NM1 - 6

GENERAL CORRESPONDENCE

YEAR(S):

Inspection Report Controlled Recovery Inc. (Waypoint #61) Lea County, NM

Inspection Date: November 5, 199	ction Date: Nover	nber 3	3, 19	98
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EPA ID Number:	none
Facility Name:	Controlled Recovery Inc. (CRI)
Physical Location:	N 32° 32' 29.0", W 103° 45' 43.7" Mile marker 66 on highway 62/180 Section 27, Township 20S, Range 32E
Mailing Address:	P.O. Box 388 Hobbs, NM 88241

Type of Ownership: private

Inspection Participants:

Lead EPA Inspector: Melissa Smith (214) 665-7357 Initials: MLS

Other Participants:

Roger Anderson	New Mexico Oil Conservation Division	(505) 827-7152
Doug McKenna	U.S. Fish and Wildlife Service	(505) 589-2823
Greg Stover	U.S. Fish and Wildlife Service	(505) 883-7828
Vince Balderaz	U.S. Bureau of Land Management	(505) 393-3612
Ed Moriarty	Science Applications International Corporation (SAIC)	(703) 645-6973
Tim Reeves	SAIC	(303) 382-6730

Facility Owner:Controlled Recovery Inc.

Facility Representative: Ken Marsh, President (505) 393-1079

Facility Description: Commercial facility for oil field waste disposal.

Generator Status: non-generator

- **Inspection Type:** Compliance evaluation inspection with sampling
- **Reason for Evaluation:** General inspection with sampling
- Summary of Inspection: see narrative
- Checklists Completed: Problem Oil Pit Inspection Checklist

Peer Reviewed by: <u>leer a Wooten</u>

Date: 2-22-99

Compliance Evaluation Inspection Narrative Controlled Recovery Inc. (Waypoint #61) Lea County, NM

On November 3, 1998, a compliance evaluation inspection was conducted at the Controlled Recovery Inc. ("CRI") facility located 37 miles west of Hobbs on Highway 62-180 (see Attachment A, map coordinates). The purpose of the inspection was to determine if any pits or structures at the facility pose a threat to human health or the environment (including wildlife), and to determine if the facility handles any waste which may be subject to the Resource Conservation Recovery Act ("RCRA") regulations regarding hazardous waste. The inspection team arrived at the facility at approximately 8:00 am. The team was met by Mr. Dave Parsons, Plant Manager, and Mr. Ken Marsh, President of CRI. The team explained the purpose of the visit and a brief safety meeting was held at which time Mr. Marsh explained potential hazards at the site (i.e. Hydrogen Sulfide gas).

The CRI facility occupies approximately 260 acres. According to a facility informational brochure (see Attachment B), the area is used to treat and reclaim sediment oil; to collect, dispose, evaporate, or store produced water, drilling fluids, drill cuttings, completion fluids and other nonhazardous oil field related waste; and to dispose of UST (underground storage tank) contaminated soils and liquids. The facility operates under permit #R9166 issued by the New Mexico Oil Conservation Division ("NMOCD"). A copy of the permit is included in the facility brochure in Attachment B. The facility also has an approved water discharge plan through the New Mexico Environment Department. In addition, the facility received permission from the NMOCD to operate a landfarm for oil field waste.

Operations at the site include an oil treating plant and surface waste disposal pits. According to facility representatives, the facility accepts only nonhazardous waste. Oil field waste that is exempt from the RCRA regulations is not required by the facility to be tested; however, waste that is not exempt is required to be tested by the generator who subsequently submits the results and a certification form to the NMOCD and CRI to verify that the waste is nonhazardous (see Attachment C, waste acceptance documentation).

The first area that the inspection team visited was the treating plant. The treating plant is located on the east side of the facility and consists of two receiving pits (rectangular tanks), a tank battery, and an excess storage pit. Crude oil bottoms are received in the two receiving pits (500 barrel capacity each) which are heated by steam coils (see Photo Log A, photo #2; and Photo Log B, photo #3). The oil then goes to the tanks in the tank battery where it is heated again. Depending upon the material, it may be run through a 3-stage centrifuge which separates the oil, solids, and water. The oil is sold as product, waste solids are dried and placed in a solids pit (see Photo Log A, photo #9), and water is piped to evaporation ponds located on the other side of the facility. At the time of the inspection, both of the receiving tanks appeared to be almost full (approximately 8 and 12 inches of freeboard; see Photo Log A, photo #'s 3-5). The contents of the tanks appeared to be solidified. Located north of the receiving tanks was a large pit for excess storage of tank bottoms (see Photo Log A, photo 1; and Photo Log B, photo #'s 1-2). The contents of the pit appeared to be "sludge-like" solid material with some liquid. The tank was lined and the top was covered with netting, although there was an opening around the pit between the net and the surface of the pit. There was approximately 18 inches of freeboard and some free liquids on the surface of the pit. The pit contents would eventually pass through the treatment process. The tank battery contained seven 750-barrel capacity tanks and three 500-barrel capacity tanks. There was an earthen berm around the tank battery; however, there was a low spot on the east side of the berm which appeared to be a driveway (see Photo Log A, photo #6; and Photo Log B, photo #4), as well as no berm beneath the piping leading from the receiving pits to the treatment tanks (see Photo Log A, photo #7; and Photo Log B, photo #5). The south side of the berm also had several low spots (see Photo Log A, photo #8; and Photo Log B, photo #6).

The second area of the facility that the team visited was the water disposal pits. This area consisted of several tanks for receiving produced waters, and numerous pits for evaporation and disposal of solids. Produced water is off loaded from trucks into the tanks (see Photo Log A, photo #10; and Photo Log B, photo #7). The oil and water is allowed to separate in the tanks. The oil is moved to a smaller tank and then transported to the treating plant to be sold as product. The water is transferred from the tanks to a series of pits. The first two pits are skim pits and were heavily covered with oil (see Photo Log A, photo #'s 11 and 13; and Photo Log B, photo #'s 8 and 11). According to the facility representative, both of the pits are lined; however, during the inspection it appeared that the lining of the first pit was torn in several places (see Photo Log B, photo #11). The oil is skimmed off of the pits and transferred to the treating plant. The water flows into a third unlined pit, which is the primary evaporation pit (see Photo Log A, photo #14; and Photo Log B, photo #9). At the time of the inspection, oil-stained soil was observed around the edge of the pit (see Photo Log B, photo #12). The pit was equipped with flagging to act as a deterrent to birds. The water flows from the third pit into a final evaporation pit (see Photo Log A, photo #12; and Photo Log B, photo #13). The evaporation pit was not lined, did not have netting or flagging, and did not appear to contain oil. The rest of the pits in the disposal facility were unlined and were used primarily for drilling muds (see Photo Log A, photo #'s 16-18; and Photo Log B, photo #'s 1-6). The muds are allowed to dry and then moved to the solids disposal pit. The drilling mud pits were heavily saturated with oil and were equipped with flagging as a bird deterrent. In 1997 the facility requested and received approval from NMOCD to operate the pits without being covered with netting (see Attachment D, netting exception letter). This request was granted based upon other bird deterrent devices utilized at the facility such as lighting, dogs, 24 hour traffic, some flagging, and no previous history of harm to migratory birds; however, at the time of the inspection, FWS agents collected evidence of bird mortality from one of the drilling mud pits. The bird was identified as a meadowlark (Sturnella Sp.), seizure tag #651585. The pit was heavily oiled and was equipped with flagging.

Representative samples were collected at both the water disposal pits and the treatment plant. The following samples were collected:

- Primary evaporation pit: Representative liquid samples were collected of the produced water flowing from the second skim pit into the evaporation pit. The sample was collected at the outflow of the pipe leading into the pit (sample # WP-61-EP-1). A liquid sample was also collected from the opposite side of the pit (WP-61-EP-2). The sample was collected by submersing the sample bottle into the liquid in the pit. Representative samples were collected of the sediment around the edge of the pit (WP-61-EP-3 and WP-61-EP-4). The samples were collected by scooping the sediment into the sample jars. Duplicate samples were collected of both the liquid and sediment for quality control purposes (WP-61-EP-5 and WP-61-EP-6, respectively).
- Drilling mud pit: Representative samples were collected of the sediment from opposite sides of one of the drilling mud pits (WP-61-DP-1 and WP-61-DP-2). The samples were collected by scooping the sediment into the sample jars. A duplicate sample was collected of the sediment for quality control purposes (WP-61-DP-3).
- Treatment tank: Representative samples were collected from Tank #5, a 750 barrel tank used to reclaim oil (WP-61-TANK-A). The liquid was collected from a valve at the bottom of the tank. A duplicate sample was collected of the liquid for quality control purposes (WP-61-TANK-B).

Appropriate quality assurance and quality control (QA/QC) samples were collected for each location. Adequate volume was collected at all sampling locations to provide split samples to the facility (duplicate QA/QC samples were not collected for the facility). A copy of the chain of custody form signed by Mr. Marsh is attached (Attachment E). The EPA samples were sent via Federal Express to Core Lab-Gulf States Analytical in Houston, Texas, for analysis (see Attachment F, chain of custody for EPA samples). The samples were analyzed for volatile organic compounds, semi-volatile organic compounds, organochlorine pesticides, organophosphorus pesticides, chlorophenoxy herbicides, polychlorinated biphenols (PCBs), and HSL metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenjum, Silver, Sodium, Thallium, Vanadium, and Zinc). A summary of the analytical results is included as Attachment G.

The land surrounding the facility appeared to be primarily range land (see Photo Log A, photo #15). A naturally occurring salt lake, Laguna Toston, is located approximately three-quarters of a mile from the facility (see Photo Log A, photo #19).

A Problem Oil Pit inspection checklist was completed during the inspection and is included in Attachment H. The inspection team left the facility at approximately 3:30pm.

Areas of Concern

- Inadequate berm around treatment tanks.
- Less than 2 feet of freeboard in receiving pits and excess storage pit located in the treating plant.
- Skim pits and drilling mud pits are heavily covered with oil and there is insufficient migratory bird deterrent as mortality was discovered during the inspection.
- Lining of one of the skim pits appears to be compromised.
- Drilling mud pits are heavily saturated with oil and are not lined.

Attachments

Photo Log "A"

Photo Log "B"

Photo Log "C"

- A Map Coordinates
- B Facility Informational Brochure
- C Waste Acceptance Documentation
- D Netting Exception Letter
- E Chain of Custody for Split Samples
- F Chain of Custody for EPA Samples
- G Analytical Data Summary
- H Problem Oil Pit Inspection Checklist

PHOTO LOG "A"



 Photo Number:
 1
 Photographer:
 Melissa Smith

 Location:
 Controlled Recovery Inc.

 Subject:
 Netted and lined pit for excess storage

 City/County:
 Lea County
 State:
 NM

 Date:
 11/03/98
 Time:
 am
 Weather:
 cloudy, cool



 Photo Number: 2
 Photographer: Melissa Smith

 Location: Controlled Recovery Inc.

 Subject: Receiving tanks for treatment process

 City/County: Lea County
 State: NM

 Date: 11/03/98
 Time: am
 Weather: cloudy, cool



Photo Number: 3____ Photographer: Melissa Smith Location: Controlled Recovery Inc. Subject: Receiving tank for treatment process City/County: Lea County State: NM Date: 11/03/98 Time: am Weather: State: NM Weather: cloudy, cool



	Photo Number:	4 Photographer:	Melissa Smith
Location:		Controlled Recovery	/ Inc.
	Subject:	Receiving tank for	treatment process
	City/County:	Lea County	State: NM
	Date:	11/03/98 Time: am	Weather: cloudy, cool



City/County: Lea County

Photo Number: <u>5</u> Photographer: <u>Melissa Smith</u> Location: <u>Controlled Recovery Inc.</u> Subject: Receiving tank for treatment process State: NM Weather: cloudy, cool Date: 11/03/98 Time: am



Photo Number: 6____ Photographer: Melissa Smith Location: Controlled Recovery Inc. Subject: Low point in berm around treatment tanks City/County: Lea County Date: <u>11/03/98</u> Time: am State: NM Weather: cloudy, cool



Photo Number: 8_____Photographer: Melissa Smith_____ Location: Controlled Recovery Inc. Subject: Berm around treatment tanks, and pasture beyond fence City/County: Lea County______State: NM Date: 11/03/98 Time: am_____Weather: cloudy, cool____



Photo Number: 9 Photographer: Melis Location: Controlled Recovery Inc. Subject: Solids from centrifuge City/County: Lea County Date: <u>11/03/98</u> Time: am Photographer: Melissa Smith State: <u>NM</u> Weather: <u>cloudy</u>, <u>cool</u>



Photo Number:	10 Photographer: Melissa	Smith
Location:	Controlled Recovery Inc.	
Subject:	Receiving tanks for produce	ed water
City/County:	Lea County	State: NM
Date:	11/03/98 Time: am	Weather: cloudy, cool





Photo Number:	11 Photographer: Melissa S	Smith
Location:	Controlled Recovery Inc.	
Subject:	First skim pit for produced	water
City/County:	Lea County	State: NM
Date:	11/03/98 Time: am	Weather: cloudy, cool



Photo Number:	12 Photographer: Melissa	Smith
Location:	Controlled Recovery Inc.	
Subject:	Final evaporation pit for	produced water
City/County:	Lea County	State: NM
Date:	11/03/98 Time: am	Weather: cloudy, cool



Photo Number: 13 Photographer: Melissa Smith Location: Controlled Recovery Inc. Subject: Second skim pit for produced water City/County: Lea County State: NM Date: 11/03/98 Time: am Weather: cloudy, cool



Photo Number: 14 Photographer: Melissa Smith Location: Controlled Recovery Inc. Subject: Third skim pit for produced water City/County: Lea County State: NM Date: 11/03/98 Time: am Weather: cloudy, cool



Photo Number: <u>15</u> Photographer: <u>Melissa Smith</u> Location: <u>Controlled Recovery Inc.</u> City/County: Lea County Date: 11/03/98 Time: am

Subject: Cattle in pasture beyond facility fence line State: NM Weather: cloudy, cool



Photo Number: 16 Photographer: Melissa Smith Location: Controlled Recovery Inc. Subject: Pit for drilling muds City/County: Lea County Date: <u>11/03/98</u> Time: <u>am</u> State: NM Weather: cloudy, cool



 Photo Number:
 17
 Photographer:
 Melissa Smith

 Location:
 Controlled Recovery Inc.

 Subject:
 Pit for drilling muds

 City/County:
 Lea County
 State: NM

 Date:
 11/03/98
 Time: am
 Weather: cloudy, cool



 Photo Number:
 18
 Photographer:
 Melissa Smith

 Location:
 Controlled Recovery Inc.

 Subject:
 Drying pit for oil based drilling muds

 City/County:
 Lea County
 State:
 NM

 Date:
 11/03/98
 Time:
 am
 Weather:
 cloudy, cool



Photo Number: 19 Photographer: Melissa Smith Location: Controlled Recovery Inc. Subject: Playa lake (in background) across the road from facility City/County: Lea County State: NM Date: 11/03/98 Time: am Weather: cloudy, cool PHOTO LOG "B"



Photo Number:	1 Photographer: T. Reeve	S, SAIC
Subject:	Backup secondary pit for ta	ank bottoms, looking N
City/County:	Lea County	State: NM
Date:	11/03/98 Time: am	Weather: cloudy, cool



Photo Number:	2 Photographer: T. Reeves, SAIC
Location:	Controlled Recovery Inc.
Subject:	Backup secondary pit for tank bottoms, looking NW
City/County:	Lea County State: NM
Date:	11/03/98 Time: am Weather: cloudy, cool



hoto Number:	3 Photographer: T. Reeves, SAIC		
Location:	a: Controlled Recovery Inc.		
Subject:	Heated receiving tanks for	tank bottoms	
City/County:	Lea County	State: NM	
Date:	11/03/98 Time: am	Weather: cloudy, cool	



 Photo Number:
 4
 Photographer:
 T. Reeves, SAIC

 Location:
 Controlled Recovery Inc.
 Subject:
 Low spot in berm used as a road or driveway

 Subject:
 Low spot in berm used as a road or driveway
 State: NM

 City/County:
 Lea County
 State:
 NM

 Date:
 11/03/98
 Time: am
 Weather: cloudy, cool



Photo Number: <u>5</u> Photographer: <u>T. Reeves, SAIC</u> Location: <u>Controlled Recovery Inc.</u> Subject: No berm beneath piping City/County: Lea County Date: 11/03/98 Time: am State: NM Weather: cloudy, cool



Photo Number: Location:	6 Photographer: T. Reev Controlled Recovery Inc.	res, SAIC
Subject:	Low berm at east side of t	ank battery
City/County:	Lea County	State: NM
Date:	11/03/98 Time: am	Weather: cloudy, cool



Photo Number: 7 Photographer: T. Reeves, SAIC Location: Controlled Recovery Inc. Subject: Produced water off load and tank battery City/County: Lea County Date: <u>11/03/98</u> Time: am State: NM Weather: cloudy, cool



Photo Number: 8_____Photographer: T. Reeves, SAIC Location: Controlled Recovery Inc. Subject: First produced water pit for settling City/County: Lea County Date: <u>11/03/98</u> Time: am State: \underline{NM} Weather: cloudy, cool



Photo Number: 9

Photographer: T. Reeves, SAIC Location: Controlled Recovery Inc. Subject: Primary 1st evaporation pond for produced water City/County: Lea County Date: <u>11/03/98</u> Time: am State: <u>NM</u> Weather: cloudy, cool



Photo Number: 10 Photographer: T. Reeves, SAIC Location: Controlled Recovery Inc. Subject: Torn liner on 1st produced water pit (see photo 8) City/County: Lea County Date: <u>11/03/98</u> Time: am State: NM Weather: cloudy, cool



Photo Number:	11 Photographer: T. Reeves, SAIC	
Location:	Controlled Recovery Inc.	
Subject:	Second settling pit for produced w	ater
City/County:	Lea County State:	NM
Date:	11/03/98 Time: am Weathe	r: cloudy, cool



Photo Number: Location:	12 Photographer: T. Reeves, SAIC Controlled Recovery Inc.
Subject:	Oil on bank edge of 1st evaporation pond for produced water
City/County:	Lea County State: NM
Date:	11/03/98 Time: am Weather: cloudy, cool



Photo Number: <u>13</u> Photographer: <u>T. Reeves, SAIC</u> Location: <u>Controlled Recovery Inc.</u>

 Subject:
 Second evaporation pond for produced water, looking N

 y/County:
 Lea County

 Date:
 11/03/98

 Time:
 am

 Weather:
 cloudy, cool

 City/County: Lea County Date: <u>11/03/98</u> Time: <u>am</u>

PHOTO LOG "C"





Photo Number:	1 Photographer: T. Reeve	s, SAIC
Location:	Controlled Recovery Inc.	
Subject:	Pit for drilling muds	
City/County:	Lea County	State: NM
Date:	11/03/98 Time: am	Weather: cloudy, cool



Photo Number:	2 Photographer: T. Reev	es, SAIC
Location:	Controlled Recovery Inc.	
Subject:	SW pit for drilling muds	
City/County:	Lea County	State: NM
Date:	11/03/98 Time: am	Weather: cloudy, cool



Photo Number: 3 Location: Cor Subject: Eas City/County: Les Date: 11/

Photographer: T. Reev	ves, SAIC	
ntrolled Recovery Inc.		
st of evaporation pits,	pit for drilling materials	
a County	State: NM	
/03/98 Time: am	Weather: cloudy, cool	



Photo Number:	4 Photographer: T. Reev	es, SAIC	
Localion:	controlled Recovery Inc.		
Subject:	East of evaporation pits,	partially dried out pit of drilling mu	d
City/County:	Lea County	State: NM	
Date:	11/03/98 Time: am	Weather: cloudy, cool	



Photo Number: 5 Photographer: T. Reeves, SAIC Location: Controlled Recovery Inc. Subject: Additional pit for drilling muds City/County: Lea County State: NM Date: 11/03/98 Time: am Weather: cloudy, cool



Photo Number:	6 Photographer: T. Reever	, SAIC
Location:	Controlled Recovery Inc.	
Subject:	Additional pit for drilling	muds
City/County:	Lea County	State: NM
Date:	11/03/98 Time: am	Weather: cloudy, cool

ATTACHMENT A



ATTACHMENT B

CRI

CONTROLLED RECOVERY INC.

P.O. BOX 369, HOBBS NM 88241

KEN MARSH

(505) 393-1079"



CONTROLLED RECOVERY INC.

P.O. BOX 369 HOBBS, NEW MEXICO 88241 (505) 393-1079

A Subsidiary of

TransAmerican Waste Industries. Inc.

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INTRODUCTION

Controlled Recovery Inc.'s oil industry disposal facility is now open. We welcome your inspection and the opportunity to discuss your future needs of this facility.

This disposal site is operated in complete compliance with all laws, rules, and regulations of the governing agencies.

Controlled Recovery Incorporated is a New Mexico corporation that has been authorized by the State of New Mexico Oil Conservation Division (Order No. R9166) to construct and operate a surface waste disposal facility complete with unlined surface pits and an oil treating plant. In addition to the permit from the Oil Conservation Division, CRI has been permitted by the State of New Mexico Environment Department (DP-818) to accept Underground Storage Tank (UST) contaminated soils and liquids.

The facility is located 35 miles west of Hobbs on Highway 62-180. The 260 acre area serves three purposes: 1) to treat and reclaim sediment oil 2) to collect, dispose, evaporate, or store produced water, drilling fluids, drill cuttings, completion fluids and other nonhazardous oil field related waste, and 3) to dispose of UST contaminated soils and liquids.

CRI has qualified personnel who have over 30 years of experience in a variety of areas. Environmental consulting is one of the specialties and includes audits, project planning, permitting, and risk reduction of ground water contamination. Services such as sampling and testing of soils and sludges, clean up of contaminated aquifers and soils, and monitoring systems can also be performed. Furthermore, CRI has equipment to perform these operations and is also knowledgeable about the transportation of contaminated materials.

With prior approval from the New Mexico Oil Conservation Division, CRI can accept materials from other states.

We thank you for considering our disposal facility and for all efforts to protect the environment.

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Please contact our office for contractual arrangements, acceptance procedures, or any additional information such as approved transporters.

PERMIT FOR OIL TREATING PLANT AND SURFACE WASTE DISPOSAL

STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 9882 Order No. R-9166

APPLICATION OF CONTROLLED RECOVERY INC. FOR AN OIL TREATING PLANT PERMIT, SURFACE WASTE DISPOSAL AND AN EXCEPTION TO ORDER NO. R-3221, LEA COUNTY, NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on April 4, 1990, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this <u>27th</u> day of April, 1990, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT;

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) Decretory Paragraph No. (3) of Division Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions, of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any water course, or in any other place or in any manner which would constitute a hazard to any fresh water supplies.

(3) The aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.

(4) The State Engineer has designated all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.

(5) The applicant, Controlled Recovery Inc., seeks authority to construct and operate a surface waste disposal facility and an oil treating plant for the purpose of treating and reclaiming sediment oil and for the collection, disposal, evaporation, or storage of produced water, drilling fluids, drill cuttings, completion fluids and other non-hazardous oilfield related waste in unlined surface pits at a site in the S/2 N/2 and the N/2 S/2 of Section 27, Township 20 South, Range 32 East, NMPM, Lea County, New Mexico.
(6) The applicant proposes to install and operate an effective system, consisting of separating tanks, a water disposal pit, a solids disposal pit, and associated skimming, heat, and/or chemical separating equipment for the removal and reclamation of oil and basic sediments from the produced water to be disposed of, and a settling area to separate other solid waste.

(7) The proposed plant and method of processing will efficiently process, treat, and reclaim the aforementioned waste oil, thereby salvaging oil which would otherwise be unrecoverable.

(8) No interested party appeared at the hearing in opposition to the application.

(9) A naturally occurring salt lake (Laguna Toston) is located in the S/2 of Section 21 and the N/2 of Section 28, Township 20 South, Range 32 East, NMPM, Lea County, New Mexico, and is approximately three-quarters of a mile from the proposed disposal area.

(10) The hydrogeologic evidence presented in this case establishes that:

a) Triassic redbeds, comprised of the Chinle Shale, Santa Rosa sandstone, and the Dewey Lake formation, underlies both Laguna Toston and the proposed water disposal site;

b) Shales within the Triassic redbeds underlying the proposed waste disposal site and Laguna Toston are virtually impermeable and therefore prevent vertical seepage of the waters from the site and Laguna Toston into sand stringers with the redbeds which may contain fresh water;

c) The surface of the Triassic redbeds is depressed in the vicinity of the waste disposal site and Laguna Toston thus creating a "collapse feature";

d) The major flow of surface and subsurface water within the boundaries of the "collapse feature" is toward Laguna Toston;

e) Seepage from the Impoundments at the proposed waste disposal site will infiltrate into the subsurface and migrate toward Laguna Toston;

f) After the seepage reaches Laguna Toston, practically all of the seepage will evaporate;

g) There is no present or reasonably foreseeable beneficial use of the waters of Laguna Toston;

h) There are no known sources of potable groundwater in sediments underlying the Triassic redbeds at Laguna Toston;

i) The utilization of the proposed disposal site adjacent to Laguna Toston for the disposal of water produced in conjunction with the production of oil or gas, or both, and other non-hazardous oilfield waste products, including drill cuttings and drilling muds should not constitute a hazard to any fresh water supplies.

(11) The applicant should be authorized to utilize the unlined pits described in Finding Paragraph Nos. (5) and (6) above, for the disposal of water produced in conjunction with the production of oil or gas, or both, and other non-hazardous oilfield waste products, including drill cuttings and drilling muds.

(12) The maximum fill level in both of the above-described pits should be limited to a plane below the crest of the dikes surrounding the pits in order to preclude over-tapping of the dikes.

(13) The proposed oil treating plant and disposal facility should be constructed in accordance with the engineering plat and topographic map presented as evidence in this case and in accordance with such additional conditions and requirements as may be directed by the Division Director, and should be operated and maintained in such a manner as to preclude spills and fires, and protect persons and livestock.

(14) Prior to initiating operations, the facility should be inspected by a representative of the Hobbs district office of the Division in order to determine the adequacy of fences, gates and cattleguards necessary to preclude livestock and unauthorized persons from entering and/or utilizing said facility, and also to determine the adequacy of dikes and berms needed to assure safe plant operation.

(15) The Director of the Division should be authorized to administratively grant approval for the expansion or modification of the proposed treating plant.

(16) Authority for operation of the treating plant and disposal facility should be suspended or rescinded whenever such suspension or rescission should appear necessary to protect human health or property, to protect fresh water supplies from contamination, to prevent waste, or for non-compliance with the terms and conditions of this order or Division Rules and Regulations.

(17) Prior to constructing said facility, the applicant should be required to submit to the Santa Fe office of the Division a surety or cash bond in the amount of \$25,000 in a form approved by the Division.

(18) Authority for operation of the treating plant and disposal facility should be transferrable only upon written application and approval by the Division Director.

(19) The granting of this application should not endanger designated fresh water supplies, and will prevent waste by allowing the recovery of otherwise unrecoverable oil.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Controlled Recovery Inc., is hereby authorized to construct and operate a surface waste disposal facility complete with unlined surface pits and an oil treating plant at a site in the S/2 N/2 and the N/2 S/2 of Section 27, Township 20 South, Range 32 East, NMPM, Lea County, New Mexico, for the purpose of treating and reclaiming sediment oil and for the collection, disposal, evaporation, or storage of produced water, drilling fluids, drill cuttings, completion fluids and other non-hazardous oilfield related waste.

<u>PROVIDED HOWEVER THAT</u>, the proposed oil treating plant and disposal facility shall be constructed in accordance with the engineering plat and topographic map presented as evidence in this case and in accordance with such additional conditions and requirements as may be directed by the Division Director, and shall be operated and maintained in such manner as to preclude spills and fires, and protect persons and livestock.

<u>PROVIDED FURTHER THAT</u>, prior to initiating operations, the facility shall be inspected by a representative of the Hobbs district office of the Division in order to determine the adequacy of fences, gates and cattleguards necessary to preclude livestock and unauthorized persons from entering and/or utilizing said facility, and also to determine the adequacy of dikes and berms needed to assure safe plant operation.

(2) The maximum fill level in both of the proposed unlined surface pits shall be limited to a plane below the crest of the dikes surrounding the pits in order to preclude over-tapping of the dikes.

(3) The Director of the Division shall be authorized to administratively grant approval for the expansion or modification of the proposed treating plant.

(4) Authority for operation of the treating plant and disposal facility shall be suspended or rescinded whenever such suspension or rescission should appear necessary to protect human health or property, to protect fresh water supplies from contamination, to prevent waste, or for non-compliance with the terms and conditions of this order or Division Rules and Regulations.

(5) Prior to constructing said facility, the applicant shall submit, to the Santa Fe office of the Division, a surety or cash bond in the amount of \$25,000 in a form approved by the Division.

(6) Authority for operation of the treating plant and disposal facility shall be transferrable only upon written application and approval by the Division Director.

(7) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

Original on file Santa Fe, New Mexico

WILLIAM J. LEMAY Director

PERMIT FOR UNDERGROUND STORAGE TANK (UST) SOILS AND LIQUIDS



State of New Mexico

ENVIRONMENT DEPARTMENT

JUDITH M. ESPINOSA SECRETARY

RON CUPRY DEPUTY SECRETARY

BRUCE KING GOVERNOR

February 3, 1992

Mr. Ken Marsh, President CONTROLLED RECOVERY, INC. P. O. Box 369 Hobbs, NM 88241

RE: Approved Discharge Plan, DP-818

This is to confirm that CONTROLLED RECOVERY, INC. has met the Water Quality Control Commission standards and has been granted an approved discharge plan from the Groundwater Protection and Remediation Bureau, Groundwater Section of the New Mexico Environment Department for the site located 37 miles west of Hobbs, NM on US 62 for the purpose of receipt and remediation of hydrocarbon contaminated soils. This approved plan is in effect until November 26, 1996.

For additional information, please contact me at the address below, or by telephone, 827-2703.

Sincerely,

Phillis Stevens Water Resource Specialist Ground Water Section

PS:mtf



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



GARREY CARRUTHERS GOVERNOR POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

September 13, 1990

CERTIFIED MAIL RETURN RECEIPT NO. P-918-402-355

Mr. Ken Marsh, President Controlled Recovery, Inc. P. O. Box 369 Hobbs, New Mexico 88241

RE: Landfarm Operation Controlled Recovery Disposal Facility Lea County, New Mexico

Dear Mr. Marsh:

The Oil Conservation Division (OCD) has reviewed your application for operation of an oilfield waste landfarm at your previously approved disposal facility located in Section 27, Township 20 South, Range 32 East, NMPM, Lea County, New Mexico.

Pursuant to OCD Rule 711 the landfarm operation is hereby approved. The landfarm will be constructed and operated pursuant to the terms and conditions contained in your application dated August 2, 1990 and in your information dated September 12, 1990 submitted as a supplement to the application.

Please be advised approval of this landfarm does not relieve you of liability should your operation result in actual pollution of surface or ground water or the environment actionable under other laws and/or regulations.

If you have any questions, please contact Roger Anderson at (505) 827-5884.

Sincerely, William J. LeMay, Director

WJL/RCA/sl

MATERIALS AND WASTE EXEMPT BY EPA FROM CONSIDERATION AS "HAZARDOUS WASTE":

(CRI may accept these materials without testing.)

- · Produced water;
- Drilling fluids;
- Drill cuttings;
- Rig wash;
- Drilling fluids and cuttings from offshore operations disposed of onshore;
- Geothermal production fluids;
- Hydrogen sulfide abatement wastes from geothermal energy production;
- Well completion, treatment and stimulation fluids;
- Basic sediment and water and other tank bottoms from storage facilities that hold product and exempt waste;
- Accumulated materials such as hydrocarbons, solids, sand, and emulsion from production separators, fluid treating vessels, and production impoundments;
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes;

· Work over wastes;

- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, filter media, backwash and molecular sieves;
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge;
- · Cooling tower blowdown;
- Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste stream);
- · Packing fluids;
- · Produced sand;
- Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation;
- Hydrocarbon-bearing soil;
- Pigging wastes from gathering lines;
- Wastes from subsurface gas storage and retrieval, except for the nonexempt wastes listed on the next page;
- · Constituents removed from produced water before it is injected or otherwise disposed of;
- · Liquid hydrocarbons removed from the production stream but not from oil refining;
- Gases from the production stream, such as hydrogen sulfide and carbon dioxide, and volatilized hydrocarbons;
- Materials ejected from a producing well during the process known as blowdown;
- Waste crude oil from primary field operations and production;
- Light organics volatilized from exempt wastes in reserve pits or impoundments or production equipment;
- Liquid and solid wastes generated by crude oil and crude tank bottom reclaimers.

Source: Federal Register, Wednesday, July 6, 1988, p.25,446-25,459.

MATERIALS AND WASTE NOT EXEMPT BY THE EPA.

(CRI may accept these and other materials after they are determined to be nonhazardous.)

- Unused fracturing fluids or acids;
- Gas plant cooling tower cleaning wastes;
- Painting wastes;
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting waste, spent solvents, spilled chemicals, and waste acids;
- Vacuum truck and drum rinsate from trucks, and drums transporting or containing non-exempt waste;
- Refinery wastes;
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers;
- Used equipment lubrication oils;
- Used hydraulic fluids;
- Waste solvents;
- Waste in transportation pipeline-related pits;
- Caustic or acid cleaners;
- Boiler cleaning wastes;
- Boiler refractory bricks;
- Boiler scrubber fluids, sludges, and ash;
- Incinerator ash;
- Laboratory wastes;
- Pesticide wastes;
- Radioactive tracer wastes;
- Sanitary wastes;
- Drums, insulation, and miscellaneous solids;
- Waste compressor oil, filters, and blowdown.

The following OCD regulated facilities especially <u>may be subject to hazardous waste rules</u> on and after September 25, 1990:

--Oil and gas service companies having wastes such as vacuum truck rinsate.

- --Crude oil treating plants and tank bottom reclaimers with liquid and solid wastes remaining after oil treatment and removal.
- --Pipelines having waste in transportation pipeline-related pits.

Source: Federal Register, Thursday, March 29, 1990, p. 11,798-11,877.



DEFINITIONS:

<u>Production Water or Produced Water</u> - Water produced from a completed, producing well in conjunction with the production of oil or gas. Does not include any fluids from work over or drilling operations nor fluids recovered while testing. Water must come from storage tanks on producing leases.

<u>Drilling Fluids or Drilling Mud</u> - Any fluid used in drilling or completing of a well. This category includes all fluids, mud, and cuttings which come from steel pits, reserve pits, storage tanks, reverse pits, mud tanks, frac tanks, and any flow back or fluids recovered while testing well.

<u>Completion Fluids</u> - Any and all fluids and mud used in the completion of or stimulation or work over of a well. This category includes all fluids, mud, and cuttings which come from steel pits, reserve pits, storage tanks, reverse pits, mud tanks, frac tanks, and any flow back or fluids recovered while testing well.

<u>Tank Bottoms a/k/a BS&W</u> - Oil emulsified with water or other substances and concentrated at the bottom of stock tanks used for gathering and temporary storage of crude oil preparatory to its sale.

<u>Drill Cuttings or Solids</u> - Any material from the well bore that cannot be handled by a vacuum truck or transport truck.

Please note:

New Mexico Oil & Gas Division Rule 804-B states that all off-lease transportation of liquids which may contain crude oil, lease condensate, sediment oil, or miscellaneous hydrocarbons shall be accompanied by a run ticket, work order, or equivalent document, i.e., Form C-117-A. The documentation shall identify the name and address of the transporter, the name of the operator and of the lease or facility from which the liquid was removed, the nature of the liquid removed including the observed percentage of liquid hydrocarbons, the volume or estimated volume of liquids, and the destination.

MEASUREMENT CONVERSIONS:

1 barrel = 42 gallons 1 drum = 55 gallons 1 yard = 1 loose ton

PRICES:

Available upon request.

ATTACHMENT C

CONTROLLED RECOVERY, INC. P.O. Box 369 Hobbs, New Mexico 88241

L

NON-EXEMPT NON-HAZARDOUS OIL FIELD WASTE

1. Documentation required by New Mexico Oil Conservation Division:

A. Non-exempt waste certificate

B. Field notes & Sample methods

C. Chain of custody

- D. TCLP (Toxicity Characteristic Leaching Process)
 - 1. TCLP Metals
 - 2. TCLP Volatiles
 - 3. TCLP Semi-volatiles
- E. RCI (Reactivity, Corrositivity, Ignitability)
- F. Knowledge of process may replace D & E.
- G. Texas waste will require manifest with Texas Natural Resource Conservation Commission waste code or Texas Railroad Commission documentation.

2. Procedure:

- A. Submit documentation to CRI for approval.
- B. CRI will submit the required C138 and information to the New Mexico Oil Conservation Division for their approval.
 *This process takes approximately seven days.
- D. Upon receipt of the OCD's decision, CRI will notify the customer.
- 3. Acceptance of material:
 - A. Delivery dates must be arranged with the office in advance.
 - B. Transporter must complete and sign a delivery manifest at the facility.

HAZARDOUS CHARACTERISTICS

IGNITABILITY - A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:

* It is a liquid, other than a aqueous solution containing less that 24 percent alcohol by volume and has a flash point less than 60 degrees C (140 degrees F).

* It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and when ignited, burns so vigorously and persistantly that it creates a hazzard.

* It is an ignitable compressed gas as defined in 49 CFR 173.300 and as determined by the test methods described in that regulation or equivalent test methods approved by EPA under sections 260.20 and 260.21.

CORROSIVITY - A solid waste exhibits the characteristic of corrosivity if a representative sample of the waste has any of the following properties:

* It is aqueous and has a ph less than or equal to 2 or greater than or equal to 12.5.

* It is a liquid and corrodes steel at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of 55 degrees C (130 degrees F)

REACTIVITY - A solid waste exhibits the characteristic of reactivity if a representaive sample of the waste has any of the following properties:

* It is normally unstable and readily undergoes violent change without detonating.

* It reacts violently with water.

* It forms potentially explosive mixtures with water.

* When mixed with water, it generates toxic gases, vapors, or fumes in a quantity sufficient to present a danger to human health or the environment.

* It is a cyanide or sulfide bearing waste which, when exposed to ph conditions between 2 and 12.5, can generate toxic gased, vapors, or fumes in a quantity sufficient of present a danger to human health or the environment.

* It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.

* It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.

* It is forbidden explosive as defined by EPA.

TOXICITY - A solid waste exhibits the characteristic of toxicity if the extract from a representative sample of the waste contains any contaminants listed by EPA at a concentration to or greater than a respective thresholds value.

TCLP

COMPLIANCE CRITERIA

MAXIMUM CONCENTRATIONS

METALS:	mg/l
Arsenic	5.0
Barium	100.0
Cadmium	1.0
Chromium	5.0
Lead	5.0
Mercury	0.2
Selenium	1.0
Silver	5.0

VOLATILES:	mg/l
Benzene	0.5
Carbon Tetrachloride	0.5
Chlorobenzene	100.0
Chloroform	6.0
1,2-Dichloroethane	0.5
1,1-Dichloroethylene	0.7
Methyl Ethyl Ketone	200.0
Tetrachloroethylene	0.7
Trichloroethlene	0.5
Vinyl Chloride	0.2

SEMIVOLATILES:	mg/l
o-Cresol	200.0
m-Cresol	200.0
p-Cresol	200.0
2,4-Dinitrotoluene	0.13
Hexachlorobenzene	0.13
Hexachlorobutadiene	0.5
Hexachloroethane	3.0
Nitrobenzene	2.0
Pentachlorophenol	100.0
Pyridine	5.0
2,4,5-Trichlorophenol	400.0
2,4,6-Trichlorophenol	2.0
1,4-Dichlorobenzene	7.5

FIELD NOTES SHALL INCLUDE, AS A MINIMUM

- 1.) Sample identification number
- 2.) Purpose of sample
- 3.) Analysis method to be used
- 4.) Who collected the sample
- 5.) How the sample was collected
- 6.) Sample quantity
- 7.) Sample preservation, if any
- 8.) Date and time sample
- 9.) Where the sample was collected

NECESSARY INFORMATION ON DATA LABORATORY REPORT FORMS

- 1.) Name of laboratory
- 2.) Name of person responsible for analysis
- 3.) Data (units), sample description (solid, liquid, etc), field code sample date, receiving date
- 4.) Cross reference to laboratory analysis record
- 5.) Parameter being analyzed
- 6.) Result of analysis with units specified
- 7.) Analytical method used (must have SW-846) numbers
- 8.) Minimum detection value of analytical method used (statement "ND")
- 9.) Quality control results (as appropriate) Precision (deviation between sample and duplicate) Extraction Accuracy (recovery of spike) Instrument Accuracy (documentation of calibration)
- 10.) Signature of person responsible for analysis

CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL

"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR		•	
ADDRESS			
GENERATING SITE			
	COUNTY	STATE	
TYPE OF WASTE	······		
ESTIMATED VOLUME			<u> </u>
GENERATING PROCESS			
REMARKS		~	
NMOCD FACILITY	CONTROLLED	RECOVERY INC.	
As a condition of accept a non-exempt waste as (EPA) July 1988 Regul will be analyzed pursuat nature as non-hazardor or listed waste" pursuat and D, has not been ac mixture a "hazardous w	otance for disposal s defined by the Er atory Determinatio ant to the provision us. I further certify nt to the provision dded or mixed with vaste" pursuant to	, I hearby certify that thi ivironmental Protection 2 n. To my knowledge, th s of 40 CFR Part 261 to 7 that to my knowledge " s of 40 CFR, Part 261, 3 the waste so as to mak the provisions of 40 CFI	s waste is Agency's is waste verify the hazardous Subparts C se the resultant R, Section 2613.
AGENT			
	SIGNATURE		
NAME	PRINTED		
ADDRESS			
DATE			

CERTIFICATE OF WASTE STATUS EXEMPT WASTE MATERIAL

ORIGINATING LOCATION:

SOURCE:_____

DISPOSAL LOCATION:

I hereby certify, represent and warrant that the wastes are generated from oil and gas exploration and production operations exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt wastes.

I, the undersigned as the agent for______ concur with the status of the waste from the subject site.

Name	 	
Title	 	
Address	 	
Signature	 	
Date		

ATTACHMENT D

CRI

CONTROLLED RECOVERY INC.

P.O. BOX 369, HOBBS, NM 88241 (505) 393-1079

April 7, 1997

Mr. Jerry Sexton District Supervisor State of New Mexico Oil Conservation Division P.O. Box 1980 Hobbs, New Mexico 88241

Dear Mr. Sexton,

N.M.O.C.D. Rule 711 Section C.8 provides for an exception to the requirements that tanks, pits and ponds exceeding sixteen feet in diameter be covered, screened or netted.

Controlled Recovery, Inc. is requesting that you issue this exception to CRI's facility located in Section 27 Township 20 South Range 23 east NMPM, Lea County permitted under order R-9166 April 27, 1997.

CRI's facility has night security lights, twenty-four hour truck traffic, is adjacent to US Highway 62-180 and County Road C-29. Machinery on site generates noise and movement. There are two dogs on site at all times. There are four full time employees assigned to facility operations.

In six years of operations there have been no incidents harmful to migratory birds at the facility. CRI's facility has been visited and inspected by U.S. Fish and Wildlife Services. Mr. Nicholas E. Chavez has been at the facility in the past 120 days and reported no problems or concerns. CRI also utilizes flags in some locations.

These alternate methods are more than adequate to protect migratory birds and clearly this facility is not hazardous to migratory birds.

Rule 711 provides that the NMOCD District Supervisor may grant the exception, which CRI now requests.

Sincerely, Mark Men Marsh

The above request is granted this 14 day of April 1997.

Ì Jerry Sexton

District Supervisor New Mexico Oil Conservation Division

ATTACHMENT E

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ATTACHMENT F

GULF STATES ANALYTICAL Request for Anal 6310 Rothway, Houston, Texas 77040 6310 Rothway, Houston, Texas 77040 (713) 690-4444, Fax (713) 690-5646 773 (713) 690-5646 2222 Gddress; ($(1,1)$) \mathcal{L} 4 3	liuu L	Project Location:	Haz. San # of (A DI Contai Slu W Slu W Slu Slu Slu Slu Slu Slu Slu Slu	Date Time Dil dge	^{W/} ⁵ / ⁵ / ₅ 1055 X 8 X X X X X X 1				1135 1111111111111111111111111111111111		1120	1205	11(4)2	1220		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Requested Turnaround Special Detection Limits QC Package	GSAI Group:
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ATTACHMENT G

TABLE 2-1

1:::

SUMMARY OF DETECTED CONSTITUENTS FOR SOIL SAMPLES LOCATION 2, CARLSBAD, NEW MEXICO

Detected Constituent	WP-61-EP-3	WP-61-EP-4	WP-61-EP-6	WP-61-DP-1	WP-61-DP-2	WP-61-DP-3
	HSL Me	etals (SW-846 M	ethods 3051/601	0B/7470A)	· · · · · · · · · · · · · · · · · · ·	
Aluminum	2,710	3,430	4.190	2.770 -	1,510	2,860
Antimony	< 0.63	< 0.66	1.3 T	< 0.55	1.7 T	1.0 T
Arsenic	2.4	1.9	2.9	3.2	9.7	7.6
Barium	199	148	536	918	1,850	2.050
Cadmium	0.21 T	0.1 T	0.41 T	0.43 T	< 0.03	< 0.03
Calcium	78,700	66.100	101.000	116.000	34.900	39,700
Chromium	5.0	5.3	21.3	11.1	20.9	17.7
Cobait	1.6 T	0.95 T	1.9	2.1 T	3.1 T	3.3 T
Copper	4.8	0.96 T	19.4	17.4	115	85.7
Iron	5.230	4,250	10.400	7.390	23.200	17.500
Lead	13.6	6.9	81.1	40.8	97.6	116
Magnesium	2.730	3.040	4,360	7.870	4,160	4,490
Manganese	50.2	38.5	115	108	128	105
Mercury	0.16	0.1 T	0.2 85 T	0.4	1.3	0.21
Nickel	5.1	4.0 T	9.4	12.3	33.9	25.6
Potassium	1.940	2,030	2,140	1.500	863	1,220
Sodium	15,000	20,900	15,700	2.220	5,160	3.270
Vanadium	6.1 T	7.6	10.3	11.8	3.1 T	6.5
Zinc	41.0	25.8	87.7	115	269	206
	,	Total VOCs (SW	-846 Method 82	60B)		
Benzene	0.83	1.3	0.84	< 0.053	< 0.055	< 0.053
Carbon Disulfide	0.095	0.057 V	0.059 V	< 0.053	< 0.055	< 0.053
Ethylbenzene	11.0 D	0.91	8.0 D	< 0.053	< 0.055	< 0.053
Methylene Chloride	< 0.062	0.028 V	0.042 V	< 0.053	< 0.055	< 0.053
Toluene	14.0 D	10.0 D	12.0 D	0.018 V	< 0.055	< 0.053
Xylene (totai)	50.0 D	22.0 D	45.0 D	0.04 V	< 0.160	< 0.160

TABLE 2-1 (Continued)

SUMMARY OF DETECTED CONSTITUENTS FOR SOIL SAMPLES LOCATION 1, CARLSBAD, NEW MEXICO

Detected Constituent	WP-61-EP-3	WP-61-EP-4	WP-61-EP-6	WP-61-DP-1	WP-61-DP-2	WP-61-DP-3					
	Total SVOCs (SW-846 Method 8270C)										
Benzo(a)anthracene	< 1.6	< 2.6	< 21.0	0.96 V	< 20.0	< 23.0					
Bis(2-ethylhexyl)phthalate	0.540 D	1.8 V	< 21.0	2.3 V	4.6 VD	< 23.0					
Chrysene	0.73 VD	0.93 V	5.1 VD	3.7 V	10.0 VD	6.2 VD					
Dibenzofuran	0.58 VD	0. 89 V	4.5 VD	< 9.5	< 20.0	< 23.0					
Fluorene	2.8 D	1.9 V	13.0 VD	< 9.5	3.9 V	< 23.0					
2-Methylnapthalene	11.0 D	7.0	65.0 D	< 9.5	< 20.0	< 23.0					
Naphthalene	2.4 D	1.5 V	14.0 VD	< 9.5	< 20.0	< 23.0					
Phenanthrene	6.2 D	5.5	38.0 D	6.1 V	23.0 D	6.2 VD					
Pyrene	0.72 VD	0.87 V	3.7 VD	3.4 V	5.7 VD	4.1 VD					
	Pes	ticides (SW-846	Methods 8081A	/8141)							
		None	Detected								
	Polych	lorinated Bipher	iyls (SW-846 Me	thod 8082)							
		None	Detected		<u> </u>						
19-4		Herbicides (SW	-846 Method 81	51)							
		None	Detected								

Notes:

All concentrations are reported in units of milligrams per kilogram (mg/kg).

Constituents reported in this table include those detected in at least one sample at a concentration greater than the reporting limit.

D	This flag identifies all compounds indentified in an analysis at a secondary dilution factor
HSL	Hazardous Substance List
SW-846	U.S. EPA (1996), Test Methods for Evaluating Solid Waste: Update III, third edition. Washington. D.C.
SVOC	Semivolatile organic compound
Т	The reported value is less than the contract required detection limit but greater than the instrument detection limit
V	Result is less than the contract required quantitation limit but greater than zero
VOC	Volatile organic compound

TABLE 2-2

SUMMARY OF DETECTED CONSTITUENTS FOR WATER SAMPLES LOCATION 2, CARLSBAD, NEW MEXICO

Detected Constituent	WP-61- FB	WP-61- EP-1	WP-61- EP-2	WP-61- EP-5	WP-61- TANK-A	WP-61- TANK-B
	HSL Me	tals (SW-846 M	ethods 3051/6010)B/7470A)	l	
Aluminum	< 0.0382	1.13	0.265	0.559	2.31	1.68
Arsenic	< 0.0037	0.012	0.0051 T	< 0.0037	0.376	0.366
Barium	< 0.00044	1.66	1.43	1.63	4.89	3.72
Beryllium	< 0.00022	0.0043 T	0.0043 T	0.0021 T	0.0019 T	0.0036 T
Cadmium	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00099 T`	< 0.0006
Calcium	< 0.0088	16.700	12,800	16,200	2.820	2,730
Chromium	< 0.0021	0.044	0.032	0.0459	0.042	0.0368
Cobait	< 0.0011	0.0 059 T	0.0035 T	0.005 T	< 0.0011	< 0.0011
Iron	< 0.0199	21.5	6.55	20.4	14.7	9.94
Lead	< 0.0047	0.126	0.0828	0.128	0.0518	0.033
Magnesium	< 0.0376	2.760	2.050	2,660	36,000	635
Manganese	< 0.00044	2.96	2.47	3.08	3.06	2.95
Nickel	< 0.0017	0.0033 T	< 0.0017	0.0024 T	0.0114 T	0.0059 T
Selenium	< 0.0091	0. 168	0.206	0.163	0.0587	0.05
Silver	< 0.0014	< 0.0014	0.0061 T	0.00 26 T	< 0.0014	0.0015 T
Zinc	< 0.0017	0.386	0.123	0.304	0.232	0.1 99
Potassium	< 0.08	1.350	1,150	1,380	354	360
Sodium	0.233 T	62.400	38,700	62,800	25,000	22.800
		lotal VOCs (SW	-846 Method 826	60B)		
Acetone	< 0.01	0.5 VD	< 1.0	0.8 D	14.0 D	14.0 D
Benzene	< 0.005	0.73 VD	0.7 D	0.68 D	7.0 D	7.2 D
2-Butanone	< 0.01	0.12	0.034	0.074	0.42	0.42
Carbon disulfide	< 0.005	0.0 02 V	0.008	0.001 V	< 0.05	< 0.05
Chloroform	< 0.005	0.0 04 V	< 0.005	< 0.005	· < 0.05	< 0.05
Ethylbenzene	< 0.005	0.076	0.028	0.047	0.7	0.78
4-Methyl-2-pentanone	< 0.01	0.019 B	0.005 VB	0.012 B	< 0.1	0.036 VB
Methylene chloride	0.002 VB	< 0.005	< 0.005	< 0.005	0.021 V	0.013 VB
2-Hexanone	< 0.01	0.02	0.007 V	0.013	< 0.1	0.018 V
Toluene	< 0.005	0.74 D	0.5 D	0.72 D	4.6 D	4.7 D
1,1,2-Trichloroethane	< 0.005	0.043	< 0.005	< 0.005	< 0.05	< 0.05
Xylene (total)	< 0.015	0.32	0.12	0.2	1.0	1.1

TABLE 2-2 (Continued)

SUMMARY OF DETECTED CONSTITUENTS FOR WATER SAMPLES LOCATION 2, CARLSBAD, NEW MEXICO

Detected Constituent	WP-61- FB	WP-61- EP-1	WP-61- EP-2	WP-61- EP-5	WP-61- TANK-A	WP-61- TANK-B
	T	otal SVOCs (SW	-846 Method 82	70C)	-	
Bis(2-ethylhexyl)phthalate	< 0.01	0.00 36 V	< 0.01	< 0.01	< 0.2	< 0.04
Carbazole	< 0.01	0.004 V	< 0.01	0.00 26 V	< 0.2	< 0.04
Chrysene	< 0.01	0.0047 V	< 0.01	0.0035 V	< 0.2	0.0095 VD
Dibenzoturan	< 0.01	0.00 93 V	< 0.01	0.0063 V	0.088 V	0.053
2,4-Dimethylphenol	< 0.01	< 0.01	0.042	< 0.01	< 0.2	< 0.04
Dimethylphthalate	< 0.01	< 0.01	0.0028 V	< 0.01	< 0.2	< 0.04
Fluorene	< 0.01	0.026	< 0.01	0.02	0.073 VD	0.035 VD
2-Methylnapthalene	< 0.01	0.2	< 0.01	0.14	0.54 D	0.34 D
2-Methylphenol	< 0.01	0.088	0.12	0.062	0.12 VD	0.24 D
4-Methylphenol	< 0.01	0.11	0.084	0.1	0.083 VD	0.21 D
Naphthalene	< 0.01	0.054	0.0046 V	0.046	0.33 D	0.22 D
Phenanthrene	< 0.01	0.04	0.005 V	0.026	0.087 VD	0.055 D
Phenoi	< 0.01	0.2	0.31 D	0.34 D	0.094 VD	0.22 D
Pyrene	< 0.01	< 0.01	< 0.01	0.0033 V	< 0.2	0.009 VD
	Pe	sticides (SW-846	Methods 8081A	/8141)	1 ge	
		None	Detected			
	- Polych	lorinated Biphe	nyis (SW-846 Me	ethod 8082)		*
		None	e Detected			
·	•	Herbicides (SV	V-846 Method 81	51)		
Dalapon	< 0.0005	< 0.005	0.00089	< 0.005	< 0.05	< 0.025
Dicamba	0.001	< 0.005	< 0.0005	< 0.005	< 0.05	< 0.025

Notes:

All concentrations are reported in units of milligrams per liter (mg/L).

Constituents reported in this table include those detected in at least one sample at a concentration greater than the reporting limit.

B This flag is used when the analyte is found in the associated blank as well as in the sample

D This flag identifies all compounds indentified in an analysis at a secondary dilution factor

- HSL Hazardous Substance List
- SW-846 U.S. EPA (1996), Test Methods for Evaluating Solid Waste: Update III, third edition, Washington, D.C.
- SVOC Semivolatile organic compound
- T The reported value is less than the contract required detection limit but greater than the instrument detection limit

V Result is less than the contract required quantitation limit but greater than zero

VOC Volatile organic compound

ATTACHMENT H

PROBLEM OIL PIT INSPECTION CHECKLIST

Site Number (State-Year-Waypoint):

121

Checklists Completed (circle those that apply):



Prepared by the US Environmental Protection Agency Region VIII and US Fish and Wildlife Service Region VI

revised 7/8/98

This is a pre-decisional document and is, or may be protected by the deliberative process exception and attorney client privilege. Conclusions or recommendations are intended solely as preliminary information for governmental personnel. This form may contain tentative conclusions and staff-level recommendations which are not binding on the Agency. This document does not create any rights, substantive or procedural, or defenses for any person.

PROBLEM OIL PIT INSPECTION CHECKLIST

.....

SECTION ONE	: Site Information		
Site Name:	Mtraled Redevery 1	Waypoint:	iv
Lease Name:	11/4	Lease Number:	
Site Location:			
Section 77	_ Township <u>205</u> Range <u>33</u>	<u>E</u>	
GPS Coordinates	: Lat Long		
City/County/Stat	e/Reservation: <u>LEA CLU</u>	1173	
EPA Facility ID # c	or Other ID #'s:	· · · · · · · · · · · · · · · · · · ·	
Site Type (productio	on, commercial disposal, other):	Communial dupise	Ĺ
Corporate Owner/O	perator Name and Mailing Address:	RI	
Contact Name/Affil	iation/Phone: <u>here Mar</u>	sh, President	
List any known fede	eral, state, or tribal regulatory permits	applicable to this site. Include all pe	rmit number(s) and take photos of
any signage which i	ncludes permit numbers: DUALY	from NIMUCD YU	4 711
SECTION TWO	D: Inspection Information		
Inspection date:	11 3 9 8	Start time:	<u><u>US</u> Finish time:</u>
Describe weather co	onditions (including estimated temperat	ure): Minchy, Cial,	65517-
Were <u>anv</u> samples t the sampling activit not the samples wer	aken during the inspection? Yes <u>v</u> y. Include the following information: re split (and with whom), sample type,	No If yes, use a Continuat agency taking the sample(s), individu sample purpose, sample location, and	tion Sheet to thoroughly document tal taking the sample(s), whether or d parameters to be analyzed for.
Inspection Team:			714
Inspector 1	Melissa Smith	Agency: EPA	Phone: 355
Inspector 2	Roger Anderson	Agency: NINCCD	Phone: 505-827-7152
Inspector 3	Doug Mckenna	Agency: <u>USFWS</u>	Phone: 505-589-2823
Inspector 4	Vince Baideraz	Agency: US BLVM	Phone: 505-393-3612
Inspector 5	<u>Pal Mariantz</u>	Agency: <u>SAIC</u>	Phone: 703-645-6973
Inspector 6	Tim Reeves	Agency: <u>SUIC</u>	Phone: <u>303-382-6730</u>
Inspector	7 Grez Stover	usfices	505-583-7828

Page 2 of _____



Site Name :

(MR)

Waypoint: _____

Include the estimated size (including depth. if possible) of any pits and describe site operations on site sketch. Include description of pertinent features such as waters of the US (location of, distance to, description of conduits to, etc.), for example. Include a north arrow on site sketch.



SECTION FOUR: Ecological Setting

Use the Site Sketch in Section Three to identify significant ecological features (waterbodies, wetlands, vegetation, etc.)

A. GENERAL SETTING

1. Land use surrounding site (e.g. urban, agricultural, rural. residential, industrial) <u>221100110011001000</u>
2. Describe sensitive environmental areas adjacent to or in proximity to the site (e.g. parks, monuments, wetlands, prairie
potholes). <u>planga latu</u>
3. Potential routes of off-site migration of contaminants observed at site (e.g. swales, depressions, drainage ditches,
runoff, windblown particulates, vehicular traffic) NO CAH-SITE VOLUTES
4. Threatened and/or endangered species (plant or animal) known to inhabit area?
5. Drinking water sources on or near the site? Yes No V If yes, explain:
6. Ground water supply wells or monitoring wells on or near the site? Yes No If yes, what is the distance
from the site? Describe:
B. TERRESTRIAL HABITAT
1. Percentage of the site is coverered by: wooded areas%, shrub/scrub vegetation%, open fields%.
2. Presence and/or absence of insects, fish, birds, mammals, etc.? <u>Attental</u> <u>preds</u>
C. AQUATIC HABITAT
1. Describe any flowing or non-flowing water systems at or near the site (e.g. river, creek, arroyo, ditch, natural pond or lake,
artificial lagoon, reservoir, impoundment, etc.). Include type, size, distance from site, and name, if known.
plan i lake 34 mile - discharge for Tettash Numes
2. Is there any aquatic vegetation present? If yes, describe. <u>dial knew</u>
3. What observations, if any, were made at the waterbody regarding the presence and/or absence of insects, fish, birds, mammals,
etc.? <u>Alud li huni</u>
D. WETLAND HABITAT
1. Based on observations and/or available information, are designated or known wetlands definitely present at the site?
2. Based on the location of the site (e.g. along a waterbody, in a floodplain) and site conditions (e.g. standing water, dark/ wet
soils. mud cracks, debris line, water marks), are wetland habitats suspected?
3. What observations, if any, were made at the wetland regarding the presence and/or absence of insects, fish, birds, mammals,
etc.? <u>NOW</u>

SECTION FIVE: General Observations

A. PITS. Complete checklist A if any of the following conditions exist:

- 1. Does accumulated oil exist on the surface of any pits, ponds, sumps, or other open-topped storage devices ?
- 2. Are pits, ponds, tanks, sumps, or other devices which may accumulate oil covered with netting or are there any other wildlife exclusionary or deterrent devices in use (covers, flagging, etc.)?
- 3. Are there any dead or oiled birds or other wildlife on or near the site or any indication of oiled birds/wildlife previously at or near the site (oily tracks, etc.)? Sur TWS reput
- B. DISCHARGES. Complete checklist B if any of the following conditions exist:
- 1. Is there a discharge (either ongoing or one-time) from a pit, pond, tank, or other device at the site ? Yes No V_{-}
- 2. Is there indication of any past or potential future discharge from a pit, pond, tank, or other device at the site (soil staining, fresh dirt or gravel used as cover, 2 ft or less freeboard maintained, eroded berms, etc.)?
 Yes No V

C. TANKS AND CONTAINERS [complete this section only if there are tanks or containers with oil on site with a capacity of 660 gallons (16 barrels) in a single tank/container <u>or</u> total capacity of 1,320 gallons (31 barrels) in all tanks/containers on site]. Complete checklist C if any of the following conditions exist:

1. Is the secondary containment (dikes, berms, weirs) around tanks, containers, and heater-treaters absent?

2. Is the secondary containment (dikes, berms, weirs) around tanks, containers, and heater-treaters inadequate (in size, material, eroded or worn down)? IUW BUGUN how berny

				uu		1000
3.	Has there been a	discharge or	spill outside	the secondary	containm	ent ?

D. OTHER. Complete Supplemental Checklist if any of the following conditions exist:

1.	Do you see or smell any air emissions (smoke, vapors, steam, dust) from any vent, stack, or other site activity or do you have any reason to believe that such an emission might exist?	Yes	No_V
2.	Do you see pesticide containers in storage and/or trash areas?	Yes	NoV
3.	Is there evidence that dredged or fill material is being or was removed from or discharged in or on the banks of waters of the US (e.g. ponds, streams, rivers, wetlands, dry arroyos, etc.) or that other inappropriate activities are occuring or having occured on waters of the US ?	Yes	No
4.	Do you see or suspect dumping of any solid or liquid materials at the site, including in pit or ponds (other than oil in pits or ponds as described above)? UNEL OUCHTING MUCHS	Yes	_ No_V_
5.	Do you see or suspect <u>any kind</u> of below ground or partially buried storage tanks (for fuels, chemicals or waste products such as waste or used oil)?	Yes	No
6.	Do you see any liquid filled transformers or capacitors?	Yes	
7.	Is there any indication that hazardous waste is generated or otherwise managed at the site ?	Yes	No V

Yes 🔽 No___

Yes<u> V</u> No____

Yes 🗸 No____

Yes No V

Yes 🗸 No

Yes____ No____

Site Number: WFIGI (Sit Autor Mutan) Film Turch Film Type/ASA/Size: Modale 35,min well punt Photographer: Milisia Someth

Photo Number Subject **Direction Photo Taken** netted + lined at us access ateraci 2. Mauric tanks by Heatment 11.01.30 receiving tank for theatment process 3. 4 acceliting tonk for treatment success 5 accenting tank for tradment precise low paint in bein a connet treatment tanks 1 bern opening from ice tanks to treatment tanks 7 С; Б bein around treatment tambés + sasture beinel fence ()Soluts turn contribuse receiving tanks for preduced water 11 $\|$ pit for prediced wate Sten nat coaporation put for preduced wate 12 the modured water 13 Second Sherry jet 14 tot modured water Slu been al that to use line Jastin 15 Cattle WW. 10 three muds ILA AL 17 Var. and muchs 18 for pel based dulling muchs fion facility 19 DA (NGicurd) across lst Intos roll KEPINES SAIC M Backeup secondary of fin tank ٨١ Lottoms 0 aila Siccin alar the tank Lottoins out Page 7 of

PHOTO LOG (CONTINUED)

Photo Number Subject Direction Photo Taken 3 Heated receiving tanks for tank bottoms 4 or drivenan low spot in being used as road bern beneath plouse VIDside of tank batter. 6 berm DOV D 7 maturad + tank battern Inter cht Oad Sottlene. Produced 101 iater 0 pumany 1st and her preduced water LUADEration town liner produced 10 Ch Ist water Hleng writer ſ١ PEARD put 161 12 on bank eace ever pit for preduced water Dil 13 Är d praparation out ined livile Photos taken by (2nd Roll Im Reeves sit for drilling mids 2 as set to dulling muds For dvilling materials 3 evap nets tially divied and pit of dvilling mu 4 QUED DIK 5 dulling mud 101 pt for drilling muds additional (ç

CHECKLIST "A" - PITS

1. If accumulated oil exists on the surface of any pits, ponds, sumps, or other open-topped storage devices, describe observed conditions including size of each pit, pond, sump, or device, percentage of area covered, and thickness of oil. Describe any other observations (visual, odor) of the material in each pit, pond, sump, or other device:

2. Describe any netting or other wildlife exclusionary or deterrent devices in use at the site. Include description of condition, coverage, netting mesh size, etc.:

Metting was on strang pet - transmind and - all other pets Much flagging

3. Describe any oiled or dead birds or other wildlife found at or near the site. Indicate the number of mortalities and the seizure numbers for any birds collected:

One of the pits sitzure tag # 1051585

4. Describe the construction and operation of any pits or ponds located at the site. Include a description of the pond liner system, if possible. Estimate the freeboard observed at the time of the inspection:

punits that which direct direct plastic liners, determined by go at highridadowns whither as not they are lined.

- 5. Indicate how long any pits or ponds at the site have been in operation: $\sqrt{2}$
- 6. If a pit, pond, sump, or other device is used as a loading/unloading area at a non-production site, describe any secondary containment used: failles used as heading/unloading devices.

Page _____ of _____
CHECKLIST "B" - DISCHARGES AND SPILLS

- 1. Indicate whether or not the site has a NPDES permit and, if so, indicate the permit number and whether or not the number is posted on site:
 - *V*]0
- 2. Describe any ongoing discharges or one-time spills from pits, ponds, or other devices at the site. For each discharge, include a description of the source. duration, and rate (gal/min or cfs) of material discharged. For each spill, describe the amount and area of the spilled material. Also describe any observations (oil sheen, odor) regarding the type of material discharged or spilled:

None

3. Describe any indications (e.g. soil / vegetation staining on ground or in drainages) of past discharges or spills from pits, ponds, tanks, or other devices at the site. Include any indication of the type of material discharged or spilled (e.g. oil stain, salt brine, etc.) and when and for how long the discharge or spill occurred:

non

4. Identify and describe the **drainage pathway** (dry arroyo, ditch, stream, etc.) of any current or suspected past discharges or spills from the site. Trace the drainage pathway to a flowing waterway, if possible, and describe the extent of any oil staining. Include a description of whether the drainage is dry at the time of the inspection, contains standing water that doesn't appear to be flowing or, if flowing, the estimated flowrate (gal/min or cfs) of water and/or discharged material:

5. Identify and describe any pits, ponds, or other devices in which less than 2 ft of freeboard exists at the time of the inspection. Also describe any indications that less than 2 ft of freeboard has been maintained in the past, such as staining of pond banks or overtopping of berms, etc.:

6. If possible, estimate the receipt rate or production rate (gal/day) of oil and/or produced water at the site:

7. If possible, determine whether or not any discharges or spills from the site have been reported and, if so, describe how (letter, phone, etc.), when, and to whom (EPA, BLM, DEQ, OGCC, BIA, etc.) it was reported:

8. Describe the general housekeeping and maintenance of the facility and any conditions which could result in a discharge or spill (valves which could be opened, poorly supported pipelines, etc.): Sincially field, hereing, here

Page of

CHECKLIST "C" - TANKS AND CONTAINERS

Is the facility ma	nned 8 hrs/day	or more?		man the site? Were	he No	Yes <u>No</u>
distance from the	e site? $\frac{1}{2}$	$\frac{1}{2}$ 1) $\frac{1}{2}$	Describe:	Planalaki	<u></u> NO	If yes, what is
Describe any thr valves; overfillir	eat/potential for ng of tanks; corr りついき clo	spill (e.g. oil soak oded tanks; holes i Served : - htt	ed containment; n tanks; oil disc موتار باقدید (جاوز	containment filled w narge at loading/unloa	ith water, debr ading area; etc	is, vegetation; leak .):
Is there a method	to remove wat	er from secondary	containment, suc	h as piping? Yes 🔽	/ No	Is it closed?
in secondary con	tainment is not a	adequate (m size, i	nateriai, eroded	or worn down), descr	ibe.	•
Describe all iten Three). IMPOR	n arcund ns below. Be su TANT: Estimat	Treatine is re to include each a capacity or heigh	tank/container and diameter c	o vlot Compt ad its secondary conta f each tank/container	lette . uinment on the , if not marked	site sketch (Section l or known.
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Page _____ of _____



Page ____ of