GW - 032

MONITORING REPORT 2

August 2009

Binder 2

Annual Groundwater Monitoring Report: Gallup Refinery - 2008

Western Refining
Gallup, New Mexico

August 2009

Prepared by:

Gaurav Rajen, Ph.D.
Environmental Engineer

Reviewed by:

Ed Riege, M.P.H.
Environmental Manager

Certified by:

Mark Turri
Refinery Manager

Summary of Separated Phase Hydrocarbons Recovered

APPENDIX A

Data on recovery of free product from RW-1

WESTERN REFINERY - GALLUP REFINERY

RW-1 HYDROCARBON RECOVERY LOG

2/22/05 TO 12/26/09

Date of measurement	Time	Quarter	Well #	Depth to Product (feet)	Depth to Water (feet)	Product Level Thickness (feet)	Volume of Product Bailed/ Pumped (gallons)	Water Gallons
2/22/2005	0830	1st.	RW-1	32'-5 1/2"	36'-6"	4'-0 1/2"	14	
3/2/2005	0745	1st.	RW-1	32'-5"	36'-5 1/4"	4'-0 1/4"	9	
3/8/2005	0830	1st.	RW-1	31'-11"	36'-4 1/4"	4'-5 1/4"	15	
3/9/2005	0830	1st.	RW-1	31'-11"	37'-6"	5'-7"	4	
3/11 to 3/18/05		1st.	RW-1	Started Pumping Well on 3/11/05			74	
3/18 to 3/23/05		1st.	RW-1	Continue Pumping			48	
3/23 to 4/1/05		1st.	RW-1	Continue Pumping			62	
4/1 To 4/4/05		2nd	RW-1	Pump shut down to measure well			27	
4/5/2005	11:30Hrs	2nd	RW-1	34'-9"	38'-11"	4'-2"		
4/4 TO 4/15/05	11:00Hrs	2nd	RW-1	Continue Pumping			50	
4-15 to 5-5-05	1230 Hrs	2nd	RW-1	Continue Pumping			45	154
5-5 to 6-17-05	1130 Hrs	2nd	RW-1	Continue Pumping			24	196
6/27/2005	1400 Hrs	2nd	RW-1	Pump shut down to measure well				
6/28/2005	1100 Hrs	2nd	RW-1	32' 5 1/2"	33' 3"	0' 9 1/2"		
6/28/2005		2nd	RW-1	Continue Pumping				
6/17 to 7/8/2005	1030 Hrs	2nd	RW-1	Continue Pumping			18	146

7/8 to 8/9/2005	1330 Hrs	3rd	RW-1	Continue Pumping			28	350
8/9 to 9/16/2005	1135 Hrs	3rd	RW-1	36'- 5 1/2"	36' - 6 1/2"	0' - 1"	8	240
12/5/2005	1315 Hrs	4th	RW-1	31'-11"	34'-8 1/2"	2'-9 1/2"		
12/8/2005	1400 Hrs	4th	RW-1	Start Pumping				
12/22/2005	1530 Hrs	4th	RW-1	Pulled Pump			5	120
12/29/2005	1400 Hrs	4th	RW-1	Hand Bailed			0.5	4.5
3/16/2006	1300 Hrs.	1st.	RW-1	32'-2 3/4"	34'-5 3/4"	2'-3"		
3/16/2006	1430 Hrs.	1st.	RW-1	Start Pumping				
3/23/2006	1430 Hrs.	1st.	RW-1	Shut Off Pump				
3/27/2006	1530 Hrs.	1st.	RW-1	Start Pumping				
3/31/2006	1130 Hrs.	1st.	RW-1	Continue Pumping			7	174
4/3/2006	1130 Hrs.	2nd	RW-1	Stopped Pumping			1	38
4/4/2006	1100 Hrs.	2nd	RW-1	32'-9"	33'-1"	0'-4"		
6/6/2006	1300 Hrs.	2nd	RW-1	32'-4 3/4"	34'-6 1/2"	2'-1 3/4"		
6/8/2006	1500 Hrs.	2nd	RW-1	Start Pumping (Intermittingly)				
6/29/2006	1000 Hrs.	2nd	RW-1	Stopped Pumping			8	365
7/31/2006	1145 Hrs	3rd	RW-1	33'-0 3/4"	33'-5 3/4"	0'-5"		
7/31/2006	1145 Hrs	3rd	RW-1	Start Pumping				
8/3/2006	1420 Hrs	3rd	RW-1	Stopped Pumping			2	87
8/8/2006	0900 Hrs.	3rd	RW-1	Start Pumping				
8/10/2006	1530 HRS	3rd	RW-1	Start pumping				
8/22/2006	0900 Hrs.	3rd	RW-1	Pulled pump			4.9	373
8/22/2006	0945 HRS	3rd	RW-1	33.10	33.40	0.30		
12/21/2006	1555	4th	RW-1	35.20	36.00	0.80	0.62	70
2/21/2007	1015	1st.	RW-1	33.42	34.60	1.18	0.63	53.5
6/5/2007	1000	2nd	RW-1	32.42	32.71	0.29		

6/5/2007	1010			Hand Bailed			0.05	9
6/6/2007	840			Hand Bailed			0.1	11
6/13/2007	1400			Hand Bailed			0.1	12
6/14/2007	1040			Hand Bailed			0.05	8
7/10/2007	1008	3rd	RW-1	32.42	32.71	0.29	0.3	18
7/11/2007	925	3rd	RW-1	Hand Bailed			0.21	12.5
7/23/2007	1000	3RD	RW-1	Hand Bailed			0.10	5.5
11/26/2007	1050	4th	RW-1	30.76	36.45	5.69	0.18	37
2/18/2008	1532	1st.	RW-1	30.18	34.77	4.59	1.66	36
5/21/2008	1410	2nd	RW-1	30.33	34.57	4.24	1.39	51
9/12/2008	1430	3rd	RW-1	30.03	34.59	4.56	NOT BAILED	
11/13/2008	1300	4TH	RW-1	30.02	34.63	4.61	0.94	65
2/11/2009	1405	1st.	RW-1	30.21	31.72	1.51	0.29	90
5/5/2009	1130	2nd	RW-1	30.22	30.8	0.58	0.41	76
					Total Gallons		**459.78**	**2571**

Applicable Standards

APPENDIX B
Listing of Applicable Standards

New Mexico Water Quality Control Commission Ground Water Standards

A. Human Health Standards - Ground water shall meet the standards of Section A and B unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria of WQCC Section 1-101.UU. for the combination of contaminants, or the Human Health Standard of WQCC Section 3-103.A. for each contaminant shall apply, whichever is more stringent.

Arsenic (As) 0.1 mg/l
Barium (Ba) 1.0 mg/l
Cadmium (Cd) 0.01 mg/l
Chromium (Cr) 0.05 mg/l
Cyanide (CN) 0.2 mg/l
Fluoride (F) 1.6 mg/l
Lead (Pb) 0.05 mg/l
Total Mercury (Hg) 0.002 mg/l
Nitrate (NO3 as N) 10.0 mg/l
Selenium (Se) 0.05 mg/l
Silver (Ag) 0.05 mg/l
Uranium (U) 5.0 mg/l
Radioactivity: Combined
Radium-226 & Radium-228 30.0 pCi/l
Benzene 0.01 mg/l
Polychlorinated biphenyls (PCB's) 0.001 mg/l
Toluene 0.75 mg/l
Carbon Tetrachloride 0.01 mg/l
1,2-Dichloroethane (EDC) 0.01 mg/l
1,1-Dichloroethylene (1, 1-DCE) 0.005 mg/l
1, 1,2,2-tetrachloroethylene (PCE) 0.02 mg/l
1, 1,2-trichloroethylene (TCE) 0.1 mg/l
Ethylbenzene 0.75 mg/l
Total xylenes 0.62 mg/l
Methylene chloride 0.1 mg/l
Chloroform 0.1 mg/l
1, 1 -dichloroethane 0.025 mg/l
Ethylene dibromide (EDB) 0.0001 mg/l
1, 1, 1 -trichloroethane 0.06 mg/l
1, 1,2-trichloroethane 0.01 mg/l
1, 1,2,2-tetrachloroethane 0.01 mg/l
vinyl chloride 0.001 mg/l
PAH'S: total naphthalene plus Monomethylnaphthalenes 0.03 mg/l
Benzo-a-pyrene 0.0007 mg/l

B. Other Standards for Domestic Water Supply

Chloride (Cl) 250. mg/l
Copper (Cu) 1.0 mg/l
Iron (Fe) 1.0 mg/l
Manganese (Mn) 0.2 mg/l
Phenols 0.005 mg/l
Sulfate (SO4) 600. mg/l
Total Dissolved Solids (TDS) 1000. mg/l
Zinc (Zn) 10. mg/l
pH between 6 and 9

C. Standards for Irrigation Use

Ground water shall meet the standards of subsections A, B, and C unless otherwise provided.

Aluminum (Al) 5.0 mg/l
Boron (B) 0.75 mg/l
Cobalt (Co) 0.05 mg/l
Molybdenum (Mo) 1.0 mg/l
Nickel (Ni) 0.2 mg/l

EPA National Primary and Secondary Drinking Water Standards (Maximum Contaminant Levels)

Microorganisms

Contaminant	MCLG[1] (mg/L)[2]	MCL or TT[1] (mg/L)[2]	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
Cryptosporidium (pdf file)	zero	TT [3]	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste
Giardia lamblia	zero	TT[3]	Gastrointestinal illness (e.g.,	Human and animal

			diarrhea, vomiting, cramps)	fecal waste
Heterotrophic plate count	n/a	TT[3]	HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.	HPC measures a range of bacteria that are naturally present in the environment
Legionella	zero	TT[3]	Legionnaire's Disease, a type of pneumonia	Found naturally in water; multiplies in heating systems
Total Coliforms (including fecal coliform and *E. Coli*)	zero	5.0%[4]	Not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present[5]	Coliforms are naturally present in the environment; as well as feces; fecal coliforms and *E. coli* only come from human and animal fecal waste.
Turbidity	n/a	TT[3]	Turbidity is a measure of the cloudiness of water. It is used to indicate water quality and filtration effectiveness (e.g., whether disease-causing organisms are present). Higher turbidity levels are often associated with higher levels of disease-causing microorganisms such as viruses, parasites and some	Soil runoff

			bacteria. These organisms can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.	
Viruses (enteric)	zero	TT[3]	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste

Top of page

Disinfection Byproducts

Contaminant	MCLG[1] (mg/L)[2]	MCL or TT[1] (mg/L)[2]	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
Bromate	zero	0.010	Increased risk of cancer	Byproduct of drinking water disinfection
Chlorite	0.8	1.0	Anemia; infants & young children: nervous system effects	Byproduct of drinking water disinfection
Haloacetic acids (HAA5)	n/a[6]	0.060[7]	Increased risk of cancer	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHMs)	n/a[6]	0.080[7]	Liver, kidney or central nervous system problems; increased risk of cancer	Byproduct of drinking water disinfection

Top of page

Disinfectants

Contaminant	MRDLG[1] (mg/L)[2]	MRDL[1] (mg/L)[2]	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
Chloramines (as Cl_2)	MRDLG=4[1]	MRDL=4.0[1]	Eye/nose irritation; stomach discomfort, anemia	Water additive used to control microbes
Chlorine (as Cl_2)	MRDLG=4[1]	MRDL=4.0[1]	Eye/nose irritation; stomach discomfort	Water additive used to control microbes
Chlorine dioxide (as ClO_2)	MRDLG=0.8[1]	MRDL=0.8[1]	Anemia; infants & young children: nervous system effects	Water additive used to control microbes

Top of page

Inorganic Chemicals

Contaminant	MCLG[1] (mg/L)[2]	MCL or TT[1] (mg/L)[2]	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
Antimony	0.006	0.006	Increase in blood cholesterol; decrease in blood sugar	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	0[7]	0.010 as of 01/23/06	Skin damage or problems with circulatory systems, and may have increased	Erosion of natural deposits; runoff from orchards, runoff from glass &

			risk of getting cancer	electronicsproduction wastes
Asbestos (fiber >10 micrometers)	7 million fibers per liter	7 MFL	Increased risk of developing benign intestinal polyps	Decay of asbestos cement in water mains; erosion of natural deposits
Barium	2	2	Increase in blood pressure	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium	0.004	0.004	Intestinal lesions	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium	0.005	0.005	Kidney damage	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (total)	0.1	0.1	Allergic dermatitis	Discharge from steel and pulp mills; erosion of natural deposits
Copper	1.3	TT[8]; Action	Short term exposure:	Corrosion of household

		Level=1.3	Gastrointestinal distress Long term exposure: Liver or kidney damage People with Wilson's Disease should consult their personal doctor if the amount of copper in their water exceeds the action level	plumbing systems; erosion of natural deposits
Cyanide (as free cyanide)	0.2	0.2	Nerve damage or thyroid problems	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	4.0	4.0	Bone disease (pain and tenderness of the bones); Children may get mottled teeth	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
Lead	zero	TT[8]; Action Level=0.015	Infants and children: Delays in physical or mental development; children could show slight deficits in attention span and learning abilities Adults: Kidney problems; high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits

Mercury (inorganic)	0.002	0.002	Kidney damage	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands
Nitrate (measured as Nitrogen)	10	10	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (measured as Nitrogen)	1	1	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	0.05	0.05	Hair or fingernail loss; numbness in fingers or toes; circulatory problems	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines

Thallium	0.0005	0.002	Hair loss; changes in blood; kidney, intestine, or liver problems	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

Top of page

Organic Chemicals

Contaminant	MCLG[1] (mg/L)[2]	MCL or TT[1] (mg/L)[2]	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
Acrylamide	zero	TT[9]	Nervous system or blood problems; increased risk of cancer	Added to water during sewage/wastewater treatment
Alachlor	zero	0.002	Eye, liver, kidney or spleen problems; anemia; increased risk of cancer	Runoff from herbicide used on row crops
Atrazine	0.003	0.003	Cardiovascular system or reproductive problems	Runoff from herbicide used on row crops
Benzene	zero	0.005	Anemia; decrease in blood platelets; increased risk of	Discharge from factories; leaching from gas storage

			cancer	tanks and landfills
Benzo(a)pyrene (PAHs)	zero	0.0002	Reproductive difficulties; increased risk of cancer	Leaching from linings of water storage tanks and distribution lines
Carbofuran	0.04	0.04	Problems with blood, nervous system, or reproductive system	Leaching of soil fumigant used on rice and alfalfa
Carbon tetrachloride	zero	0.005	Liver problems; increased risk of cancer	Discharge from chemical plants and other industrial activities
Chlordane	zero	0.002	Liver or nervous system problems; increased risk of cancer	Residue of banned termiticide
Chlorobenzene	0.1	0.1	Liver or kidney problems	Discharge from chemical and agricultural chemical factories
2,4-D	0.07	0.07	Kidney, liver, or adrenal gland problems	Runoff from herbicide used on row crops

Dalapon	0.2	0.2	Minor kidney changes	Runoff from herbicide used on rights of way
1,2-Dibromo-3-chloropropane (DBCP)	zero	0.0002	Reproductive difficulties; increased risk of cancer	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
o-Dichlorobenzene	0.6	0.6	Liver, kidney, or circulatory system problems	Discharge from industrial chemical factories
p-Dichlorobenzene	0.075	0.075	Anemia; liver, kidney or spleen damage; changes in blood	Discharge from industrial chemical factories
1,2-Dichloroethane	zero	0.005	Increased risk of cancer	Discharge from industrial chemical factories
1,1-Dichloroethylene	0.007	0.007	Liver problems	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene	0.07	0.07	Liver problems	Discharge from industrial chemical factories

trans-1,2-Dichloroethylene	0.1	0.1	Liver problems	Discharge from industrial chemical factories
Dichloromethane	zero	0.005	Liver problems; increased risk of cancer	Discharge from drug and chemical factories
1,2-Dichloropropane	zero	0.005	Increased risk of cancer	Discharge from industrial chemical factories
Di(2-ethylhexyl) adipate	0.4	0.4	Weight loss, liver problems, or possible reproductive difficulties.	Discharge from chemical factories
Di(2-ethylhexyl) phthalate	zero	0.006	Reproductive difficulties; liver problems; increased risk of cancer	Discharge from rubber and chemical factories
Dinoseb	0.007	0.007	Reproductive difficulties	Runoff from herbicide used on soybeans and vegetables
Dioxin (2,3,7,8-TCDD)	zero	0.00000003	Reproductive difficulties; increased risk of	Emissions from waste incineration and other

			cancer	combustion; discharge from chemical factories
Diquat	0.02	0.02	Cataracts	Runoff from herbicide use
Endothall	0.1	0.1	Stomach and intestinal problems	Runoff from herbicide use
Endrin	0.002	0.002	Liver problems	Residue of banned insecticide
Epichlorohydrin	zero	TT[9]	Increased cancer risk, and over a long period of time, stomach problems	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylbenzene	0.7	0.7	Liver or kidneys problems	Discharge from petroleum refineries
Ethylene dibromide	zero	0.00005	Problems with liver, stomach, reproductive system, or kidneys; increased risk of cancer	Discharge from petroleum refineries

Glyphosate	0.7	0.7	Kidney problems; reproductive difficulties	Runoff from herbicide use
Heptachlor	zero	0.0004	Liver damage; increased risk of cancer	Residue of banned termiticide
Heptachlor epoxide	zero	0.0002	Liver damage; increased risk of cancer	Breakdown of heptachlor
Hexachlorobenzene	zero	0.001	Liver or kidney problems; reproductive difficulties; increased risk of cancer	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene	0.05	0.05	Kidney or stomach problems	Discharge from chemical factories
Lindane	0.0002	0.0002	Liver or kidney problems	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	0.04	0.04	Reproductive difficulties	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa,

				livestock
Oxamyl (Vydate)	0.2	0.2	Slight nervous system effects	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes
Polychlorinated biphenyls (PCBs)	zero	0.0005	Skin changes; thymus gland problems; immune deficiencies; reproductive or nervous system difficulties; increased risk of cancer	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol	zero	0.001	Liver or kidney problems; increased cancer risk	Discharge from wood preserving factories
Picloram	0.5	0.5	Liver problems	Herbicide runoff
Simazine	0.004	0.004	Problems with blood	Herbicide runoff
Styrene	0.1	0.1	Liver, kidney, or circulatory system problems	Discharge from rubber and plastic factories; leaching from landfills

Tetrachloroethylene	zero	0.005	Liver problems; increased risk of cancer	Discharge from factories and dry cleaners
Toluene	1	1	Nervous system, kidney, or liver problems	Discharge from petroleum factories
Toxaphene	zero	0.003	Kidney, liver, or thyroid problems; increased risk of cancer	Runoff/leaching from insecticide used on cotton and cattle
2,4,5-TP (Silvex)	0.05	0.05	Liver problems	Residue of banned herbicide
1,2,4-Trichlorobenzene	0.07	0.07	Changes in adrenal glands	Discharge from textile finishing factories
1,1,1-Trichloroethane	0.20	0.2	Liver, nervous system, or circulatory problems	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	0.003	0.005	Liver, kidney, or immune system problems	Discharge from industrial chemical factories

Trichloroethylene	zero	0.005	Liver problems; increased risk of cancer	Discharge from metal degreasing sites and other factories
Vinyl chloride	zero	0.002	Increased risk of cancer	Leaching from PVC pipes; discharge from plastic factories
Xylenes (total)	10	10	Nervous system damage	Discharge from petroleum factories; discharge from chemical factories

Top of page

Radionuclides

Contaminant	MCLG[1] (mg/L)[2]	MCL or TT[1] (mg/L)[2]	Potential Health Effects from Ingestion of Water	Sources of Contaminant in Drinking Water
Alpha particles	none[7] --- zero	15 picocuries per Liter (pCi/L)	Increased risk of cancer	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation

Beta particles and photon emitters	none[7] --- zero	4 millirems per year	Increased risk of cancer	Decay of natural and man-made deposits of certain minerals that are radioactive and may emit forms of radiation known as photons and beta radiation
Radium 226 and Radium 228 (combined)	none[7] --- zero	5 pCi/L	Increased risk of cancer	Erosion of natural deposits
Uranium	zero	30 ug/L as of 12/08/03	Increased risk of cancer, kidney toxicity	Erosion of natural deposits

Residential Risk Screening Levels for Tap Water

Analyte	Tapwater ug/L
ALAR	3.7E+00
Acephate	7.7E+00
Acetaldehyde	2.2E+00
Acetochlor	7.3E+02
Acetone	2.2E+04
Acetone Cyanohydrin	5.8E+01
Acetonitrile	1.3E+02
Acetophenone	3.7E+03
Acetylaminofluorene, 2-	1.8E-02
Acrolein	4.2E-02
Acrylamide	1.5E-02
Acrylic Acid	1.8E+04
Acrylonitrile	4.5E-02
Adiponitrile	
Alachlor	1.2E+00
Aldicarb	3.7E+01
Aldicarb Sulfone	3.7E+01
Aldrin	4.0E-03
Ally	9.1E+03
Allyl Alcohol	1.8E+02
Allyl Chloride	6.5E-01
Aluminum	3.7E+04
Aluminum Phosphide	1.5E+01
Amdro	1.1E+01
Ametryn	3.3E+02
Aminobiphenyl, 4-	3.2E-03
Aminophenol, m-	2.9E+03
Aminophenol, p-	7.3E+02
Amitraz	9.1E+01
Ammonia	
Ammonium Perchlorate	2.6E+01
Ammonium Sulfamate	7.3E+03
Aniline	1.2E+01
Antimony (metallic)	1.5E+01
Antimony Pentoxide	1.8E+01
Antimony Potassium Tartrate	3.3E+01
Antimony Tetroxide	1.5E+01
Antimony Trioxide	
Apollo	4.7E+02
Aramite	2.7E+00
Arsenic, Inorganic	4.5E-02
Arsine	
Assure	3.3E+02
Asulam	1.8E+03
Atrazine	2.9E-01

Avermectin B1	1.5E+01
Azobenzene	1.2E-01
Barium	7.3E+03
Baygon	1.5E+02
Bayleton	1.1E+03
Baythroid	9.1E+02
Benefin	1.1E+04
Benomyl	1.8E+03
Bentazon	1.1E+03
Benzaldehyde	3.7E+03
Benzene	4.1E-01
Benzenethiol	3.7E-01
Benzidine	9.4E-05
Benzoic Acid	1.5E+05
Benzotrichloride	5.2E-03
Benzyl Alcohol	1.8E+04
Benzyl Chloride	7.9E-02
Beryllium and compounds	7.3E+01
Bidrin	3.7E+00
Bifenox	3.3E+02
Biphenthrin	5.5E+02
Biphenyl, 1,1'-	1.8E+03
Bis(2-chloro-1-methylethyl) ether	3.2E-01
Bis(2-chloroethoxy)methane	1.1E+02
Bis(2-chloroethyl)ether	1.2E-02
Bis(2-ethylhexyl)phthalate	4.8E+00
Bis(chloromethyl)ether	6.2E-05
Bisphenol A	1.8E+03
Boron And Borates Only	7.3E+03
Boron Trifluoride	
Bromate	9.6E-02
Bromobenzene	2.0E+01
Bromodichloromethane	1.2E-01
Bromoform	8.5E+00
Bromomethane	8.7E+00
Bromophos	1.8E+02
Bromoxynil	7.3E+02
Bromoxynil Octanoate	7.3E+02
Butadiene, 1,3-	1.8E-02
Butanol, N-	3.7E+03
Butyl Benzyl Phthlate	3.5E+01
Butyl alcohol, sec-	7.3E+04
Butylate	1.8E+03
Butylphthalyl Butylglycolate	3.7E+04
Cacodylic Acid	7.3E+02
Cadmium (Diet)	
Cadmium (Water)	1.8E+01
Caprolactam	1.8E+04
Captafol	4.5E-01
Captan	2.9E+01

Carbaryl	3.7E+03
Carbofuran	1.8E+02
Carbon Disulfide	1.0E+03
Carbon Tetrachloride	2.0E-01
Carbosulfan	3.7E+02
Carboxin	3.7E+03
Chloral Hydrate	3.7E+03
Chloramben	5.5E+02
Chloranil	1.7E-01
Chlordane	1.9E-01
Chlordecone (Kepone)	4.2E-03
Chlorfenvinphos	2.6E+01
Chlorimuron, Ethyl-	7.3E+02
Chlorine	3.7E+03
Chlorine Dioxide	1.1E+03
Chlorite (Sodium Salt)	1.1E+03
Chloro-1,1-difluoroethane, 1-	1.0E+05
Chloro-1,3-butadiene, 2-	1.4E+01
Chloro-2-methylaniline HCl, 4-	1.5E-01
Chloro-2-methylaniline, 4-	2.5E-01
Chloroacetic Acid	7.3E+01
Chloroacetophenone, 2-	
Chloroaniline, p-	3.4E-01
Chlorobenzene	9.1E+01
Chlorobenzilate	6.1E-01
Chlorobenzotrifluoride, 4-	9.3E+01
Chlorobutane, 1-	1.5E+03
Chlorodifluoromethane	1.0E+05
Chloroform	1.9E-01
Chloromethane	1.9E+02
Chloromethyl Methyl Ether	5.6E-03
Chloronaphthalene, Beta-	2.9E+03
Chloronitrobenzene, o-	6.9E+00
Chloronitrobenzene, p-	1.1E+01
Chlorophenol, 2-	1.8E+02
Chloropicrin	
Chlorothalonil	2.2E+01
Chlorotoluene, o-	7.3E+02
Chlorotoluene, p-	2.6E+03
Chlorpropham	7.3E+03
Chlorpyrifos	1.1E+02
Chlorpyrifos Methyl	3.7E+02
Chlorsulfuron	1.8E+03
Chlorthiophos	2.9E+01
Chromium (III) (Insoluble Salts)	5.5E+04
Chromium VI (chromic acid mists)	1.1E+02
Chromium VI (particulates)	
Chromium(VI), Aerosol Mists	7.3E+02
Chromium, Total (1:6 ratio Cr VI : Cr III)	
Cobalt	1.1E+01

Coke Oven Emissions	
Copper	1.5E+03
Cresol, m-	1.8E+03
Cresol, o-	1.8E+03
Cresol, p-	1.8E+02
Cresols	9.3E+02
Crotonaldehyde, trans-	3.5E-02
Cumene	6.8E+02
Cyanazine	8.0E-02
Cyanides	
~Calcium Cyanide	1.5E+03
~Copper Cyanide	1.8E+02
~Cyanide (CN-)	7.3E+02
~Cyanogen	1.5E+03
~Cyanogen Bromide	3.3E+03
~Cyanogen Chloride	1.8E+03
~Hydrogen Cyanide	6.2E+00
~Potassium Cyanide	1.8E+03
~Potassium Silver Cyanide	7.3E+03
~Silver Cyanide	3.7E+03
~Sodium Cyanide	1.5E+03
~Thiocyanate	7.3E+00
~Zinc Cyanide	1.8E+03
Cyclohexane	1.3E+04
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	2.9E+00
Cyclohexanone	1.8E+05
Cyclohexylamine	7.3E+03
Cyhalothrin/karate	1.8E+02
Cypermethrin	3.7E+02
Cyromazine	2.7E+02
DDD	2.8E-01
DDE, p,p'-	2.0E-01
DDT	2.0E-01
Dacthal	3.7E+02
Dalapon	1.1E+03
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	9.6E+01
Demeton	1.5E+00
Di(2-ethylhexyl)adipate	5.6E+01
Diallate	1.1E+00
Diazinon	2.6E+01
Dibromo-3-chloropropane, 1,2-	3.2E-04
Dibromobenzene, 1,4-	3.7E+02
Dibromochloromethane	1.5E-01
Dibromoethane, 1,2-	6.5E-03
Dibromomethane (Methylene Bromide)	3.7E+02
Dibutyl Phthalate	3.7E+03
Dibutyltin Compounds	1.1E+01
Dicamba	1.1E+03
Dichloro-2-butene, 1,4-	1.2E-03

Dichloro-2-butene, cis-1,4-	1.2E-03
Dichloro-2-butene, trans-1,4-	1.2E-03
Dichloroacetic Acid	1.3E+00
Dichlorobenzene, 1,2-	3.7E+02
Dichlorobenzene, 1,4-	4.3E-01
Dichlorobenzidine, 3,3'-	1.5E-01
Dichlorodifluoromethane	3.9E+02
Dichloroethane, 1,1-	2.4E+00
Dichloroethane, 1,2-	1.5E-01
Dichloroethylene, 1,1-	3.4E+02
Dichloroethylene, 1,2- (Mixed Isomers)	3.3E+02
Dichloroethylene, 1,2-cis-	3.7E+02
Dichloroethylene, 1,2-trans-	1.1E+02
Dichlorophenol, 2,4-	1.1E+02
Dichlorophenoxy Acetic Acid, 2,4-	3.7E+02
Dichlorophenoxy)butyric Acid, 4-(2,4-	2.9E+02
Dichloropropane, 1,2-	3.9E-01
Dichloropropane, 1,3-	7.3E+02
Dichloropropanol, 2,3-	1.1E+02
Dichloropropene, 1,3-	4.3E-01
Dichlorvos	2.3E-01
Dicyclopentadiene	1.4E+01
Dieldrin	4.2E-03
Diesel Engine Exhaust	
Diethyl Phthalate	2.9E+04
Diethylene Glycol Monobutyl Ether	3.7E+02
Diethylene Glycol Monoethyl Ether	2.2E+03
Diethylformamide	3.7E+01
Diethylstilbestrol	1.9E-04
Difenzoquat	2.9E+03
Diflubenzuron	7.3E+02
Difluoroethane, 1,1-	8.3E+04
Diisopropyl Ether	8.3E+02
Diisopropyl Methylphosphonate	2.9E+03
Dimethipin	7.3E+02
Dimethoate	7.3E+00
Dimethoxybenzidine, 3,3'-	4.8E+00
Dimethyl methylphosphonate	4.0E+01
Dimethylamino azobenzene [p-]	1.5E-02
Dimethylaniline HCl, 2,4-	1.2E-01
Dimethylaniline, 2,4-	9.0E-02
Dimethylaniline, N,N-	7.3E+01
Dimethylbenzidine, 3,3'-	6.1E-03
Dimethylformamide	3.7E+03
Dimethylhydrazine, 1,2-	1.2E-04
Dimethylphenol, 2,4-	7.3E+02
Dimethylphenol, 2,6-	2.2E+01
Dimethylphenol, 3,4-	3.7E+01
Dimethylterephthalate	3.7E+03
Dinitro-o-cresol, 4,6-	3.7E+00

Dinitro-o-cyclohexyl Phenol, 4,6-	7.3E+01
Dinitrobenzene, 1,2-	3.7E+00
Dinitrobenzene, 1,3-	3.7E+00
Dinitrobenzene, 1,4-	3.7E+00
Dinitrophenol, 2,4-	7.3E+01
Dinitrotoluene Mixture, 2,4/2,6-	9.9E-02
Dinitrotoluene, 2,4-	2.2E-01
Dinitrotoluene, 2,6-	3.7E+01
Dinitrotoluene, 2-Amino-4,6-	7.3E+01
Dinitrotoluene, 4-Amino-2,6-	7.3E+01
Dinoseb	3.7E+01
Dioxane, 1,4-	6.1E+00
Dioxins	
~Hexachlorodibenzo-p-dioxin, Mixture	1.1E-05
~TCDD, 2,3,7,8-	5.2E-07
Diphenamid	1.1E+03
Diphenyl Sulfone	1.1E+02
Diphenylamine	9.1E+02
Diphenylhydrazine, 1,2-	8.4E-02
Diquat	8.0E+01
Direct Black 38	9.1E-03
Direct Blue 6	9.1E-03
Direct Brown 95	1.0E-02
Disulfoton	1.5E+00
Dithiane, 1,4-	3.7E+02
Diuron	7.3E+01
Dodine	1.5E+02
EPTC	9.1E+02
Endosulfan	2.2E+02
Endothall	7.3E+02
Endrin	1.1E+01
Epichlorohydrin	2.1E+00
Epoxybutane, 1,2-	4.2E+01
Ethephon	1.8E+02
Ethion	1.8E+01
Ethoxyethanol Acetate, 2-	1.1E+04
Ethoxyethanol, 2-	1.5E+04
Ethyl Acetate	3.3E+04
Ethyl Acrylate	1.4E+00
Ethyl Chloride	2.1E+04
Ethyl Ether	7.3E+03
Ethyl Methacrylate	3.3E+03
Ethyl-p-nitrophenyl Phosphonate	3.7E-01
Ethylbenzene	1.5E+00
Ethylene Cyanohydrin	1.1E+03
Ethylene Diamine	3.3E+03
Ethylene Glycol	7.3E+04
Ethylene Glycol Monobutyl Ether	1.8E+04
Ethylene Oxide	4.4E-02
Ethylene Thiourea	1.5E+00

Ethylphthalyl Ethyl Glycolate	1.1E+05
Express	2.9E+02
Fenamiphos	9.1E+00
Fenpropathrin	9.1E+02
Fluometuron	4.7E+02
Fluorine (Soluble Fluoride)	2.2E+03
Fluridone	2.9E+03
Flurprimidol	7.3E+02
Flutolanil	2.2E+03
Fluvalinate	3.7E+02
Folpet	1.9E+01
Fomesafen	3.5E-01
Fonofos	7.3E+01
Formaldehyde	7.3E+03
Formic Acid	7.3E+04
Fosetyl-AL	1.1E+05
Furans	
~Furan	3.7E+01
Furazolidone	1.8E-02
Furfural	1.1E+02
Furium	4.5E-02
Furmecyclox	2.2E+00
Glufosinate, Ammonium	1.5E+01
Glycidyl	1.5E+01
Glyphosate	3.7E+03
Goal	1.1E+02
Guthion	1.1E+02
Haloxyfop, Methyl	1.8E+00
Harmony	4.7E+02
Heptachlor	1.5E-02
Heptachlor Epoxide	7.4E-03
Hexabromobenzene	7.3E+01
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	7.3E+00
Hexachlorobenzene	4.2E-02
Hexachlorobutadiene	8.6E-01
Hexachlorocyclohexane, Alpha-	1.1E-02
Hexachlorocyclohexane, Beta-	3.7E-02
Hexachlorocyclohexane, Gamma- (Lindane)	6.1E-02
Hexachlorocyclohexane, Technical	3.7E-02
Hexachlorocyclopentadiene	2.2E+02
Hexachloroethane	4.8E+00
Hexachlorophene	1.1E+01
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	6.1E-01
Hexamethylene Diisocyanate, 1,6-	2.1E-02
Hexane, N-	8.8E+02
Hexanedioic Acid	7.3E+04
Hexazinone	1.2E+03
Hydrazine	2.2E-02
Hydrazine Sulfate	2.2E-02
Hydrogen Chloride	

Hydrogen Fluoride	1.5E+03
Hydrogen Sulfide	
Hydroquinone	1.2E+00
Imazalil	4.7E+02
Imazaquin	9.1E+03
Iodine	3.7E+02
Iprodione	1.5E+03
Iron	2.6E+04
Isobutyl Alcohol	1.1E+04
Isophorone	7.1E+01
Isopropalin	5.5E+02
Isopropanol	
Isopropyl Methyl Phosphonic Acid	3.7E+03
Isoxaben	1.8E+03
JP-7	6.3E+02
Kerb	2.7E+03
Lactofen	7.3E+01
Lead Compounds	
~Lead and Compounds	
~Tetraethyl Lead	3.7E-03
Linuron	7.3E+01
Lithium	7.3E+01
Lithium Perchlorate	2.6E+01
Londax	7.3E+03
MCPA	1.8E+01
MCPB	3.7E+02
MCPP	3.7E+01
Malathion	7.3E+02
Maleic Anhydride	3.7E+03
Maleic Hydrazide	1.8E+04
Malononitrile	3.7E+00
Mancozeb	1.1E+03
Maneb	1.8E+02
Manganese (Diet)	
Manganese (Water)	8.8E+02
Mephosfolan	3.3E+00
Mepiquat Chloride	1.1E+03
Mercury Compounds	
~Mercuric Chloride	1.1E+01
~Mercuric Sulfide	1.1E+01
~Mercury (elemental)	5.7E-01
~Mercury, Inorganic Salts	1.1E+01
~Methyl Mercury	3.7E+00
~Phenylmercuric Acetate	2.9E+00
Merphos	1.1E+00
Merphos Oxide	1.1E+00
Metalaxyl	2.2E+03
Methacrylonitrile	1.0E+00
Methamidophos	1.8E+00
Methanol	1.8E+04

Methidathion	3.7E+01
Methomyl	9.1E+02
Methoxy-5-nitroaniline, 2-	1.4E+00
Methoxychlor	1.8E+02
Methoxyethanol Acetate, 2-	7.3E+01
Methoxyethanol, 2-	1.1E+02
Methyl Acetate	3.7E+04
Methyl Acrylate	1.1E+03
Methyl Ethyl Ketone (2-Butanone)	7.1E+03
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	2.0E+03
Methyl Methacrylate	1.4E+03
Methyl Parathion	9.1E+00
Methyl Phosphonic Acid	7.3E+02
Methyl Styrene (Mixed Isomers)	6.0E+01
Methyl methanesulfonate	6.8E-01
Methyl tert-Butyl Ether (MTBE)	1.2E+01
Methyl-5-Nitroaniline, 2-	2.0E+00
Methylaniline Hydrochloride, 2-	5.2E-01
Methylarsonic acid	3.7E+02
Methylcholanthrene, 3-	3.1E-03
Methylene Chloride	4.8E+00
Methylene-bis(2-chloroaniline), 4,4'-	2.2E-01
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	1.5E+00
Methylenebisbenzenamine, 4,4'-	4.2E-02
Methylenediphenyl Diisocyanate	
Methylstyrene, Alpha-	2.6E+03
Metolachlor	5.5E+03
Metribuzin	9.1E+02
Mirex	3.7E-03
Molinate	7.3E+01
Molybdenum	1.8E+02
Monochloramine	3.7E+03
Monomethylaniline	7.3E+01
N,N'-Diphenyl-1,4-benzenediamine	1.1E+01
Naled	7.3E+01
Naphthylamine, 2-	3.7E-02
Napropamide	3.7E+03
Nickel Refinery Dust	
Nickel Soluble Salts	7.3E+02
Nickel Subsulfide	4.0E-02
Nitrate	5.8E+04
Nitrite	3.7E+03
Nitroaniline, 2-	1.1E+02
Nitroaniline, 4-	3.4E+00
Nitrobenzene	1.2E-01
Nitrofurantoin	2.6E+03
Nitrofurazone	5.2E-02
Nitroglycerin	3.7E+00
Nitroguanidine	3.7E+03
Nitromethane	5.4E-01

Nitropropane, 2-	1.8E-03
Nitroso-N-ethylurea, N-	2.5E-03
Nitroso-N-methylurea, N-	5.6E-04
Nitroso-di-N-butylamine, N-	2.4E-03
Nitroso-di-N-propylamine, N-	9.6E-03
Nitrosodiethanolamine, N-	2.4E-02
Nitrosodiethylamine, N-	1.4E-04
Nitrosodimethylamine, N-	4.2E-04
Nitrosodiphenylamine, N-	1.4E+01
Nitrosomethylethylamine, N-	3.1E-03
Nitrosomorpholine [N-]	1.0E-02
Nitrosopiperidine [N-]	7.2E-03
Nitrosopyrrolidine, N-	3.2E-02
Nitrotoluene, m-	7.3E+02
Nitrotoluene, o-	3.1E-01
Nitrotoluene, p-	4.2E+00
Norflurazon	1.5E+03
Nustar	2.6E+01
Octabromodiphenyl Ether	1.1E+02
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	1.8E+03
Octamethylpyrophosphoramide	7.3E+01
Oryzalin	1.8E+03
Oxadiazon	1.8E+02
Oxamyl	9.1E+02
Paclobutrazol	4.7E+02
Paraquat Dichloride	1.6E+02
Parathion	2.2E+02
Pebulate	1.8E+03
Pendimethalin	1.5E+03
Pentabromodiphenyl Ether	7.3E+01
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	3.7E+00
Pentachlorobenzene	2.9E+01
Pentachloroethane	7.5E-01
Pentachloronitrobenzene	2.6E-01
Pentachlorophenol	5.6E-01
Perchlorate and Perchlorate Salts	2.6E+01
Permethrin	1.8E+03
Phenacetin	3.1E+01
Phenmedipham	9.1E+03
Phenol	1.1E+04
Phenylenediamine, m-	2.2E+02
Phenylenediamine, o-	1.4E+00
Phenylenediamine, p-	6.9E+03
Phenylphenol, 2-	3.5E+01
Phorate	7.3E+00
Phosgene	
Phosmet	7.3E+02
Phosphine	1.1E+01
Phosphoric Acid	
Phosphorus, White	7.3E-01

Phthalic Acid, P-	3.7E+04
Phthalic Anhydride	7.3E+04
Picloram	2.6E+03
Picramic Acid (2-Amino-4,6-dinitrophenol)	7.3E+01
Pirimiphos, Methyl	3.7E+02
Polybrominated Biphenyls	2.2E-03
Polychlorinated Biphenyls (PCBs)	
~Aroclor 1016	9.6E-01
~Aroclor 1221	6.8E-03
~Aroclor 1232	6.8E-03
~Aroclor 1242	3.4E-02
~Aroclor 1248	3.4E-02
~Aroclor 1254	3.4E-02
~Aroclor 1260	3.4E-02
~Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	5.2E-03
~Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	5.2E-03
~Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	1.0E-04
~Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	1.0E-04
~Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	5.2E-03
~Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	5.2E-03
~Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	5.2E-03
~Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	5.2E-03
~Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	1.0E-04
~Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	5.2E-06
~Polychlorinated Biphenyls (high risk)	
~Polychlorinated Biphenyls (low risk)	1.7E-01
~Polychlorinated Biphenyls (lowest risk)	
~Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	5.2E-03
~Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	5.2E-03
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	
Polynuclear Aromatic Hydrocarbons (PAHs)	
~Acenaphthene	2.2E+03
~Anthracene	1.1E+04
~Benz[a]anthracene	2.9E-02
~Benzo[a]pyrene	2.9E-03
~Benzo[b]fluoranthene	2.9E-02
~Benzo[k]fluoranthene	2.9E-01
~Chrysene	2.9E+00
~Dibenz[a,h]anthracene	2.9E-03
~Dimethylbenz(a)anthracene, 7,12-	2.7E-04
~Fluoranthene	1.5E+03
~Fluorene	1.5E+03
~Indeno[1,2,3-cd]pyrene	2.9E-02
~Methylnaphthalene, 1-	2.3E+00
~Methylnaphthalene, 2-	1.5E+02
~Naphthalene	1.4E-01
~Pyrene	1.1E+03
Potassium Perchlorate	2.6E+01
Prochloraz	4.5E-01
Profluralin	2.2E+02

Prometon	5.5E+02
Prometryn	1.5E+02
Propachlor	4.7E+02
Propanil	1.8E+02
Propargite	7.3E+02
Propargyl Alcohol	7.3E+01
Propazine	7.3E+02
Propham	7.3E+02
Propiconazole	4.7E+02
Propionaldehyde	1.7E+01
Propylene Glycol	7.3E+05
Propylene Glycol Dinitrate	5.7E-01
Propylene Glycol Monoethyl Ether	2.6E+04
Propylene Glycol Monomethyl Ether	2.6E+04
Propylene Oxide	2.3E-01
Pursuit	9.1E+03
Pydrin	9.1E+02
Pyridine	3.7E+01
Quinalphos	1.8E+01
Quinoline	2.2E-02
Refractory Ceramic Fibers	
Resmethrin	1.1E+03
Ronnel	1.8E+03
Rotenone	1.5E+02
Safrole	3.1E-01
Savey	9.1E+02
Selenious Acid	1.8E+02
Selenium	1.8E+02
Selenourea	1.8E+02
Sethoxydim	3.3E+03
Silver	1.8E+02
Simazine	5.6E-01
Sodium Acifluorfen	4.7E+02
Sodium Azide	1.5E+02
Sodium Diethyldithiocarbamate	2.5E-01
Sodium Fluoride	1.8E+03
Sodium Fluoroacetate	7.3E-01
Sodium Metavanadate	3.7E+01
Sodium Perchlorate	2.6E+01
Stirofos (Tetrachlorovinphos)	2.8E+00
Strontium, Stable	2.2E+04
Strychnine	1.1E+01
Styrene	1.6E+03
Sulfonylbis(4-chlorobenzene), 1,1'-	1.8E+02
Systhane	9.1E+02
TCMTB	1.1E+03
Tebuthiuron	2.6E+03
Temephos	7.3E+02
Terbacil	4.7E+02
Terbufos	9.1E-01

Terbutryn	3.7E+01
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	3.7E+00
Tetrachlorobenzene, 1,2,4,5-	1.1E+01
Tetrachloroethane, 1,1,1,2-	5.2E-01
Tetrachloroethane, 1,1,2,2-	6.7E-02
Tetrachloroethylene	1.1E-01
Tetrachlorophenol, 2,3,4,6-	1.1E+03
Tetrachlorotoluene, p- alpha, alpha, alpha-	3.4E-03
Tetraethyl Dithiopyrophosphate	1.8E+01
Tetrafluoroethane, 1,1,1,2-	1.7E+05
Tetryl (Trinitrophenylmethylnitramine)	1.5E+02
Thallium (I) Nitrate	3.3E+00
Thallium (Soluble Salts)	2.4E+00
Thallium Acetate	3.3E+00
Thallium Carbonate	2.9E+00
Thallium Chloride	2.9E+00
Thallium Sulfate	2.9E+00
Thiobencarb	3.7E+02
Thiofanox	1.1E+01
Thiophanate, Methyl	2.9E+03
Thiram	1.8E+02
Tin	2.2E+04
Titanium Tetrachloride	
Toluene	2.3E+03
Toluene diisocyanate mixture (TDI)	1.5E-01
Toluene-2,4-diamine	1.8E-02
Toluene-2,5-diamine	2.2E+04
Toluene-2,6-diamine	1.1E+03
Toluidine, o- (Methylaniline, 2-)	3.7E-01
Toluidine, p-	3.5E-01
Toxaphene	6.1E-02
Tralomethrin	2.7E+02
Tri-n-butyltin	1.1E+01
Triallate	4.7E+02
Triasulfuron	3.7E+02
Tribromobenzene, 1,2,4-	1.8E+02
Tributyl Phosphate	7.3E+00
Tributyltin Compounds	1.1E+01
Tributyltin Oxide	1.1E+01
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5.9E+04
Trichloroaniline HCl, 2,4,6-	2.3E+00
Trichloroaniline, 2,4,6-	2.0E+00
Trichlorobenzene, 1,2,4-	8.2E+00
Trichloroethane, 1,1,1-	9.1E+03
Trichloroethane, 1,1,2-	2.4E-01
Trichloroethylene	1.7E+00
Trichlorofluoromethane	1.3E+03
Trichlorophenol, 2,4,5-	3.7E+03
Trichlorophenol, 2,4,6-	6.1E+00
Trichlorophenoxy) Propionic Acid, 2(2,4,5-	2.9E+02

Trichlorophenoxyacetic Acid, 2,4,5-	3.7E+02
Trichloropropane, 1,1,2-	1.8E+02
Trichloropropane, 1,2,3-	9.6E-03
Trichloropropene, 1,2,3-	2.1E+00
Tridiphane	1.1E+02
Triethylamine	1.5E+01
Trifluralin	8.7E+00
Trimethyl Phosphate	1.8E+00
Trimethylbenzene, 1,2,4-	1.5E+01
Trimethylbenzene, 1,3,5-	1.2E+01
Trinitrobenzene, 1,3,5-	1.1E+03
Trinitrotoluene, 2,4,6-	2.2E+00
Triphenylphosphine Oxide	7.3E+02
Tris(2-chloroethyl)phosphate	4.8E+00
Tris(2-ethylhexyl)phosphate	2.1E+01
Uranium (Soluble Salts)	1.1E+02
Vanadium Pentoxide	3.3E+02
Vanadium Sulfate	7.3E+02
Vanadium and Compounds	1.8E+02
Vanadium, Metallic	2.6E+02
Vernolate	3.7E+01
Vinclozolin	9.1E+02
Vinyl Acetate	4.1E+02
Vinyl Bromide	1.5E-01
Vinyl Chloride	1.6E-02
Warfarin	1.1E+01
Xylene, Mixture	2.0E+02
Xylene, P-	1.5E+03
Xylene, m-	1.4E+03
Xylene, o-	1.4E+03
Zinc (Metallic)	1.1E+04
Zinc Phosphide	1.1E+01
Zineb	1.8E+03

NEW MEXICO ENVIRONMENT DEPARTMENT TPH SCREENING GUIDELINES
October 2006

Guidelines for Direct Ingestion

TPH			Concentration in Groundwater (mg/L)
Petroleum Product	**Residential Direct Exposure (mg/kg)**	**Industrial Direct Exposure (mg/kg)**	
Diesel #2/crankcase oil	520	1120	1.72
#3 and #6 Fuel Oil	440	890	1.34
Kerosene and jet fuel	760	1810	2.86
Mineral oil dielectric fluid	1440	3040	3.64
Unknown oil [a]	200	200	0.2
Waste Oil [b]	2500	5000	Petroleum-Related Contaminants
Gasoline	Not applicable	Not applicable	Petroleum-Related Contaminants

[a] Sites with oil from unknown sources must be tested for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs) to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

[b] Compositional assumption for waste oil developed by NMED is based on review of chromatographs of several types of waste oil. Sites with waste oil must be tested for VOCs, SVOCs, metals, and PCBs to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

TPH Screening Guidelines – Vapor Migration and Inhalation of Groundwater (GW-2)

TPH			Concentration in Groundwater (mg/L)
Petroleum Product	**Residential Direct Exposure (mg/kg)**	**Industrial Direct Exposure (mg/kg)**	
Diesel #2/crankcase oil	880	2200	30.4
#3 and #6 Fuel Oil	860	2150	35.3
Kerosene and jet fuel	940	2350	15.7
Mineral oil dielectric fluid	1560	3400	10.4
Unknown oil [a]	800	2000	50.0
Waste Oil [b]	2500	5000	Petroleum-Related Contaminants
Gasoline	Not applicable	Not applicable	Petroleum-Related Contaminants

[a] Sites with oil from unknown sources must be tested for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs) to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

[b] Compositional assumption for waste oil developed by NMED is based on review of chromatographs of several types of waste oil. Sites with waste oil must be tested for VOCs, SVOCs, metals, and PCBs to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

Weekly monitoring of KA-3R (NAPIS) well

DATE	4/28/2008	5/8/2008*	5/20/2008
TIME	1525 hrs	1330 hrs	0950 hrs
DTW START	25.22	20.99	23.69
DTW END	30.34	30.35	30.18
Water Level Thickness	5.12	9.36	6.49
Total Gals Bailed	1.75	2.45	2.1

* Lost bailer in well. Retrieved bailer on 5/12/08 and continued with bailing. Final measurement as noted.

Hourly monitoring of KA-1R, 2R, 3R (determine recharge rate)

DATE / TIME	KA1R	KA2R	KA3R
5/20/08 @ 0950 HRS DTW			23.69
5/21/08 @1040 HRS DTW	8.47		
5/21/08 @1100 HRS DTW		8.53	
5/21/08 @1340 HRS DTW			
BAILED	3.2 GALS	30+ GALS(KEEPS RECHARGING)	Bailed 2.1 GALS
DTW END	13.38	11.1	30.18
5/21/08 @1200 HRS DTW	11.08		
5/21/08 @ 1320 HRS DTW	9.45	8.67	
5/21/08 @ 1330 HRS DTW			28.94
RECHARGE	2 FT/HR	2.4 FT/HR	1.24 FT/DAY

SIGNATURE: _____

WESTERN REFINERY - GALLUP REFINERY

RW-1 HYDROCARBON RECOVERY LOG

2/22/05 TO 12/31/08

Date of measurement	Time	Quarter	Well #	Depth to Product (feet)	Depth to Water (feet)	Product Level Thickness (feet)	Volume of Product Bailed/ Pumped (gallons)	Water Gallons
2/22/2005	0830	1st	RW-1	32'-5 1/2"	36'-6"	4'-0 1/2"	14	
3/2/2005	0745	1st	RW-1	32'-5"	36'-5 1/4"	4'-0 1/4"	9	
3/8/2005	0830	1st	RW-1	31'-11"	36'-4 1/4"	4'-5 1/4"	15	
3/9/2005	0830	1st	RW-1	31'-11"	37'-6"	5'-7"	4	
3/11 to 3/18/05		1st	RW-1	Started Pumping Well on 3/11/05			74	
3/18 to 5/23/05		1st	RW-1	Continue Pumping			48	
5/23 to 4/1/05		1st	RW-1	Continue Pumping			62	
4/1 To 4/4/05		2nd	RW-1	Pump shut down to measure well			27	
4/5/2005	11:30 Hrs	2nd	RW-1	34'-9"	38'-11"	4'-2"		
4/4 TO 4/15/05	11:00 Hrs	2nd	RW-1	Continue Pumping			50	
4-15 to 5-5-05	1230 Hrs	2nd	RW-1	Continue Pumping			45	154
5-5 to 6-17-05	1130 Hrs	2nd	RW-1	Continue Pumping			24	196
6/27/2005	1400 Hrs	2nd	RW-1	Pump shut down to measure well				
6/28/2005	1100 Hrs	2nd	RW-1	32'-5 1/2"	33'-3"	0'-9 1/2"		
6/28/2005		2nd	RW-1	Continue Pumping				
6/17 to 7/8/2005	1030 Hrs	2nd	RW-1	Continue Pumping			18	146
7/8 to 8/9/2005	1330 Hrs	3rd	RW-1	Continue Pumping			28	350
8/9 to 9/16/2005	1135 Hrs	3rd	RW-1	36'-5 1/2"	36'-6 1/2"	0'-1"	8	240
12/5/2005	1315 Hrs	4th	RW-1	31'-11"	34'-8 1/2"	2'-9 1/2"		
12/8/2005	1400 Hrs	4th	RW-1	Start Pumping				
12/22/2005	1530 Hrs	4th	RW-1	Pulled Pump			5	120
12/29/2005	1400 Hrs	4th	RW-1	Hand Bailed			0.5	45
3/16/2006	1300 Hrs	1st	RW-1	32'-2 3/4"	34'-5 3/4"	2'-3"		
3/16/2006	1430 Hrs	1st	RW-1	Start Pumping				
3/23/2006	1430 Hrs	1st	RW-1	Shut Off Pump				
3/27/2006	1530 Hrs	1st	RW-1	Start Pumping				
3/31/2006	1130 Hrs	1st	RW-1	Continue Pumping			7	174
4/3/2006	1130 Hrs	2nd	RW-1	Stopped Pumping			17	38
4/4/2006	1100 Hrs	2nd	RW-1	32'-9"	33'-1"	0'-4"		
6/6/2006	1300 Hrs	2nd	RW-1	32'-4 3/4"	34'-6 1/2"	2'-1 3/4"		
6/8/2006	1500 Hrs	2nd	RW-1	Start Pumping (Intermittingly)				
6/29/2006	1000 Hrs	2nd	RW-1	Stopped Pumping			8	365
7/31/2006	1145 Hrs	3rd	RW-1	33'-0 3/4"	33'-5 3/4"	0'-5"		
7/31/2006	1145 Hrs	3rd	RW-1	Start Pumping				
8/3/2006	1420 Hrs	3rd	RW-1	Stopped Pumping			2	87
8/8/2006	0900 Hrs	3rd	RW-1	Start Pumping				
8/10/2006	1530 HRS	3rd	RW-1	Start pumping				
8/22/2006	0900 Hrs	3rd	RW-1	Pulled pump			4.9	373
8/22/2006	0945 HRS	3rd	RW-1	33.10	33.40	0.6		
12/21/2006	1555	4th	RW-1	35.20	36.00	1 1/4"	0.62	70
2/21/2007	1015	1st	RW-1	33.42	34.60	1.18	0.63	53.5
6/5/2007	1000	2nd	RW-1	32.42	32.71	0.29		
6/5/2007	1010			Hand Bailed			0.05	9
6/6/2007	840			Hand Bailed			0.1	11
6/13/2007	1400			Hand Bailed			0.1	12
6/14/2007	1040			Hand Bailed			0.05	8

Date of measurement	Time	Quarter	Well #	Depth to Product (feet)	Depth to Water (feet)	Product Level Thickness (feet)	Volume of Product Bailed/ Pumped (gallons)	Water Gallons
7/10/2007	1008	3rd	**RW-1**	32.42	32.71	0.29	0.3	18
7/11/2007	925	3rd	**RW-1**	Hand Bailed			0.21	12.5
7/23/2007	1000	3RD	**RW-1**	Hand Bailed			0.1	5.5
11/26/2007	1050	4th	**RW-1**	30.76	36.45	5.69	0.18	37
2/18/2008	1532	1st.	**RW-1**	30.18	34.77	4.59	1.66	36
5/21/2008	1410	2nd	**RW-1**	30.40	34.57	4.24	1.39	51
9/12/2008	1430	3rd	**RW-1**	30.03	34.59	4.56	NOT BAILED	
11/13/2008	1300	4TH	**RW-1**	30.02	34.63	4.61	0.94	65
					Total Gallons		**459.79**	**2571**

WELL DATA 2008 SUMMARY TABLE

2008 ANNUAL GROUNDWATER DISCHARGE REPORT

Well ID Number	Measurement date	A Well Casing Rim Elevations (ft)	Well Casing Bottom Elevations (ft)	Total Well Depth (ft)	Depth to SPH (ft)	B SPH Thickness (ft)	C Depth to Water	D = A-C Groundwater Elevation (ft)	= 0.8B + D Corrected Water Table Elevation (ft)
BW-1A	7/30/2008	6,876.73	6,836.73	40.00	NA	NA	DRY	DRY	NA
BW-1B	7/30/2008	6,876.91	6,811.71	67.55	NA	NA	DRY	DRY	NA
BW-1C	7/30/2008	6,876.75	6,719.75	157.00	NA	NA	6.84	6,869.91	NA
BW-2A	7/30/2008	6,874.72	6,809.22	65.50	NA	NA	31.97	6,842.75	NA
BW-2B	7/30/2008	6,874.58	6,784.08	90.50	NA	NA	27.91	6,846.67	NA
BW-2C	7/30/2008	6,875.40	6,724.40	151.00	NA	NA	20.64	6,854.76	NA
BW-3A	7/30/2008	6,878.22	6,828.22	52.60	NA	NA	DRY	DRY	NA
BW-3B	7/31/2008	6,878.79	6,803.79	75.00	NA	NA	32.73	6,846.06	NA
BW-3C	7/31/2008	6,878.08	6,723.08	155.00	NA	NA	8.08	6,870.00	NA
OW-1	2/18/2008	6,868.00	6,773.96	94.04	NA	NA	1.75	6,866.25	NA
OW-1	5/21/2008	6,868.00	6,773.96	94.04	NA	NA	1.75	6,866.25	NA
OW-1	9/15/2008	6,868.00	6,773.96	94.04	NA	NA	1.78	6,866.22	NA
OW-1	11/3/2008	6,868.00	6,773.96	94.04	NA	NA	2.78	6,865.22	NA
OW-10	2/18/2008	6,872.00	6,804.00	68.00	NA	NA	1.25	6,870.75	NA
OW-10	5/21/2008	6,872.00	6,804.00	68.00	NA	NA	1.61	6,870.39	NA
OW-10	9/10/2008	6,872.00	6,804.00	68.00	NA	NA	1.59	6,870.41	NA
OW-10	11/3/2008	6,872.00	6,804.00	68.00	NA	NA	2.04	6,869.96	NA
OW-11	8/14/2008	6,923.89	6,857.27	66.62	NA	NA	20.91	6,902.98	NA
OW-12	8/18/2008	6,940.43	6,795.43	145	NA	NA	49.05	6,891.38	NA
OW-13	8/18/2008	6,920.12	6,820.12	100.00	NA	NA	24.41	6,895.71	NA
OW-14	8/21/2008	6,926.64	6,881.64	45.00	NA	NA	27.13	6,899.51	NA
OW-29	8/19/2008	6,913.50	6,864.50	49.00	NA	NA	21.95	6,891.55	NA
OW-30	8/20/2008	6,921.60	6,873.20	48.40	NA	NA	26.34	6,895.26	NA
MW-1	8/4/2008	6,878.52	6,746.50	132.02	NA	NA	7.28	6,871.24	NA
MW-4	8/4/2008	6,882.54	6,760.40	122.14	NA	NA	7.95	6,874.59	NA
MW-5	8/14/2008	6,883.32	6,750.30	133.02	NA	NA	11.37	6,871.95	NA
RW-1	2/18/2008	6,943.50			30.18	4.59	34.77	6,908.73	6912.402
(OW-27)	5/21/2008	6,943.50			30.40	4.17	34.57	6,908.93	6912.266
	9/12/2008	6,943.50			30.03	4.56	34.59	6,908.91	6912.558
	11/3/2008	6,943.50			30.02	4.61	34.63	6,908.87	6912.558
RW-2	2/18/2008	6,927.20				NA	28.16	6,899.04	N/A
(OW-28)	5/21/2008	6,927.20				NA	27.22	6,899.98	N/A
	9/12/2008	6,927.20				NA	27.03	6,900.17	N/A
	11/3/2008	6,927.20				NA	27.10	6,900.10	N/A
RW-5	2/18/2008	6,942.50	6,902.50	40.00	33.1875	0.7604	33.9479	6,908.55	6909.16042

Well ID Number	Measurement date	A Well Casing Rim Elevations (ft)	Well Casing Bottom Elevations (ft)	Total Well Depth (ft)	Depth to SPH (ft)	B SPH Thickness (ft)	C Depth to Water	D = A-C Groundwater Elevation (ft)	= 0.8B + D Corrected Water Table Elevation (ft)
	5/21/2008	6,942.50	6,902.50	40.00	32.77	1.07	33.84	6,908.66	6909.516
	9/10/2008	6,942.50	6,902.50	40.00	32.62	0.23	32.85	6,909.65	6909.834
	11/3/2008	6,942.50	6,902.50	40.00	31.05	1.29	32.34	6,910.16	6911.192
RW-6	2/18/2008	6,972.60	6,933.80	38.80	33.4375	0.9165	34.354	6,938.25	6938.9792
	5/21/2008	6,972.60	6,933.80	38.80	33.02	1.1	34.12	6,938.48	6939.36
	9/10/2008	6,972.60	6,933.80	38.80	32.83	0.29	33.12	6,939.48	6939.712
	11/3/2008	6,972.60	6,933.80	38.80	32.46	0.23	32.69	6,939.91	6940.094
SMW-2	8/14/2008	6,884.44	6,827.10	57.34	NA	NA	25.89	6,858.55	N/A
SMW-4	8/13/2008	6,882.54	6,760.40	122.14	NA	NA	29.57	6,852.97	N/A
SMW-6		6,880.71	6,807.60	73.11				6,880.71	N/A
GWM-1	2/18/2008	6,912.65	6,888.95	23.70	NA	NA	19.91	6,892.74	N/A
	5/21/2008	6,912.65	6,888.95	23.70	NA	NA	19.47	6,893.18	N/A
	9/10/2008	6,912.65	6,888.95	23.70	NA	NA	20.24	6,892.41	N/A
	11/3/2008	6,912.65	6,888.95	23.70	NA	NA	20.55	6,892.10	N/A
GWM-2	2/18/2008	6,913.17	6,896.97	18.97	NA	NA	18.45	6,894.72	N/A
	3/17/2008	6,913.17	6,896.97	18.97	NA	NA	DRY	NA	N/A
	5/21/2008	6,913.17	6,896.97	18.97	NA	NA	DRY	NA	N/A
	9/10/2008	6,913.17	6,896.97	18.97	NA	NA	DRY	NA	N/A
	11/3/2008	6,913.17	6,896.97	18.97	NA	NA	DRY	NA	N/A
GWM-3	2/18/2008	6,912.65	6,896.15	17.94	NA	NA	DRY	NA	N/A
	5/21/2008	6,912.65	6,896.15	17.94	NA	NA	DRY	NA	N/A
	9/10/2008	6,912.65	6,896.15	17.94	NA	NA	DRY	NA	N/A
	11/3/2008	6,912.65	6,896.15	17.94	NA	NA	DRY	NA	N/A
NAPIS 1(KA-1R)	4/11/2008	6,918.43	6,904.40	14.00	NA	NA	8.58	6,909.85	N
	7/11/2008	6,918.43	6,904.40	14.00	NA	NA	8.98	6,909.45	N
	11/4/2008	6,918.43	6,904.40	14.00	NA	NA	8.83	6,909.60	N
NAPIS 2 (KA-2R)	4/11/2008	6,917.27	6,902.80	14.50	NA	NA	8.83	6,908.44	N
	7/11/2008	6,917.27	6,902.80	14.50	NA	NA	8.96	6,908.31	N
	11/4/2008	6,917.27	6,902.80	14.50	NA	NA	9.23	6,908.04	N
NAPIS 3 (KA-3R)	4/11/2008	6,917.31	6,886.60	30.70	NA	NA	14.98	6,902.33	N
	7/11/2008	6,917.31	6,886.60	30.70	NA	NA	9.72	6,907.59	N
	11/4/2008	6,917.31	6,886.60	30.70	NA	NA	8.71	6,908.60	N
KA-3	11/4/2008	6,917.17	6,892.40	25.00	NA	NA	9.01	6,908.16	N

NAPIS 1(KA-1R), NAPIS 2 (KA-2R), NAPIS 3 (KA-3R): NAPIS wells installed on 3/15/08. Quarterly monitoring began third quarter of 2008.

KA-3: Began sampling 4th Quarter 2008.

SPH = Separate Phase Hydrocarbons

NA = If no SPH was detected then this is shown on the table as NA (not applicable)

Corrected water table elevations are only provided if SPH was detected.

*OW-12: Annual inspection revealed well depth measurement to be 126 feet instead of 145 feet as listed.

WESTERN REFINING
GALLUP REFINERY
Groundwater Discharge Permit GW-032
Recovery Well Inspections

Permit Requirement: GW-032

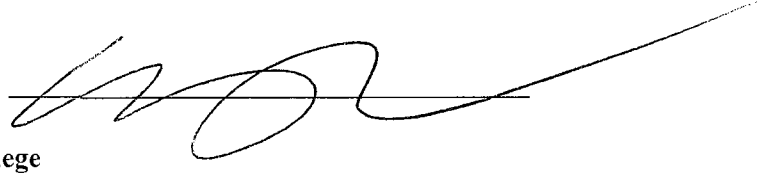
Condition Permit ID # : OCD Sect. 9, Item 4

Monitoring Required: Quarterly measurement of product layer thickness and bailing of product.

Equipment Identification: RW-1, RW-2, RW-5, RW-6

Date of measurement	Time	Quarter	Well #	Depth to Product	Depth to Water	Product Level Thickness	Volume of Product Bailed (gallons)
2/18/2008	1532	1st	RW-1	30.18	34.77	4.59	1.66
5/21/2008	1410	1st	RW-1	30.40	34.57	4.17	1.59
9/12/2008	1430	1st	RW-1	30.03	34.59	4.56	Not Bailed
11/3/2008	1300	1st	RW-1	30.02	34.63	4.61	0.92
2/18/2008	1500	2nd	RW-2	No Product	25.16	0.00	0.00
5/21/2008	1440	2nd	RW-2	No Product	27.22	0.00	0.00
9/12/2008	1445	2nd	RW-2	No Product	27.03	0.00	0.00
11/3/2008	1420	2nd	RW-2	No Product	27.10	0.00	0.00
2/18/2008	1515	3rd	RW-5	33.19	33.95	0.76	0.19
5/21/2008	1420	3rd	RW-5	32.77	33.84	1.07	0.14
9/12/2008	1430	3rd	RW-5	32.62	32.85	0.23	0.05
11/3/2008	1400	3rd	RW-5	31.05	32.34	1.29	0.05
2/18/2008	1511	4th	RW-6	33.44	34.35	0.92	1.66
5/21/2008	1430	4th	RW-6	33.02	34.12	1.10	0.13
9/12/2008	1435	4th	RW-6	32.12	32.83	0.71	0.09
11/3/2008	1435	4th	RW-6	32.46	32.69	0.23	0.04

Name and Title of person who performed measurement:
Cheryl Johnson (Environmental Specialist)

Signature: 

CC: Ed Riege

WESTERN REFINING
GALLUP REFINERY
Groundwater Discharge Permit GW-032
Recovery Well Inspections

Permit Requirement: GW-032

Condition Permit ID # : OCD Sect. 9, Item 4

Monitoring Required: Quarterly measurement of product layer thickness and bailing of product.

Equipment Identification: RW-1, RW-2, RW-5, RW-6

Date of measurement	Time	Quarter	Well #	Depth to Product (ft.)	Depth to Water (ft.)	Product Level Thickness	Volume of Product Bailed (gallons)
2/18/2008	1532	1st	**RW-1**	30.18	34.77	4.59	1.66
2/18/2008	1500	1st	**RW-2**	No Product	28.16	0	
2/18/2008	1515	1st	**RW-5**	33.19	33.95	0.76	0.19
2/18/2008	1511	1st	**RW-6**	33.44	34.35	0.92	0.11
Name and Title of person who performed measurement: **Cheryl Johnson (Environmental Specialist)**							

Signature: _____

CC: Ed Riege

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-1 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Quarterly water level on GWM-1

Date	Time	Quarter	Depth to Water	Comments
2/18/2008	1415	1st	19.91	To top of plastic Casing.
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-2 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2008

Date	Time	Quarter	Depth to bottom	Comments (Dry?)
2/18/2008	1412	1st	18.45	Water (top of Plastic Casing)
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-3 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2007

Date	Time	Quarter	Depth to bottom	Comments (Dry?)
2/18/2008	1424	1st	17.95	DRY: (To top of plastic casing)
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
OW-1 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Check well OW-1 for artesian flow condition

Date	Time	Quarter	Depth to Water	Comments
2/18/2008	1436	1st	1.75	to top of plastic casing
Name & Title of person who performed measurement: Cheryl Johnson, Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
OW-10 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Quarterly water level on OW-10

Date	Time	Quarter	Depth to Water	Comments
2/18/2008	1405	1st	1.25	To top of plastic casing
Name & Title of person who performed measurement: Cheryl Johnson, Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
Groundwater Discharge Permit GW-032
Recovery Well Inspections

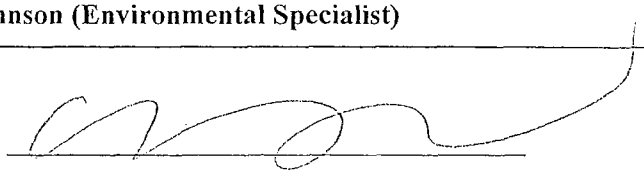
Permit Requirement: GW-032

Condition Permit ID # : OCD Sect. 9, Item 4

Monitoring Required: Quarterly measurement of product layer thickness and bailing of product.

Equipment Identification: RW-1, RW-2, RW-5, RW-6

Date of measurement	Time	Quarter	Well #	Depth to Product (ft)	Depth to Water (ft)	Product Level Thickness	Volume of Product Bailed (gallons)
5/21/2008	1410	2nd	**RW-1**	30.40	34.57	4.17	1.39
5/21/2008	1440	2nd	**RW-2**	No Product	27.22	0	
5/21/2008	1420	2nd	**RW-5**	32.77	33.84	1.07	0.14
5/21/2008	1430	2nd	**RW-6**	33.02	34.12	1.1	0.13
Name and Title of person who performed measurement: **Cheryl Johnson (Environmental Specialist)**							

Signature: 

CC: Ed Riege

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-1 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Quarterly water level on GWM-1

Date	Time	Quarter	Depth to Water	Comments
5/21/2008	1340	2nd	19.47	To top of plastic Casing.
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-2 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2008

Date	Time	Quarter	Depth to bottom	Comments (Dry?)
5/21/2008	1345	2ND	18.97 ft	DRY (Top of Plastic Casing)
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-2 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2008

Date	Time	Quarter	Depth to bottom (ft)	Comments (Dry?)
2/18/2008	1412 hrs	1st	18.45	Water (top of Plastic Casing)
3/4/2008	1300 hrs		18.81	To Water
3/5/2008	0900 hrs		18.81	To Water
3/6/2008	0845 hrs		18.82	To Water
3/10/2008	1400 hrs		18.85	To Water
3/11/2008	1325 hrs		18.86	To Water
			18.94	Bailed 181 ml of water. Re-gauged after bailing
3/12/2008	1325 hrs		18.94	To Water
			18.96	Bailed 2 ml of water. Re-gauged after bailing
3/13/2008	1330 hrs		18.96	To Water
				Not enough water to bail.
3/14/2008	1335 hrs		18.96	To Water
				Not enough water to bail.
3/17/2008	1355		18.97	DRY
3/28/2008	1500		18.97	DRY

Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-3 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2007

Date	Time	Quarter	Depth to bottom	Comments (Dry?)
5/21/2008	1330	2nd	17.94 ft	DRY: (To top of plastic casing)
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
OW-1 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Check well OW-1 for artesian flow condition

Date	Time	Quarter	Depth to Water	Comments
5/21/2008	1400	2nd	1.75 ft	to top of plastic casing
Name & Title of person who performed measurement: Cheryl Johnson, Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
OW-10 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Quarterly water level on OW-10

Date	Time	Quarter	Depth to Water	Comments
5/21/2008	1355	2nd	1.61 ft.	To top of plastic casing
Name & Title of person who performed measurement: Cheryl Johnson, Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
Groundwater Discharge Permit GW-032
Recovery Well Inspections

Permit Requirement: GW-032

Condition Permit ID # : OCD Sect. 9, Item 4

Monitoring Required: Quarterly measurement of product layer thickness and bailing of product.

Equipment Identification: RW-1, RW-2, RW-5, RW-6

Date of measurement	Time	Quarter	Well #	Depth to Product (ft)	Depth to Water (ft)	Product Level Thickness	Volume of Product Bailed (gallons)
9/12/2008	1430	3RD	**RW-1**	30.03	34.59	4.56	Not Bailed
9/12/2008	1445	3RD	**RW-2**	No Product	27.03	0	
9/12/2008	1430	3RD	**RW-5**	32.62	32.85	0.23	0.05
9/12/2008	1435	3RD	**RW-6**	32.12	32.83	0.71	0.09

Name and Title of person who performed measurement:
Cheryl Johnson (Environmental Specialist) RW-5 & 6 bailed by Alvin Dorsey.

RW-1 was not bailed this quarter.

Signature: _____

CC: Ed Riege

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-1 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Quarterly water level on GWM-1

Date	Time	Quarter	Depth to Water	Comments
7/10/2008	845	3rd	20.23 ft.	To top of plastic Casing. **COLLECTED ANNUAL WATER SAMPLES. pH=6.55; Temp = 13.1˚C, ms = 5.92**
9/10/2008	1350	3RD	20.24 ft.	To top of plastic casing.
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-2 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2008

Date	Time	Quarter	Depth to bottom	Comments (Dry?)
9/10/2008	1345	3RD	18.97 ft	DRY (Top of Plastic Casing)
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-3 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2007

Date	Time	Quarter	Depth to bottom	Comments (Dry?)
9/10/2008	1357	3rd	17.95 ft	DRY: (To top of plastic casing)
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
OW-1 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Check well OW-1 for artesian flow condition

Date	Time	Quarter	Depth to Water	Comments
9/10/2008	1335	3RD	1.78 ft	to top of plastic casing
Name & Title of person who performed measurement: Cheryl Johnson, Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
OW-10 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Quarterly water level on OW-10

Date	Time	Quarter	Depth to Water	Comments
9/10/2008	1325	3RD	1.59	To top of plastic casing
Name & Title of person who performed measurement: Cheryl Johnson, Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
Groundwater Discharge Permit GW-032
Recovery Well Inspections

Permit Requirement: GW-032

Condition Permit ID # : OCD Sect. 9, Item 4

Monitoring Required: Quarterly measurement of product layer thickness and bailing of product.

Equipment Identification: RW-1, RW-2, RW-5, RW-6

Date of measurement	Time	Quarter	Well #	Depth to Product (ft)	Depth to Water (ft)	Product Level Thickness	Volume of Product Bailed (gallons)
11/3/2008	1300	4th	**RW-1**	30.02	34.63	4.61	0.94
11/3/2008	1420	4th	**RW-2**	No Product	27.1	0	0.00
11/3/2008	1400	4th	**RW-5**	31.05	32.34	1.29	0.05
11/3/2008	1435	3RD	**RW-6**	32.46	32.69	0.23	0.04
Name and Title of person who performed measurement: **Cheryl Johnson (Environmental Specialist)**							

Signature: _____

CC: Ed Riege

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-1 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Quarterly water level on GWM-1

Date	Time	Quarter	Depth to Water	Comments
7/10/2008	845	3rd	20.23 ft	To top of plastic Casing. **COLLECTED ANNUAL WATER SAMPLES. pH=6.55; Temp = 13.1°C, ms = 5.92**
11/10/2008	1345	4th	20.55 ft	To top of plastic casing.
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-2 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2008

Date	Time	Quarter	Depth to bottom	Comments (Dry?)
11/3/2008	1340	4th	19.05 ft.	DRY (Top of Plastic Casing)
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
GWM-3 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 3

Monitoring Requirement: Quarterly Start 2007

Date	Time	Quarter	Depth to bottom	Comments (Dry?)
11/3/2008	1350	4th	18.04 ft	DRY: (To top of plastic casing)
Name & Title of person who performed measurement: Cheryl Johnson / Environmental Specialist				

Signature: _____

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
OW-1 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Check well OW-1 for artesian flow condition

Date	Time	Quarter	Depth to Water	Comments
11/3/2008	1330	4th	2.78	to top of plastic casing
Name & Title of person who performed measurement: Cheryl Johnson, Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

WESTERN REFINING
GALLUP REFINERY
GROUNDWATER DISCHARGE PERMIT
OW-10 WELL INSPECTION

Permit Requirement: OCD, Section 9, Item 4

Monitoring Requirement: Quarterly water level on OW-10

Date	Time	Quarter	Depth to Water	Comments
11/3/2008	1320	4th	2.04 ft.	To top of plastic casing
Name & Title of person who performed measurement: Cheryl Johnson, Environmental Specialist				

Signature: _____

CC: Ed Riege

File: (S:)\env-share\Wells OW-1,OW-10 GWM-1 Form

Summary of All EPA/NMED/RCRA Activity

Appendix D Summary of All EPA/NMED/RCRA Activity

Benzene Strippers

In 2008, the Gallup Refinery continued its efforts to reduce benzene levels in its wastewater after air stripping to less than 0.5 ppm. This was not achieved consistently. Several modifications to inlet nozzles, piping, and valves were undertaken. Extensive sampling was undertaken – the analytical results of which have been shared with the NMED/HWB and the OCD. Table D.1 summarizes these results:

BENZENE TRACKING - 2008

Highlighted cells are for levels exceeding regulatory limits. Limit is 0.5 ppm.

	Benzene Strippers at Lagoons - Inlet	Benzene Strippers at Lagoons - Outlet:
Date	**Result mg/l**	**Result mg/l**
1/10/2008	13	0.8
1/24/2008	4.5	0.54
1/31/2008	22	Blower repaired
2/7/2008	8.3	1.5
2/14/2008	9.0	2.6
2/21/2008	7.2	1.2
2/28/2008	13	2.4
3/6/2008	4.8	0.45
3/11/2008	6.4	0.63
3/20/2008	ns	0.61
3/26/2008	5.2	0.54
4/3/2008	ns	0.68
4/11/2008	9.1	2.0
4/17/2008	7.1	1.6
4/24/2008	4.7	0.38
4/30/2008	7.2	0.7
5/8/2008	6.5	0.64
5/13/2008	4.0	0.78
5/21/2008	8.8	1.2
5/28/2008	8.1	2.1
6/3/2008	4.7	1.1
6/9/2008	4.1	1.1
6/11/2008	4.6	0.69
6/12/2008	4.6	0.56
6/13/2008	4.4	0.39
6/17/2008	7.3	0.81
6/25/2008	15.0	1.6

7/3/2008	7.9	2.3
7/9/2008	4.0	0.74
7/15/2008	3.7	2.2
7/22/2008	3.5	0.48
7/30/2008	4.5	0.53
8/7/2008	3.0	0.082
8/13/2008	4.6	0.12
8/19/2008	22.0	0.66
8/26/2008	5.1	1.5
9/3/2008	2.3	0.19
9/11/2008	6.9	0.49
9/17/2008	10.0	0.95
9/23/2008	8.1	0.9
10/6/2008	10.0	1
10/14/2008	3.4	0.46
10/20/2008	3.3	0.39
11/5/2008	3.1	0.42
11/12/2008	9.4	1.2
11/19/2008	9.8	1.3
11/24/2008	8.1	0.52
12/2/2008	5.2	1.5
12/11/2008	8.2	0.85
12/22/2008	22	1.3
12/30/2008	10	1.7

Benzene Stripper in Process Inlet **Benzene Stripper in Process - Outlet:**

Date	Result mg/l	Result mg/l
1/10/2008	43	<2.5
1/24/2008	28	1.9
1/31/2008	40	1.2
2/7/2008	200	2
2/14/2008	43	0.53
2/21/2008	35	9.1
2/28/2008	27	1
3/6/2008	33	0.52
3/11/2008	25	0.52
3/20/2008	30	0.14
3/26/2008	33	1
4/3/2008	33	1
4/11/2008	29	1.5

	4/17/2008	22		0.13	
	4/24/2008	16		0.22	
	4/30/2008	20		2.1	
	5/8/2008	29		0.17	
	5/13/2008	27		0.11	
	5/21/2008	22		0.14	
	5/28/2008	28		0.15	
	6/3/2008	23		3.3	
	6/9/2008	ns		ns	
	6/11/2008	22		4.6	
	6/12/2008	ns		ns	
	6/13/2008	ns		ns	
	6/17/2008	23		0.93	
	6/25/2008	29		1.9	
	7/3/2008	25		0.77	
	7/9/2008	21		0.85	
	7/15/2008	22		1.1	
	7/23/2008	25		0.93	
	7/30/2008	22		2.8	
	8/7/2008	22		2.2	
	8/13/2008	22		1.9	
	8/19/2008	27		2.2	
	8/26/2008	24		2.2	
	9/3/2008	25		1.9	
	9/11/2008	31		20	
	9/17/2008	28		20	
9/23/2008		25		20	
10/6/2008		***340***		***4.9***	
10/14/2008		***460***		***35***	
10/20/2008		43		3.6	
11/5/2008		32		5.3	
11/12/2008		50		0.91	
	11/19/2008	61		0.38	
	11/24/2008	61		0.15	Method 8260B
	11/24/2008	59		0.52	Method 8021B
	12/2/2008	67		0.38	
	12/4/2008	26		1.3	
	12/22/2008	67		47	

NOTE: The results highlighted in "orange" are highly suspect for two reasons:

1) we found that the stripper needed immediate repair work. At the time of the first suspect sample, this was not clear.

We believe that the samples may have collected excessive sludge and skewed the results. This sludge is collected during maintenance and shipped off-site based on its characteristics.

2) the output of the Process (3rd) stripper goes to the API and then after recovery of oil the effluent enters another set of strippers; the output of the process stripper contributes approximately 40% of the influent into the Benzene Strippers at the Lagoons after oil recovery.
On 10/14, from the Process Stripper the data have an output of 35 ppm Benzene and an influent into the Lagoon Strippers of 3.4 ppm Benzene -This is not reasonable, as after dilution even by 60% absolutely Benzene-free water (not likely, as other Benzene sources merge), the 35 ppm should have produced an influent of over 8-10 ppm.

The high benzene levels we obtained in these data sets are anomalous. In most other cases, the influent to the Lagoon Strippers is always higher in Benzene than the effluent of the Process Stripper, other than this time.

To improve its benzene removal performance, the Gallup Refinery has also continued efforts to upgrade its wastewater treatment system, and evaluate secondary oil/water separation options after the primary separation in the NAPIS.

Wastewater Treatment System Pilot Study

A pilot study of a Membrane Biooreactor was undertaken. A small-scale unit was leased and operated for several months. Details of this study are as follows:

Figure D.1 presents a schematic of the system, and Figures D.2 and D.3 present photographs of some key components.

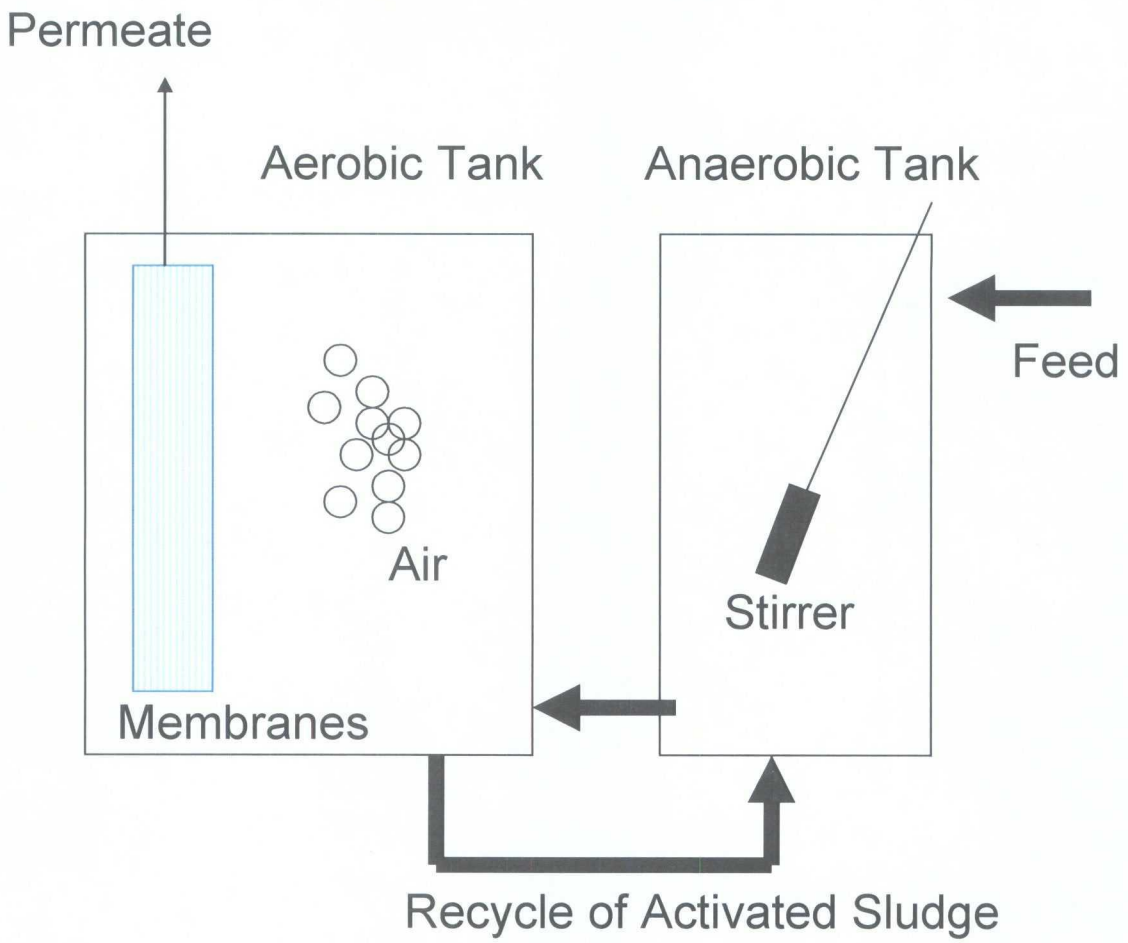


Figure D.1: Schematic of Small-scale Membrane Bioreactor System

Figure D.2: Photograph of the Anaerobic Tank

Figure D.3: Photograph of the Aerobic Tank with Submerged Membrane Filters (lower left of picture)

Operational Procedures

Wastewater from the refinery was collected from the existing aeration lagoon system at the influent pipes. This wastewater was a mixture of the industrial wastewater generated within the refinery, as well as sanitary effluent received from the Pilot Travel Center. Periodic samples of this feed were taken. The feed was collected in three large tanks, and measured amounts of phosphates and other balancing chemicals were added. This feed was then pumped into an anaerobic tank in which it was continually stirred. From the anaerobic tank, the wastewater entered an aerobic tank which had a continuous supply of air pumped into it. We also twice added approximately 5 gallons of sludge from the City of Gallup's wastewater treatment plant to this tank. The wastewater then was filtered through a set of membrane filters that were hanging in the aerobic tank, and permeate was collected for further testing. These membranes had the capability to send a back-pulse of air that kept them free of clogging.

Data and Measurements

Various operational parameters were measured during the study. Among these were pressures and flow rates before and after the back-pulse, pH and temperatures in the various tanks, Dissolved Oxygen levels in the anaerobic and aerobic tanks, and the Dissolved Oxygen Uptake Rate in the aerobic tank. Table D.2 presents the maximum and minimum values for some of these parameters.

Feed and permeate samples were collected and sent to an environmental laboratory for testing, and at various times aerobic tank liquids were also sampled. Table D.3 presents some of these analytical data. All of the analytical data collected will be included in our 2008 Annual Groundwater Report which has a section on all water quality monitoring activities conducted at the Gallup Refinery of Western Refining.

Table D.2: Representative Set of Operational and Other Parameters Measured During the Study

	Feed pH	Permeate pH	Dissolved Oxygen Uptake Rate	Dissolved Oxygen Anaerobic Tank	Dissolved Oxygen Aerobic tank	Temperature Anaerobic tank
			(mg/L.hour)	(mg/L)	(mg/L)	(^{o}C)
Maximum	8.52	8.55	69	10.6	12.63	29.8
Minimum	5.73	6.5	30	0.19	0.76	5

Table D.3: Representative Set of Sampling Data (all units in mg/L unless noted otherwise)

Type of sample	Oil and Grease	Total Phenolics	Ammonia	Total Dissolved Solids	Turbidity (NTU)	Chemical Oxygen Demand	Biochemical Oxygen Demand
Feed	690	17000	600	3200	2300	3440	1288
Permeate	1.2	290	480	3800	Non-detect	1720	765

Oil and Grease and Phenolics were dramatically reduced as is clear in Table 2. However, Ammonia levels did not drop considerably. Figure 4 depicts a graph comparing Ammonia levels in the Feed and the Permeate. Figure 5 depicts reductions in Chemical Oxygen Demand; and Figure 6 depicts reductions in Biochemical Oxygen Demand. These measures of water quality were markedly improved.

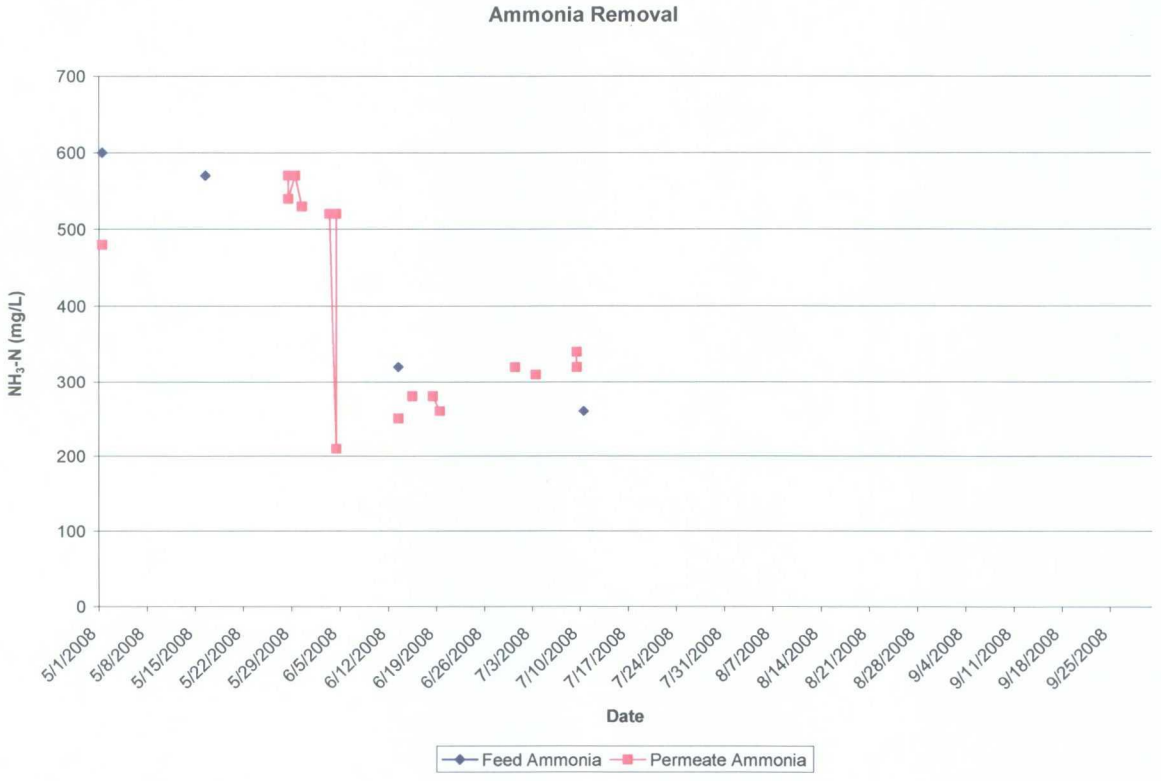


Figure D.4: Graph of Ammonia Levels in the Feed and Permeate

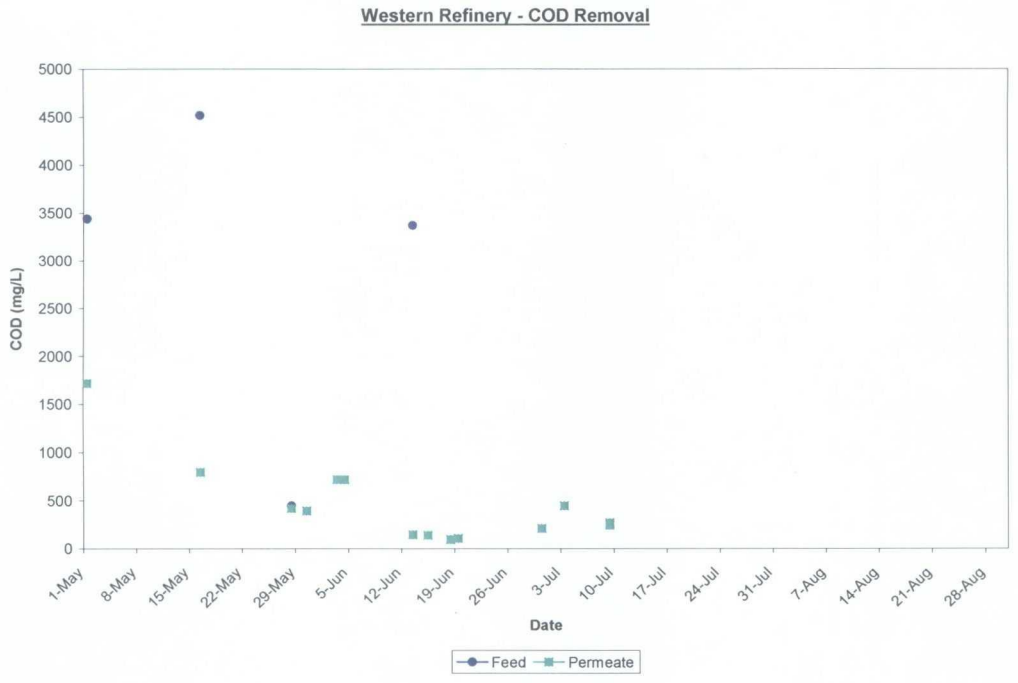


Figure D.5: Graph of Chemical Oxygen Demand Levels in the Feed and Permeate

Figure D.6: Graph of Biochemical Oxygen Demand Levels in the Feed and Permeate

Conclusions

The results of the MBR study did not favor proceeding forward with a larger scale system. What became readily apparent through the course of the study was that the refinery wastewater would need secondary treatment for the bioreactor to be effective. Currently the refinery wastewater only undergoes primary gravity-based oil-water separation in an API Separator.

There was a fear of the membrane filtration system being clogged by the oil in the refinery wastewater. This fear was expressed by GE representatives when we suggested spiking the feed with oil. We also had at various times the bacteria in the anaerobic and aerobic tanks suffer a loss of productivity – this was from a die-off caused by system malfunctions, such as clogged switches, failed pumps, ruptured tubing, all of which could be traced to the levels of oil and grease and other solids in the wastewater that the MBR system was not optimized to treat..

We realized that the MBR system would probably be most effective in a non-refinery setting. To make it effective for our applications, we would need more oil-water separation, better screening and pre-filtration to protect the membranes.

We also found from a survey of the refining industry that MBRs are not in use at refineries to treat wastewater, but are in some use at refineries for treating process water. A recent survey of new technologies for refinery wastewater by a Task Force made up of Purdue University's Calumet Water Institute and Argonne National Laboratory[1] reached these conclusions regarding MBRs in a refinery setting -

"The effectiveness, small footprint, and high effluent quality of MBR technologies are counterbalanced by higher costs, higher energy use, waste generation, and still unresolved fouling issues that may provide inconsistent performance and reliability. Although their use in treating refinery wastewater is currently limited, significant interest in MBR technologies is growing in the refinery sector because they promise to achieve advanced effluent quality for ammonia, TSS, and many other effluent parameters. This interest reflects the significant growth and increasing efficiency of MBRs worldwide. More testing of these technologies will be needed to understand and optimize their performance under specific loading rates, their energy lifecycle inputs, their overall cost-effectiveness in real application scenarios, and the generation of secondary waste. Just as importantly, more testing will be needed to understand their ability to provide integrated treatment by removing other refinery pollutants and heavy metals at the required levels."

Based on this study, a new set of sampling data were gathered, process design conditions established, and a process design report for an upgrade to the WWTS was initiated.

---

[1] http://www.calumet.purdue.edu/pwi/emergtech/Phase%20I%20Final%20Report_10202008.pdf

Study of Sludge in Aeration Lagoons and Evaporation Pond-1

Trihydro conducted a sediment sampling study of sludge in Aeration Lagoons 1 and 2 and Evaporation Pond 1. The results of this effort were used to help develop a closure plan for the aeration lagoons, which was planned to be submitted to the NMED/HWB in 2009.

Railroad Rack Lagoon Fan-out Area

An investigation report was prepared and submitted to the NMED/HWB for the Railroad Rack Lagoon Fan-out Area. Subsequently, an excavation plan was developed, submitted to the NMED/HWB and approved for implementation. This work is scheduled for completion in 2009.

Tank 101-102 Seep Study

A seep was discovered along the hillsides west of Crude Tanks 101-102. It was not clear where the seep came from – possible sources were liquid emanating from the tanks, precipitation, leaks from a firewater pipeline. A trench was dug at the seep location to be able to gather more liquids. The trench did not gather extensive liquids and has subsequently stopped. A sample of the sludge at the bottom of the trench was collected and analyzed. A copy of this laboratory is provided in this Appendix. The levels of hydrocarbons were below regulatory concern – the DRO were at 100 ppm; the NMED's TPH screening level for soils for unknown oils is 200 ppm; and the GROP were at 27 ppm also well below the NMED's TPH screening level for unknown oils of 200 ppm. Other hydrocarbons were also below regulatory concern. The major reason for this study was to determine whether the seep is directly related to Tanks 101-102. It appears that this is not the case – rather, we believe that any hydrocarbons that are being found at low levels in soils in this area are from the past and not from ongoing activities. These will be addressed in the future closure of the Tank Farm Solid Waste Management Unit.

Land Treatment Area and Land Farms

Inspections of the Land Treatment Area were conducted and sampling of land farms soils and subsurface conducted – no releases were found. Regular tilling of the land farms was conducted, except when rain made the ground too wet to plow, or the tractor was out of service.

RCRA-90 Day Pad and Bundle Cleaning Pad Inspections

Inspections were ongoing. Examples of the records kept are attached.

WESTERN REFINING – Gallup Refinery

Jamestown, NM

OCD DISCHARGE PERMIT GW-032

DAILY DRAINAGE INSPECTION

1. ✓ Check water in dike at marketing tank area.
2. _____ Concrete barrier west of crude tanks.
3. _____ API Separator area general appearance
4. _____ Benzene stripper area condition.
5. _____ Aeration lagoons and aerator pumps. Temp _____ °F V _____
6. _____ Pond 1 general appearance.
7. _____ Pond 10 water flow in and out. Temp 56.2 °F V Okay
8. OK Ditch out of Pond 10 to runway.
9. _____ Ditch from north of runway to Pond 9.
10. _____ Valves and pond levels on Ponds 12 thru 7
11. _____ Valves and pond levels on Ponds 3 thru 9.

RAIN GAUGE = C

FREEBOARD ON PONDS.

#2 1'9"	#6 Okay	#12A Ben
#3 1'9"	#8 Ben	#12b 1'3"
#4 1'9"	#7 Ben	#9 1'1"
#5 1'9"	#11 Ben	

BI-WEEKLY: TILL/DISC OF OCD LANDFARM(S): _____

DATE / SIGNATURE

DATE INSPECTED: 12-4-08 INSPECTED BY: T. Lang

COMMENTS: OCD snowpack muddy

WESTERN REFINING – Gallup Refinery

Jamestown, NM

OCD DISCHARGE PERMIT GW-032

DAILY DRAINAGE INSPECTION

1. _____ Check water in dike at marketing tank area.
2. _____ Concrete barrier west of crude tanks.
3. _____ API Separator area general appearance
4. _____ Benzene stripper area condition.
5. _____ Aeration lagoons and aerator pumps.. Temp _____ °F V_____
6. _____ Pond 1 general appearance.
7. _____ Pond 10 water flow in and out. Temp 62 °F V ok
8. _____ Ditch out of Pond 10 to runway.
9. _____ Ditch from north of runway to Pond 9.
10. _____ Valves and pond levels on Ponds 12 thru 7
11. _____ Valves and pond levels on Ponds 3 thru 9.

RAIN GAUGE = e

FREEBOARD ON PONDS.

#2 18"	#6 ok	#12A —
#3 18"	#8 —	#12b
#4 1'9"	#7 —	#9
#5 1'9"	#11 —	

BI-WEEKLY: TILL/DISC OF OCD LANDFARM(S): Disking or Plowing is due ok OCD
DATE / SIGNATURE

DATE INSPECTED: 11/13/08 INSPECTED BY: _____

COMMENTS: _____

WESTERN REFINING – Gallup Refinery

Jamestown, NM

OCD DISCHARGE PERMIT GW-032

DAILY DRAINAGE INSPECTION

1. _____ Check water in dike at marketing tank area.
2. _____ Concrete barrier west of crude tanks.
3. _____ API Separator area general appearance
4. _____ Benzene stripper area condition.
5. _____ Aeration lagoons and aerator pumps. Temp _____ °F V _____
6. _____ Pond 1 general appearance.
7. _____ Pond 10 water flow in and out. Temp 78 °F V ok
8. _____ Ditch out of Pond 10 to runway.
9. _____ Ditch from north of runway to Pond 9.
10. _____ Valves and pond levels on Ponds 12 thru 7
11. _____ Valves and pond levels on Ponds 3 thru 9.

RAIN GAUGE = 0

FREEBOARD ON PONDS.

#2 1'6"	#6 ok	#12A Brn
#3 1'8"	#8 Brn	#12b 1'3"
#4 1'9"	#7 Brn	#9 1'4"
#5 1'9"	#11 Brn	

BI-WEEKLY: TILL/DISC OF OCD LANDFARM(S): 10/29/08 _____
DATE / SIGNATURE

DATE INSPECTED: 10/29/08 INSPECTED BY: _____

COMMENTS: _____

WESTERN REFINING – Gallup Refinery

Jamestown, NM

OCD DISCHARGE PERMIT GW-032

DAILY DRAINAGE INSPECTION

1. _____ Check water in dike at marketing tank area.
2. _____ Concrete barrier west of crude tanks.
3. _____ API Separator area general appearance
4. _____ Benzene stripper area condition.
5. _____ Aeration lagoons and aerator pumps.. Temp _____ °F V _____
6. _____ Pond 1 general appearance.
7. o/c _____ Pond 10 water flow in and out. Temp 70° °F V .06"
8. _____ Ditch out of Pond 10 to runway.
9. _____ Ditch from north of runway to Pond 9.
10. _____ Valves and pond levels on Ponds 12 thru 7
11. _____ Valves and pond levels on Ponds 3 thru 9.

RAIN GAUGE = 0

FREEBOARD ON PONDS.

#2 1'8"	#6 OM	#12A BM
#3 1'2"	#8 2'	#12b 1'3"
#4 1'8"	#7 BM	#9 1' 1"
#5 1'	#11 BM	

BI-WEEKLY: TILL/DISC OF OCD LANDFARM(S): ~~Expect~~ Started Plowing OCD

DATE / SIGNATURE

DATE INSPECTED: 9-24-08 INSPECTED BY: _____

COMMENTS: _____

WESTERN REFINING – Gallup Refinery

Jamestown, NM

OCD DISCHARGE PERMIT GW-032

DAILY DRAINAGE INSPECTION

1. _____ Check water in dike at marketing tank area.
2. _____ Concrete barrier west of crude tanks.
3. _____ API Separator area general appearance
4. _____ Benzene stripper area condition.
5. _____ Aeration lagoons and aerator pumps.. Temp _____ °F V _____
6. _____ Pond 1 general appearance.
7. ✓ Pond 10 water flow in and out. Temp 68° °F V 0 Le"
8. _____ Ditch out of Pond 10 to runway.
9. _____ Ditch from north of runway to Pond 9.
10. _____ Valves and pond levels on Ponds 12 thru 7
11. _____ Valves and pond levels on Ponds 3 thru 9.

RAIN GAUGE = 0

FREEBOARD ON PONDS.

#2 1'8"	#6 OK	#12A Bm
#3 1'8"	#8 Bm	#12b 1'9"
#4 1'9"	#7 Bm	#9 1'
#5 1'9"	#11 Bm	

BI-WEEKLY: TILL/DISC OF OCD LANDFARM(S): 9-8-08 _____
DATE / SIGNATURE

DATE INSPECTED: 9-8-08 INSPECTED BY: _____

COMMENTS: _____

WESTERN REFINING – Gallup Refinery

Jamestown, NM

OCD DISCHARGE PERMIT GW-032

DAILY DRAINAGE INSPECTION

1. _____ Check water in dike at marketing tank area.
2. _____ Concrete barrier west of crude tanks.
3. _____ API Separator area general appearance
4. _____ Benzene stripper area condition.
5. _____ Aeration lagoons and aerator pumps. Temp _____ °F V _____
6. _____ Pond 1 general appearance.
7. _____ Pond 10 water flow in and out. Temp 71° °F V .07"
8. _____ Ditch out of Pond 10 to runway.
9. _____ Ditch from north of runway to Pond 9.
10. _____ Valves and pond levels on Ponds 12 thru 7
11. _____ Valves and pond levels on Ponds 3 thru 9.

RAIN GAUGE = 0

FREEBOARD ON PONDS.

#2 1'6"	#6 Dry	#12A Bm
#3 1'6"	#8 Bm	#12b 1'8"
#4 1'8"	#7 Bm	#9 .07"
#5 1'8"	#11 Bm	

BI-WEEKLY: TILL/DISC OF OCD LANDFARM(S): _____

DATE / SIGNATURE

DATE INSPECTED: 8-20-08 INSPECTED BY: _____

COMMENTS: _____

Trace in Sky

Date 7-25-08
Initials TW

DAILY DRAINAGE INSPECTION

1. _____ CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. _____ CONCRETE BARRIER WEST OF CRUDE TANKS.
3 _____ API SEPARATOR AREA GENERAL APPEARANCE.
4 _____ BENZENE STRIPPER AREA CONDITION.
5 _____ AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6 _____ POND ONE GENERAL APPEARANCE.
7 _____ POND 10 WATER FLOW IN AND OUT. Temp WV .07"
8 OK DITCH OUT OF POND 10 TO RUNWAY
9 _____ DITCH FROM NORTH OF RUNWAY TO POND 9
10 _____ VALVES AND POND LEVELS ON PONDS 12 THRU 7
11 _____ VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge .003

Freeboard on Ponds:

#2 1'8"	#6 0"	#12a BW
#3 1'6"	#8 BW	#12b 1'3"
#4 1'8"	#7 BW	#9 .07"
#5 .08"	#11 BW	

Monthly tilling of OCD landfarm _____ **Date** _____ **Signed**

Tractor in Shop.

Date 6-6-08
Initials Tec

DAILY DRAINAGE INSPECTION

1. _____ CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. _____ CONCRETE BARRIER WEST OF CRUDE TANKS.
3 _____ API SEPARATOR AREA GENERAL APPEARANCE.
4 _____ BENZENE STRIPPER AREA CONDITION.
5 _____ AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6 _____ POND ONE GENERAL APPEARANCE.
7 _____ POND 10 WATER FLOW IN AND OUT. Temp 68° V 1"
8 _____ DITCH OUT OF POND 10 TO RUNWAY
9 OK _____ DITCH FROM NORTH OF RUNWAY TO POND 9
10 _____ VALVES AND POND LEVELS ON PONDS 12 THRU 7
11 _____ VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge 0

Freeboard on Ponds:

#2 1'4"	#6 OK	#12a BM
#3 1'6"	#8 BM	#12b 1'4"
#4 1'8"	#7 BM	#9 OK"
#5 1'2"	#11 BM	

Monthly tilling of OCD landfarm Disk **Date** 6-6-08 **Signed**

sm/c:/word/envforms/dailydrainage/revision 08/24/2004

Date 5-2-08
Initials Lee

DAILY DRAINAGE INSPECTION

1. _____ CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. _____ CONCRETE BARRIER WEST OF CRUDE TANKS.
3. _____ API SEPARATOR AREA GENERAL APPEARANCE.
4. _____ BENZENE STRIPPER AREA CONDITION.
5. _____ AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6. _____ POND ONE GENERAL APPEARANCE.
7. _____ POND 10 WATER FLOW IN AND OUT. Temp 51° V Less
8. 60 _____ DITCH OUT OF POND 10 TO RUNWAY
9. _____ DITCH FROM NORTH OF RUNWAY TO POND 9
10. _____ VALVES AND POND LEVELS ON PONDS 12 THRU 7
11. _____ VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge 0

Freeboard on Ponds:

#2 1'6"	#6 0"	#12a BM
#3 1'3"	#8 1'4"	#12b 1'
#4 1'6"	#7 2'4"	#9 1"
#5 1'	#11 2'5"	

Monthly tilling of OCD landfarm _____ **Date** _____ **Signed**

Will do plowing in the Month of May

Date 4-3-08
Initials TEC

DAILY DRAINAGE INSPECTION

1. ok CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. ok CONCRETE BARRIER WEST OF CRUDE TANKS.
3 ok API SEPARATOR AREA GENERAL APPEARANCE.
4 ok BENZENE STRIPPER AREA CONDITION.
5 ok AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6 ok POND ONE GENERAL APPEARANCE.
7 ok POND 10 WATER FLOW IN AND OUT. Temp___V 7"
8 ok DITCH OUT OF POND 10 TO RUNWAY
9 ok DITCH FROM NORTH OF RUNWAY TO POND 9
10 ok VALVES AND POND LEVELS ON PONDS 12 THRU 7 Clear valves of obstruction
11 ok VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge 0

Pond #6 Dike shows bird Erosion on SE End.

Freeboard on Ponds:

Pond #5 - Shows seeping on Dike

#2 1'7"	**#6** Okay	**#12a** Dike
#3 1'1"	**#8** 1'	**#12b** 1'2"
#4 1'6"	**#7** 3'2"	**#9** .05" Okay
#5 1'	**#11** 2'3"	

Monthly tilling of OCD landfarm 4-3-08 **Date** _____ **Signed**

Fred

Date 4-2-08
Initials T-L-

DAILY DRAINAGE INSPECTION

1. dk CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. dk CONCRETE BARRIER WEST OF CRUDE TANKS.
3 dk API SEPARATOR AREA GENERAL APPEARANCE.
4 OK BENZENE STRIPPER AREA CONDITION.
5 OK AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6 OK POND ONE GENERAL APPEARANCE.
7 OK POND 10 WATER FLOW IN AND OUT. Temp___V 65"
8 OK DITCH OUT OF POND 10 TO RUNWAY
9 OK DITCH FROM NORTH OF RUNWAY TO POND 9
10 OK VALVES AND POND LEVELS ON PONDS 12 THRU 7
11 OK VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge ✓ Pond #10 Bird Enclosure SE End

Freeboard on Ponds: Pond #5 - shows seeping at Dike

#2 1'7"	#6 OK	#12a OK
#3 1'1"	#8 1'	#12b 1'2"
#4 1'6"	#7 3'2"	#9 .05" OK
#5 1'	#11 2'3"	

Monthly tilling of OCD landfarm 4-2-08 **Date** _____ **Signed** _____

Started

Date 3-31-08
Initials T.L

DAILY DRAINAGE INSPECTION

1. ok CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. ok CONCRETE BARRIER WEST OF CRUDE TANKS.
3 ok API SEPARATOR AREA GENERAL APPEARANCE.
4 ok BENZENE STRIPPER AREA CONDITION.
5 ok AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6 ok POND ONE GENERAL APPEARANCE.
7 ok POND 10 WATER FLOW IN AND OUT. Temp___V 4.5"
8 ok DITCH OUT OF POND 10 TO RUNWAY
9 ok DITCH FROM NORTH OF RUNWAY TO POND 9
10 ok VALVES AND POND LEVELS ON PONDS 12 THRU 7
11 ok VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge ~~0~~

Freeboard on Ponds:

#2 1'6"	#6 OK	#12a BM
#3 1'3"	#8 1'	#12b 1' 1.5"
#4 1'6"	#7 3'3"	#9 .05" OK
#5 10"	#11 2'3"	

Monthly tilling of OCD landfarm _____ **Date**_____ **Signed**

will try to ~~fill~~ in the Month of April. Weather Permits.

Date 3-14-08
Initials Tee

DAILY DRAINAGE INSPECTION

1. _____ CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. _____ CONCRETE BARRIER WEST OF CRUDE TANKS.
3 _____ API SEPARATOR AREA GENERAL APPEARANCE.
4 _____ BENZENE STRIPPER AREA CONDITION.
5 _____ AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6 _____ POND ONE GENERAL APPEARANCE.
7 _____ POND 10 WATER FLOW IN AND OUT. Temp___V___
8 _____ DITCH OUT OF POND 10 TO RUNWAY
9 _____ DITCH FROM NORTH OF RUNWAY TO POND 9
10 _____ VALVES AND POND LEVELS ON PONDS 12 THRU 7
11 _____ VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge 0

Freeboard on Ponds:

#2 1'6"	#6 Dry	#12a Bk
#3 1' 1.5"	#8 10"	#12b 1' 3"
#4 1'5"	#7 3' 1"	#9 2.5" Dry
#5 1'	#11 2' 1"	(Submerge)

Monthly tilling of OCD landfarm _____ **Date** _____ **Signed**

still wet ~~(soil)~~ (Soil)

Date 2-29-08
Initials T.L.

DAILY DRAINAGE INSPECTION

1. _____ CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. _____ CONCRETE BARRIER WEST OF CRUDE TANKS.
3 _____ API SEPARATOR AREA GENERAL APPEARANCE.
4 _____ BENZENE STRIPPER AREA CONDITION.
5 _____ AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6 _____ POND ONE GENERAL APPEARANCE.
7 _____ POND 10 WATER FLOW IN AND OUT. Temp 39° V___
8 _____ DITCH OUT OF POND 10 TO RUNWAY
9 _____ DITCH FROM NORTH OF RUNWAY TO POND 9
10 _____ VALVES AND POND LEVELS ON PONDS 12 THRU 7
11 _____ VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge 0

Freeboard on Ponds:

#2 1'6"	#6 OVM	#12a BM
#3 1'2"	#8 9"	#12b 1'6"
#4 1'6"	#7 3'1"	#9 2" Volume Marker
#5 1' Dike Scraping	#11 2'	(submerge)

Towel for Plow

Monthly tilling of OCD landfarm _____ **Date** _____ **Signed**

Date 01-28-08
Initials KM

DAILY DRAINAGE INSPECTION

1. OK CHECK WATER IN DIKE AT MARKETING TANK AREA.
2. _____ CONCRETE BARRIER WEST OF CRUDE TANKS.
3. _____ API SEPARATOR AREA GENERAL APPEARANCE.
4. _____ BENZENE STRIPPER AREA CONDITION.
5. _____ AERATION LAGOONS AND AERATOR PUMPS. Temp.___V___
6. _____ POND ONE GENERAL APPEARANCE.
7. _____ POND 10 WATER FLOW IN AND OUT. Temp 33 V 6"
8. _____ DITCH OUT OF POND 10 TO RUNWAY
9. _____ DITCH FROM NORTH OF RUNWAY TO POND 9
10. _____ VALVES AND POND LEVELS ON PONDS 12 THRU 7
11. ✓ VALVES AND POND LEVELS ON PONDS 3 THRU 9

Rain Gauge 1"

Freeboard on Ponds:

#2 1'5"	#6 0 M	#12a B M
#3 1'3"	#8 B M	#12b 1'2"
#4 1'3"	#7 3'4"	#9 1'5"
#5 1'5"	#11 2'5"	

to wet to Plow

Monthly tilling of OCD landfarm _____ **Date** _____ **Signed**

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, May 09, 2008

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: Upper Seep Tank 101-102

Order No.: 0804304

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 4/24/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

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

Hall Environmental Analysis Laboratory, Inc. **Date:** *09-May-08*

CLIENT: Western Refining Southwest, Gallup
Project: Upper Seep Tank 101-102
Lab Order: 0804304

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_S, SAMPLE 0804304-01A: Elevated surrogate due to matrix interference.

Hall Environmental Analysis Laboratory, Inc.

Date: *09-May-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Upper Seep Sludge
Lab Order:	0804304	**Collection Date:**	4/23/2008 9:00:00 AM
Project:	Upper Seep Tank 101-102	**Date Received:**	4/24/2008
Lab ID:	0804304-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	100	10		mg/Kg	1	4/29/2008 4:34:38 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/29/2008 4:34:38 PM
Surr: DNOP	99.9	61.7-135		%REC	1	4/29/2008 4:34:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	27	5.0		mg/Kg	1	4/29/2008 2:44:12 AM
Surr: BFB	140	84-138	S	%REC	1	4/29/2008 2:44:12 AM
EPA METHOD 7471: MERCURY						Analyst: **SNV**
Mercury	0.10	0.033		mg/Kg	1	5/2/2008 1:35:51 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **TES**
Arsenic	ND	2.5		mg/Kg	1	5/1/2008 12:51:05 PM
Barium	82	0.50		mg/Kg	5	5/1/2008 1:15:25 PM
Cadmium	ND	0.10		mg/Kg	1	5/1/2008 12:51:05 PM
Chromium	6.2	0.30		mg/Kg	1	5/1/2008 12:51:05 PM
Lead	1.0	0.25		mg/Kg	1	5/1/2008 12:51:05 PM
Selenium	ND	2.5		mg/Kg	1	5/1/2008 12:51:05 PM
Silver	ND	0.25		mg/Kg	1	5/1/2008 12:51:05 PM
EPA METHOD 8260B: VOLATILES						Analyst: **BDH**
Benzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Toluene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Ethylbenzene	1.4	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,2,4-Trimethylbenzene	0.34	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Naphthalene	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
1-Methylnaphthalene	2.2	0.20		mg/Kg	1	5/5/2008 8:01:19 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	5/5/2008 8:01:19 PM
Acetone	ND	0.75		mg/Kg	1	5/5/2008 8:01:19 PM
Bromobenzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Bromoform	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Bromomethane	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
2-Butanone	ND	0.50		mg/Kg	1	5/5/2008 8:01:19 PM
Carbon disulfide	ND	0.50		mg/Kg	1	5/5/2008 8:01:19 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
Chlorobenzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Chloroethane	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *09-May-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Upper Seep Sludge
Lab Order:	0804304	**Collection Date:**	4/23/2008 9:00:00 AM
Project:	Upper Seep Tank 101-102	**Date Received:**	4/24/2008
Lab ID:	0804304-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Chloroform	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Chloromethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Dibromomethane	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
2-Hexanone	ND	0.50		mg/Kg	1	5/5/2008 8:01:19 PM
Isopropylbenzene	0.19	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
4-Isopropyltoluene	0.077	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	5/5/2008 8:01:19 PM
Methylene chloride	ND	0.15		mg/Kg	1	5/5/2008 8:01:19 PM
n-Butylbenzene	0.29	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
n-Propylbenzene	0.69	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
sec-Butylbenzene	0.36	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Styrene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *09-May-08*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Upper Seep Sludge
Lab Order:	0804304	**Collection Date:**	4/23/2008 9:00:00 AM
Project:	Upper Seep Tank 101-102	**Date Received:**	4/24/2008
Lab ID:	0804304-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **BDH**
Vinyl chloride	ND	0.050		mg/Kg	1	5/5/2008 8:01:19 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/5/2008 8:01:19 PM
Surr: 1,2-Dichloroethane-d4	92.4	68.7-122		%REC	1	5/5/2008 8:01:19 PM
Surr: 4-Bromofluorobenzene	105	79.3-126		%REC	1	5/5/2008 8:01:19 PM
Surr: Dibromofluoromethane	99.0	64.4-119		%REC	1	5/5/2008 8:01:19 PM
Surr: Toluene-d8	95.1	86.5-121		%REC	1	5/5/2008 8:01:19 PM

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Upper Seep Tank 101-102 **Work Order:** 0804304

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics									
Sample ID: MB-15754		*MBLK*			Batch ID:	**15754**	Analysis Date:	4/27/2008 11:38:51 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-15754		*LCS*			Batch ID:	**15754**	Analysis Date:	4/27/2008 12:12:22 PM	
Diesel Range Organics (DRO)	43.77	mg/Kg	10	87.5	64.6	116			
Sample ID: LCSD-15754		*LCSD*			Batch ID:	**15754**	Analysis Date:	4/27/2008 12:45:55 PM	
Diesel Range Organics (DRO)	44.53	mg/Kg	10	89.1	64.6	116	1.74	17.4	
Method: EPA Method 8015B: Gasoline Range									
Sample ID: MB-15760		*MBLK*			Batch ID:	**15760**	Analysis Date:	4/28/2008 10:41:06 PM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-15760		*LCS*			Batch ID:	**15760**	Analysis Date:	4/28/2008 10:11:03 PM	
Gasoline Range Organics (GRO)	25.85	mg/Kg	5.0	94.0	69.5	120			
Method: EPA Method 7471: Mercury									
Sample ID: MB-15824		*MBLK*			Batch ID:	**15824**	Analysis Date:	5/2/2008 1:29:29 PM	
Mercury	ND	mg/Kg	0.033						
Sample ID: LCS-15824		*LCS*			Batch ID:	**15824**	Analysis Date:	5/2/2008 1:31:02 PM	
Mercury	0.1662	mg/Kg	0.033	99.7	80	120			
Method: EPA Method 6010B: Soil Metals									
Sample ID: MB-15797		*MBLK*			Batch ID:	**15797**	Analysis Date:	5/1/2008 12:41:04 PM	
Arsenic	ND	mg/Kg	2.5						
Barium	ND	mg/Kg	0.10						
Cadmium	ND	mg/Kg	0.10						
Chromium	ND	mg/Kg	0.30						
Lead	ND	mg/Kg	0.25						
Selenium	ND	mg/Kg	2.5						
Silver	ND	mg/Kg	0.25						
Sample ID: LCS-15797		*LCS*			Batch ID:	**15797**	Analysis Date:	5/1/2008 12:43:34 PM	
Arsenic	24.69	mg/Kg	2.5	98.8	80	120			
Barium	24.48	mg/Kg	0.10	97.6	80	120			
Cadmium	25.01	mg/Kg	0.10	100	80	120			
Chromium	25.28	mg/Kg	0.30	101	80	120			
Lead	24.55	mg/Kg	0.25	98.2	80	120			
Selenium	24.06	mg/Kg	2.5	96.3	80	120			
Silver	25.20	mg/Kg	0.25	101	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Upper Seep Tank 101-102 **Work Order:** 0804304

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: mb-15760		*MBLK*			Batch ID: **15760**		Analysis Date:	5/9/2008 12:23:11 AM	
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050						
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050						
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050						
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050						
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050						
Naphthalene	ND	mg/Kg	0.10						
1-Methylnaphthalene	ND	mg/Kg	0.20						
2-Methylnaphthalene	ND	mg/Kg	0.20						
Acetone	ND	mg/Kg	0.75						
Bromobenzene	ND	mg/Kg	0.050						
Bromodichloromethane	ND	mg/Kg	0.050						
Bromoform	ND	mg/Kg	0.050						
Bromomethane	ND	mg/Kg	0.10						
2-Butanone	ND	mg/Kg	0.50						
Carbon disulfide	ND	mg/Kg	0.50						
Carbon tetrachloride	ND	mg/Kg	0.10						
Chlorobenzene	ND	mg/Kg	0.050						
Chloroethane	ND	mg/Kg	0.10						
Chloroform	ND	mg/Kg	0.050						
Chloromethane	ND	mg/Kg	0.050						
2-Chlorotoluene	ND	mg/Kg	0.050						
4-Chlorotoluene	ND	mg/Kg	0.050						
cis-1,2-DCE	ND	mg/Kg	0.050						
cis-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10						
Dibromochloromethane	ND	mg/Kg	0.050						
Dibromomethane	ND	mg/Kg	0.10						
1,2-Dichlorobenzene	ND	mg/Kg	0.050						
1,3-Dichlorobenzene	ND	mg/Kg	0.050						
1,4-Dichlorobenzene	ND	mg/Kg	0.050						
Dichlorodifluoromethane	ND	mg/Kg	0.050						
1,1-Dichloroethane	ND	mg/Kg	0.10						
1,1-Dichloroethene	ND	mg/Kg	0.050						
1,2-Dichloropropane	ND	mg/Kg	0.050						
1,3-Dichloropropane	ND	mg/Kg	0.050						
2,2-Dichloropropane	ND	mg/Kg	0.10						
1,1-Dichloropropene	ND	mg/Kg	0.10						
Hexachlorobutadiene	ND	mg/Kg	0.10						
2-Hexanone	ND	mg/Kg	0.50						
Isopropylbenzene	ND	mg/Kg	0.050						
4-Isopropyltoluene	ND	mg/Kg	0.050						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Upper Seep Tank 101-102 **Work Order:** 0804304

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: mb-15760		*MBLK*			Batch ID:	**15760**	Analysis Date:		5/9/2008 12:23:11 AM
4-Methyl-2-pentanone	ND	mg/Kg	0.50						
Methylene chloride	ND	mg/Kg	0.15						
n-Butylbenzene	ND	mg/Kg	0.050						
n-Propylbenzene	ND	mg/Kg	0.050						
sec-Butylbenzene	ND	mg/Kg	0.050						
Styrene	ND	mg/Kg	0.050						
tert-Butylbenzene	ND	mg/Kg	0.050						
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050						
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050						
Tetrachloroethene (PCE)	ND	mg/Kg	0.050						
trans-1,2-DCE	ND	mg/Kg	0.050						
trans-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10						
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050						
1,1,1-Trichloroethane	ND	mg/Kg	0.050						
1,1,2-Trichloroethane	ND	mg/Kg	0.050						
Trichloroethene (TCE)	ND	mg/Kg	0.050						
Trichlorofluoromethane	ND	mg/Kg	0.050						
1,2,3-Trichloropropane	ND	mg/Kg	0.10						
Vinyl chloride	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: lcs-15760		*LCS*			Batch ID:	**15760**	Analysis Date:		5/5/2008 6:51:01 PM
Benzene	1.223	mg/Kg	0.050	122	66.9	142			
Toluene	1.043	mg/Kg	0.050	102	78.4	128			
Chlorobenzene	1.017	mg/Kg	0.050	102	78.2	127			
1,1-Dichloroethene	1.198	mg/Kg	0.050	120	72.6	150			
Trichloroethene (TCE)	0.7769	mg/Kg	0.050	77.7	72.2	120			
Sample ID: lcsd-15760		*LCSD*			Batch ID:	**15760**	Analysis Date:		5/5/2008 7:26:03 PM
Benzene	1.235	mg/Kg	0.050	124	66.9	142	1.01	20	
Toluene	1.093	mg/Kg	0.050	107	78.4	128	4.70	20	
Chlorobenzene	0.9943	mg/Kg	0.050	99.4	78.2	127	2.27	20	
1,1-Dichloroethene	1.204	mg/Kg	0.050	120	72.6	150	0.513	20	
Trichloroethene (TCE)	0.7794	mg/Kg	0.050	77.9	72.2	120	0.319	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU — Date Received: 4/24/2008

Work Order Number 0804304 — Received by: AMF

Checklist completed by: [signature] Signature — 4/24/08 Date — Sample ID labels checked by: [initials] Initials

Matrix: — Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	4°	<6° C *Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Company Gallup
Address: Rt 3 Box 7 Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 505 722 0210
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush
Project Name: Upper Seep Tanks 101-102
Project #:
Project Manager: Ed Riege
Sampler: Stanley Morris
On Ice: ☒ Yes ☐ No
Sample Temperature: 4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0804304	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	RCRA Metals TCLP				Air Bubbles (Y or N)
4/23/08	0900	Upper Seep Sludge			-1			X							X		X				

Date:	Time:	Relinquished by:	Received by:	
4/24/08	1200			4/24/08 2:10
Date:	Time:	Relinquished by:	Received by:	

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, January 05, 2009

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: OCD Landfarms Soil Samples December 2008

Order No.: 0812512

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 12/24/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

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

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc. **Date:** *05-Jan-09*

CLIENT: Western Refining Southwest, Gallup
Project: OCD Landfarms Soil Samples December 2008
Lab Order: 0812512

CASE NARRATIVE

Analytical Comments for METHOD 8015DRO_S, SAMPLE 0812512-09A: DNOP not recovered due to dilution Analytical Comments for METHOD 8015DRO_S, SAMPLE 0812512-10A: DNOP not recovered due to dilution Analytical Comments for METHOD 8015GRO_S, SAMPLE 0812512-10A: dilution necessary for foamy nature of sample

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central LF Cell 29
Lab Order:	0812512	**Collection Date:**	12/22/2008 9:00:00 AM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/30/2008
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2008
Surr: DNOP	93.4	61.7-135		%REC	1	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/1/2009 1:49:22 AM
Surr: BFB	91.3	58.8-123		%REC	1	1/1/2009 1:49:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/1/2009 1:49:22 AM
Benzene	ND	0.050		mg/Kg	1	1/1/2009 1:49:22 AM
Toluene	ND	0.050		mg/Kg	1	1/1/2009 1:49:22 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/1/2009 1:49:22 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/1/2009 1:49:22 AM
Surr: 4-Bromofluorobenzene	93.7	66.8-139		%REC	1	1/1/2009 1:49:22 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	440	3.0		mg/Kg	10	12/31/2008 7:08:16 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central LF Cell 91
Lab Order:	0812512	**Collection Date:**	12/22/2008 9:45:00 AM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/30/2008
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2008
Surr: DNOP	93.9	61.7-135		%REC	1	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/1/2009 2:19:39 AM
Surr: BFB	85.9	58.8-123		%REC	1	1/1/2009 2:19:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/1/2009 2:19:39 AM
Benzene	ND	0.050		mg/Kg	1	1/1/2009 2:19:39 AM
Toluene	ND	0.050		mg/Kg	1	1/1/2009 2:19:39 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/1/2009 2:19:39 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/1/2009 2:19:39 AM
Surr: 4-Bromofluorobenzene	85.4	66.8-139		%REC	1	1/1/2009 2:19:39 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	1900	6.0		mg/Kg	20	12/31/2008 7:25:41 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central LF Cell 94
Lab Order:	0812512	**Collection Date:**	12/22/2008 10:30:00 AM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/30/2008
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2008
Surr: DNOP	95.8	61.7-135		%REC	1	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/1/2009 6:22:10 AM
Surr: BFB	87.2	58.8-123		%REC	1	1/1/2009 6:22:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/1/2009 6:22:10 AM
Benzene	ND	0.050		mg/Kg	1	1/1/2009 6:22:10 AM
Toluene	ND	0.050		mg/Kg	1	1/1/2009 6:22:10 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/1/2009 6:22:10 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/1/2009 6:22:10 AM
Surr: 4-Bromofluorobenzene	88.2	66.8-139		%REC	1	1/1/2009 6:22:10 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	190	3.0		mg/Kg	10	12/30/2008 3:26:58 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central LF Cell 110
Lab Order:	0812512	**Collection Date:**	12/22/2008 11:30:00 AM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/30/2008
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2008
Surr: DNOP	96.9	61.7-135		%REC	1	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/1/2009 6:52:25 AM
Surr: BFB	89.5	58.8-123		%REC	1	1/1/2009 6:52:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/1/2009 6:52:25 AM
Benzene	ND	0.050		mg/Kg	1	1/1/2009 6:52:25 AM
Toluene	ND	0.050		mg/Kg	1	1/1/2009 6:52:25 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/1/2009 6:52:25 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/1/2009 6:52:25 AM
Surr: 4-Bromofluorobenzene	90.2	66.8-139		%REC	1	1/1/2009 6:52:25 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	650	3.0		mg/Kg	10	12/31/2008 7:43:05 PM

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NE-LF Cell 25
Lab Order:	0812512	**Collection Date:**	12/23/2008 9:00:00 AM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/30/2008
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2008
Surr: DNOP	81.0	61.7-135		%REC	1	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/1/2009 7:22:43 AM
Surr: BFB	85.5	58.8-123		%REC	1	1/1/2009 7:22:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/1/2009 7:22:43 AM
Benzene	ND	0.050		mg/Kg	1	1/1/2009 7:22:43 AM
Toluene	ND	0.050		mg/Kg	1	1/1/2009 7:22:43 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/1/2009 7:22:43 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/1/2009 7:22:43 AM
Surr: 4-Bromofluorobenzene	84.4	66.8-139		%REC	1	1/1/2009 7:22:43 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	67	3.0		mg/Kg	10	12/30/2008 4:36:37 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NE-LF Cell 58
Lab Order:	0812512	**Collection Date:**	12/23/2008 9:30:00 AM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/30/2008
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2008
Surr: DNOP	95.0	61.7-135		%REC	1	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/1/2009 7:53:06 AM
Surr: BFB	84.2	58.8-123		%REC	1	1/1/2009 7:53:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/1/2009 7:53:06 AM
Benzene	ND	0.050		mg/Kg	1	1/1/2009 7:53:06 AM
Toluene	ND	0.050		mg/Kg	1	1/1/2009 7:53:06 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/1/2009 7:53:06 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/1/2009 7:53:06 AM
Surr: 4-Bromofluorobenzene	83.1	66.8-139		%REC	1	1/1/2009 7:53:06 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	110	0.30		mg/Kg	1	12/30/2008 4:54:02 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NE-LF Cell 113
Lab Order:	0812512	**Collection Date:**	12/23/2008 10:00:00 AM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/30/2008
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2008
Surr: DNOP	74.0	61.7-135		%REC	1	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/1/2009 8:23:40 AM
Surr: BFB	80.3	58.8-123		%REC	1	1/1/2009 8:23:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/1/2009 8:23:40 AM
Benzene	ND	0.050		mg/Kg	1	1/1/2009 8:23:40 AM
Toluene	ND	0.050		mg/Kg	1	1/1/2009 8:23:40 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/1/2009 8:23:40 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/1/2009 8:23:40 AM
Surr: 4-Bromofluorobenzene	77.6	66.8-139		%REC	1	1/1/2009 8:23:40 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	86	3.0		mg/Kg	10	12/30/2008 5:11:26 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NE-LF Cell 148
Lab Order:	0812512	**Collection Date:**	12/23/2008 10:30:00 AM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/30/2008
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2008
Surr: DNOP	94.5	61.7-135		%REC	1	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/1/2009 8:54:01 AM
Surr: BFB	82.1	58.8-123		%REC	1	1/1/2009 8:54:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/1/2009 8:54:01 AM
Benzene	ND	0.050		mg/Kg	1	1/1/2009 8:54:01 AM
Toluene	ND	0.050		mg/Kg	1	1/1/2009 8:54:01 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/1/2009 8:54:01 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/1/2009 8:54:01 AM
Surr: 4-Bromofluorobenzene	80.1	66.8-139		%REC	1	1/1/2009 8:54:01 AM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	140	3.0		mg/Kg	10	12/31/2008 8:00:30 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NE-TZ
Lab Order:	0812512	**Collection Date:**	12/23/2008 1:30:00 PM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	76	10		mg/Kg	1	1/5/2009
Motor Oil Range Organics (MRO)	64	50		mg/Kg	1	1/5/2009
Surr: DNOP	99.6	61.7-135		%REC	1	1/5/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/2/2009 12:43:30 PM
Surr: BFB	87.1	58.8-123		%REC	1	1/2/2009 12:43:30 PM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	280	3.0		mg/Kg	10	12/31/2008 8:17:55 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Jan-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central TZ
Lab Order:	0812512	**Collection Date:**	12/23/2008 2:30:00 PM
Project:	OCD Landfarms Soil Samples December 2008	**Date Received:**	12/24/2008
Lab ID:	0812512-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	3400	500		mg/Kg	50	12/30/2008
Motor Oil Range Organics (MRO)	ND	2500		mg/Kg	50	12/30/2008
Surr: DNOP	0	61.7-135	S	%REC	50	12/30/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	1/2/2009 1:13:56 PM
Surr: BFB	88.5	58.8-123		%REC	2	1/2/2009 1:13:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	220	3.0		mg/Kg	10	12/31/2008 8:35:19 PM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms Soil Samples December 2008 **Work Order:** 0812512

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions									
Sample ID: MB-17971		*MBLK*			Batch ID: 17971		Analysis Date: 12/30/2008 1:25:06 PM		
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-17971		*LCS*			Batch ID: 17971		Analysis Date: 12/30/2008 1:42:30 PM		
Chloride	15.29	mg/Kg	0.30	102	90	110			
Method: EPA Method 8015B: Diesel Range Organics									
Sample ID: MB-17952		*MBLK*			Batch ID: 17952		Analysis Date: 12/30/2008		
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-17952		*LCS*			Batch ID: 17952		Analysis Date: 12/30/2008		
Diesel Range Organics (DRO)	43.27	mg/Kg	10	86.5	64.6	116			
Sample ID: LCSD-17952		*LCSD*			Batch ID: 17952		Analysis Date: 12/30/2008		
Diesel Range Organics (DRO)	43.19	mg/Kg	10	86.4	64.6	116	0.192	17.4	
Method: EPA Method 8015B: Gasoline Range									
Sample ID: MB-17946		*MBLK*			Batch ID: 17946		Analysis Date: 12/31/2008 7:14:09 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Method: EPA Method 8021B: Volatiles									
Sample ID: 0812512-05A MSD		*MSD*			Batch ID: 17946		Analysis Date: 1/1/2009 3:20:22 AM		
Methyl tert-butyl ether (MTBE)	0.9938	mg/Kg	0.10	99.4	67.9	135	0.504	28	
Benzene	0.9089	mg/Kg	0.050	90.9	78.8	132	3.00	27	
Toluene	1.028	mg/Kg	0.050	103	78.9	112	3.45	19	
Ethylbenzene	1.074	mg/Kg	0.050	107	69.3	125	4.00	10	
Xylenes, Total	3.213	mg/Kg	0.10	107	73	128	5.08	13	
Sample ID: MB-17946		*MBLK*			Batch ID: 17946		Analysis Date: 12/31/2008 7:14:09 PM		
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10						
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: 0812512-05A MS		*MS*			Batch ID: 17946		Analysis Date: 1/1/2009 2:49:58 AM		
Methyl tert-butyl ether (MTBE)	0.9888	mg/Kg	0.10	98.9	67.9	135			
Benzene	0.8820	mg/Kg	0.050	88.2	78.8	132			
Toluene	0.9935	mg/Kg	0.050	99.4	78.9	112			
Ethylbenzene	1.032	mg/Kg	0.050	103	69.3	125			
Xylenes, Total	3.054	mg/Kg	0.10	102	73	128			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU | Date Received: 12/24/2008

Work Order Number 0812512 | Received by: AT

Checklist completed by: _____ 12/24/08 | Sample ID labels checked by: _____

Signature | Date | Initials

Matrix: | Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted	☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	3°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Company - Gallup

Mailing Address: Route 3 Box 7 Gallup, NM 87301

Phone #: 505 722 5833

email or Fax#: 505 722 0210

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: OCD Landfarms Soil Samples December 2008

Project #:

Project Manager: Gamaa Rajen

Sampler: Steve Morris

On Ice: ☒ Yes ☐ No

Sample Temperature: 2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 812512	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
12-22-08	0900	Soil	Central LF Cell 29			-1	X		X					X								
"	0945	"	Central LF Cell 91			-2	X		X					X								
"	1030	"	Central LF Cell 94			-3	X		X					X								
"	1130	"	Central LF Cell 110			-4	X		X					X								
12-23-08	0900	"	NE-LF Cell 25			-5	X		X					X								
"	0930	"	NE-LF Cell 58			-6	X		X					X								
"	1000	"	NE-LF Cell 113			-7	X		X					X								
"	1030	"	NE-LF Cell 148			-8	X		X					X								
"	1330	"	NE-TZ			-9			X					X								
"	1430	"	Central TZ			-10			X					X								

Date:	Time:	Relinquished by:	Received by:	Date	Time
12-24-08	0930			12/24/08	0930
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Date 12-30-08

WESTERN REFINING COMPANY

BUNDLE CLEANING PAD

COMPLIANCE CHECKLIST

GENERAL REQUIREMENTS:

1. Has the generator initiated a hazardous waste determination. **YES NO** (**NO WASTE**)

   COMMENTS: _____

2. WASTE TYPES: **D F K P U** (**NO WASTE**)

   COMMENTS: _____

3. Are containers in good condition? **YES NO** (**NO WASTE**)

   COMMENTS: _____

4. Is waste compatible with containers? **YES NO** (**NO WASTE**)

   COMMENTS: _____

5. Are hazardous waste containers marked with the words "HAZARDOUS WASTE"?

   YES NO (**NO WASTE**)

   COMMENTS: _____

6. Is there an accumulation start date on every container in the <90 day storage area?

   YES NO (**NO WASTE**)

   If yes, complete the following table:

13. Is the <90 day storage area inspected weekly? **YES** **NO**

COMMENTS: _____

_____

14. Are the <90 day storage area signs and danger signs prominently posted and visible?

YES **NO**

COMMENTS: _____

_____

15. Is there spill control equipment, emergency equipment, communication equipment, and decontamination equipment at the <90 day storage area? **YES** **NO**

LIST EQUIPMENT ON SITE: _____

_____

16. Is there adequate aisle space between containers in the <90 days storage are?

YES **NO** **NO WASTE**

COMMENTS: _____

_____

17. Have the operators/inspectors for the <90 storage area completed and are they up-to-date on the required training? **YES** **NO**

COMMENTS: _____

_____

18. Copy of the Contingency Plan located at main office.

19. COMMENTS: _____

_____

_____

Alvin Dorsey
Inspector's Signature

12-30-08
Date of Inspection

Container I.D. Number:	Accumulation Start Date	Type of Waste

COMMENTS: _____

_____

_____

7. Has the waste exceeded 90 days? **YES** **NO** **NO WASTE**

COMMENTS: _____

_____

8. Are constituents of waste on containers or log sheets? **YES NO** **NO WASTE**

COMMENTS: _____

_____

9. Are containers closed? **YES** **NO** **NO WASTE**

COMMENTS:

_____

10. Has there been any hazardous waste spills or leaks? **YES NO** **NO WASTE**

If yes, explain: _____

_____

11. If storage area is outside, is the waste in a dry, sheltered area and on pallets or similar devices so that they are off the ground? **YES** **NO** **NO WASTE**

COMMENTS: _____

_____

12. Is the storage area free of obstacles and deterioration? **YES NO** **NO WASTE**

COMMENTS: _____

_____

BUNDLE CLEANING PAD

Fire Extinguisher Inspection Form

Date of Inspection:	12-30-08
Inspector's Name:	**Signature:** [signature] ALVIN DORSEY
Annual Compliance Date:	10/08
Physical Condition: **(signs of leakage?)**	GOOD NONE
Rack Condition:	Good
Unit: (circle one)	**(Full)** **Empty**
Fire Extinguisher#: A-30-E	

Date: 12-30-08

WESTERN REFINING COMPANY
90 DAY RCRA STORAGE AREA
COMPLIANCE CHECKLIST

GENERAL REQUIREMENTS:

1. Has the generator initiated a hazardous waste determination. (YES) NO NO WASTE

   COMMENTS: _____

2. WASTE TYPES: D (F) K P U NO WASTE

   COMMENTS: _____

3. Are containers in good condition? (YES) NO NO WASTE

   COMMENTS: _____

4. Is waste compatible with containers? (YES) NO NO WASTE

   COMMENTS: _____

5. Are hazardous waste containers marked with the words "**HAZARDOUS WASTE**"?

   (YES) NO NO WASTE

   COMMENTS: _____

6. Is there an accumulation start date on every container in the <90 day storage area?

   (YES) NO NO WASTE

   If yes, complete the following table:

EPA WASTE ID	QTY	ACCUMULATION START DATE	CONSTITUENTS/TYPE OF WASTE

COMMENTS: _____

_____

_____

7. Has the waste exceeded 90 days? **YES** **NO** **NO WASTE**

COMMENTS: _____

_____

8. Are constituents of waste on containers or log sheets? **YES** **NO** **NO WASTE**

COMMENTS: _____

_____

9. Are containers closed? **YES** **NO** **NO WASTE**

COMMENTS: _____

_____

10. Has there been any hazardous waste spills or leaks? **YES** **NO** **NO WASTE**

If yes, explain: _____

_____

11. If storage area is outside, is the waste in a dry, sheltered area and on pallets or similar devices so that they are off the ground? **YES** **NO** **NO WASTE**

COMMENTS: _____

_____

12. Is the storage area free of obstacles and deterioration? **YES** **NO** **NO WASTE**

COMMENTS: _____

_____

13. Is the <90 day storage area inspected weekly? **YES** **NO**

COMMENTS: _____

_____

14. Are the <90 day storage area signs and danger signs prominently posted and visible?

YES **NO**

COMMENTS: _____

_____

15. Is there spill control equipment, emergency equipment, communication equipment, and decontamination equipment at the <90 day storage area? **YES** **NO**

LIST EQUIPMENT ON SITE: _____

_____

16. Is there adequate aisle space between containers in the <90 days storage are?

YES **NO** **NO WASTE**

COMMENTS: _____

_____

17. Have the operators/inspectors for the <90 storage area completed and are they up-to-date on the required training? **YES** **NO**

COMMENTS: _____

_____

18. Copy of the Contingency Plan located at main office.

19. **COMMENTS:** _____

_____

Alvin Dorsey /alm

Inspector's Signature

12-30-08

Date of Inspection

Western Refining- 90 Day Storage Area

Fire Extinguisher Inspection Form

Date of Inspection:	12-30-08
Inspector's Name:	**Signature:** Alvin Dorsey
Annual Compliance Date:	10/08
Physical Condition: (signs of leakage?)	Good
Rack Condition:	Good
Unit: (circle one)	**(Full)** **Empty**
Fire Extinguisher#: A20-E	

Major Refinery Activities and Events

Major Refinery
Activities and Events

Appendix E Major Refinery Activities and Events

Year-round (or across several months)

- The Gallup Refinery continued to make progress on finding sources of high H2S to the flare. A high-level working group was set up from within refinery managers and engineers. A methodical survey of all by-pass and relief valves on acid gas lines was undertaken. A major breakthrough occurred when calculations and tests established that liquids in certain process drums were releasing high levels of H2S. Earlier efforts had focused on gas lines. In 2009, various steps are under consideration and implementation to scrub the vapors emanating from such liquids.

- Extensive repair and maintenance work was undertaken on all ponds, dikes, and access roads to refurbish and strengthen these earthen structures. Copies of documents describing these efforts are attached to this Appendix.

- All sampling and air quality permit-related issues were completed – e.g. studies of benzene releases from the end-of-line of various processes; greenhouse gas emissions inventories, etc.

Monthly activities:

January
No major environmental activities. The refinery went through a short shut down and turn-around and conducted repairs and maintenance of major equipment and process lines that cannot normally be accessed when continuous operations are underway.

February
NMED reviewed the Railroad Rack Lagoon Fan-out Area Sold Waste Management Unit #8 investigation report.

March
No major activities

April
Investigation of sludge in aeration lagoons and ponds was undertaken. NMED completed review of evaporation ponds' closure plan. Surface water spill prevention and control training completed by 12 refinery personnel

May
Pilot study of a Membrane Bioreactor for wastewater treatment initiated.

June
No major activities.

July
No major activities.

August
Pilot study of Membrane Bioreactor completed.

September
2007 Groundwater Monitoring report submitted to NMED and OCD.

October
Ponds, dikes, and access roads repair and maintenance work completed.

November
WWTS process design work initiated.

December
Land Farm annual sampling completed. No releases to the subsurface were detected.

Purchase Order Details Report

Completed

DOCUMENT#: C20396

Vendor: FUHS TRU

Date of Issue: 9/2/2008

Requested Delivery Date:

Purchasing Agent: MMCKINN

Payment Terms: NET

Freight Terms:

Ship Via:

F.O.B.:

Vendor:

FUHS TRUCKING CO.
PO BOX 630
GALLUP, NM 87305
Phone: 505-722-6909
Fax: 505-722-7323
Attention: DENNIS FUHS

Ship To:

WESTERN REFINING SOUTHWEST, INC.
I-40 EXIT 39; 17 MILES EAST OF GALLUP
GALLUP, NM87301

Attention: EDRIEGE

Line #	Qty	Units	Item #	Description	Tax	Unit Cost	Loaded Cost
1	1	EA		BERM REPAIR AND RIP RAP @ NORTH BERM OF POND # 6 GL#: 2084060.5302.05	$1,742.04	$26,295.00	$28,037.04
2	1	EA		REPAIR BERM ANDE RIP RAP BETWEEN POND 5 & 6 GL#: 2084060.5302.05	$384.25	$5,800.00	$6,184.25
3	1	EA		REPAIR SE CORNER OF POND # 6 GL#: 2084060.5302.05	$225.25	$3,400.00	$3,625.25
4	1	EA		REPAIR NORTH SIDE OF POND # 5 GL#: 2084060.5302.05	$360.00	$7,200.00	$7,560.00
5	1	EA		REPAIR EROSION AND WEST BERM AT POND # 8, GRADE AND ROLL GL#: 2084060.5302.05	$430.63	$6,500.00	$6,930.63
6	1	EA		MOBILIZE AND DEMOBILIZE GL#: 2084060.5302.05	$198.75	$3,000.00	$3,198.75
7	1	EA		BREAK AND SCREEN MATERIAL FOR RIP RAP AND ROAD USE. GL#: 2084020.5341.99	$3,345.63	$50,500.00	$53,845.63

Page 1 of 2

Printed by: September 02, 2008

C20396

Purchase Order Details Report

DOCUMENT#: C20396

PO Total Cost: $109,381.54

This order is subject to Western Refining Terms and Conditions and any additional supplemental conditions attached.

Western Representative: Michelle Young Date: 9-4-08

Supplier's Acceptance: _____ Date: _____

Western Refining Company

MATERIAL REQUISITION
NOT A PURCHASE ORDER

SUGGESTED VENDORS
1. Fuhs Trucking Co Inc
2. Dennis Fuhs
3.

No.
Date: 8-26-08
PURCHASE ORDER NUMBER: 6-20396

QTY.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
1		#1 Berm repair + riprap @ North berm of Pond #6		26,295
1		#2 Repair berm + riprap between Pond 5 + 6		5800
1		#3 Repair SE corner of Pond #6		3400
1		#4 Repair North side Pond #5		7200
1		#5 Repair erosion + West berm Pond #2, grade + Roll		6500
1		Mobilize and De Mobilize		3000
1		#6 Brect + screen material for riprap + Road use $59,500 2084020		35350
				15150
		TOTAL =		$0.00

NOTE: GIVE FULL DESCRIPTION OF ITEM, INDICATE PART NUMBER, CATALOG NUMBER, BRAND NAME, MODEL AND SERIAL NUMBER.

REQUESTED BY: Ed Riggs Michelle Young DELIVER TO:

ACCOUNTING No./UNIT No.: 208-4060 2084020 FOR USE AT:

APPROVED BY: Ed Riggs Michelle Young PROJECT No.:

HAVE YOU CHECKED THIS REQUISITION FOR REAL NEED? NO LATER THAN DATE:

FUHS TRUCKING CO. INC.
EQUIPMENT & EXCAVATION

FLATS • DUMPS • BELLY DUMPS • EXCAVATORS.
DOZERS • LOADERS 3 YD. TO 8 YD. • BACKHOES
SCRAPERS • MOTOR GRADERS
P.O. BOX 630 - GALLUP, N.M. 87305

DENNIS FUHS
OWNER

Work: (505) 722-6909
Home: (505) 722-5348
FAX: (505) 722-7323

August 22, 2008

Item # 2.
Repair berm & rip-rap between Pond # 5 & # 6
Import from Pit near well; place & machine compact 4000.00
Import & place rip-rap 1800.00

Total: $5800.00

Item # 3.
Repair SE corner of Pond # 6.
Import fill, place & machine compact 3400.00
Total: $3400.00

Item # 4.
Repair Northside Pond # 5. 7200.00

Total: $7200.00

Item # 5.
Repair erosion & West berm Pond # 8; grade & roll 6500.00

Total: $6500.00

Item # 2, 3, 4, & 5
Mobilize & de-mobilize $3000.00 (for any (1) or for all of them)
All import material from Well Pit.
Rip-rap done if Item # 6 is accepted.
Any applicable sales tax is NOT included in these price quotes.

Should you have any questions, please call me.

Sincerely,

Dennis Fuhs
Fuhs Trucking Co., Inc.
P.O. Box 630
Gallup, NM 87305-0630

FUHS TRUCKING CO. INC.
EQUIPMENT & EXCAVATION

FLATS • DUMPS • BELLY DUMPS • EXCAVATORS
DOZERS • LOADERS 3 YD. TO 8 YD. • BACKHOES
SCRAPERS • MOTOR GRADERS
P.O. BOX 630 - GALLUP, N.M. 87305

DENNIS FUHS
OWNER

Work: (505) 722-6909
Home: (505) 722-5348
FAX: (505) 722-7323

August 22, 2008

Item # 6.

Making usable material out of waste concrete & asphalt.

I would estimate the total material to be between 10,000 & 11,000 cy.

With a breaker & Screen-All 80 to 90% of this material could be recovered and used at the plant & ponds.
The concrete sized to 3' or less any dimension will be used as rip-rap.
Gravel & asphalt screened to a size of 3" minus and will be a low grade base course.
3" + asphalt used as a heavy base course on less used Roadways.

All materials would be stockpiled where they now exist.

Cost: $45,000.00
Mobilize & de-mobilize $2000.00
Operator travel, set-up & service. $3500.00

Total: $50,500.00

FUHS TRUCKING CO. INC.
EQUIPMENT & EXCAVATION

FLATS • DUMPS • BELLY DUMPS • EXCAVATORS
DOZERS • LOADERS 3 YD. TO 8 YD. • BACKHOES
SCRAPERS • MOTOR GRADERS
P.O. BOX 630 - GALLUP, N.M. 87305

DENNIS FUHS
OWNER

Work: (505) 722-6909
Home: (505) 722-5348
FAX: (505) 722-7323

August 22, 2008

To: Ed Riege
Western Refining

Subject: Price quotes for work @ Refinery

#1.

Berm repair & rip-rap @ North berm of Pond # 6. 1000 LF + or -	
Import dirt 1185 cy (+ or -)	16595.00
Haul & place rip-rap 600 cy (+ or -)	4800.00
Operator travel, set-up & service	2500.00
Mobilize & de-mobilize (6) machines @ 400.00 each	2400.00

TOTAL: $26,295.00

FUHS TRUCKING CO. INC.
EQUIPMENT & EXCAVATION

FLATS • DUMPS • BELLY DUMPS • EXCAVATORS
DOZERS • LOADERS 3 YD. TO 8 YD. • BACKHOES
SCRAPERS • MOTOR GRADERS
P.O. BOX 630 - GALLUP, N.M. 87305

DENIS FUHS
OWNER

Work: (505) 722-6909
Home: (505) 722-5348
FAX: (505) 722-7323

August 22, 2008

To: Ed Riege
Western Refining

Subject: Price quotes for work @ Refinery

#1.

Berm repair & rip-rap @ North berm of Pond # 6. 1000 LF + or -	
Import dirt 1185 cy (+ or -)	16595.00
Haul & place rip-rap 600 cy (+ or -)	4800.00
Operator travel, set-up & service	2500.00
Mobilize & de-mobilize (6) machines @ 400.00 each	2400.00

TOTAL: $26,295.00

Western Refining

Gallup Refinery
Purchasing Department

PLEASE NOTE THAT ALL PURCHASE ORDERS NOW REQUIRE A CONFIRMATION BE SENT BACK TO ME AT THE FAX OR EMAIL ADDRESS LISTED BELOW.

Date: 09-02-08

Time: 1100

To: FUH's TRUCKING Co

Number: 1-505-722-7323

From: Mack McKinney – Buyer
Phone: (505) 722-0237
Fax: (505) 722-0268
Email: mack.mckinney@wnr.com

Subject: P.O.

____ Pages are included in this transmission

Here is a copy of your P.O.

Thanks
Mack

30380

Invoice

FUHS TRUCKING CO., INC.
PO Box 630
2210 Lance Street
GALLUP, NM 87305-0613

RECEIVED
OCT 17 2008
BY:

Customer No.: 018
Invoice No.: 96

Bill To: **Western Refining**
Route 3 - Box 7
Gallup, NM 87301

Ship To: **Document # C20396**

Date	Ship Via	F.O.B.	Terms
10/16/08			Net 30

Purchase Order Number	Order Date	Sales Person	Our Order Number
	10/16/08		

Quantity Required	Quantity Shipped	B.O.	Item Number	Description	Unit Price	Amount
1	1			Berm repair & rip-rap @ North berm of Pond # 6	26295.00	26295.00
1	1			Repair berm & rip-rap between Pond # 5 & Pond # 6	5800.00	5800.00
1	1			Repair SE corner of Pond # 6	3400.00	3400.00
1	1			Repair Northside of Pond # 5	7200.00	7200.00
1	1			Repair erosion & West berm @ Pond # 8	6500.00	6500.00
1	1			Mobilize & de-mobilize	3000.00	3000.00
1	1			Break & screen material for rip-rap and road use. 4020	50500.00	50500.00

Invoice subtotal	102695.00
Sales tax @ 6.625%	6803.54
Invoice total	109498.54

We appreciate your business!

POSTED

C/C	A/C	AMOUNT	PO / RE
20 84060	0.5302.05	55,652.91	
20 84020	5172.15	53,845.63	
			C20396
Date Paid			

Thank You

FUHS TRUCKING CO. INC.
EQUIPMENT & EXCAVATION

FLATS • DUMPS • BELLY DUMPS • EXCAVATORS
DOZERS • LOADERS 3 YD. TO 8 YD. • BACKHOES
SCRAPERS • MOTOR GRADERS
P.O. BOX 630 - GALLUP, N.M. 87305

DENNIS FUHS
OWNER

Work: (505) 722-6909
Home: (505) 722-5348
FAX: (505) 722-7323

August 22, 2008

To: Ed Riege
Western Refining

Subject: Price quotes for work @ Refinery

#1.

Berm repair & rip-rap @ North berm of Pond # 6. 1000 LF +-or -	
Import dirt 1185 cy (+ or -)	16595.00
Haul & place rip-rap 600 cy (+ or -)	4800.00
Operator travel, set-up & service	2500.00
Mobilize & de-mobilize (6) machines @ 400.00 each	2400.00

TOTAL: $26,295.00

FUHS TRUCKING CO. INC.
EQUIPMENT & EXCAVATION

FLATS • DUMPS • BELLY DUMPS • EXCAVATORS
DOZERS • LOADERS 3 YD. TO 8 YD. • BACKHOES
SCRAPERS • MOTOR GRADERS
P.O. BOX 630 - GALLUP, N.M. 87305

DENNIS FUHS
OWNER

Work: (505) 722-6909
Home: (505) 722-5348
FAX: (505) 722-7323

August 22, 2008

Item # 2.
Repair berm & rip-rap between Pond # 5 & # 6
Import from Pit near well; place & machine compact 4000.00
Import & place rip-rap 1800.00

Total: $5800.00

Item # 3.
Repair SE corner of Pond # 6.
Import fill, place & machine compact 3400.00
Total: $3400.00

Item # 4.
Repair Northside Pond # 5. 7200.00

Total: $7200.00

Item # 5.
Repair erosion & West berm Pond # 8; grade & roll 6500.00

Total: $6500.00

Item # 2, 3, 4, & 5
Mobilize & de-mobilize $3000.00 (for any (1) or for all of them)
All import material from Well Pit.
Rip-rap done if Item # 6 is accepted.
Any applicable sales tax is NOT included in these price quotes.

Should you have any questions, please call me.

Sincerely,

Dennis Fuhs
Fuhs Trucking Co., Inc.
P.O. Box 630
Gallup, NM 87305-0630

FUHS TRUCKING CO. INC.
EQUIPMENT & EXCAVATION

FLATS • DUMPS • BELLY DUMPS • EXCAVATORS
DOZERS • LOADERS 3 YD. TO 8 YD. • BACKHOES
SCRAPERS • MOTOR GRADERS
P.O. BOX 630 - GALLUP, N.M. 87305

DENNIS FUHS
OWNER

Work: (505) 722-6909
Home: (505) 722-5348
FAX: (505) 722-7323

August 22, 2008

Item # 6.

Making usable material out of waste concrete & asphalt.

I would estimate the total material to be between 10,000 & 11,000 cy.

With a breaker & Screen-All 80 to 90% of this material could be recovered and used at the plant & ponds.
The concrete sized to 3' or less any dimension will be used as rip-rap.
Gravel & asphalt screened to a size of 3" minus and will be a low grade base course.
3" + asphalt used as a heavy base course on less used Roadways.

All materials would be stockpiled where they now exist.

Cost: $45,000.00
Mobilize & de-mobilize $2000.00
Operator travel, set-up & service. $3500.00

Total: $50,500.00

LET'S DISCUSS
THX -
JAMES

FUHS LIST

- Rip rap and berm repair on north side of pond six.
- Repair, and rip rap at pipe between ponds five and six.
- Fill in low place on southeast corner of pond six.
- Repair and compact berm on north side of pond five.
- Grade and add fill dirt on west side of pond eight as needed.
- Look at rip rap pile and ask if what is needed for Environmental (pond) projects. Also can he crush to less than 2" on remaining rip rap in pile for road base.

Summary of Wastewater Treated and Water Balance

2008 WASTE WATER BALANCE

PONDS	GALLONS/ YR	
Discharged to Ponds (measured at V notch)	128,568,665	
RAINFALL TO PONDS	24,485,522	
TOTAL TO PONDS	153,054,187	
POND EVAPORATION	144,149,972	
SNOW MACHINES EVAPORATION	5,188,800	
WATER SOLD	0.00	
TOTAL ADDED TO PONDS 2008	3,715,415	
TOTAL INCREASE IN AVERAGE POND DEPTH	~1 inch	
TOTAL BALANCE IN PONDS 2008	3,715,415	

2008 WASTE WATER SUMMARY

DATE	TOTAL FLOW TO PONDS			RAIN GAUGE INCHES	FREEBOARD AT PONDS										
					2	3	4	5	6	8	7	11	12a	12b	9
	TEMP	90 DEGREE V NOTCH "INCHES"	FLOW GPM		feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet
1/2/2008	38	6	193		1.5	1.25	1.33	1	OM	BM	3.5	2	BM	1.17	1.42
1/3/2008	36	5	123		1.5	1.25	1.33	1	OM	BM	3.5	2	BM	1.17	1.42
1/4/2008	35	5	123		1.5	1.25	1.33	1	OM	BM	3.5	2	BM	1.17	1.42
1/7/2008	35	6	193	0.05	1.42	1.25	1.33	1	OM	BM	3.5	2	BM	1.17	1.42
1/8/2008	34	6	193		1.42	1.25	1.33	1	OM	BM	3.5	2	BM	1.17	1.42
1/10/2008	34	5	123		1.42	1.25	1.33	1	OM	BM	3.5	2	BM	1.17	1.42
1/14/2008	34	7	284		1.42	1.25	1.33	1	OM	BM	3.5	2	BM	1.25	1
1/15/2008	34	5	123		1.42	1.25	1.33	1	OM	BM	3.5	2	BM	1.25	1
1/16/2008	33	5	123		1.42	1.25	1.25	1	OM	BM	3.5	2	BM	1.25	1
1/17/2008	33	5	123		1.42	1.25	1.25	11	OM	BM	3.5	2	BM	1.25	1
1/21/2008	36	6	193		1.42	1.25	1.33	1	OM	BM	3.5	2	BM	1.17	1
1/22/2008	36	6	193		1.42	1.25	1.33	1	OM	BM	3.5	2	BM	1.17	1
1/23/2008	35	6	193		1.42	1.25	1.33	1	OM	BM	3.33	2	BM	1.17	1
1/24/2008	34	5	123		1.42	1.25	1.33	1	OM	BM	3.33	2	BM	1.17	1
1/28/2008	33	6	193	1	1.42	1.25	1.25	1	OM	BM	3.33	2	BM	1.17	1
1/29/2008	34	6	193	1	1.42	1.17	1.17	1	OM	BM	3.25	2	2.5	1.17	1
1/30/2008	33	5	123		1.42	1.17	1.17	1	OM	BM	3.25	2	2.5	1.17	1
1/31/2008	33	5	123		1.42	1.17	1.17	1	OM	BM	3.25	2	2.5	1.17	1
2/4/2008	33	5	123	1	1.42	1.17	1.17	1	OM	1.92	3	1.75	BM	1	0.75
2/5/2008	33	5	123		1.42	1.17	1.17	1	OM	1.92	3	1.75	BM	1	0.75
2/6/2008	34	5	123		1.42	1.17	1.17	1	OM	1.92	3	1.75	BM	1	0.75
2/7/2008	36	7	284		1.5	1.17	1.25	0.92	OM	2	3	1.33	BM	1	0.75
2/11/2008	36	7	284		1.58	1.17	1.25	0.83	OM	2	3	2	BM	1.17	0.5
2/12/2008	35	6	193		1.58	1.17	1.25	0.83	OM	2	3	2	BM	1.17	0.5
2/13/2008	35	5	123		1.58	1.17	1.25	0.83	OM	1.83	3	2	BM	1.17	0.5
2/14/2008	34	5	123		1.58	1.25	1.25	0.83	OM	1.67	3	2	BM	1.17	0.5
2/19/2008	38	6	193		1.58	1.25	1.25	0.83	OM	0.92	3	2	BM	1.17	3
2/20/2008	40	6	193		1.58	1.25	1.25	0.83	OM	0.92	3	1.83	BM	1.25	0.25
2/21/2008	40	10	694		1.5	1.25	1.25	1	OM	0.92	3	1.83	BM	1.25	0.25
2/25/2008	38	6	193	0.1	1.5	1.25	1.25	1	OM	0.75	3	2	BM	1.17	1

2/26/2008	38	See note	167		1.5	1.17	1.25	1	OM	0.75	3	2	BM	1.25	0.25
2/27/2008	38		172		1.58	1.17	1.5	1	OM	1	3	2	BM	1.33	OM
2/28/2008	38		193		1.5	1.17	1.5	1	OM	1	3	2	BM	1.33	OM
2/29/2008	39		217		1.5	1.17	1.5	1	OM	0.75	3.08	2	BM	1.5	OM
3/3/2008	35		217		1.58	1.17	1.5	1	OM	1	3	2	BM	1.33	OM
3/4/2008			217		1.5	1.17	1.5	1.08	OM	0.83	3	2	BM	1.25	OM
3/5/2008			217		1.5	1.17	1.5	1.08	OM	0.83	3.08	2	BM	1.25	OM
3/6/2008			228		1.5	1.17	1.58	1.08	OM	0.83	3.08	2	BM	1.25	OM
3/7/2008			228		1.5	1.17	1.58	1.08	OM	0.83	3.08	2	BM	1.25	OM
3/10/2008	39		205		1.5	1.17	1.42	1	OM	0.83	3.08	2	BM	1.25	OM
3/11/2008			205		1.5	1.17	1.5	1	OM	0.83	3.08	2.08	BM	1.25	OM
3/12/2008			205		1.5	1.08	1.42	1	OM	0.83	3.08	2	BM	1.25	OM
3/13/2008			205		1.5	1.08	1.42	1	OM	0.83	3.92	2	BM	1.25	OM
3/14/2008			138		1.5	1.08	1.42	1	OM	0.83	3.08	2.08	BM	1.25	BM
3/17/2008			145		1.5	1.17	1.42	1	OM	0.83	3.08	2.08	BM	1.25	OM
3/18/2008			145		1.58	1.17	1.5	0.75	OM	0.75	3	2.08	BM	1.25	OM
3/19/2008	41		138		1.58	1.17	1.5	0.75	OM	0.75	3	2.08	BM	1.25	OM
3/20/2008			133		1.58	1.17	1.5	0.75	OM	0.75	3	2.08	BM	1.25	OM
3/22/2008		6	193		1.5	1.17	1.58	0.83	OM	1	3.25	2.5	BM	1.17	OM
3/24/2008	44	9	533		1.5	1.25	1.5	0.75	OM	0.92	3.25	2.17	BM	1.17	OM
3/25/2008	44	9	533		1.5	1.25	1.5	0.75	OM	0.92	3.25	217	BM	1.25	OM
3/26/2008	44	9	533		1.5	1.08	1.33	0.75	OM	0.83	3.25	2.17	BM	1.25	OM
3/27/2008		6	193		1.5	1.17	1.58	0.83	OM	1	3.25	2.5	BM	1.17	OM
3/31/2008		6.5	236		1.5	1.25	1.5	0.83	OM	1	3.25	2.25	BM	1.17	OM
4/1/2008		6.5	236		1.58	1.08	1.5	1	OM	1	3.17	2.25	BM	1.17	OM
4/2/2008		6.5	236		1.58	1.08	1.5	1	OM	1	3.17	2.25	BM	1.17	OM
4/3/2008		7	284		1.58	1.08	1.5	1	OM	1	3.17	2.25	BM	1.17	OM
4/4/2008		6	193		1.5	1.25	1.5	0.08	OM	1.08	3.25	2.25	BM	1.17	OM
4/7/2008		6	193		1.58	1.5	1.67	0.08	OM	1.17	3	2.33	BM	1.17	OM
4/8/2008	50	6	193		1.5	1.17	1.67	0.08	OM	1.33	3	2.33	BM	1.25	OM
4/9/2008	45	6	193		1.58	1.17	1.67	0.83	OM	1.17	3	2.33	BM	1.25	OM
4/10/2008	40	6	193		1.5	1.17	1.67	0.75	OM	1.25	3.08	2.25	BM	1.17	OM
4/11/2008	41	6	193		1.5	1.33	1.75	1	OM	1.25	3.08	2.25	BM	1	OM
4/14/2008	59	6	193		1.5	1.25	1.67	1	OM	1.17	3.08	2.25	BM	1	OM
4/15/2008	57	6	193		1.5	1.25	1.58	1	OM	1.25	3.08	2.25	BM	1	OM
4/16/2008	48	6	193		1.5	1.25	1.67	1	OM	1.17	3.08	2.25	BM	1	OM
4/17/2008	50	6	193		1.58	1.25	1.67	1	OM	1.5	3.17	2.25	BM	1	OM

4/18/2008	50	6	193		1.58	1.25	1.67	1	OM	1.5	3.17	2.25	BM	1	OM
4/21/2008	50	6	193		1.5	1.33	1.5	1	OM	1.5	3	2.5	BM	1	0.08
4/22/2008	50	7	284		1.5	1.33	1.5	1	OM	1.5	3	2.5	BM	1	0.08
4/23/2008	51	7	284		1.5	1.33	1.5	1	OM	1.58	3	2.5	BM	1	0.08
4/24/2008	50	7	284		1.5	1.33	1.67	1	OM	1.58	3	2.5	BM	1	0.08
4/28/2008	50	6	193		1.5	1.25	1.5	1	OM	1.33	2.25	2.42	BM	1	0.08
4/29/2008	50	6	193		1.5	1.25	1.5	1	OM	1.33	2.25	2.42	BM	1	0.08
4/30/2008	51	7	284		1.5	1.25	1.5	1	OM	1.33	2.33	2.42	BM	1	0.08
5/1/2008	50	7	284		1.5	1.25	1.5	1	OM	1.33	2.33	2.42	BM	1	0.08
5/2/2008	51	7	284		1.5	1.25	1.5	1	OM	1.33	2.33	2.42	BM	1	0.08
5/5/2008	52	7	284		1.5	1.42	1.5	1.08	OM	1.75	3	2.75	BM	1.08	0.08
5/6/2008	51	7	284		1.5	1.42	1.5	1.08	OM	1.67	3	2.75	BM	1.08	0.08
5/7/2008	50	7	284		1.5	1.5	1.5	1.08	OM	1.17	3.08	2.33	BM	1	0.08
5/8/2008	52	7	284		1.5	1.5	1.67	1	OM	1.5	3.33	3	BM	1.17	0.08
5/9/2008	52	7	284		1.5	1.5	1.67	1	OM	1.5	3.33	3	BM	1.17	0.08
6/2/2008	60	7	284		1.33	1.5	1.67	1.17	OM	BM	BM	BM	BM	1.33	0.08
6/3/2008	60	7	284		1.33	1.5	1.67	1.17	OM	BM	BM	BM	BM	1.33	0.08
6/4/2008	55	7	284	**0.25**	1.25	1.5	1.67	1.17	OM	BM	BM	BM	BM	1.33	0.08
6/5/2008	56	7	284	**0.37**	1.25	1.5	1.67	1.17	OM	BM	BM	BM	BM	1.42	0.08
6/6/2008	60	7	284		1.33	1.5	1.67	1.17	OM	BM	BM	BM	BM	1.33	0.08
6/9/2008	50	7	284		1.5	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.33	0.08
6/10/2008	60	7	284		1.5	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.33	0.08
6/11/2008	61	7	284		1.75	1.67	1.58	1	OM	BM	BM	BM	BM	1.25	0.08
6/12/2008	61	7	284		1.75	1.67	1.58	1	OM	BM	BM	BM	BM	1.25	0.08
6/13/2008	62	7	284		1.75	1.67	1.58	1	OM	BM	BM	BM	BM	1.25	0.08
6/16/2008	60	6	193		1.75	1.67	1.67	1.08	OM	BM	BM	BM	BM	1.25	0.08
6/17/2008	61	6	193		1.75	1.67	1.67	1.08	OM	BM	BM	BM	BM	1.25	0.08
6/18/2008	61	6	193		1.75	1.67	1.67	1.08	OM	BM	BM	BM	BM	1.25	0.08
6/19/2008	62	6	193		1.75	1.67	1.67	1.08	OM	BM	BM	BM	BM	1.25	0.08
6/20/2008	62	6	193		1.75	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08
6/23/2008	61	6	193		1.75	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08
6/24/2008	61	6	193		1.75	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08
6/25/2008	61	7	284		1.08	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08
6/26/2008	65	7	284		1.83	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08
6/27/2008	70	7	284	**0.37**	1.83	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08
6/30/2008	61	6	193		1.83	1.67	1.67	1.08	OM	BM	BM	BM	BM	1.25	0.08
7/1/2008	70	7	284		1.58	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08

7/2/2008	70	7	284	**0.06**	1.58	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08
7/3/2008	70	7	284		1.58	1.67	1.67	1	OM	BM	BM	BM	BM	1.25	0.08
7/7/2008	70	7	284		1.25	1.5	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/8/2008	71	7	284		1.25	1.58	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/9/2008	71	7	284		1.25	1.58	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/10/2008	71	7	284		1.25	1.58	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/11/2008	70	7	284	**1**	1.25	1.58	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/14/2008	70	7	284	**1**	1.25	1.5	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/15/2008	70	7	284	**0.09**	1.25	1.5	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/16/2008	70	7	284		1.25	1.5	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/17/2008	70	7	284		1.25	1.5	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/18/2008	70	7	284		1.25	1.5	1.5	0.08	OM	BM	BM	BM	BM	1.17	0.08
7/21/2008	61	7	284	**0.31**	1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
7/22/2008	62	7	284	**0.7**	1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
7/23/2008	61	7	284	**0.02**	1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
7/24/2008	61	7	284	**0.02**	1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
7/25/2008	61	7	284	**0.003**	1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
7/28/2008	61	7	284	**0.009**	1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
8/4/2008	60	6.5	236	**0.008**	1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
8/5/2008	60	6.5	236		1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
8/4/2008	62	7	284		1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
8/7/2008	62	7	284		1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
8/8/2008	62	7	284		1.67	1.5	1.67	0.08	OM	BM	BM	BM	BM	1.25	0.08
8/11/2008	62	7	284	**0.03**	1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/12/2008	62	7	284		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/13/2008	62	7	284		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/14/2008	71	6.5	236		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/15/2008	71	6.5	236		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/18/2008	70	6.5	236		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/19/2008	70	6.5	236		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/20/2008	71	7	284		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/21/2008	71	7	284		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/22/2008	71	7	284		1.5	1.5	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
8/25/2008	70	7	284	**0.01**	1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.67	0.08
8/26/2008	71	7	284		1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.67	0.08
8/27/2008	71	7	284	**0.02**	1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.67	0.08
8/28/2008	71	7	284	**0.007**	1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.67	0.08

8/29/2008	70	7	284		1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.67	0.08
9/4/2008	70	7	284		1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.67	0.08
9/8/2008	68	7	284		1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.75	0.08
9/9/2008	68	7	284		1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.75	0.08
9/10/2008	69	7	284		1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.75	0.08
9/11/2008	69	7	284		1.67	1.67	1.75	1.75	OM	BM	BM	BM	BM	1.75	0.08
9/12/2008	55	7	284		1.75	1.75	1.67	1.67	OM	BM	BM	BM	BM	1.25	0.08
9/15/2008	56	7	284		1.75	1.75	1.67	1.67	OM	BM	BM	BM	BM	1.25	0.08
9/16/2008	57	7	284		1.75	1.75	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
9/17/2008	57	7	284		1.75	1.75	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
9/18/2008	46	7	284		1.75	1.75	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
9/19/2008	57	7	284		1.75	1.75	1.67	1.67	OM	BM	BM	BM	BM	1.67	0.08
9/22/2008	57	7	284		1.58	1.33	1.58	0.08	OM	2	BM	BM	BM	1.25	1.08
9/23/2008	58	7	284		1.58	1.33	1.58	1	OM	2	BM	BM	BM	1.25	1.08
9/24/2008	70	7	284		1.67	1.17	1.67	1	OM	2	BM	BM	BM	1.25	1.08
9/25/2008	70	7	284		1.67	1.17	1.67	1	OM	2	BM	BM	BM	1.25	1.08
9/26/2008	70	7	284		1.67	1.17	1.67	1	OM	2	BM	BM	BM	1.25	1.08
10/1/2008	48	6.5	236		1.75	1.17	1.67	1.08	OM	2	BM	BM	BM	1.17	1.08
10/2/2008	48	6.5	236		1.75	1.17	1.67	1.08	OM	2	BM	BM	BM	1.25	1.08
10/3/2008	49	6.5	236		1.75	1.17	1.67	1.08	OM	2	BM	BM	BM	1.25	1.17
10/4/2008	48	6.5	236		1.75	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.25	1.17
10/7/2008	48	6.5	236		1.75	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.25	1.17
10/8/2008	49	6.5	236		1.75	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.25	1.17
10/9/2008	49	6.5	236		1.75	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.25	1.25
10/10/2008	49	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.25	1.25
10/13/2008	49	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.25	1.25
10/14/2008	49	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.25	1.25
10/15/2008	49	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.25	1.25
10/16/2008	49	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.33	1.25
10/17/2008	49	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.33	1.25
10/20/2008	51	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.33	1.25
10/21/2008	51	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.33	1.25
10/22/2008	51	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.33	1.25
10/23/2008	52	6.5	236		1.83	1.17	1.67	1.08	OM	BM	BM	BM	BM	1.33	1.25
10/24/2008	52	6.5	236		1.83	1.25	1.67	1.08	OM	BM	BM	BM	BM	1.33	1.25
10/27/2008	52	6.5	236		1.83	1.25	1.67	1.08	OM	BM	BM	BM	BM	1.33	1.25
10/28/2008	75	7	284		1.5	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.25	1.33

10/29/2008	78	7	284		1.5	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.25	1.33
10/30/2008	78	7	284		1.5	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.25	1.33
10/31/2008	39	7	284		1.5	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.25	1.42
11/3/2008	60	7	284	0.01	1.5	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.25	1.25
11/5/2008	60	7	284		1.5	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.25	1.42
11/6/2008		7	284		1.58	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.33	1.42
11/7/2008	61	7	284		1.58	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.33	1.42
11/10/2008	61	7	284		1.58	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.33	1.42
11/11/2008	61	7	284		1.58	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.33	1.42
11/12/2008		7	284		1.58	1.67	1.83	1.83	OM	BM	BM	BM	BM	1.33	1.42
11/13/2008	62	7	284		1.67	1.67	1.83	1.83	OM	BM	BM	BM	BM		
12/1/2008	56	6	193		1.75	1.75	1.75	1.92	OM	BM	BM	BM	BM	1.25	1.17
12/2/2008	57	6	193		1.75	1.75	1.75	1.92	OM	BM	BM	BM	BM	1.25	1.17
12/3/2008	56	6	193		1.75	1.75	1.75	1.75	OM	BM	BM	BM	BM	1.25	1.17
12/4/2008	56	6	193		1.75	1.75	1.75	1.75	OM	BM	BM	BM	BM	1.25	1.08
12/5/2009	56	6	193		1.75	1.75	1.75	1.75	OM	BM	BM	BM	BM	1.25	1.08
12/8/2009	57	6	193		1.75	1.75	1.75	1.75	OM	BM	BM	BM	BM	1.25	1.08
12/9/2008	53	7	284		2	1.58	1.67	1.67	OM	2.75	BM	2.75	BM	1.33	1
12/10/2008	53	7	284		2	1.58	1.67	1.67	OM	2.67	BM	2.67	BM	1.33	1
12/11/2008	50	7	284		2	1.58	1.67	1.58	OM	2.67	BM	2.67	BM	1.33	1
12/12/2009	45	7	284		2	1.58	1.67	1.58	OM	2.67	2.75	2.67	BM	1.33	1
12/15/2008	46	7	284		2.08	1.58	1.67	1.58	OM	2.67	2.67	2.67	BM	1.33	0.08
12/16/2008	47	7	284		2.08	1.58	1.67	1.67	OM	2.67	2.58	2.67	BM	1.33	0.08
12/17/2008	47	7	284		2.08	1.58	1.67	1.67	OM	2.67	2.58	2.67	BM	1.33	0.08
12/18/2009	47	7	284		2.17	1.5	1.67	1.58	OM	2.67	2.5	2.67	BM	1.25	0.08
12/19/2008	49	7	284		2.17	1.5	1.67	1.58	OM	2.67	2.5	2.67	BM	1.33	0.08
12/22/2008	49	6	193		2.25	1.5	1.67	1.58	OM	2.67	2.5	2.67	BM	1.33	0.08
12/23/2008	48	6	193		2.25	1.5	1.67	1.58	OM	2.67	2.5	2.67	BM	1.25	0.08
12/24/2008	48	6	193		2.25	1.5	1.67	1.58	OM	2.58	2.5	2.58	BM	1.25	0.08
12/29/2008	39	7	284		1.83	1.42	1.5	0.08	OM	3	3	3	BM	1.25	0.08
12/30/2008	32	7	284		1.67	1.33	1.33	0.08	OM	BM	BM	3	BM	1.25	0.08
12/31/2008	32	7	284		1.67	1.33	1.33	0.08	OM	BM	BM	3	BM	1.25	0.08

* **BM denotes Below Marker** (Marker ~ 3 Feet)
OM denotes Over Marker (marker ~ 3 feet)

	AVG	AVG	AVG	TOTAL	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
	53.38	6.59	244.61	7.44	1.60	1.41	1.58	1.11	OM	1.50	3.06	4.45	BM	1.27	0.54

2008 TOTAL FLOW TO PONDS

244.61GPM x 60 MIN/HR x 8760 HR/YR: **128,568,665 GAL/YR**

Rainfall = 27154 gal/inch/acre: 7.44 inches/yr X 121.2 acres X 27154 gal/inch/acre = gal/yr **24485522.11 gal/yr**

Pond evaporation = 0.12 inches/day x 1/12 feet/inches x 121.2 acres (area) x 43560 sq. feet/acre x 7.48051 gal/cubic feet x 365 days/year = 144, 149, 972.28 gal/year

Note: On some days when the 90 degree V-notch depth was not measured, we used the flow rate going through the API Separator plus the R.O. water, plus the Pilot Travel center wastewater minus evaporation from upstream aeration lagoons and ponds to estimate total flow to the ponds at the V notch

Reference - for the evaporation rate we used the evaporation rate at Bluewater Lake as a reference, from the Bluewater Lake State Park Management and Development Plan, 2000-20004, Energy Minerals and Natural Resources Department, State of New Mexico, which is known to be 40 inches/year. Bluewater Lake gets 12 inches of precipitation per year. The Gallup Refinery gets 7.44 inches of precipitation per year. There is an inverse relationship between rainfall and evaporation, as the temperature, wind speed, and most importantly the vapour pressure deficit drive evaporation Decreased rainfall will mean increased evaporation - therefore, we have assumed our evaporation rate to be about 44 inches per year.

WESTERN REFINING - GALLUP REFINERY

JAMESTOWN, NEW MEXICO

SNOW MACHINES by Ponds 3 & 4

MONTH	YEAR	NORTH Z-84-B25 S/N 2842 (7/2002) HOUR METER		TOTAL HR	SOUTH Z-84-B24 S/N 2843 (7/2002) HOUR METER		TOTAL HR	TOTAL GAL/YR
		START	END		START	END		
MAR-OCT	2003	0	2928	2928	0	2928	2928	########
MAR-OCT	2004	2928	4052	1124	2928	4137	1209	5,599,200
APR-AUG	2005	4052	4754	702	4137	4839	702	3,369,600
MAY-JUL	2006	6188	6190	2	6273	6296	23	60,000
AUG-OCT	2007	6190	8059	1869	6296	8079	1783	8,764,800
JAN-MAR	2008	8059	8059	0	8079	8079	0	0
MAR-JUN	2008	8059	8060	1	8079	8080	1	4,800
JUN-JUL	2008	8060	8516	456	8080	8726	646	2,644,800
JUL-OCT	2008	8516	9500	984	8726	8800	74	2,539,200
							TOTAL HR	5,188,800

Summary of Sump and Underground Wastewater Lines Tested

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: Treater
Test Fluid: Water: water
Test Water Column (ft.): 5'
Test Duration (min.): 30 min
Manhole Number: Q-3
Date: 9-23-08

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level? yes

Did all branch lines hold level? yes

List any branch lines and location of branch lines that did not hold level (if any):

Inlet line from Q-3 to Sump Box Q-2 was tested and line branches going into Q-3 Sump box sewer lid needs to be replaced.

Test Witness Signatures: W. Hines

Environmental:

Western Representative: Ray Martinez

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: Treater
Test Fluid: Water: water
Test Water Column (ft.): ~~5~~
Test Duration (min.): 30 min
Manhole Number: Q-1
Date: 9-23-08

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level? yes

Did all branch lines hold level? yes

List any branch lines and location of branch lines that did not hold level (if any):

Inlet line from sump Q2 to sump Box Q-1 was tested and all branch lines going into Q-1 were tested test-ok inlet ~~[illegible]~~ 90s need to be replaced some are broken also concrete inside box needs repair, also sewer cup on Q-T3 needs trap installed

Test Witness Signatures: W. Harry

Environmental: [signature]

Western Representative: Ray Martinez

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: Trenchers SUMP A, C, A, A,
Test Fluid: Water: WATER
Test Water Column (ft.): 5
Test Duration (min.): 30 min
Manhole Number: Q-2
Date: 9-23-08

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level?

Did all branch lines hold level?

List any branch lines and location of branch lines that did not hold level (if any):

all branch lines going to sump Boy Q-2 were tested (test OK.) sewer Boy needs concrete repairs on inside of boy also boy needs vacuumed out & cleaned, sewer cap at OT-1 needs trap installed

Test Witness Signatures: W. Harris

Environmental: Alan N

Western Representative: Ray Martinez

maximo

Work Order Details Report

WO #: WO285269

Job Plan: N/A

Safety Plan: N/A

Need to replace the underground process and wastewater line from B4 to B5 sump. It's

Comments:

Line was leaking during inspection of underground process and wastewater line.

Need to repair by 11/30/08.

If need more information please contact Environmental.

Thanks.

Status:	APPR	Sched. Start Date:	Parent:
Report Date:	8/20/2008 6:49:00	Sched. Finish Date:	Sequence:
			Requested By: LMORGAN

Location: 20-PIPING PROCESS PIPING

Lead Craft	Work Type	Priority	GL Account	Contract
	ENV	4	2083010.5182.01	

This line was replaced by Ref-Chem with new pipe.
line was tested on 9/17/08 R.M./RB 7AM. TO 2:00 PM

Attached
are the maps
for these WO.
Thanks
Loretta

Maximo

Work Order Details Report

WO #: WO285245

Job Plan: N/A

Safety Plan: N/A

underground process & wastewater sewer test for the DHT, SRU, and Treaters

Comments:

area. Estimated 87 lines that require testing. All testing MUST BE COMPLETED ON OR BEFORE 11/30/08. See CJ for maps & sewer test form, and list of lines that require testing.

thanks

Status:	APPR	Sched. Start Date:	Parent:
Report Date:	8/19/2008 9:14:00	Sched. Finish Date:	Sequence:
			Requested By: LMORGAN

Location: 60-ENVIRONM ENVIRONMENTAL

Lead Craft	Work Type	Priority	GL Account	Contract
	ENV	5	2084060.5182.01	

9/17/08 AB, RM. 10 hrs

9/18/08 AB. RM. 50 hrs

9/19/08 AB, RM. 10 hrs

9/22/08 AB, RM. 10 hrs

9/23/08 AB RM. 6 1/2 hrs

9/27/08 AB RM. 3 1/2 hrs

9-27-08 HS levels to high to open sewer box J. Rayne

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: Boiler House
Test Fluid: Water: water
Test Water Column (ft.): 3'
Test Duration (min.): 40 min.
Manhole Number: B-4 TO B5
Date: 9/17/08

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level? yes

Did all branch lines hold level? yes

List any branch lines and location of branch lines that did not hold level (if any):

Test Witness Signatures:

Environmental:

Western Representative: Ray Martz

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: Boiler House
Test Fluid: Water: Water
Test Water Column (ft.): 3'
Test Duration (min.): 40 min
Manhole Number: B-4 TO B5
Date: 9/17/08

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level? yes

Did all branch lines hold level? yes

List any branch lines and location of branch lines that did not hold level (if any):

Test Witness Signatures:

Environmental:

Western Representative: Ray Monty

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: Water
Test Fluid: Water: water
Test Water Column (ft.): 5'
Test Duration (min.): 30 min
Manhole Number: Q3
Date: 9-23-08

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level? yes

Did all branch lines hold level? yes

List any branch lines and location of branch lines that did not hold level (if any):

Inlet line from Q-3 to Dump Box Q-2 was tested and line branches going into Q-3 Dump box sewer lid needs to be replaced

Test Witness Signatures: W. Hames

Environmental:

Western Representative: Ray Martinez

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: Treater
Test Fluid: Water: water
Test Water Column (ft.): ~~5~~
Test Duration (min.): 30 min
Manhole Number: Q-1
Date: 9-23-08

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level? yes

Did all branch lines hold level? yes

List any branch lines and location of branch lines that did not hold level (if any):

Inlet line from sump Q2 to sump Box Q-1 was tested and all branch lines going into Q-1 were tested test-ok inlet ~~xxxxx~~ 90s need to be replaced some are broken also concrete inside box needs repairs, also sewer cup on Q-T3 needs trap installed

Test Witness Signatures: W. Harvey

Environmental: [signature]

Western Representative: Ray Martinez

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: Trenters SUMP A, C, A, A,
Test Fluid: Water: WATER
Test Water Column (ft.): 5
Test Duration (min.): 30 MIN
Manhole Number: Q2
Date: 9-23-08

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level?

Did all branch lines hold level?

List any branch lines and location of branch lines that did not hold level (if any):

All branch lines going to sump Bay Q-2 were tested (test OK.) sewer Bay needs concrete repairs on inside of bay also bay needs vacuumed out & Cleaned., sewer cup at OT1 needs trap installed

Test Witness Signatures: W. Harris

Environmental:

Western Representative: Ray Martinez

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: SRU Building
Test Fluid: Water: water
Test Water Column (ft.): 5'
Test Duration (min.): 40 min
Manhole Number: tested all sewer lines going to Manhole G-3.
Date:

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level? yes

Did all branch lines hold level? yes

List any branch lines and location of branch lines that did not hold level (if any):

All Branch lines were tested going to G-3 Box found sewer drain Inside building was not tied into sewer drain, Cut out concrete and repaired the sewer drain on the North east corner of the building. (Re-tested) test OK)

Test Witness Signatures: Ray Martinez

Environmental:

Western Representative:

maximo

Work Order Details Report

WO #: WO285245

Job Plan: N/A

Safety Plan: N/A

underground process & wastewater sewer test for the DHT, SRU, and Treaters

Comments:

area. Estimated 87 lines that require testing. All testing MUST BE COMPLETED ON OR BEFORE 11/30/08. See CJ for maps & sewer test form, and list of lines that require testing.

The OCD regulation requires testing at 3 PSI or greater. Past practice has been to test with a water column up to 4 foot above ground surface. To achieve 3 psi you must have a water column of 6.9 ft. So if the underground line being tested is 2 ft below ground surface the water column above ground surface would need to be 4.9 ft.

thanks

Status:	APPR	**Sched. Start Date:**	**Parent:**
Report Date:	8/19/2008 9:14:00	**Sched. Finish Date:**	**Sequence:**
			Requested By: LMORGAN

Location: 60-ENVIRONM ENVIRONMENTAL

Lead Craft	Work Type	Priority	GL Account	Contract
	ENV	4	2084060.5182.01	

FYI 10 hrs 3 persons

SRU CONCRETE

9-29-08

Gallup Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

Unit & Line #: SRO Building
Test Fluid: Water: water
Test Water Column (ft.): 5'
Test Duration (min.): 40 min
Manhole Number: tested all sewer lines going to Manhole G-
Date:

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level? yes

Did all branch lines hold level? yes

List any branch lines and location of branch lines that did not hold level (if any):

All Branch lines were tested going to G-3 Boy found sewer drain Enside building was not tied into sewer drain, Cut out concrete and Repaired the sewer drain on the North east corner of the building. (Re-tested) test ok)

Test Witness Signatures: Ray Martinez

Environmental:

Western Representative: Gilbert Martinez

maximo

Work Order Details Report

WO #: WO285245

Job Plan: N/A

Safety Plan: N/A

underground process & wastewater sewer test for the DHT, SRU, and Treaters

Comments:

area. Estimated 87 lines that require testing. All testing MUST BE COMPLETED ON OR BEFORE 11/30/08. See CJ for maps & sewer test form, and list of lines that require testing.

The OCD regulation requires testing at 3 PSI or greater. Past practice has been to test with a water column up to 4 foot above ground surface. To achieve 3 psi you must have a water column of 6.9 ft. So if the underground line being tested is 2 ft below ground surface the water column above ground surface would need to be 4.9 ft.

thanks

Status:	APPR	**Sched. Start Date:**	**Parent:**
Report Date:	8/19/2008 9:14:00	**Sched. Finish Date:**	**Sequence:**
			Requested By: LMORGAN

Location: 60-ENVIRONM ENVIRONMENTAL

Lead Craft	Work Type	Priority	GL Account	Contract
	ENV	4	2084060.5182.01	

ENV 10 hrs 3 persons

SRU CONCRETE

9-29-08

maximo

Work Order Details Report

WO #: WO285245

Job Plan: N/A

Safety Plan: N/A

underground process & wastewater sewer test for the DHT, SRU, and Treaters

Comments:

area. Estimated 87 lines that require testing. All testing MUST BE COMPLETED ON OR BEFORE 11/30/08. See CJ for maps & sewer test form, and list of lines that require testing.

thanks

Status:	APPR	Sched. Start Date:	Parent:
Report Date:	8/19/2008 9:14:00	Sched. Finish Date:	Sequence:
			Requested By: LMORGAN

Location: 60-ENVIRONM ENVIRONMENTAL

Lead Craft	Work Type	Priority	GL Account	Contract
	ENV	5	2084060.5182.01	

9/17/08 AB. RM. 10 hrs
9/18/08 AB. RM. 50 hrs
9/19/08 AB, RM. 10 hrs
9/22/08 AB, RM. 10 hrs
9/23/08 AB RM. 6 1/2 hrs
9/27/08 AB RM. 3 1/2 hrs

9-29-08 Hgs levels for high for open sewer box J. Payne

maximo

Work Order Details Report

WO #: WO285269

Job Plan: N/A

Safety Plan: N/A

Need to replace the underground process and wastewater line from B4 to B5 sump. It's

Comments:

Line was leaking during inspection of underground process and wastewater line.

Need to repair by 11/30/08.

If need more information please contact Environmental.

Thanks.

Status:	APPR	**Sched. Start Date:**	**Parent:**
Report Date:	8/20/2008 6:49:00	**Sched. Finish Date:**	**Sequence:**
			Requested By: LMORGAN
Location:	20-PIPING	PROCESS PIPING	

Lead Craft	Work Type	Priority	GL Account	Contract
	ENV	4	2083010.5182.01	

This line was replaced by Ref-Chem with new pipe line was tested on 9/17/08 RM/AB 7AM. TO 2:00 PM

Attached are the maps for these WO. Thanks Loretta

Summary of All Leaks, Spills and Releases and Corrective Actions

Leaks, Spills and Releases and Corrective Actions

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Western Refining	Contact: Beck Larsen
Address: I-40 / Exit 39	Telephone No.:(505) 722-0258
Facility Name: Western Refining (Gallup)	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
T-107	28	15 N	15 W					McKinley

Latitude 108° 24' 040" **Longitude** 35° 29' 030"

NATURE OF RELEASE

Type of Release: Light Cat Gasoline	Volume of Release 22 bbls	Volume Recovered 0 bbls
Source of Release T-107	Date and Hour of Occurrence 11/11/2008 0300	Date and Hour of Discovery 11/11/2008 0300
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Message left with NMED & OCD	
By Whom? Beck Larsen	Date and Hour 11/11/2008 (0519 & 0527 respectively)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The Company experienced a large quantity of Light Cat Gasoline to the slop system (Tank 107). Communication could have been better leading to this event. Employees did not follow designated Company tank filling procedures. Tank 107 overfilled and ran down the sides as a result of not following these Company filling procedures. The Rundown valve at T-107 was immediately closed and the Lt Cat Gasoline was routed to T-235. The spill was contained within an earthen dike area around Tk-107. The onsite Fire Department immediately applied a foam blanket on top of the spilled area.

Describe Area Affected and Cleanup Action Taken.*
The spill was contained within an earthen dike berm area around Tk-107. The onsite Fire Department immediately applied a foam blanket on top of the spilled area until remediation of the effected area could be initiated. The foam and all liquids were cleaned up using vacuum trucks. Initial sampling and cleanup procedures are commencing requiring soil excavation of the affected area. The contaminated soil will then be shipped to an approved waste facility.

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

Signature: James Gott DOA for Mark Turri 11-14-08	OIL CONSERVATION DIVISION
Printed Name: Mark B. Turri	Approved by District Supervisor:
Title: Facility Manager	Approval Date: / Expiration Date:
E-mail Address: mark.turri@wnr.com	Conditions of Approval: / Attached ☐
Date: 11/13/2008 Phone: (505) 949-0904	

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Western Refining: Gallup Refinery	Contact Bryon Holbrook
Address I-40, Exit 39, Jamestown NM 87347	Telephone No. 505-722-0258
Facility Name: Gallup Refinery	Facility Type Oil refinery

Surface Owner: Giant Industries, Inc.	Mineral Owner: Giant Industries, Inc.	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23 & 33	15N	15W					McKinley

Latitude 35°29'30" **Longitude** -108°24'40"

NATURE OF RELEASE

Type of Release: Ultra Low Sulfur Diesel Fuel	Volume of Release: 20 barrels (estimate)	Volume Recovered: 15 barrels (estimate)
Source of Release: Marketing Tank No. 1	Date and Hour of Occurrence: 3/7/08 @ 1405 hours	Date and Hour of Discovery: 3/7/08 @ 1415 hours
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD - Carl Chavez NMED – Hope Monzeglio	
By Whom? Bryon Holbrook	Date and Hour 3/7/08 at 1615 hours	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Tank overfill. Marketing Tank No. 1 was on auto fill. The transfer pump did not switch off at the pre-selected level. An employee who was near the tank saw the spill and immediately notified the lab and the pump was shut off. Western will conduct a full investigation to determine the root cause of the overfill.
A vacuum truck was dispatched soon after the spill occurred to vacuum up the spilled diesel. The vacuum truck was able to recover 75% (estimate) of the spilled diesel.

Describe Area Affected and Cleanup Action Taken.* The release is restricted to the diked area surrounding the marketing tanks. None of the release made its way off of Western property. A vac truck was able to recover approximately 15 barrels of diesel. We estimate that approximately 5 barrels of diesel was released into the soil. We are taking core samples to determine the penetration of the diesel into the soil. The impacted soil will be removed and placed either directly into roll-off boxes or on plastic liner until additional boxes can be obtained. We will sample the excavated area to ensure all the diesel impacted soil has been removed. Upon OCD and NMED approval, the excavation will be back-filled with fresh clay after confirmatory sampling is conducted. Impacted soils anticipated either be landfarmed on site or taken off-site depending availability of space in landfarm.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Joel Quinones	Approved by District Supervisor:	
Title: Prod. Quality/Dist. Manager	Approval Date:	Expiration Date:
E-mail Address: joel.quinones@wnr.com	Conditions of Approval:	Attached ☐
Date: March 10, 2008 Phone: (505) 722-0260		

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Western Refining: Gallup Refinery	Contact: Bryon Holbrook
Address: I-40, Exit 39, Jamestown NM 87347	Telephone No.: 505-722-0258
Facility Name: Gallup Refinery	Facility Type: Oil refinery

Surface Owner: Giant Industries, Inc.	Mineral Owner: Giant Industries, Inc.	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23 & 33	15N	15W					McKinley

Latitude 35°29'30" **Longitude** -108°24'40"

NATURE OF RELEASE

Type of Release: Fuel Oil	Volume of Release: 5 to 6 barrels (estimate)	Volume Recovered: 4 barrels
Source of Release: Tank 706	Date and Hour of Occurrence: 3/19/08 @ 1250hours (estimate)	Date and Hour of Discovery: 3/19/08 @ 1300 hours
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD - Carl Chavez NMED – Hope Monzeglio	
By Whom? Jim Lieb	Date and Hour 3/20/08 at 0805 hours	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A pump seal failed while fuel oil was being pumped from Tank 706 to the loading rack. A pumper technician saw the leakage and immediately turned off the pump. The spill is contained within the dike surrounding the hot oil tanks.
A vacuum truck was dispatched soon after the spill occurred to vacuum up the spilled fuel oil. The vacuum truck was able to recover approximately 4 barrels of the spilled fuel oil.

Describe Area Affected and Cleanup Action Taken.* The release is in the area around the Tank 706 pump. None of the release made its way off of Western property. A Veolia vacuum truck was able to recover approximately 4 barrels of fuel oil. We estimate that approximately 1-2 barrels of fuel oil was released into the soil. We will take core samples to determine the penetration of the fuel oil into the soil. The impacted soil has been removed and placed directly into roll-off boxes or on plastic liner until additional boxes can be obtained. We will sample the excavated area to ensure that all the oil impacted soil has been removed. Upon OCD and NMED approval, the excavation will be back-filled with fresh clay after confirmatory sampling is conducted. Impacted soils will be taken off-site for land farming at an OCD approved facility (likely Envirotech in Farmington).

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

Signature: Mark B. Turri	OIL CONSERVATION DIVISION	
Printed Name: Mark B. Turri	Approved by District Supervisor:	
Title: General Manager	Approval Date:	Expiration Date:
E-mail Address: mark.turri@wnr.com	Conditions of Approval:	Attached ☐
Date: March 26, 2008 Phone: (505) 722-0202		

Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Western Refining: Gallup Refinery	Contact: Bryon Holbrook
Address: I-40, Exit 39, Jamestown NM 87347	Telephone No.: 505-722-0258
Facility Name: Gallup Refinery	Facility Type: Oil refinery

Surface Owner: Giant Industries, Inc.	Mineral Owner: Giant Industries, Inc.	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23 & 33	15N	15W					McKinley

Latitude 35°29'30" **Longitude** -108°24'40"

NATURE OF RELEASE

Type of Release: Ultra Low Sulfur Diesel (ULSD) Fuel	Volume of Release: 200 to 300 barrels (estimate)	Volume Recovered: 274 barrels (estimate)
Source of Release: Tank 577	Date and Hour of Occurrence: 3/19/08 @ 1800hours	Date and Hour of Discovery: 3/19/08 @ 1830 hours
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD - Carl Chavez NMED – Hope Monzeglio	
By Whom? Jim Lieb	Date and Hour 3/20/08 at 0805 hours	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Tank overfill. A pumper technician was transferring ULSD to Tank 577. The tank mechanical level gauge stuck.
A vacuum truck was dispatched soon after the spill occurred to vacuum up the spilled diesel. The vacuum truck was able to recover 274 barrels of the spilled diesel.

Describe Area Affected and Cleanup Action Taken.* The release is restricted to the diked area surrounding Tank 577. None of the release made its way off of Western property. Western used its vacuum truck to recover approximately 274 barrels of diesel. We estimate that approximately 26 barrels of diesel was released into the soil. We will take core samples to determine the penetration of the diesel into the soil. The impacted soil was removed and placed on plastic liner. We will sample the excavated area to ensure all the diesel impacted soil has been removed. Upon OCD and NMED approval, the excavation will be back-filled with fresh clay after confirmatory sampling is conducted. Impacted soils will be placed in roll-off boxes and taken off-site for land farming at an OCD approved facility (likely Envirotech in Farmington).

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

Signature: Mark B. Turri	OIL CONSERVATION DIVISION	
Printed Name: Mark B. Turri	Approved by District Supervisor:	
Title: General Manager	Approval Date:	Expiration Date:
E-mail Address: mark.turri@wnr.com	Conditions of Approval:	Attached ☐
Date: March 26, 2008 Phone: (505) 722-0260		

Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Western Refining Southwest Inc.	Contact Gaurav Rajen
Address I-40 Exit 39, Jamestown, NM 87347	Telephone No. 505-722-0227
Facility Name Gallup Refinery	Facility Type Oil refinery

Surface Owner Western Refining	Mineral Owner Western Refining	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23&33	15N	15W					McKinley

Latitude 35°29'22" **Longitude** 108°25'24"

NATURE OF RELEASE

Type of Release Gasoline (Premium)	Volume of Release 200 barrels of gasoline (8400 gallons) estimate	Volume Recovered 2100 barrels of an oil and water mixture (with 190 barrels or 8000 gallons of oil in the mixture) estimate
Source of Release Overflow from Tank 116	Date and Hour of Occurrence 8/2/2008; before 6:45 am (approximately)	Date and Hour of Discovery 8/2/2008; 6:45 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl J. Chavez, NMEMNRD, Oil Conservation Division; Hope Monzeglio, NMED Hazardous Waste Bureau (via telephone)	
By Whom? Gaurav Rajen	Date and Hour 8/2/2008 (approximately) 10:00 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not applicable	

If a Watercourse was Impacted, Describe Fully.* Not applicable

Describe Cause of Problem and Remedial Action Taken.* At approximately 6:45 am on 8/2/2008, the Operations Supervisor discovered that Marketing Tank #2 was running over. This Marketing Tank #2 was running over at the roof vents and drains and spilling premium gasoline onto the soil within the area surrounded by a berm. No product left the containment area within the berm. Water and foam were sprayed on the spilled product for suppression of any possibility of fire. The response team used earth moving equipment to build up the containment barrier at that end of the containment berm at which product was collecting. This was done as a precautionary measure as the volume of liquid present was increasing from the water and the foam being sprayed onto the tank and being used to cover the spilled product. Product from the bottom of the tank was also drained out on to the ground to prevent further outflow from the roof drains – this action was taken as the outflow from the roof had a greater possibility of creating an explosive situation and draining directly on to the ground was preferable from a safety perspective. Either from the roof or the ground drain, the product was reaching the ground. This drain was disconnected from the sewer system which prevented any possibility of explosion within the sewers. This disconnect was previously in place from ongoing maintenance work. Water used to spray the tank was also entering into the tank, so water was emerging from the bottom drain along with product. There is a detailed investigation underway – the tank was overfilled, and the primary cause is yet to be determined.

Describe Area Affected and Cleanup Action Taken.*
The affected area within the berm had a surface area of approximately 10000 square feet with some vertical penetration of the gasoline (of as yet unknown depth, but, based on prior experience, presumed to be of the order of 2 feet or less).

The area was isolated through the use of barricades to prevent unauthorized intrusion. Two trucks with vacuum pumps were used on Saturday 8-2-2008 (21 loads) and Sunday 8-3-2008 (7 loads) to collect free liquids (product mixed with foam and water) from within the berm. Approximately 28 truck-loads of approximately 75 barrels per load were collected for a total of approximately 2100 barrels (88200 gallons). Visual observation of the area determined that there was 1 inch of gasoline floating on about a foot and greater of water – i.e. a 10:1 ratio of the water to oil mixture. This leads to an estimate of approximately 200 barrels of gasoline spilled onto the ground.

In further cleanup actions, contaminated soils will be excavated, confirmatory environmental samples will be collected and analyzed, and all contaminated materials will be disposed off in accordance with applicable regulations. There is a drainage ditch running alongside the bermed area that did not exhibit any signs of contamination apart from some limited spray of water from the fire suppression techniques employed. The water reaching the drainage ditch [illegible] the spray had not contacted any gasoline. This drainage ditch area will also be tested in the sampling and assessment to be undertaken.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Western Refining Southwest Inc.	Contact Gaurav Rajen
Address I-40 Exit 39, Jamestown, NM 87347	Telephone No. 505-722-0227
Facility Name Gallup Refinery	Facility Type Oil refinery

Surface Owner Western Refining	Mineral Owner Western Refining	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23&33	15N	15W					McKinley

Latitude 35°29'22" **Longitude** 108°25'24"

NATURE OF RELEASE

Type of Release Ultra-Low Sulfur Diesel (ULSD)	Volume of Release 45 barrels (1890 gallons) final estimate	Volume Recovered 12 barrels (500 gallons) estimate
Source of Release Overflow from Tank 116	Date and Hour of Occurrence 4/24/2008; 2:00 am (approximately)	Date and Hour of Discovery 4/24/2008; 2:50 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl J. Chavez, NMEMNRD, Oil Conservation Division; Hope Monzeglio, NMED Hazardous Waste Bureau (via telephone)	
By Whom? Gaurav Rajen and Cheryl Johnson	Date and Hour 4/24/2008 (approximately) 11:00 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not applicable	

If a Watercourse was Impacted, Describe Fully.* Not applicable

Describe Cause of Problem and Remedial Action Taken.* At approximately 2:50 am on 4/24/2008, the Operations Shifter discovered Tank 116 running over. The Pump Operator was notified and a transfer was started into Tank 583. Tank 116 had run over and spilled ULSD onto the soil within the area surrounded by a berm. A lesser amount of ULSD ran down within the foam line leading into the tank. Through a drain valve on the foam line that is buried in the ground outside the berm area, some ULSD leaked out onto a service road running adjacent to Tank 116. The operator used a backhoe to build a containment dike on this road outside the tank berm area, and the spill on the road was blocked from further migration.

Describe Area Affected and Cleanup Action Taken.*
The affected area within the berm had a surface area originally estimated as approximately 500 square feet with some vertical penetration of the ULSD. Through excavation and sampling, this area has a final estimate of approximately 1000 square feet, and of 2 feet depth. An affected area of approximately 500 feet in length and average 5 feet wide (ranging between 2-10 feet depending on the amount of pooling of the spilled material) lay along the service road. The material on the road surface penetrated to a depth of 3 inches (maximum) into the underlying surface as the road surface is partially paved.

A truck with a vacuum pump was used to collect free ULSD product from within the berm and on the service road. Absorbent material was placed on the spill along the road; and this area was isolated through the use of barricades. In further cleanup actions, contaminated soils were excavated, confirmatory environmental samples were collected and analyzed, and all contaminated materials disposed off in accordance with applicable regulations at a permitted landfill. Details are provided in the attached report.

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

Signature: Mark B. Turri	OIL CONSERVATION DIVISION	
Printed Name: Mark B. Turri	Approved by District Supervisor:	
Title: Refinery Manager – Gallup	Approval Date:	Expiration Date:
E-mail Address: mark.turri@wnr.com	Conditions of Approval:	Attached ☐
Date: 8-20-2009 Phone: 505-722-3833		

- Attach Additional Sheets If Necessary

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Mark B. Turri	Approved by District Supervisor:	
Title: Refinery Manager – Gallup	Approval Date:	Expiration Date:
E-mail Address: mturri@wnr.com	Conditions of Approval:	Attached ☐
Date: 8-4-2008 Phone: 505-722-3833		

- Attach Additional Sheets If Necessary

C-141 Final Report - Tank 116 Spill

1.0 Description of Site and Incident

Tank 116 is located within the northern tank farm area of the Gallup Refinery. Figure 1 depicts an aerial view of the refinery – and Tank 116 is described in a detailed image extracted from this picture.

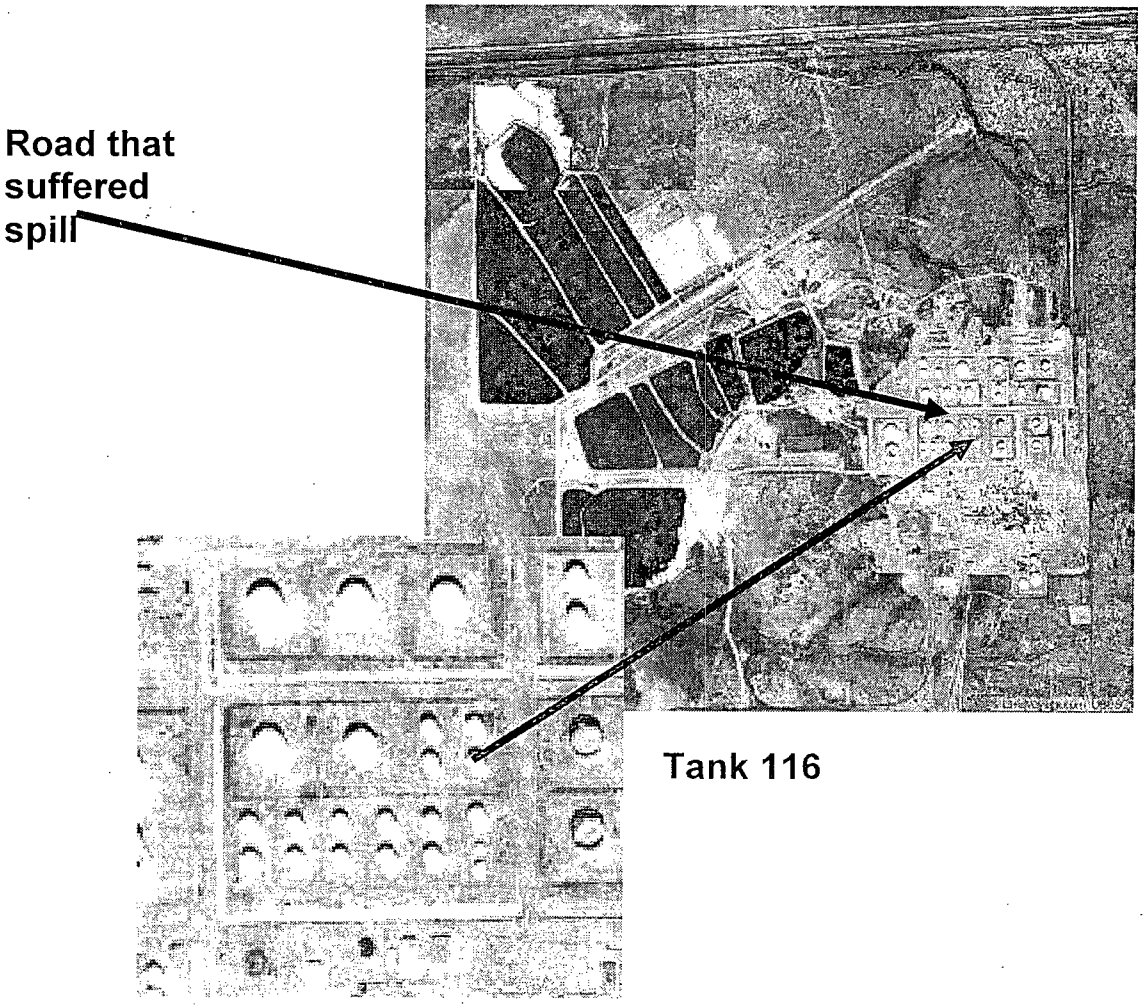


Figure 1: Location of Tank 116 within the Gallup Refinery

1.1 Nature of Spill Incident

At approximately 2:50 am on 4/24/2008, the Operations Shifter discovered Tank 116 running over. The Pump Operator was notified and a transfer was started into Tank 583. Tank 116 had run over and spilled Ultra Low Sulfur Diesel (ULSD) onto the soil within the area surrounded by a berm. A lesser amount of ULSD ran down within the foam line leading into the tank. This foam line is designed to provide foam into the tank to suppress fires in an emergency and has to be kept open. Through a drain valve on the foam line that is buried in the ground outside the berm area, some ULSD leaked out onto a service road running adjacent to Tank 116. The operator used a backhoe to build a containment dike on this road outside the tank berm area, and the spill on the road was blocked from further migration. Figure 2 depicts the spill around the tank within the area of the berm. The photograph presented in Figure 3 depicts the spill emanating from the buried drain valve that migrated along the service road.

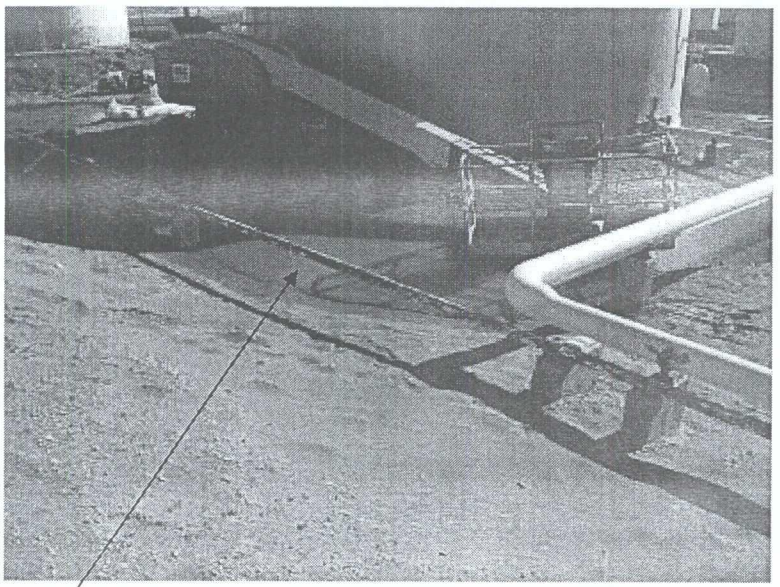


Figure 2: Photograph depicting contaminated areas within the berm adjacent to Tank 116 – Tank 116 is off the picture; much of the product flowed and collected next to Tank 115 which can be seen. At this time, maintenance work was ongoing on Tank 115 which is why heavy equipment is seen in the area.

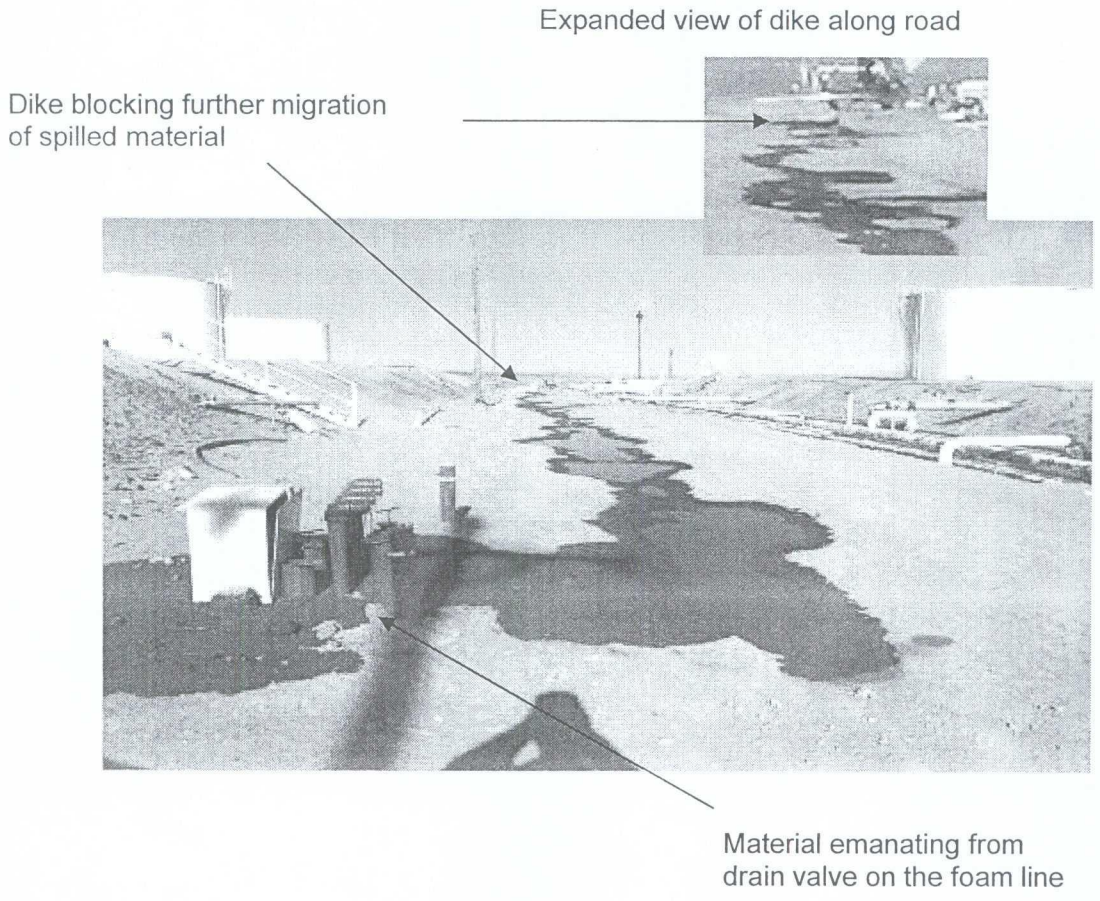


Figure 3: Photograph depicting spilled material along a service road adjacent to Tank 116.

2.0 Remediation Actions

Almost immediately following the spill, a vacuum truck was used to pick up free product (as much as possible), and absorbent material was placed on affected areas to soak up product remaining on the surface. Later, contaminated soil was excavated and stored on plastic in a staging area for later disposal in a permitted landfill. Figures 4-7 depict photographs of various stages of the excavation and subsequent clean-up of the area.

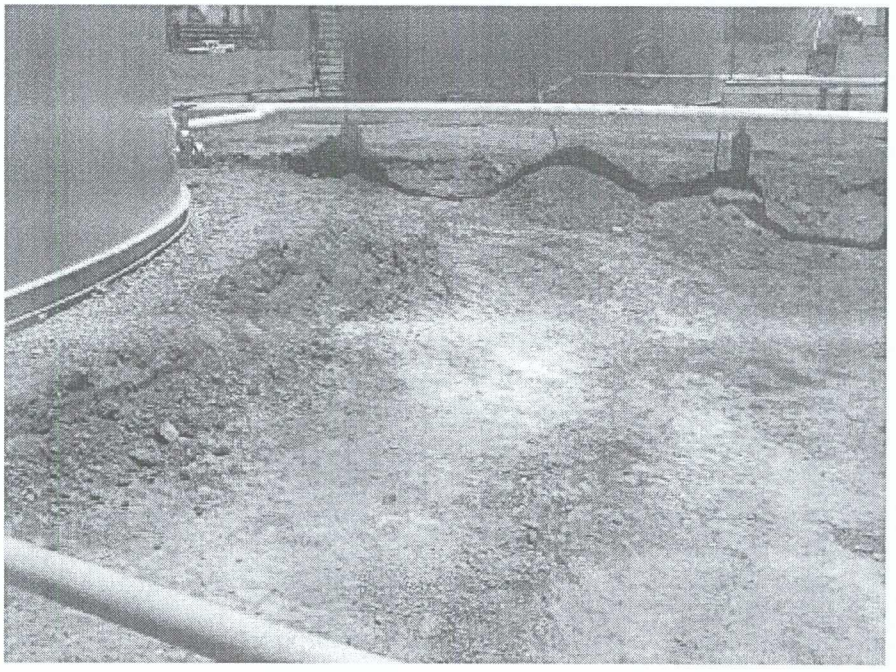


Figure 4: Excavation of contaminated soil in the area described in Figure 2. Note active pipeline towards the rear.

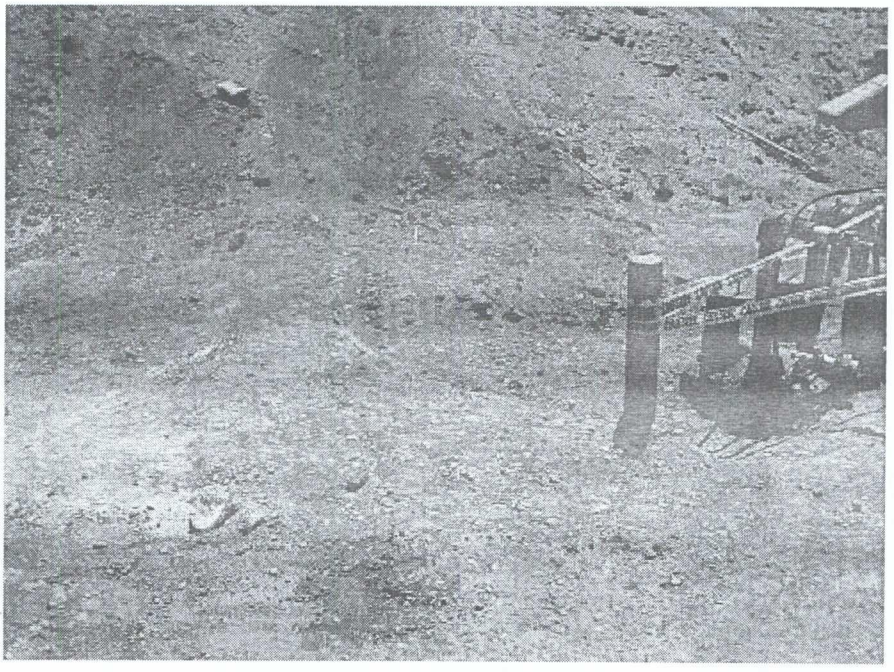


Figure 5: Preliminary excavation of contaminated soils near the drain pipes where product flowed out from the open foam line within the tank

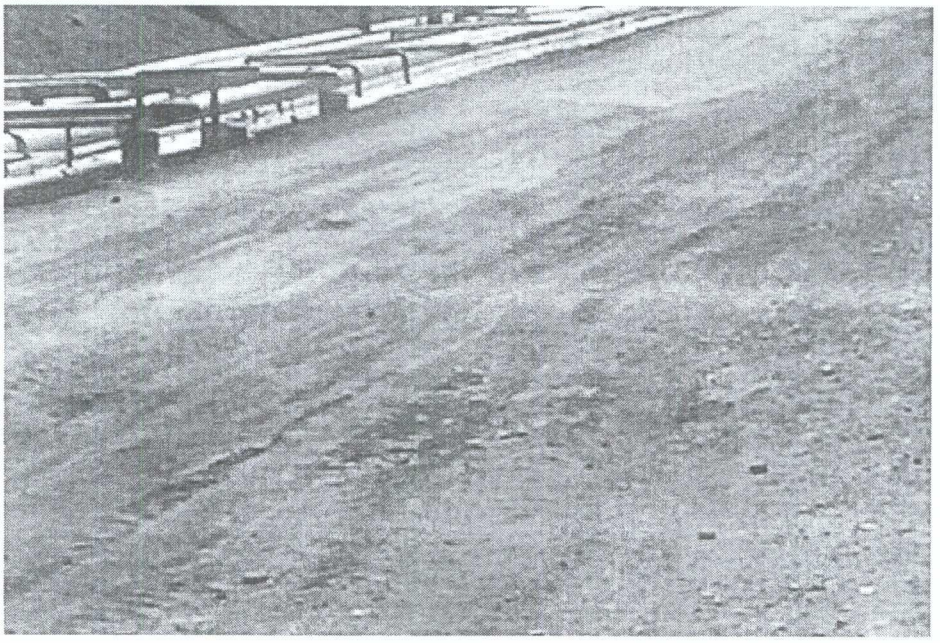


Figure 6: Preliminary clean-up of road which had experienced run-off of product.

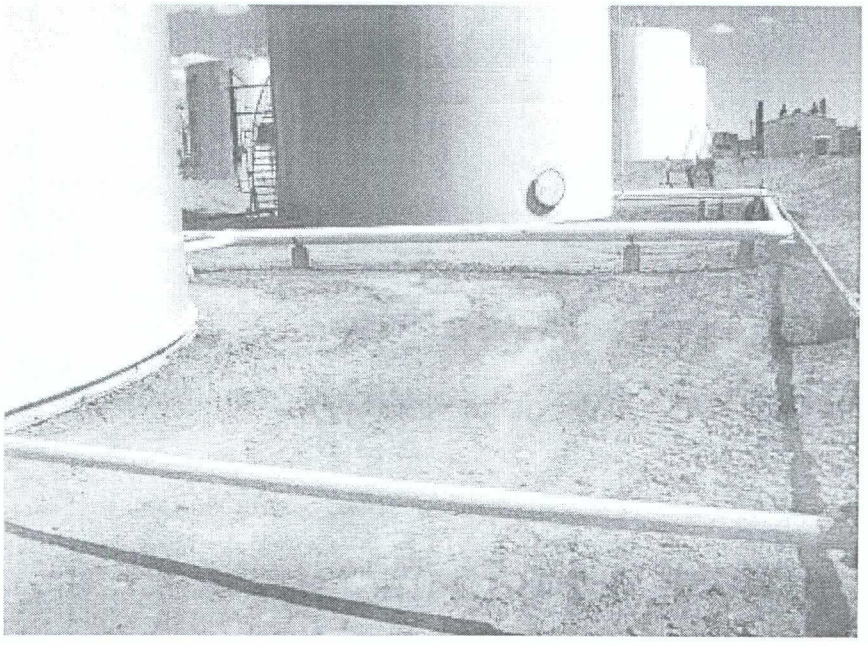


Figure 7: Final clean-up of affected area near Tank 116

After all free product had been removed and contaminated soil (from visual observation) excavated, we prepared a sampling plan and collected soil samples that were sent to Hall Environmental Analytical Laboratories for testing. The sampling locations and preliminary results for Diesel Range Organics (DRO) in red font are described in Figure 8. Appendix A presents details of the laboratory results. The composite samples were biased to locations where we could observe soil staining.

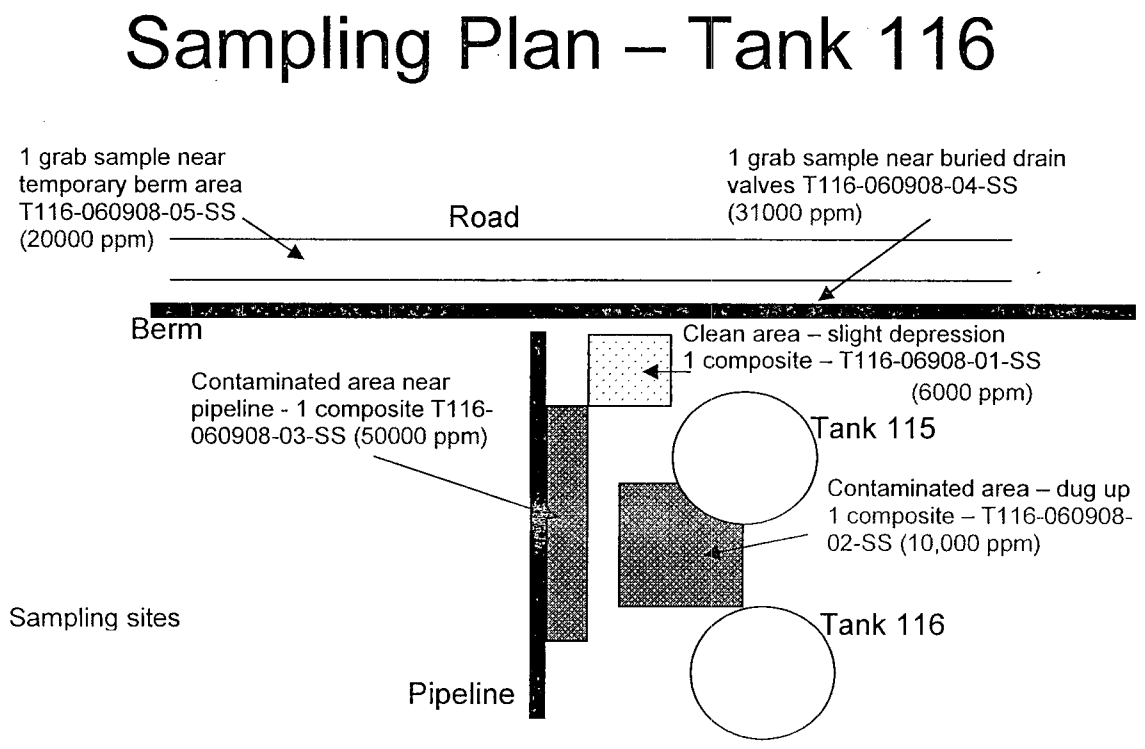


Figure 8: Preliminary sampling locations and results for DRO

These data showed levels of DRO from 6000 ppm to 50,000 ppm. The samples were also analyzed for Gasoline Range Organics (GRO) and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) using EPA-approved and OCD-recommended methods. GRO and BTEX were at non-detect levels. Based on these data, subsequent excavations were undertaken and the sites were sampled again. Figure 9 presents results from this second set of samples.

These tanks are an active work site. While waiting to receive the second set of laboratory results we were compelled to cover the excavated areas for safety reasons as depressions and excavations represent a safety hazard for personnel who continuously work around these tanks.

Sampling Plan – Tank 116

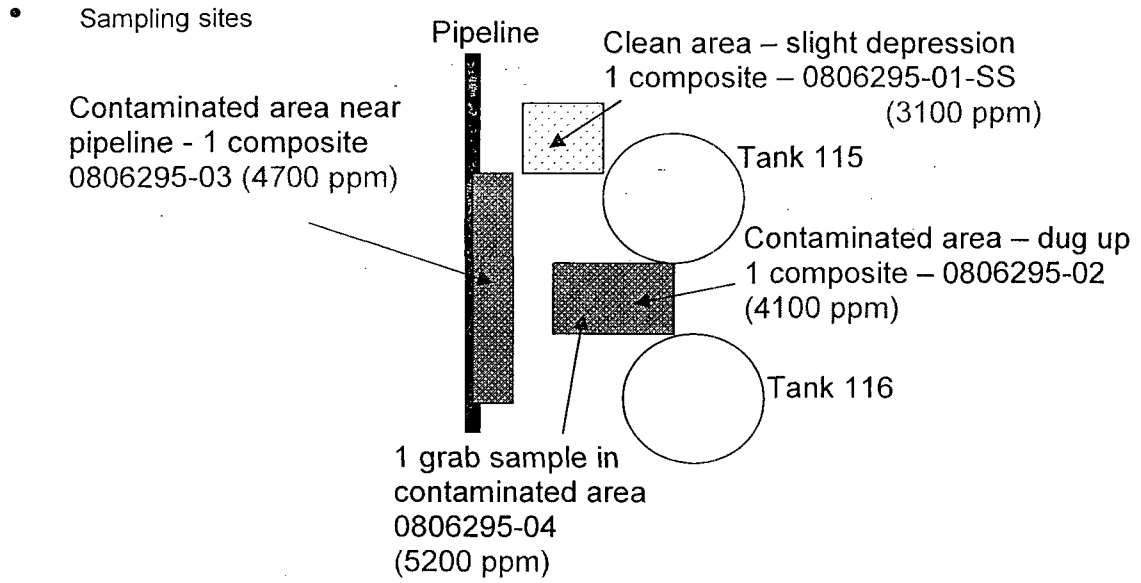


Figure 9: Second set of results after excavation had occurred.

Laboratory data for these samples are also presented in Appendix A. These results show levels of DRO of the order of 4000 - 5000 ppm that were found at the bottom of the excavated area even after 2 feet of contaminated dirt had been removed.

We have assessed the potential for contaminants from this current spill to migrate into the subsurface as being much less than 2 feet. We have excavated soils to this level and disposed off these soils at a permitted landfill. We believe that the levels of DRO being found below this level are probably from previous historical occurrences. Also, near the active pipelines located within the spill area that bring product in and out of the tanks it is not possible for us to excavate deeper without prejudice to the safety of these pipelines. We have reduced the levels of contamination by a factor greater than 10. However, there is some contamination at the level of approximately 4000 – 5000 ppm of DRO existing at the site.

3.0 Abatement Options

What can be done about possible past spills now that the site is covered?

Our approach has been the following:

- We have modeled the likely spread of contaminants into the subsurface using an EPA-approved model called CHEMFLO. We assumed a loamy-clay soil with 1

foot of ponded liquids on top. No contamination was predicted to travel deeper than about 1-2 feet even if the liquids stayed at a 1 foot depth on the surface for over 1000 hours – this was not the case in practice as product was picked up within a few hours after the spill. Details are provided in Appendix A. This lends support to the conclusion that contaminated soils below two feet is probably from previous activities.

- We have carried out a test of passive venting at the site, using a perforated pipe emplaced in to the soil above an area of contamination and started collecting measurements of vapor concentrations within this pipe. Figure 10 depicts a photograph of the perforated pipe we constructed, and Figure 11 shows it in place near a pipeline where it is difficult to excavate.

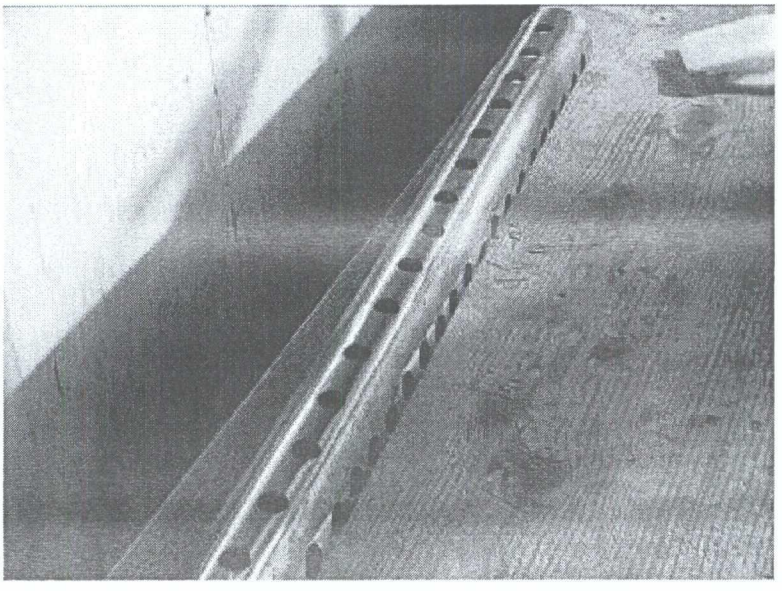


Figure 10: Perforated pipe that has been constructed

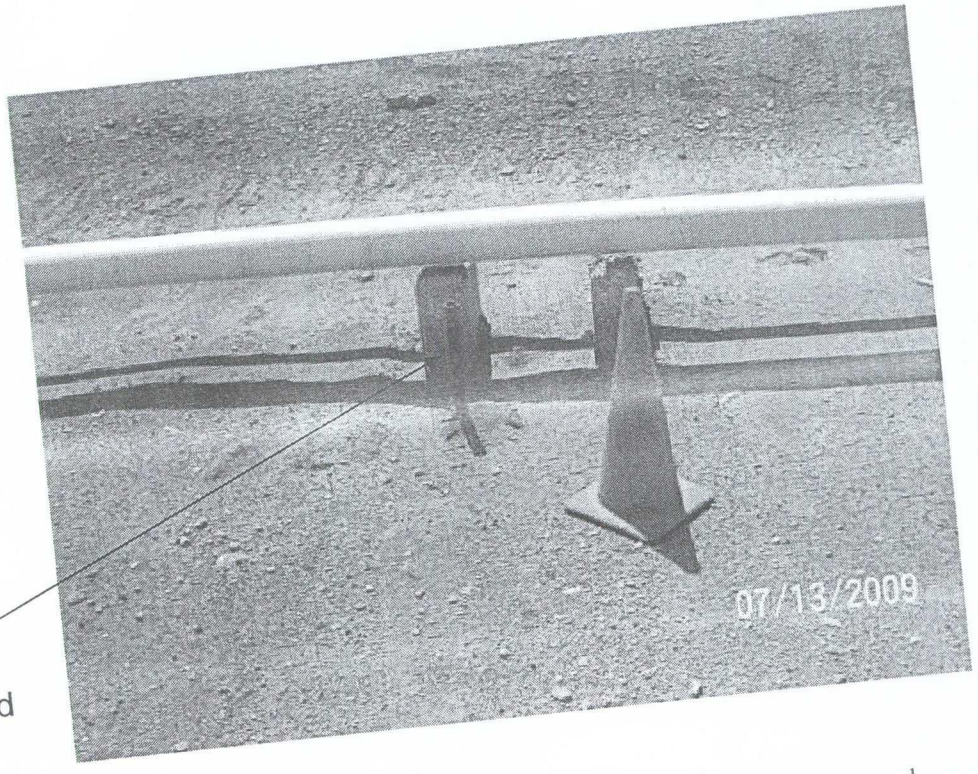


Figure 11: Photograph of emplaced pipe – the section with holes is inside the ground

Over time, vapor concentrations found within the pipe varied considerably. To monitor these concentrations we used a sensitive hydrocarbon vapor detection system based on a flame ionization detector. The concentrations could have been varying because microbial activity within the ground was being enhanced by virtue of the perforated pipe allowing increased air to breathe into the soil. These changing levels could also be from diurnal variations in the flow of soil gases as the ground heats and cools. We monitored these levels for a period of 12 months. Then, we collected a soil sample from this location which was previously known to be at 4700 ppm of DRO. **This level is now 190 ppm**. Details of this set of samples are provided in Figure 12. (We were confident that the entire road surface and buried valve area had been entirely cleaned up – however, as confirmatory samples had not been taken we have collected these and results are also provided.) We will now place more such pipes with OCD's concurrence to reduce contamination that is known to exist within the ground. We also seek OCD's concurrence to postpone further excavation until an opportune time arises in the future, and/or the area is taken out of service.

Sampling Plan – Tank 116

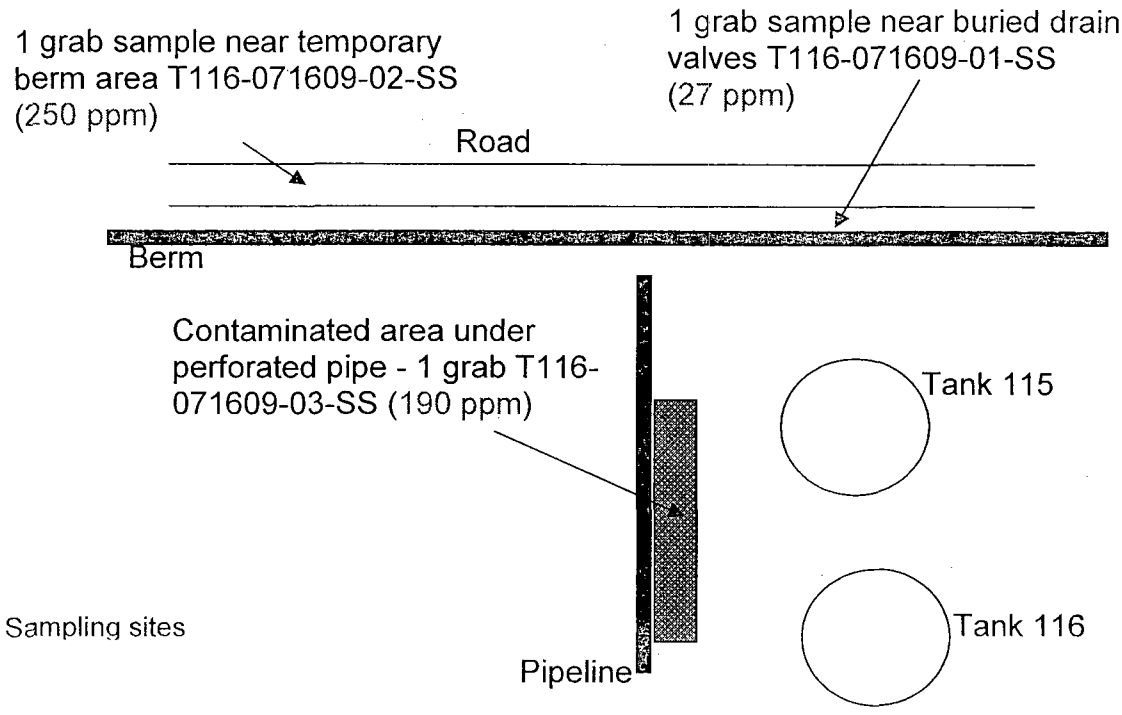


Figure 12: Last set of data from a third sampling event

4.0 Conclusions

As the spill site is an active work area, and because of the close proximity of functioning pipelines, we have been compelled to fill in the excavated areas (excavated to 2 feet) after having removed known contaminated dirt. We request the Oil Conservation Division (OCD) to allow us to add more perforated pipes at the location and continue to reduce the DRO levels that were found to exist at the site (of the order of 4000 – 5000 ppm). When this area is removed from service, we will clean up all contaminated soils to required levels if any are found.

APPENDIX A

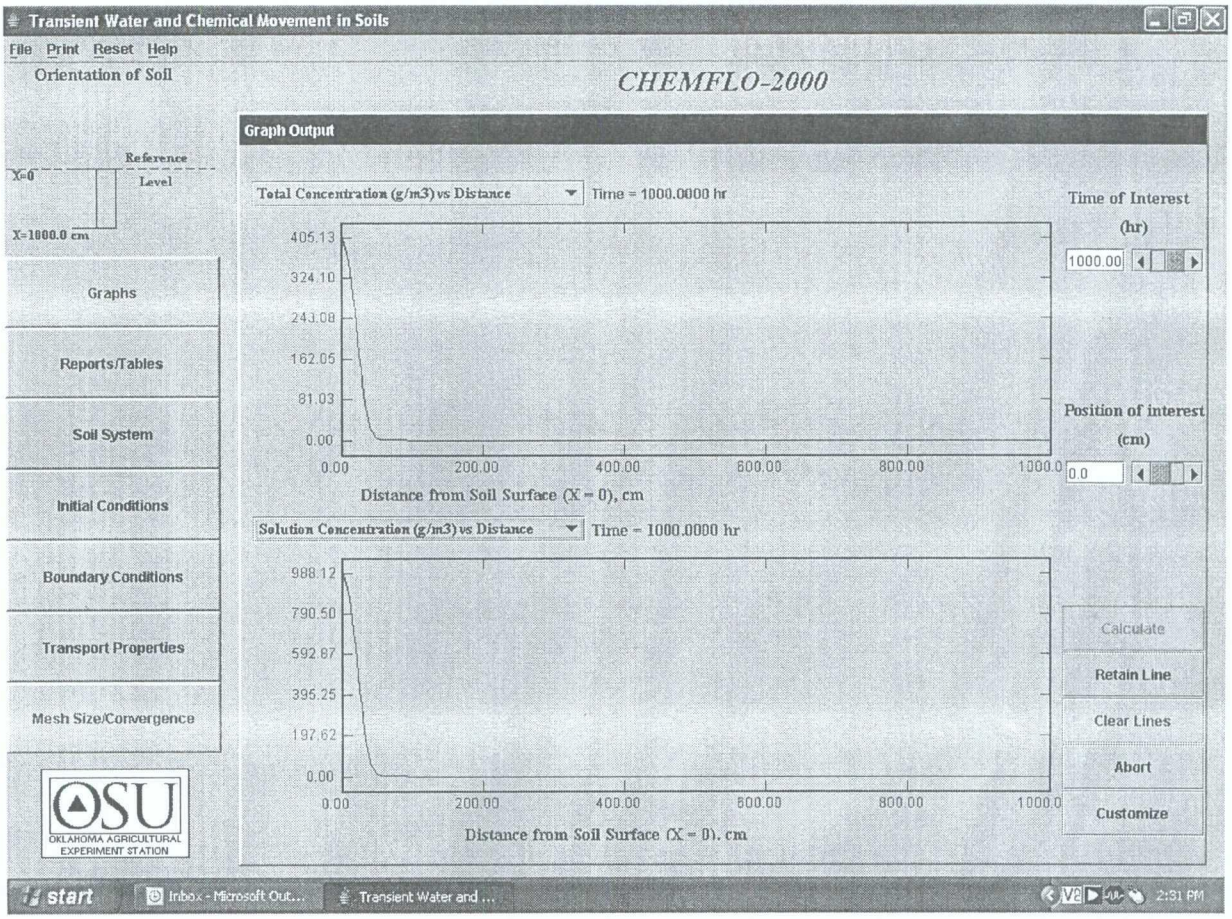


Figure A.1: Likely migration of contaminants into the subsurface – as can be seen, even after 1000 hours, no contamination is expected deeper than about 50 cm (1.6 feet). Therefore, it is extremely likely that contamination found deeper than 2 feet was from previous spills.

Assumptions in the model –

Figure A.2 presents details of the soil parameters built into the model. We assumed a sandy clay loam. Figure A.3 presents assumed chemical transport parameters.

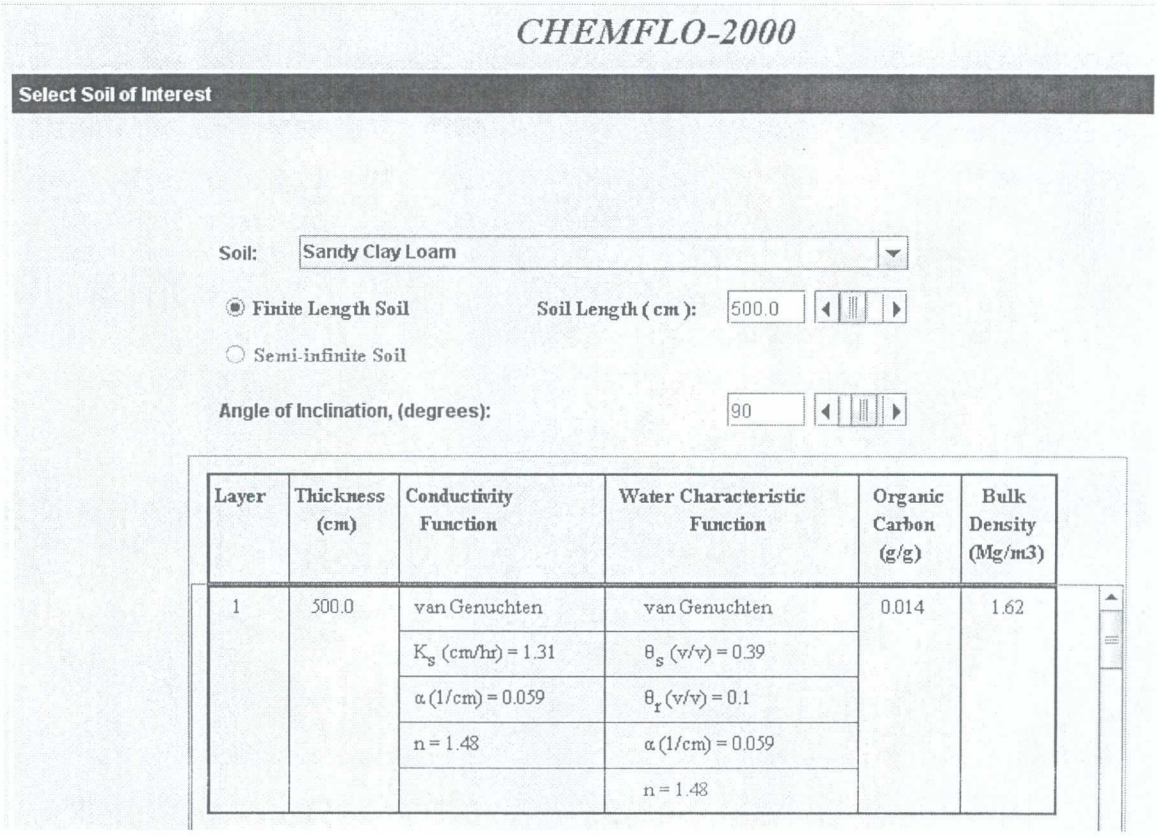


Figure A.2: Assumed soil parameters

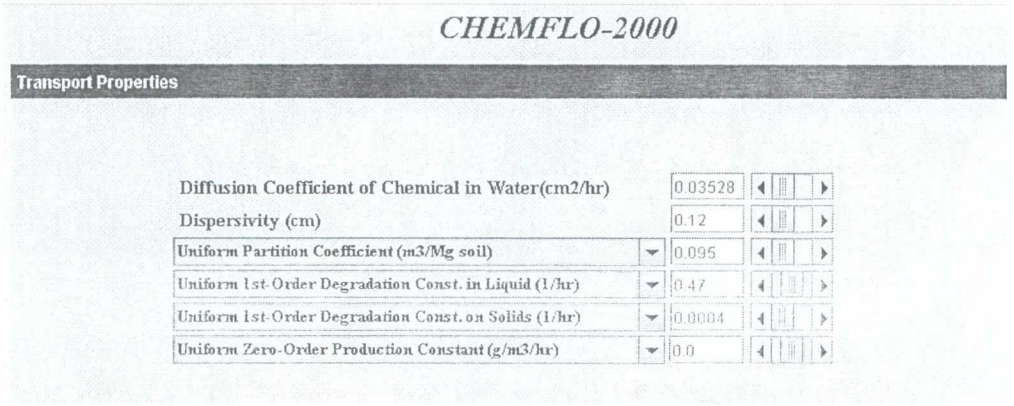


Figure A.3: Assumed chemical transport properties

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Western Refining Southwest Inc.	Contact Gaurav Rajen
Address I-40 Exit 39, Jamestown, NM 87347	Telephone No. 505-722-0227
Facility Name Gallup Refinery	Facility Type Oil refinery

Surface Owner Western Refining	Mineral Owner Western Refining	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23&33	15N	15W					McKinley

Latitude 35°29'22" **Longitude** 108°25'24"

NATURE OF RELEASE

Type of Release Gasoline (87 Octane)	Volume of Release 50 barrels of gasoline (2100 gallons) estimate	Volume Recovered In process
Source of Release Overflow from Marketing Tank # 3	Date and Hour of Occurrence 8/7/2008; 4:15 pm (approximately)	Date and Hour of Discovery 8/7/2008; 4:30 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl J. Chavez, NMEMNRD, Oil Conservation Division; Hope Monzeglio, NMED Hazardous Waste Bureau (via telephone)	
By Whom? Gaurav Rajen	Date and Hour 8/7/2008 (approximately) 5:00 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not applicable	

If a Watercourse was Impacted, Describe Fully.* Not applicable

Describe Cause of Problem and Remedial Action Taken.* At approximately 4:15 pm on 8/7/2008, the Operations Supervisor discovered that Marketing Tank #3 was running over. This Marketing Tank #3 was running over at the roof drains and spilling 87 Octane Gasoline onto the soil within the area surrounded by a berm. No product left the containment area within the berm. Water and foam were sprayed on the spilled product for suppression of any possibility of fire. There is a detailed investigation underway – the tank was overfilled, and the primary cause is yet to be determined.

Describe Area Affected and Cleanup Action Taken.*
The affected area within the berm had a surface area of approximately 10000 square feet with some vertical penetration of the gasoline (of as yet unknown depth, but, based on prior experience, presumed to be of the order of 2 feet or less).

The area was isolated through the use of barricades to prevent unauthorized intrusion. Trucks with vacuum pumps will be used to collect free liquids (product mixed with foam and water) from within the berm. Given the duration of the discharge from the drain pipes, and the tank and pipe geometry, the estimate of the spill is approximately 50 barrels of gasoline spilled onto the ground.

In further cleanup actions, contaminated soils will be excavated, confirmatory environmental samples will be collected and analyzed, and all contaminated materials will be disposed off in accordance with applicable regulations. There is a drainage ditch running alongside the bermed area that did not exhibit any signs of contamination apart from spray of water and foam from the fire suppression techniques employed. The water reaching the drainage ditch via the spray had not contacted any gasoline. This drainage ditch area will also be tested in the sampling and assessment to be undertaken.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Mark B. Turri	Approved by District Supervisor:	
Title: Refinery Manager – Gallup	Approval Date:	Expiration Date:
E-mail Address: mturri@wnr.com	Conditions of Approval:	Attached ☐
Date: 8-4-2008 Phone: 505-722-3833		

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Western Refining Southwest Inc.	Contact Gaurav Rajen
Address I-40 Exit 39, Jamestown, NM 87347	Telephone No. 505-722-0227
Facility Name Gallup Refinery	Facility Type Oil refinery

Surface Owner Western Refining	Mineral Owner Western Refining	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23&33	15N	15W					McKinley

Latitude 35°29'22" **Longitude** 108°25'24"

NATURE OF RELEASE

Type of Release Gasoline (87 Octane)	Volume of Release 50 barrels of gasoline (2100 gallons) estimate	Volume Recovered In process
Source of Release Overflow from Marketing Tank # 3	Date and Hour of Occurrence 8/7/2008; 4:15 pm (approximately)	Date and Hour of Discovery 8/7/2008; 4:30 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl J. Chavez, NMEMNRD, Oil Conservation Division; Hope Monzeglio, NMED Hazardous Waste Bureau (via telephone)	
By Whom? Gaurav Rajen	Date and Hour 8/7/2008 (approximately) 5:00 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not applicable	

If a Watercourse was Impacted, Describe Fully.* Not applicable

Describe Cause of Problem and Remedial Action Taken.* At approximately 4:15 pm on 8/7/2008, the Operations Supervisor discovered that Marketing Tank #3 was running over. This Marketing Tank #3 was running over at the roof drains and spilling 87 Octane Gasoline onto the soil within the area surrounded by a berm. No product left the containment area within the berm. Water and foam were sprayed on the spilled product for suppression of any possibility of fire. There is a detailed investigation underway – the tank was overfilled, and the primary cause is yet to be determined.

Describe Area Affected and Cleanup Action Taken.*
The affected area within the berm had a surface area of approximately 10000 square feet with some vertical penetration of the gasoline (of as yet unknown depth, but, based on prior experience, presumed to be of the order of 2 feet or less).

The area was isolated through the use of barricades to prevent unauthorized intrusion. Trucks with vacuum pumps will be used to collect free liquids (product mixed with foam and water) from within the berm. Given the duration of the discharge from the drain pipes, and the tank and pipe geometry, the estimate of the spill is approximately 50 barrels of gasoline spilled onto the ground.

In further cleanup actions, contaminated soils will be excavated, confirmatory environmental samples will be collected and analyzed, and all contaminated materials will be disposed off in accordance with applicable regulations. There is a drainage ditch running alongside the bermed area that did not exhibit any signs of contamination apart from spray of water and foam from the fire suppression techniques employed. The water reaching the drainage ditch via the spray had not contacted any gasoline. This drainage ditch area will also be tested in the sampling and assessment to be undertaken.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Mark B. Turri	Approved by District Supervisor:	
Title: Refinery Manager – Gallup	Approval Date:	Expiration Date:
E-mail Address: mturri@wnr.com	Conditions of Approval:	Attached ☐
Date: 8-4-2008 Phone: 505-722-3833		

TABLE A.15. SPILLS AND MISCELLANEOUS WASTE STREAMS, WESTERN REFINING, LLC, GALLUP REFINERY, GALLUP, NEW MEXICO

Source	Controlled/ Uncontrolled	Disposition	Percent Aqueous	Percent Organic	Hydrocarbon Density (lbs/ft^3)	Benzene Aqueous (mg/L)	Benzene Organic (mg/kg)	Total Benzene in Waste (ppmw)	Volume (gallons)	Total Annual Benzene (Mg/yr)	Notes
Tank Farm Process Pipe Rack Fuel Oil	Uncontrolled	Ground	0	100	54.7	0.00	283.00	283.00	42.00	0.00004	a,b,d,e
Railrack Spot #12 West Fuel Oil	Uncontrolled	Ground	0	100	54.7	0.00	283.00	283.00	2.00	0.00000	a,b,d,e
Diesel House Tank (Diesel)	Uncontrolled	Ground	0	100	53.4	0.00	210.13	210.13	20.00	0.00001	a,b,d,e
T-344 Varec Gauge Platformate	Uncontrolled	Ground	0	100	50.1	0.00	12364.00	12364.03	5.00	0.00019	a,b,d,e
T-105 and Flare KO Drum Drain Line (Slop and Water)	Uncontrolled	Ground	20	80	50.7	0.00	2632.86	2013.09	84.00	0.00054	a,b,d,e
LCO Charge Pump to DHT (LCO)	Uncontrolled	Ground	0	100	56.2	0.00	121.50	121.50	210.00	0.00009	a,c,d,e
Marketing Tank 1 Overfill Diesel	Uncontrolled	Ground	0	100	53.4	0.00	210.13	210.13	840.00	0.00057	a,b,d,e
Tank 706 Pumpseal Failure Fuel Oil	Uncontrolled	Ground	0	100	54.7	0.00	281.30	281.30	210.00	0.00020	a,b,d,e
Tank 577 Overfill ULSD	Uncontrolled	Ground	0	100	53.4	0.00	210.13	210.13	12600.00	0.00856	a,b,d,e
Tank 116 Overfill Diesel	Uncontrolled	Ground	0	100	53.4	0.00	210.13	210.13	3150.00	0.00214	a,b,d,e
Loading Arm LCO	Uncontrolled	Ground	0	100	56.2	0.00	121.50	121.50	3.00	0.00000	a,c,d,e
Z-81-T-9 Quincy Tank Diesel	Uncontrolled	Ground	0	100	53.4	0.00	210.13	210.13	5.00	0.00000	a,b,d,e
Marketing Tank 2 Gasoline	Uncontrolled	Ground	0	100	48.9	0.00	8174.78	8174.80	8400.00	0.20340	a,b,d,e
Marketing Tank 3 Gasoline	Uncontrolled	Ground	0	100	48.9	0.00	8174.78	8174.80	2100.00	0.05085	a,b,d,e
Tank 565 Spill Natural Gasoline	Uncontrolled	Ground	0	100	46.8	0.00	3470.00	3470.01	5.00	0.00005	a,b,d,e
Diesel Additive Pad Diesel Spill	Uncontrolled	Ground	0	100	53.4	0.00	210.13	210.13	15.00	0.00001	a,b,d,e
Tank 235 Slop Oil	Uncontrolled	Ground	0	100	50.7	0.00	2632.86	2632.87	2.00	0.00002	a,b,d,e
Z-81-T9 Diesel	Uncontrolled	Ground	0	100	53.4	0.00	210.13	210.13	10.00	0.00001	a,b,d,e
Deprop. Reboiler A-325 Diesel	Uncontrolled	Ground	0	100	53.4	0.00	210.13	210.13	3.00	0.00000	a,b,d,e
Tank 107 Overfill Slop Oil	Uncontrolled	Ground	0	100	50.7	0.00	2632.86	2632.87	924.00	0.00747	a,b,d,e
T-226 Kerosene	Uncontrolled	Ground	0	100	48.7	0.00	166.00	166.00	2100.00	0.00103	a,b,d,e
Flare KO Drum	Uncontrolled	Process Sewer	90	10	41.4	1.78	1780.00	123.87	0.17	0.00000	a,e,f,g,h

TAB (Mg/yr)
0.27519

Notes

Hydrocarbon density is based on similar streams at other refineries.

Organic benzene concentration is based on similar streams at other refineries.

Organic benzene concentration is based on average of samples collected in February 2009.

Volume is based on Refinery 2008 spill records.

Aqueous/organic phase percentage is based on process knowledge.

Volume is based on Refinery 2007 spill records.

Consistent with data collected at other refineries, assume benzene concentration in organic phase is 100 times that of the aqueous phase.

Aqueous benzene concentration based on average of samples collected in 2008.

Clean Harbors
ENVIRONMENTAL SERVICES®

BENZENE NESHAP QUESTIONNAIRE Profile Number CN344197B

This form is for industries with SIC codes that are potentially subject to the Benzene NESHAP regulation that requires Clean Harbors to follow additional recordkeeping procedures (40 CFR 61 Subpart FF)

1. Does the hazardous waste stream come from a facility with one of the following SIC codes listed under the NESHAP?

NESHAP SIC CODES

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2879	2891	2892	2893	2895	2899	2911	3312
4953									

A. Yes ☒ If yes, please circle the appropriate SIC code(s). B. No ☐ If no, skip to #6

If your SIC code is 3312, do you perform COKE oven byproduct recovery operations? A. Yes ☐ B. No ☐

If your SIC code is 4953, does your facility accept wastes from chemical manufacturing plants, coke by-product recovery plants or petroleum refineries? A. Yes ☐ B. No ☐

2. Does this hazardous waste contain benzene? A. Yes ☒ (Go to #3) B. No ☐ (Go to #6)

3. What is the Total Annual Benzene (TAB) for the facility that generated this waste?

A. 5.77 Megagrams[1]/year (1 Mg = 2200 lbs.)

B. For what calendar year was the TAB calculated? 2007

4. What is the Total Benzene concentration in your waste?

A. _____ percent B. 7.1 ppmw (7.1 mg/L)

The basis for this benzene concentration is: ☐ Knowledge of the Waste OR ☒ Test Data

If knowledge, please describe the knowledge that you rely upon in making this claim: _____

_____

If testing, please attach analytical. Date of the sampling data ALREADY SENT VIA email

Has the process that generates the benzene-containing waste stream materially changed since the time of your evaluation based on testing or knowledge? ☐ Yes ☐ No

5. Does the waste contain >10% water? A. Yes ☐ B. No ☒

If yes, the average concentration of water is _____%.

6. CERTIFICATION:

I certify that all information (including attachments) is complete and factual and is accurate representation of the known and suspected hazards, pertaining to the waste described herein. If the concentration of benzene in this waste stream is represented as a range, I certify that the actual benzene concentration in the waste being shipped is not greater than the maximum of the range listed. I will notify Clean Harbors if any of the above information changes.

Signature: _____ Company Name: Western Refining Southwest Inc.

Printed Name: Cheryl Johnson Title: Environ. Specialist Date: 12/9/08

[1] Benzene NESHAP wastes generated at 10 Megagram or greater facilities require a notification statement to accompany each shipment [40 CFR 61.342(f)(2)]

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-138
Revised March 12, 2007

Surface Waste Management Facility Operator And Generator shall maintain and make this Documentation available for Division Inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Western Refining Southwest Inc., Route 3 Box 7, Gallup, NM 87301

2. Originating Site: Western Refining Southwest Inc., Gallup, Refinery, I-40 Exit 39, Jamestown, NM 87347

3. Location of Material (Street address, City, State or ULSTR):
I-40 Exit 39, Jamestown, NM 87347

4. Source and Description of Waste: Excavated petroleum contaminated soil from a refined product, diesel fuel spill at Tank 116 mixed with sandblast media. On 4-24-08, T-116 was overfilled causing product to run over the top and down the sides of the tank. Approximately 75 bbls of product was spilled to ground surface inside bermed area. 80% of product was recovered with a vacuum truck. There was sandblast media on ground surface from maintenance (sandblast & painting) work inside of T-115. There was also one pallet of sandblast media in the area at time of spill. The pooling of the diesel spill contaminated the bags of sandblast media causing the bags to tear and get mixed in with the contaminated soil. (approximately 8 bags).
Estimated Volume 200 yd^3 Known Volume (to be entered by the operator at the end of the haul) _____ yd^3/bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Cheryl Johnson, representative or authorized agent for Western Refining Southwest, Inc., do hereby certify that According to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory Determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-Exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by Characteristics established in RCRA regulations, 40 CRF 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, Subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, **Cheryl Johnson**, representative for **Western Refining Southwest, Inc.** do hereby certify that representative Samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been Found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the Representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:
Rinchem Company, Inc. 505-998-4143

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: GANDY MARLEY, INC. NM-711-1-0019

Address of Facility: PO BOX 1658, ROSWELL, NM 88202

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must be Maintained as Permanent Record)

PRINT NAME: Mike Marley TITLE: Secretary / Treasurer DATE: 11-6-08

SIGNATURE: Mike Marley Telephone NO. FACILITY 575-398-0107, OFFICE 575-347-0434
Surface Waste Management Facility Authorized Agent

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Western Refining Southwest Inc.	Contact Gaurav Rajen
Address I-40 Exit 39, Jamestown, NM 87347	Telephone No. 505-722-0227
Facility Name Gallup Refinery	Facility Type Oil refinery

Surface Owner Western Refining	Mineral Owner Western Refining	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	23&33	15N	15W					McKinley

Latitude 35°29'22" Longitude 108°25'24"

NATURE OF RELEASE

Type of Release Ultra-Low Sulfur Diesel (ULSD)	Volume of Release 75 barrels (3150 gallons) estimate	Volume Recovered 12 barrels (500 gallons) estimate
Source of Release Overflow from Tank 116	Date and Hour of Occurrence 4/24/2008; 2:00 am (approximately)	Date and Hour of Discovery 4/24/2008; 2:50 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl J. Chavez, NMEMNRD, Oil Conservation Division; Hope Monzeglio, NMED Hazardous Waste Bureau (via telephone)	
By Whom? Gaurav Rajen and Cheryl Johnson	Date and Hour 4/24/2008 (approximately) 11:00 am	
Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not applicable	

If a Watercourse was Impacted, Describe Fully.* Not applicable

Describe Cause of Problem and Remedial Action Taken.* At approximately 2:50 am on 4/24/2008, the Operations Shifter discovered Tank 116 running over. The Pump Operator was notified and a transfer was started into Tank 583. Tank 116 had run over and spilled ULSD onto the soil within the area surrounded by a berm. A lesser amount of ULSD ran down within the foam line leading into the tank. Through a drain valve on the foam line that is buried in the ground outside the berm area, some ULSD leaked out onto a service road running adjacent to Tank 116. The operator used a backhoe to build a containment dike on this road outside the tank berm area, and the spill on the road was blocked from further migration.

Describe Area Affected and Cleanup Action Taken.*
The affected area within the berm had a surface area less than approximately 500 square feet with some vertical penetration of the ULSD (of as yet unknown depth, but, based on prior experience, presumed to be of the order of 1-2 feet maximum). An affected area of approximately 500 feet in length and 2-10 feet wide (depending on the amount of pooling of the spilled material) lay along the service road. The material on the road surface is expected to have penetrated to a depth of the order of a few inches (maximum) into the underlying surface as the road surface is partially paved.

A truck with a vacuum pump was used to collect free ULSD product from within the berm and on the service road. Absorbent material was placed on the spill along the road; and this area was isolated through the use of barricades. In further cleanup actions, contaminated soils will be excavated, confirmatory environmental samples will be collected and analyzed, and all contaminated materials will be disposed off in accordance with applicable regulations.

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

Signature: Mark B. Turri	OIL CONSERVATION DIVISION
Printed Name: Mark B. Turri	Approved by District Supervisor:
Title: Refinery Manager – Gallup	Approval Date: / Expiration Date:
E-mail Address: mturri@wnr.com	Conditions of Approval: / Attached ☐
Date: 4-30-2008 Phone: 505-722-0833	

- Attach Additional Sheets If Necessary

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-138
Revised March 12, 2007

Surface Waste Management Facility Operator And Generator shall maintain and make this Documentation available for Division Inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Western Refining Southwest Inc., Route 3 Box 7, Gallup, NM 87301

2. Originating Site:
Western Refining Southwest Inc., Gallup Refinery, I-40 Exit 39, Jamestown, NM 87347

3. Location of Material (Street address, City, State or ULSTR):
I-40 Exit 39, Jamestown, NM 87347

4. Source and Description of Waste:
Excavated petroleum contaminated soil from a refined product, diesel fuel leak at the Boiler House.

Estimated Volume 260 yd³ Known Volume (to be entered by the operator at the end of the haul) yd³/bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Cheryl Johnson, representative or authorized agent for Western Refining Southwest, Inc., do hereby certify that According to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory Determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-Exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by Characteristics established in RCRA regulations, 40 CRF 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, Subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Cheryl Johnson, representative for Western Refining Southwest, Inc., do hereby certify that representative Samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been Found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the Representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:
Rinchem Company, Inc.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: GANDY MARLEY, INC. PERMIT NO. 711-1-0019
Address of Facility: PO BOX 1658, ROSWELL, NM 88202

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ APPROVED ☐ DENIED (Must be Maintained as Permanent Record)

PRINT NAME: Mike Marley TITLE: Secretary/Treasurer DATE: 11-7-08

SIGNATURE: Mike Marley Telephone NO. Facility 575-398-0107, OFFICE 575-347-0434
Surface Waste Management Facility Authorized Agent

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

COPY

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

Form C-138
Revised March 12, 2007

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Western Refining Company, I-40 @ Exit 39, Jamestown, NM 87347

2. **Originating Site:**
Western Refining Company, I-40 @ Exit 39, Jamestown, NM 87347

3. **Location of Material (Street Address, City, State or ULSTR):**
Western Refining Company, I-40 @ Exit 39, Jamestown, NM 87347

4. Source and Description of Waste: Excavated Petroleum Contaminated Soil from a refined product diesel fuel spill at Tk 577 (ULSD).

Estimated Volume 350 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Bryon Holbrook, representative or authorized agent for Western Refining Company do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load*

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☒ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for Envirotech Inc do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter:**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: Hilltop, New Mexico

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Bryon Holbrook TITLE: Environmental Engineer DATE: 3-24-08

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615

Surface Waste Management Facility Authorized Agent

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 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-138
Revised March 12, 2007

Surface Waste Management Facility Operator And Generator shall maintain and make this Documentation available for Division Inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Western Refining Southwest Inc., Route 3 Box 7, Gallup, NM 87301

2. Originating Site:
Western Refining Southwest Inc., Gallup Refinery, I-40 Exit 39, Jamestown, NM 87347

3. Location of Material (Street address, City, State or ULSTR):
I-40 Exit 39, Jamestown, NM 87347

4. Source and Description of Waste:
Excavated petroleum contaminated soil from a refined product, diesel fuel spill at T577 (ULSD)

Estimated Volume 300 yd³ Known Volume (to be entered by the operator at the end of the haul) _____ yd³/bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Cheryl Johnson, representative or authorized agent for Western Refining Southwest, Inc., do hereby certify that According to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory Determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-Exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by Characteristics established in RCRA regulations, 40 CRF 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, Subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☒ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ do hereby certify that representative Samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been Found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the Representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:
Rinchem Company, Inc.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc., Soil Remed

Address of Facility: Hilltop, New Mexico

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plan

Waste Acceptance Status:
☐ **APPROVED**

5/29/08

(Permanent Record)

PRINT NAME: _____ TITLE: _____

SIGNATURE: _____
Surface Waste Management Facility Authorized Agent

T577 - Sampled for Closure 6/23/08

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-138
Revised March 12, 2007

Surface Waste Management Facility Operator And Generator shall maintain and make this Documentation available for Division Inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Western Refining Southwest Inc., Route 3 Box 7, Gallup, NM 87301

2. Originating Site: Western Refining Southwest Inc. Gallup Refinery, I-40 Exit 39, Jamestown, NM 87347

3. Location of Material (Street address, City, State or ULSTR):
I-40 Exit 39, Jamestown, NM 87347

4. Source and Description of Waste:
Excavated petroleum contaminated soil from a refined product, kerosene spill at Tank 226.

Estimated Volume 198 yd³ Known Volume (to be entered by the operator at the end of the haul) _____ yd³/bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Cheryl Johnson, representative or authorized agent for Western Refining Southwest, Inc., do hereby certify that According to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory Determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-Exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by Characteristics established in RCRA regulations, 40 CRF 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, Subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Cheryl Johnson, representative for Western Refining Southwest, Inc., do hereby certify that representative Samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been Found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the Representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter:**
Rinchem Company, Inc. 505 998-4143

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: GANDY MARLEY, INC. NM-711-1-0019

Address of Facility: **PO BOX 1658, ROSWELL, NM 88202**

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must be Maintained as Permanent Record)

PRINT NAME: Mike Marley TITLE: Secretary/Treasurer DATE: 11-6-08

SIGNATURE: Mike Marley Telephone NO. **FACILITY 575-398-0107, OFFICE 575-347-0434**
Surface Waste Management Facility Authorized Agent

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52695

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Gandy Marley, Inc
Sections 4,5,8 &9 of T11S, R31E NMPM
Chavez County, NM
NMD988033813 NM-01-0019

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: (505)347-0434

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL, (TPH SOIL)	1	DM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact:505-722-3833

P.O. # 03442 spill 116

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date Month	Day	Year
+ Alvin Dorsey	Alvin Dorsey	12	05	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE Hugh	S Eugene	12	05	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
DeWayne Wife	DeWayne Wife	12	08	08

NON-HAZARDOUS WASTE MANIFEST

298907

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211 ~~52687~~	Manifest Document No. 52688	2. Page 1 of 1
3. Generator's Name and Mailing Address Western Refining Southwest Gallup Refi I-40 EXIT 39 4. Generator's Phone (505) 722-3833 JAMESTOWN NM 87347			
5. Transporter 1 Company Name RINCHEM CO INC	6. US EPA ID Number NMD002208627	A. State Transporter's ID B. Transporter 1 Phone (505)345-3655	
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Gandy Marley, Inc Sections 4,5,8 &9 of T11S, R31E NMPM Chavez County, NM	10. US EPA ID Number NMD982412472 NM-01-0019	E. State Facility's ID F. Facility's Phone (505)347-0434	

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL, (TPH SOIL)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

PO# 3431

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 5005-722-3833
TANK 22 LOT
Tk 226

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
ALVIN DORSEY		11	21	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		11	21	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space
N/A

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
DeWayne Wolfe	DeWayne Wolfe	11	26	08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52687

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name
RINCHEM CO INC

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone (505)345-3655

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Gandy Marley, Inc
Sections 4,5,8 &9 of T11S, R31E NMPM
Chaves County, NM

10. US EPA ID Number NMD988022648

E. State Facility's ID

F. Facility's Phone (505)347-0434

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL, (TPH SOIL)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
PO#3430

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833
T 11 6

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date Month	Day	Year
ALVIN DOTSEY		11	28	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Ucel		11	28	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
DeWayne Wolfe	DeWayne Wolfe	11	28	08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52696

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Gandy Marley, Inc
Sections 4 5 8 9 of T11S, R31E NMPM
Chaves County NM

10. US EPA ID Number: NMD988073983

E. State Facility's ID

F. Facility's Phone: (505)347-0434

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL, (TPH SOIL)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
PO #03417

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833
TANK 220

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
ALVIN DOISEY		11	12	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
		11	12	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
J TOLTON	J Tolton	11	13	08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

Western Refining Southwest Gallup Refi

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

Clean Harbors, Inc.

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	1	CM	18	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

PO# 03415

PO# P.W

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 hour emergency contact (505-722-3833

Tank 226

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date Month	Day	Year
ALVIN DOISEY		11	10	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
		11	10	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
J TALTON		11	11	08

FACILITY

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill

Shipment No. 45645

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

Physical Address:
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

Profile # 10023/nm

1. Generator's work site name and address
Western Refining Southwest Gallup Refinery - Same as #2

2. Generator's name and address
Western Refining Southwest Gallup Refinery
I-40 Exit 39
Jamestown, nm 87347

Generator's Telephone no.
505 722 3833

3. Authorized Agent's name and mailing address (if different from #2)
Rinchem Company, Inc.
6133 Edith Blvd. NE
Albuquerque, nm 87107

Agent's Telephone no.
505 345 3655

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) (tons)
Non-DOT, non-RCRA Regulated Material, solid (TPH Contaminated Soil, tar)	01	cm	20 403

7. **Special handling instructions:**
Contact # 6615

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Beck Larsen		10/13/08

9. Transporter 1 (Acknowlegement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
Rinchem Company, Inc. 6133 Edith Blvd NE Albuquerque, nm 87107		10/13/08

10. Transporter 2 (Acknowlegement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates
Cell 6 North

Received By (printed/typed name):	Signature	Month / Day / Year
		10/14/08

White/GEN Yellow/CUSTOMER Pink/LANDFILL

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52627	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955
		F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 Hour Emergency Contact: 505-722-3833
Diesel contamoisted soil
Boiler spill

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
ALVIN Dorsey		10	13	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE Vigil		10	13	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52623

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone 505)722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Boiler Room Spill
Diesel contamenated Soil

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

I. Special Handling Instructions and Additional Information
24 Hour Emergency Contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Alvin Dorsey	Alvin P	10 06 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Eugene Vigil		10 06 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
		10 6 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52625	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955 F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above
	1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 Hour Emergency Contact: 505-722-3833 diesel contam soil
577 Diesel spill

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Alvin Dorsey		08	26	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		08	26	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
LEROY JENSON		8	26	08

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52624	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505)722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955 F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	12 ~~18~~	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 Hour Emergency Contact: 505-722-3833
Flare Spill
diesel cont soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
ALVIN Dorsey		08 26 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
EUGENE Vigil		08 26 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
LEROY JENSEN		8 26 08

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52622

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 Hour Emergency Contact: 505-722-3833
Diesel contamined Soil
TANK SPILL 577

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name: Cheryl Johnson — Signature — Date: Month 8 Day 25 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eugene Vigil — Signature — Date: Month 08 Day 25 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: LEROY JENSEN — Signature — Date: Month 8 Day 25 Year 08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52621

2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone 505 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Contact: 505-722-3833

diesel spill
TANK 577

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Cheryl Johnson | Signature | Date: Month 8 Day 25 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eugene Vigil | Signature | Date: Month 08 Day 25 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: LEROY JENSEN | Signature | Date: Month 8 Day 25 Year 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52620	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone 505 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955
		F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above
	1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 Hour Emergency Contact: 505-722-3833 TANK 547
Diesel Contaminated Soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month Day Year
Cheryl Johnson		7 17 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Eugene Vigil		07 17 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month Day Year
John Hubbard	John Hubbard	7 17 08

GENERATOR TRANSPORTER FACILITY NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52619	2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi, I-40 EXIT 39, JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility, US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955
		F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. ~~Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon~~ contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information

24 Hour Emergency Contact: 505-722-3833

Diesel contameded soil
TANK 5-77

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month Day Year
Cheryl Johnson		7 16 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
EUGENE VIGIL		07 16 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month Day Year
JAMES CARDENAS		7 16 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52618

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 Hour Emergency Contact: 505-722-3833
Diesel contamined soil
TANK spill 577

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Cheryl Johnson — Signature — Date: Month 7 Day 16 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EUGENE VIGIL — Signature — Date: Month 07 Day 16 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: JAMES CARDENAS — Signature: James Cardenas — Date: Month 7 Day 16 Year 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52617	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955 F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated material (Total Petroleum Hydrocarbon contaminated soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY CONTACT: 505-722-3833
Diesel contamcated soil/flare AREA

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Cheryl Johnson		7	9	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		07	09	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Leroy Jensen		07	09	08

GENERATOR TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52539

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID DP955

F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
Flare Spill
TKST Spill Soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Cheryl Johnson — Signature — Date: Month 07 Day 08 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EUGENE Vigil — Signature — Date: Month 07 Day 08 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name — Signature: Tim Andrews — Date: Month 8 Day 8 Year 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52538	2. Page 1 of

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: (505) 722-3833
~~FF~~ 577 Spill Soil
Boiler Room

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
~~Roger Hoskins~~ Cheryl Johnson		07	07	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENIE VIGIL		07	07	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
LEROY FEUSEN		7	18	08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211 | Manifest Document No. 52537 | 2. Page 1 of

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505 722-3833)

5. Transporter 1 Company Name: RINCHEM CO INC | 6. US EPA ID Number: NMD002208627 | A. State Transporter's ID: (505)345-3655

B. Transporter 1 Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number | E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
TK577 Spill Soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: BRYON HOLBROOK | Signature | Date: Month 06 Day 13 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EUGENE VIGIL | Signature | Date: Month 06 Day 13 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: LEROY JENSEN | Signature | Date: Month 6 Day 13 Year 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52576

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505 722-3833)

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID (505)345-3655

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID DP955

F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833 TANK 116 #

diesel contaminated Soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Alvin Dorsey		06 12 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Eugene Vigil		06 12 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
LEROY JENSEN		6 12 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211 | Manifest Document No. 52577 | 2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505 722-3833)

5. Transporter 1 Company Name: RINCHEM CO INC | 6. US EPA ID Number: NMD002208627 | A. State Transporter's ID (505)345-3655 | B. Transporter 1 Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | C. State Transporter's ID | D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM | 10. US EPA ID Number | E. State Facility's ID ~~DP055~~ | F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: Diesel contaminated Soil
CT 116 Tank

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Alvin Dorsey		06	11	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		06	11	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Ray Johnson		06	11	08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: ~~52478~~ 52578

2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: ~~(505)345-3655~~

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. ~~Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)~~	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

116 Tank
~~Late~~ Desil diesel contamined soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)
ALVIN Dorsey		06 / 11 / 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
EUGENE Vigil		06 / 11 / 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
LEROY JENSEN		6 / 11 / 08

GENERATOR — TRANSPORTER — FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 577	2. Page 1 of
3. Generator's Name and Mailing Address	Western Refining Southwest Gallup Refi I-40 EXIT 39 JAMESTOWN, NM 87347		
4. Generator's Phone (505 722-3833)			
5. Transporter 1 Company Name RONCHEM CO INC	6. US EPA ID Number NMR000208627	A. State Transporter's ID 505345-3633	
		B. Transporter 1 Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	
		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Envirotech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM	10. US EPA ID Number	E. State Facility's ID NM0035 F. Facility's Phone (505)326-6131	

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material Contaminated (TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

Diesel contaminated Soil
CT 116 Tank

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Alvin Dorsey		06	11	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		06	11	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Ray Johnson		6	11	08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD0803333211	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi I-40 EXIT 39 JAMESTOWN, NM 87347		
4. Generator's Phone (505) 722-3833		
5. Transporter 1 Company Name: RINCHEM CO INC	6. US EPA ID Number: NMD982208627	A. State Transporter's ID B. Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID D. Transporter 2 Phone
9. Designated Facility Name and Site Address: Envirotech Soil Remediation Facility US 550, exit mile marker 137 NM (Aztec) Hilltop, NM	10. US EPA ID Number	E. State Facility's ID: DP35 F. Facility's Phone: (505)632-0615

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-RCRA Regulated Material Contaminated with Crude Oil	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) EROSI NA

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date: Month	Day	Year
Alvin Dorsey		06	11	04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year
		06	11	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date: Month	Day	Year
Luke Jensen		6	11	04

GENERATOR / TRANSPORTER / FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52542

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833

TK577 Spill Soil

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook		05	09	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE Vigil		05	09	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
William L. Richard		5	9	08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52541

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Enviro Tech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID DP955

F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833

TK577 Spill Soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook	Bryon Holbrook	05	08	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
		05	08	08

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Rudy Hudson		5	8	08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52540

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833

TK577 Spill Soil

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Hoolbrook	Bryon Hoolbrook	05	07	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		05	07	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
William L Richard	William L Richard	05	07	08

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. ~~52536~~

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name
RINCHEM CO INC

6. US EPA ID Number
NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID DP955

F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
TK 577 Spill Soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryan Holbrook
Signature: Bryan Holbrook
Date: Month 05 Day 08 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eugene Vigil
Signature:
Date: Month 05 Day 08 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Leroy Teasdale
Signature:
Date: Month 5 Day 8 Year 08

GENERATOR
TRANSPORTER
FACILITY

CF14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

PRINTED ON RECYCLED PAPER USING SOYBEAN INK
PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52331	2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address: Western Refining, I-40 Exit 39, Jamestown, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility, US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: (505)722-3833

TANK 577 Spill

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Allen Dorsey	allen D	04 30 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
John P Hambay	John P Hambay	04 30 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
William L. Richard	William L. Richard	4 30 08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52575	2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955
		F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	Wt./Vol.
a. ~~Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)~~	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) ERG# NA

15. Special Handling Instructions and Additional Information

~~24 hour emergency contact: 505-722-3833~~

Tank 577 Spill

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month Day Year
Alvin Quesay		04 29 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
John P Hamby	John P Hamby	04 29 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month Day Year
Leon Jensen		4 30 08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52574

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505)722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833,
Tank 577 Spill

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
ALVIN Dorsey		04 29 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
John P Hamby	John P Hamby	04 29 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Wm Jensen		4 30 08

GENERATOR — TRANSPORTER — FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52573

2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

TANK 577 Spill

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)
ALVIN Dorsey	alvin D	04 / 29 / 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
John P Hamboy	John P Hamboy	04 / 29 / 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
		/ /

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
William L. Richard	William L. Richard	4 / 29 / 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52572	2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID	
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone	(505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID	
		D. Transporter 2 Phone	

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

24 hour emergency contact: (505) 722-3833

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information

Tank 571 Spill

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Cheryl Johnson		4 28 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
John P Hambay	John P Hambay	04 28 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Cheryl Jenson		4 29 08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52571

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505)722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
a) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
Tank 577 Spill

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Cheryl Johnson		4 28 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
John P Hambay	John P Hambay	04 28 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
William L Richard	William L Richard	4 28 08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52543	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955 F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833

TK577 Spill Soil TPH 50.4

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook	Bryon Holbrook	4	16	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		04	16	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Leroy Jensen		4	16	08

GENERATOR TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52544	2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955 F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: (505) 722-3833

TK577 Spill Soil TPH 50.2

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Bryon Hourbrook	Bryon Hourbrook	4 15 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
EUGENE Vigil		04 15 08

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Jim Cardenas		4 15 08

GENERATOR TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52545	2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955
		F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

24 hour emergency contact: (505) 722-3833

H. Handling Codes for Wastes Listed Above: 1) ERG# N/A

15. Special Handling Instructions and Additional Information

TK 577 Spill Soil TPH 50.1

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook	Bryon Holbrook			

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		04	15	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Leroy Jensen		4	15	08

GENERATOR TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52501	2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
~~Fuel, Oil RACK Soil~~ P.W.
TANK 577 Spill

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook	Bryon Holbrook	4	14	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE Vigil		04	14	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Leroy Jensen		4	14	08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52546

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
TPH 50's
TK577 Spill Soil

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook	Bryon Holbrook	4	14	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		04	14	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
LEROY FENSON		4	14	08

GENERATOR — TRANSPORTER — FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52548	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel P Hilltop, NM		DP955 F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14 Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
TPH soil
TK577 Spill Soil

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook	Bryon Holbrook	04	02	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE Vigil	[signature]	04	02	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
William L. Richard	William L. Richard	04	02	08

GENERATOR — TRANSPORTER — FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52547

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
TK577 Spill Soil TPH soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook	Bryon Holbrook	04	02	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		04	02	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
LEROY JENSEN		04	02	08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52549

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320-6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
TK577 Spill Soil TPH Soil

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date Month	Day	Year
Bryon Holbrook	Bryon Holbrook	04	01	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Eugene Vigil		04	01	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Leroy Jensen		04	01	08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52550

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

7. Transporter 2 Company Name:

8. US EPA ID Number:

A. State Transporter's ID:

B. Transporter 1 Phone: (505)345-3655

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address:
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel P
Hilltop, NM

10. US EPA ID Number:

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Diesel Contaminated Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833
TPH Soil
TR577 Spill Soil

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Bryon Holbrook	Bryon Holbrook	03 31 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Eugene Vigil		03 31 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Leroy Jensen		3 31 08

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 32586

2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi, I-40 EXIT 39, JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD982208627

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Envirotech Soil Remediation Facility, US 550, exit mile marker 137 (Aztec Oak), Hilltop, NM

10. US EPA ID Number

11. WASTE DESCRIPTION

A. State Transporter's ID

B. Transporter 1 Phone (505)632-3031

C. State Transporter's ID

D. Transporter 2 Phone

E. State Facility's ID: NM055

F. Facility's Phone (505)632-0615

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above: 11 ERGW N/A

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: (505) 722-3833, GASOLINE Spill SIL

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name: Bryan Hitchcock | Signature | Date: Month 7 Day 1 Year 6

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name | Signature | Date: Month Day Year

CF14

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 32534	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining
I-40 Exit 39
Jamestown, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD982098627	B. Transporter 1 Phone (505)345-3557
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
InnoTech Soil Remediation Facility US 550, exit mile marker 147 (1 Chaco) Aztec, NM		F. Facility's Phone (505)334-9551

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above
1) ERCM N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Dayon Holbrook		03	24	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Freeman Right		03	24	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

Generator Inital copy

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of

3. Generator's Name and Mailing Address

Western Refining
I-40 Exit 39

4. Generator's Phone ( ) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
		B. Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility		F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT NON RCRA REGULATED MATERIAL, (TPH SOIL)				
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

1) EROM PIT

15. Special Handling Instructions and Additional Information

24 hour emergency contact: (505) 722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
		03	19	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
John R Hankins	John R Hankins	03	19	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

Generator COPY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
		B. Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
		F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.				
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)

FACILITY

NON-HAZARDOUS WASTE MANIFEST

(Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52512

2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: ~~(505)345-3655~~

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: US Ecology
Highway 95, 11 miles south of Beatty, NV
Beatty, NV 89003

10. US EPA ID Number: NVT330010000

E. State Facility's ID

F. Facility's Phone: (800)239-3943

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. ~~NON DOT NON RCRA REGULATED MATERIAL, SOLID,~~ (oil contaminated soil)	54	DM	35100	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: 1) 070128043-599

RC 8148
H039

H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

I. Special Handling Instructions and Additional Information: 24 hour emergency contact!

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Bryon Hoobrook	Bryon Hoobrook	03 / 04 / 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Eugene Vigil		03 / 04 / 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Misty Beals	Misty Beals	03 / 05 / 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52517	2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
US Ecology Highway 95, 11 miles south of Beatty, NV Beatty, NV 89003	NVT330010000	F. Facility's Phone (800)239-3943

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT NON RCRA REGULATED MATERIAL, SOLID, (oil contaminated soil)	54 55	DM	35600	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
1) 070128043-599

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
PO#
RC8148
H039

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryan Hardcastle	Bryan Hardcastle	03	11	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE VIGIL		3	11	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
N. CATHART		3	18	08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52528

2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone: 505 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: ~~(505)345-3655~~

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: Rinchem Company, Inc.
6133 Edith Blvd NE
Albuquerque, NM 87107

10. US EPA ID Number: NMD002208627

E. State Facility's ID

F. Facility's Phone: (505)345-3655

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. ~~NON-DOT, NON-RCRA REGULATED MATERIAL, SOLID~~ (SANDBLAST MEDIA)	15	DM	7500	P
b. ~~NOT-DOT, NON-RCRA REGULATED MATERIAL (SPENT CARBON)~~	5	DM	2500	P
c. NON-DOT, NON-RCRA REGULATED MATERIAL, LIQUID (SULFUR SLURRY)	25	DM	12500	P
d.				

13. Additional Descriptions for Materials Listed Above
1) RC8257
2) RC8151
3) RC8240

14. Handling Codes for Wastes Listed Above
1) ERG# N/R
2) ERG# N/R
3) ERG# N/R

15. Special Handling Instructions and Additional Information
~~24 hour emergency contact: 505-722-3833~~

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: ALVIN Dorsey | Signature | Date: Month 03 Day 19 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EUGENE Vigil | Signature | Date: Month 03 Day 19 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Bonnie Clements | Signature: Bonnie Clements | Date: Month 03 Day 21 Year 08

GENERATOR

TRANSPORTER

FACILITY

Generator Copy

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.				
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
		B. Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
		F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.				
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date: Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date: Month	Day	Year

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
		B. Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
		F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.				
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials		Date Month	Day	Year
Printed/Typed Name	Signature			
18. Transporter 2 Acknowledgement of Receipt of Materials		Date Month	Day	Year
Printed/Typed Name	Signature			

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52504	2. Page 1 of 1

3. Generator's Name and Mailing Address: Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel Peak) Hilltop, NM		DP955
		F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a.) Fuel Oil Rack Soil

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Bryan Holbrook	Bryan Holbrook	2	28	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE Vigil		02	28	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
William L. Richard	William L. Richard	02	28	08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52505	2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refi
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility US 550, exit mile marker 137 1/4 (Angel Peak) Hilltop, NM		DP955 F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non DOT Non RCRA Regulated Material (Contaminated TPH Soil)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a.) FUEL OIL BACK SOIL

H. Handling Codes for Wastes Listed Above
1) ERG# N/A

15. Special Handling Instructions and Additional Information
24 hour emergency contact: (505) 722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Bryon Holbrook	Bryon Holbrook	02 28 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Eugene Vigil	Eugene Vigil	02 28 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
William Richard	William Richard	02 23 08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52510

2. Page 1 of 1

3. Generator's Name and Mailing Address
Western Refining Southwest Gallup Refining
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone 505 722-3833

5. Transporter 1 Company Name: Rinchem Company, Inc.

6. US EPA ID Number: NMD022208627

A. State Transporter's ID

B. Transporter 1 Phone (505) 345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
US Ecology
Hwy 95, 11 miles s. of Beatty, NV
Beatty, NV 89003

10. US EPA ID Number: NVT330010000

E. State Facility's ID

F. Facility's Phone 1-800-239-3943

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT NON RCRA REGULATED MATERIAL, SOLID, (oil contaminated soil)	54	DM	35100	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
1) 070128043-599

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

I. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holcomb
Signature: Bryon Holcomb
Date: Month 02 Day 26 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John P Hambay
Signature: John P Hambay
Date: Month 02 Day 26 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Misty Brooks
Signature: Misty Brooks
Date: Month 02 Day 27 Year 08

NON-HAZARDOUS WASTE GENERATOR TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD000333211

Manifest Document No. 52494

2. Page 1 of 1

3. Generator's Name and Mailing Address Western Refining Southwest Gallup ~~Giant Refining Company Gallup~~ Refinery
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
US Ecology
Highway 95, 11 miles south of Beatty, NV
Beatty, NV 89003

10. US EPA ID Number: NVT330010000

E. State Facility's ID

F. Facility's Phone: (800)239-3943

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT NON RCRA REGULATED MATERIAL, SOLID, (oil contaminated soil)	55	DM	E&P 35100	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
1) 070128043-599

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
BRYON HOLBROOK	Bryon Holbrook	02	21	08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE VIGIL		02	21	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Misty Brake		02	22	08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

RECEIVED
MAR 19 2008

or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52493 BY:	2. Page 1 of 1
3. Generator's Name and Mailing Address	Western Refining Company ~~Plant~~ & Cimiza Southwest Gallup Refinery I-40 EXIT 39 JAMESTOWN, NM 87347		
Generator's Phone ( )	505 722-3833		
5. Transporter 1 Company Name	RINCHEM CO INC	6. US EPA ID Number NMD002208627	A. State Transporter's ID (505)345-3655
			B. Transporter 1 Phone
7. Transporter 2 Company Name		8. US EPA ID Number	C. State Transporter's ID
			D. Transporter 2 Phone
9. Designated Facility Name and Site Address	US Ecology Highway 95, 11 miles south of Beatty, NV Beatty, NV 89003	10. US EPA ID Number NVT330010000	E. State Facility's ID
			F. Facility's Phone (800)239-3943

WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
~~ON DOT NON RCRA REGULATED MATERIAL~~ IN DOT NON RCRA REGULATED MATERIAL, SOLID, (oil contaminated soil)	01 52 ~~54~~	DM	Est. 35100	P

Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above
070128043-599 RC8148	1) ERG# N/R H039

Special Handling Instructions and Additional Information

GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month Day Year
Bryon Holbrook	Bryon Holbrook	02 19 08
Transporter 1 Acknowledgement of Receipt of Materials		Date
Printed/Typed Name	Signature	Month Day Year
Kenneth Sanchez		02 19 08
Transporter 2 Acknowledgement of Receipt of Materials		Date
Printed/Typed Name	Signature	Month Day Year

Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52482

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	Yds X
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a.) Gasoline Spill

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 50-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name: Bryon Hasbrook
Signature: Bryon Hasbrook
Date: Month 01 Day 25 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eugene Vigil
Signature:
Date: Month 01 Day 25 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Ray Johnson
Signature: Ray Johnson
Date: Month 2 Day 14 Year 08

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52474

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: ~~(505)345-3655~~

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	X YD
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: A) Gasoline Spill

H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holbrook — Signature — Date: Month 1 Day 25 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eugene Ugil — Signature — Date: Month 1 Day 25 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: William L Richard — Signature — Date: Month 02 Day 12 Year 08

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NMD000333211	Manifest Document No. 52473	2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza, I-40 EXIT 39, JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
RINCHEM CO INC	NMD002208627	B. Transporter 1 Phone (505)345-3655
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
EnviroTech Soil Remediation Facility, US 550, exit mile marker 137 1/4 (Angel Peak Rd), Hilltop, NM		DP955
		F. Facility's Phone (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: a.) GASOLINE Spill

H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

15. Special Handling Instructions and Additional Information: **24 hour emergency contact: 505-722-3833**

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date Month	Day	Year
BRYON Holbrook		1	25	08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
EUGENE Vigil		1	25	08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
LEROY JENSEN		01	25	08

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52472

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: ~~(505)345-3655~~

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd.)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	X YD
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a) Gasoline Spill

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holbrook (BH)

Signature: Bryon Holbrook

Date: Month 1 Day 24 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EUGENE VIGIL

Signature:

Date: Month 1 Day 24 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: William Richard

Signature: William Richard

Date: Month 1 Day 24 Year 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52481

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	Yds
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a.) Gasoline Spill

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holbrook — Signature — Date: Month 1 Day 23 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eugene Vigil — Signature — Date: Month 01 Day 23 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: William Richard — Signature — Date: Month 1 Day 24 Year 08

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52480

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone: (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID:

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM

10. US EPA ID Number:

E. State Facility's ID: DP955

F. Facility's Phone: (505)320.6431

11. WASTE DESCRIPTION	12. Containers No	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	Yds
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: a.) Gasoline Spill

H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

15. Special Handling Instructions and Additional Information: 24 hour emergency contact 505-722-3833

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: JIM LIEB — Signature: [signature] — Date: Month 01 Day 16 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EUGENE VIGIL — Signature: [signature] — Date: Month 1 Day 16 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: William L. Richard — Signature: [signature] — Date: Month 01 Day 17 Year 08

NON-HAZARDOUS WASTE

CF14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

PRINTED ON RECYCLED PAPER USING SOYBEAN INK. PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52478

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza, I-40 EXIT 39, JAMESTOWN, NM 87347

4. Generator's Phone: (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility, US 550, exit mile marker 137 1/4 (Angel Peak Rd.), Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	Yd
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: a.) Gasoline Spill

H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holbrook — Signature — Date: Month 01 Day 15 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eugene Vigil — Signature — Date: Month 1 Day 15 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Ray Johnson — Signature — Date: Month 1 Day 16 Year 08

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52479

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18 Yds	Yds
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a.) Gasoline Spill

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: BRYON HOLBROOK
Signature: Bryon Holbrook
Date: Month 01 Day 14 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EUGENE VIGIL
Signature:
Date: Month 1 Day 14 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: William L. Richard
Signature: William L. Richard
Date: Month 01 Day 15 Year 08

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52477

2. Page 1 of 1

3. Generator's Name and Mailing Address
Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone: 505 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	Yds
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a Gasoline Spill

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Bryon Holbrook	Bryon Holbrook	1 / 11 / 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Eugene Vigil		1 / 11 / 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
William L. Richard	William L. Richard	01 / 14 / 08

GENERATOR — TRANSPORTER — FACILITY — NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52469

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza, I-40 EXIT 39, JAMESTOWN, NM 87347

4. Generator's Phone: 505 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility, US 550, exit mile marker 137 1/4 (Angel Peak Rd), Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	Yards K
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: A.) Gasoline Spill

H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holbrook — Signature: Bryon Holbrook — Date: Month 01 Day 07 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Eugene Vigil — Signature — Date: Month 01 Day 07 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: William L. Richard — Signature: William L. Richard — Date: Month 01 Day 16 Year 08

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211
Manifest Document No.: 52470
2. Page 1 of 1

3. Generator's Name and Mailing Address
Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505 722-3833)

5. Transporter 1 Company Name: RINCHEM CO INC
6. US EPA ID Number: NMD002208627
A. State Transporter's ID
B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name
8. US EPA ID Number
C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Enviro Tech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM
10. US EPA ID Number
E. State Facility's ID: DP955
F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. ~~NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)~~	1	CM	18	YDS
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a. Gasoline Spill

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holbrook
Signature: Bryon Holbrook
Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Eugene Vigil
Signature:
Date: Month 01 Day 04 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: Leroy Jensen
Signature:
Date: 01-04-08 Month Day Year

GENERATOR
TRANSPORTER
FACILITY
NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52476

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone: 505 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	YD P SPH
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a. Gasoline Spill

H. Handling Codes for Wastes Listed Above
1) ERG# N/R

15. Special Handling Instructions and Additional Information
24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holbrook | Signature: Bryon Holbrook | Date: Month 01 Day 04 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John P Hamby | Signature: John P Hamby | Date: Month 01 Day 04 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: William L Richard | Signature: William L Richard | Date: Month 01 Day 11 Year 08

CF14

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52471

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza
I-40 EXIT 39
JAMESTOWN, NM 87347

4. Generator's Phone (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility
US 550, exit mile marker 137 1/4 (Angel Peak Rd)
Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. ~~NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)~~	1	CM	18	YD P SPH
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: a.) Gasoline Spill

H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Holbrook — Signature: Bryon Holbrook — Date: Month 01 Day 04 Year 07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John P Hamboy — Signature: John P Hamboy — Date: Month 01 Day 04 Year 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19

Printed/Typed Name: Leroy Jensen — Signature — Date: 01-4-08

Month Day Year

NON-HAZARDOUS WASTE MANIFEST — GENERATOR — TRANSPORTER — FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211

Manifest Document No.: 52468

2. Page 1 of 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza, I-40 EXIT 39, JAMESTOWN, NM 87347

4. Generator's Phone: 505 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC

6. US EPA ID Number: NMD002208627

A. State Transporter's ID

B. Transporter 1 Phone: (505)345-3655

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility, US 550, exit mile marker 137 1/4 (Angel Peak Rd), Hilltop, NM

10. US EPA ID Number

E. State Facility's ID: DP955

F. Facility's Phone: (505)320 6431

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-RCRA NON-DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18 yds	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: a) Gasoline Spill

H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

15. Special Handling Instructions and Additional Information: 24 hour emergency contact; 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: BRYON Holbrook | Signature: Bryon Holbrook | Date: Month 01 Day 03 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EUGENE V | Signature: | Date: Month 01 Day 03 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

14:30

Printed/Typed Name: LEROY JENSEN | Signature: 01-03-08 | Date: Month 01 Day 03 Year 08

GENERATOR | TRANSPORTER | FACILITY

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD000333211
Manifest Document No.: 52475
2. Page 1 of: 1

3. Generator's Name and Mailing Address: Giant Refining Company - Ciniza, I-40 EXIT 39, JAMESTOWN, NM 87347
4. Generator's Phone: (505) 722-3833

5. Transporter 1 Company Name: RINCHEM CO INC
6. US EPA ID Number: NMD002208627
A. State Transporter's ID:
B. Transporter 1 Phone: ~~(505)345-3655~~

7. Transporter 2 Company Name:
8. US EPA ID Number:
C. State Transporter's ID:
D. Transporter 2 Phone:

9. Designated Facility Name and Site Address: EnviroTech Soil Remediation Facility, US 550, exit mile marker 137 1/4 (Angel Peak Rd), Hilltop, NM
10. US EPA ID Number:
E. State Facility's ID: DP955
F. Facility's Phone: (505)320 6431

	11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a.	NON RCRA NON DOT REGULATED MATERIAL (TPH SOIL)	1	CM	18	YD
b.					
c.					
d.					

G. Additional Descriptions for Materials Listed Above: a) Gasoline Spill
H. Handling Codes for Wastes Listed Above: 1) ERG# N/R

15. Special Handling Instructions and Additional Information: 24 hour emergency contact: 505-722-3833

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bryon Hounsook | Signature: Bryon Hounsook | Date: Month 01 Day 03 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: John P Hamby | Signature: John P Hamby | Date: Month 01 Day 03 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: Leroy Jensen | Signature: | Date: 1430 Month 01 Day 03 Year 08

NON-HAZARDOUS WASTE