he fire flange	was clamp whic	:h
Describe Area Affected and Cleanup Action Taken.* The area that was affected was in the CCR Unit #70 on the reactor #3 inlet flange. A contractor was installing a clamp on the reactor flange and pumping i with sealant to stop a hydrogen leak when the fire occurred. The hydrogen temperature was ~900 °F so it auto ignited. The fire was extinguished within a few minutes using hand held fire extinguishers and steam. The contractor continued pumping the sealant into the flange clamp which stopped the leak. No one was injured from the event. There were no damages from the event. The fire occurred within a unit that has a concrete slab with sewers; however nothing spilled out or got onto the ground.													
regulations a public health should their or the enviro	ll operators or the envioperations homent. In a	are required t ronment. The nave failed to	o report and acceptant adequately OCD accept	e is true and comp nd/or file certain rate of a C-141 report investigate and ratance of a C-141	release n ort by the remediat	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actions Report" does reat to groun	for rele not reli d water	eases which leve the oper r, surface wa	may en rator of iter, hui	ndanger liability man health	
							OIL CON	SERVAT	TION	DIVISIO	N		
Signature: C	rano	n bin	ng			Annroved by	District Supervice	or					
Printed Nam	e: Aaron St	range			Approved by District Supervisor:								
Title: Sr. En	vironmental	Technician		 _		Approval Dat	e:	Expi	iration 1	Date:			
E-mail Addre	ess: aaron.si	trange@hollyc	corp.com			Conditions of	Approval:			Attached			
Date: 12/23/2	2009			Phone: 575-703-	5057								
		ets If Necess								1			_

District | 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

Date: 12/31/2009

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Revised October 10, 2003

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

		.,			Sa	nta Fe	e, NM 8/5	05					
				Rele	ease Notific	atio	and Co	rrective A	ction				
							OPERAT	ΓOR	(l Report	☐ Fina	al Repo
Name o	f Compa	ny: Na	avajo Refinii	ng Co. L	LC		Contact: Aai	ron Strange					
Address	s: 501 E.	Main	Street Artes	ia, N.M.	88210			No. 575-748-33					
Facility	Name: A	Artesia	Refinery				Facility Typ	e: Petroleum Re	efinery				
Surface	Owner				Mineral C	wner				Lease N	0.		
					LOCA	TIOI	- V OF REI	EASE					
Unit Let	ter Sec	tion	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County		
			-										
<u> </u>		1		<u></u> _					J				
				La	titude	·	_ Longitud	e					
	~ <u>~</u>				NAT	URE	OF RELI						
	Release: F			1.6				Release: NA			ecovered: 1		1 /00
Source of	it Release:	: CCR	(Unit 70) blin	id flange.			12/31/09 ~	our of Occurrence 09:30		~ 09:30	tour of Dis	covery: 12/3	1/09
Was Im	nediate N	otice G	iven?			<u>-</u>		Whom? Left voi			istrict Supe	rvisor (575-	748-
			\boxtimes	Yes [No Not Re	equired	1283 exten	sion 104).					
By Who	m? Doug	Price					Date and H	our: 12/31/2009	at ~09:59)			
Wasa	Vatercours	- D	1- 0-19				ICVES Va	luma Impacting	tha Watar	**********			
wasav	vatercours	e Reac		Yes 🗵			NA	lume Impacting t	ille water	course.			
	ercourse w	vas Imp	oacted, Descri	be Fully.	*		1	,					
NA Data il	C		em and Remed	1'-1 A -4'-	Tr. 1 *								
On 12/2 line from hydroge blind fla	3/2009 at a n the Hydr n leak froi nge have l	~ 09:3(rogen F m a blir been tig	O there was a lant Number and flange that ghatened so the	hydrogen 2 (Unit 64 was not c e hydroge	fire in the CCR (U4) compressors to completely tight. In leak has been stone with sewers; If the complete in t	the Nap The fire opped. I	ohtha Hydrotro was extinguis No one was in	cater (Unit 13). Ned quickly with jured from the ev	While the a hand-h ent. Ther	y were grir eld fire ext re were no	nding, a spa inguisher.	rk ignited a The bolts on	the
The area from the leak from have been complete.	that was a Hydrogen a blind for tightened by one of the tightened by the theta the theta the the the the the the the the the the	affecten Plant flange the decired so the end of the end	Number 2 (U that was not c ne hydrogen le	CCR Unit fnit 64) co ompletely eak has be he event.	#70 on a blind fla ompressors to the land tight. The fire water stopped. The land There were no dar	Hydrotreater guished quick in the vicinity	(Unit 13). While ly with a hand-he y of 70FIC090 (w	e they we ld fire ex hich will	ere grinding tinguisher become 1	g, a spark ig The bolts o 3PIC090 af	nited a hydron the blind for the work	ogen flange is	
regulation public he should the or the er	ons all ope ealth or the neir operativironment	erators a c envir tions ha t. In ac	are required to conment. The ave failed to a	o report an acceptant adequately ICD accep	e is true and comp nd/or file certain r ce of a C-141 repo investigate and r otance of a C-141	elease n ort by th emediat	otifications ar e NMOCD ma e contaminati	nd perform correct arked as "Final R on that pose a three the operator of	etive action Report" do reat to gro responsib	ons for rele oes not relic ound water, oility for co	ases which eve the oper , surface wa ompliance w	may endang rator of liabil ter, human h vith any othe	ger lity health
Signatur	Dar	ia.	- 9		2			OIL CON	SERV	ATION	DIVISIC	<u>N</u>	
Printed 1	Vame: Aar	ron Str					Approved by	District Supervis	or:				
Title: Sr	Environn	nental '	Technician				Approval Dat	e:	E	xpiration I	Date:		
E-mail A	ddress: aa	aron.str	range@hollyc	orp.com			Conditions of	Approval:			Attached		

Phone: 575-703-5057