Geccos

Ciniza

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

RECEIVED SEP 2005 Hazardous Bureau

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 Giant Industries, Inc.	Contact James Romero/Steve Morris
Address Rt. 3, Box 7	Telephone No. 505-722-0227
Facility Name Giant Industries, Inc.	Facility Type Refinery

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

LOCATION OF RELEASE

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

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

NATURE OF RELEASE

Type of Release **Diesel**	Volume of Release **20 gallons**	Volume Recovered **20 gallons**
Source of Release **Marketing Tank #4**	Date and Hour of Occurrence **9/14/05 @ 4am**	Date and Hour of Discovery **9/14/05 @ 4:15am**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Wayne Price via email dated 9/14/05**	
By Whom? **Steve Morris**	Date and Hour **9/14/05 @10:31 am**	
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 process sewer line was found plugged and maintenance dept was working on unplugging the line on 9/13/05. However, accumulation of water and hydrocarbon slop in the sewer line from the truck rack overflowed at the lowest point near MKT #4 on 9/14/05**

Describe Area Affected and Cleanup Action Taken. **The overflow was contained within the marketing tank area and did not flow toward the containment berm or drain. The pumper and shifter took the GI vacuum truck to the spill and vacuumed up the diesel slop.**

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: JAMES ROMERO	Approved by District Supervisor:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: Jromero@Giant.com	Conditions of Approval:	Attached ☐
Date 9/15/05 Phone: 505-722-0227		

* Attach Additional Sheets If Necessary

District I
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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

RECEIVED
AUG 2005
NMED Hazardous Waste Bureau

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Giant Industries, Inc.	Contact James Romero/Steve Morris
Address Rt. 3, Box 7	Telephone No. 505-722-3833
Facility Name Giant Industries, Inc.	Facility Type 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
	33	15N	15W					McKinley

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

NATURE OF RELEASE

Type of Release Wastewater	Volume of Release 1,152,000 gal	Volume Recovered Ongoing
Source of Release API	Date and Hour of Occurrence Est. 1-3 days prior to sampling Est. (Aug 7, 2005)	Date and Hour of Discovery 8/15/05 Received Lab Results 8/15/05 Notified OCD/NMENV
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Phone call to Wayne Price, Denny Foust (OCD), and Hope Monzeglio	
By Whom? James Romero and Steve Morris	Date and Hour 8/9/05 Sample Date 8/12/05 Lab Results	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*
The API sump pump was not working properly (20-30% capacity) which resulted in a reportable discharge into our aeration lagoons/ponds
***See attached Remediation Plan**

Describe Area Affected and Cleanup Action Taken.
.

***See attached Remediation Plan**

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: JAMES ROMERO	Approved by District Supervisor:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: Jromero@Giant.com	Conditions of Approval:	Attached ☒
Date: Phone: 505-722-0227 Aug 17, 2005		

* Attach Additional Sheets If Necessary

REMEDIATION PLAN
API/LAGOON/POND SPILL

Background: The API sump pump not working properly resulted in a reportable release of wastewater into the aeration lagoons/ponds. Grab samples on Evaporation Pond #1 and Lagoon #1 were taken on August 9, 2005. On August 15, 2005 Giant's Ciniza Refinery received lab results (attachment 1) indicating levels above the regulatory limit for Benzene. Giant immediately contacted the New Mexico Office of Oil Conservation Division (OCD) and the New Mexico Environmental Department (NMENV) via phone/email (attachment 2).

ENVIRONMENTAL CONSEQUENCES:

On average the API output is 50-100 gpm (144,000 gpd). Based on these numbers, it is estimated 1,152,000 gallons of untreated oily water was discharged into the environment (aeration lagoon and ponds) through August 15th. However, the discharge was and continues to be contained within the lagoons and ponds; no waterways were/are being impacted and no releases have left the property. Giant evaluated isolating the ponds to limit the area of contamination, however, due to heavy rainfall >5.0" (see rainfall data), and on-going operations, it was logistically impracticable.

Based on knowledge of the process, no discharge of any listed wastes occurred. This is due to the fact the sludge material (F, K wastes) dropped out before exiting the API (see attachment 3).

Ground water sampling per 2005 OCD permit is scheduled to occur later this month. Any Ground water contamination (if detected) will be immediately reported to OCD and NMENV.

IMMEDIATE ACTION TAKEN:

Immediate notification was given (via telephone/email) to OCD and NMENV. Giant requested permission to utilize vac-trucks to clean out lagoons and store material in two 55,000-barrel tanks. OCD granted emergency approval with the following conditions:

(1) All water sales from the ponds shall cease, unless approved by OCD
(2) No storm water shall be released that exceeds the WQCC standards.
(3) The emergency actions shall be continuous (24 hour) until API problem is correct.
(4) A daily E-mail report shall be submitted until emergency is over.
(5) Giant shall isolate the other ponds, if possible during the emergency condition

ON-GOING ACTIONS:

Giant Management (Ed Rios) notified all personnel via email of the importance of spill prevention.

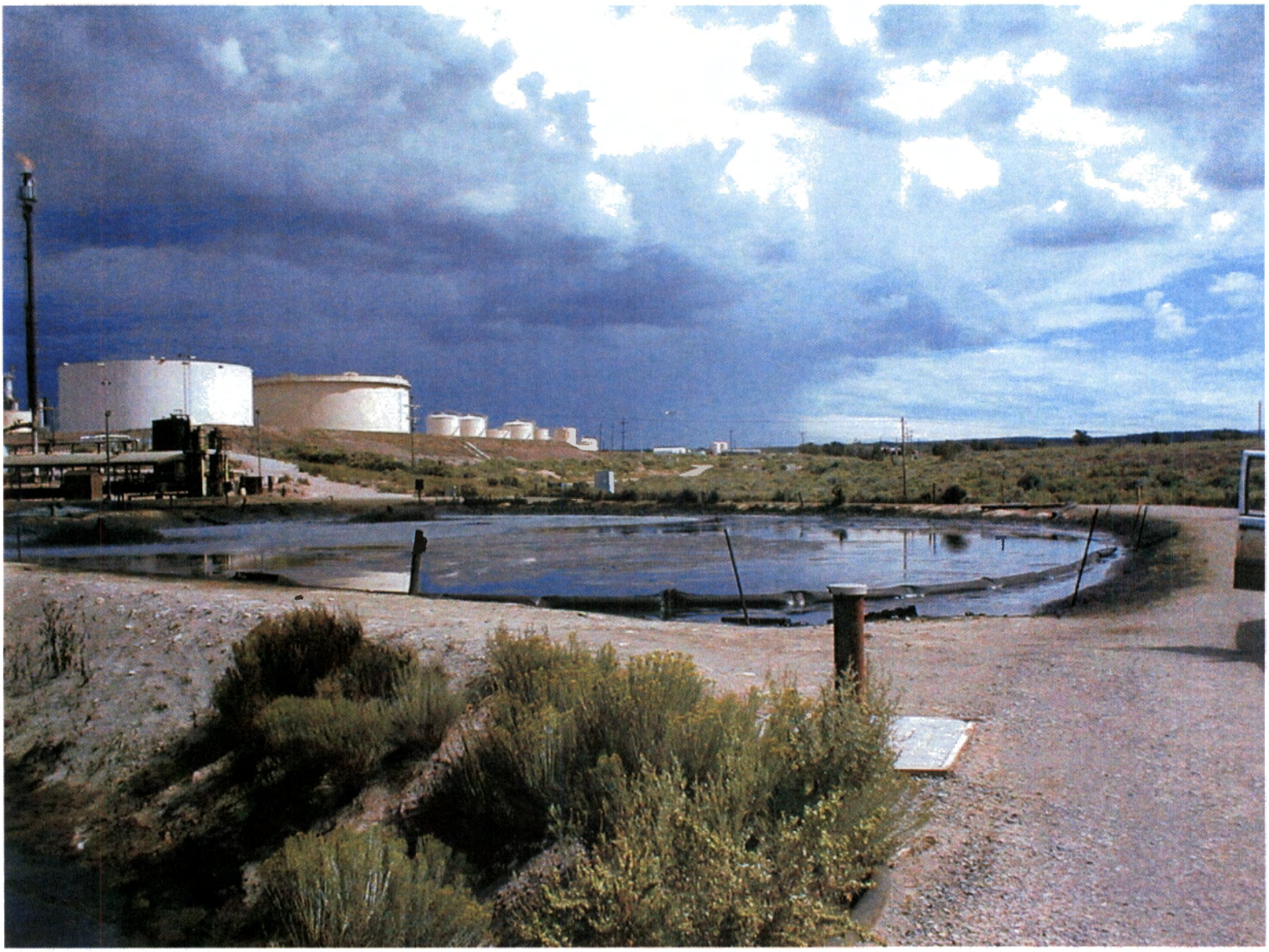
Giant personnel developed a detailed scope of work (see attachment 4). This included preparing two 55,000-barrel tanks (see map) to receive material from the lagoons.

Moreover, a contract was given to Riley Industrial Services to use 2-3 large capacity vacuum trucks and personnel to vacuum, and transport lagoon material to the tanks. Giant has verified the contractor has an Environmental Management System in place (see attachment 5) and is aware of Giant's SPCC plan. Work will commence on August 18th and continue until completion. Trucks will run during daylight hours (see map for truck routes), however, due to inclimate weather conditions, and associated safety concerns, work maybe be temporarily stopped.

In addition to pumping material from the lagoons, the lagoon/pond banks will require cleaning. Any soil removed will be stockpiled on plastic lining and tested TCLP. Based on the results of the TCLP, disposal of soils will be onsite and/or shipped off site has hazardous waste.

Moreover, to fix the API, a new chopper pump has been ordered and should arrive within 6-8 weeks. A complete installation plan will be developed forwarded to OCD.

Ground water sampling for Giants OCD Permit is scheduled for later this month. Any Ground water contamination (if detected) will be immediately reported to OCD and NMENV.



Attachment #1

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

December 08, 2004

Steve Morris
Giant Refining Co
Rt. 3 Box 7
Gallup, NM 87301
TEL: (505) 722-3833
FAX (505) 722-0210

RE: Evap. Pond #2 Inlet 111904 Order No.: 0411219

Dear Steve Morris:

Hall Environmental Analysis Laboratory received 1 sample on 11/19/2004 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

ACCREDITED IN ACCORDANCE WITH nelac

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

Hall Environmental Analysis Laboratory

Date: *08-Dec-04*

CLIENT: Giant Refining Co
Lab Order: 0411219
Project: Evap. Pond #2 Inlet 111904
Lab ID: 0411219-01

Client Sample ID: Pond #2 Inlet
Collection Date: 11/19/2004 11:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	110	100		µg/L	40	11/24/2004 3:19:09 PM
Benzene	24	20		µg/L	40	11/24/2004 3:19:09 PM
Toluene	72	20		µg/L	40	11/24/2004 3:19:09 PM
Ethylbenzene	20	20		µg/L	40	11/24/2004 3:19:09 PM
Xylenes, Total	110	20		µg/L	40	11/24/2004 3:19:09 PM
Surr: 4-Bromofluorobenzene	103	74-118		%REC	40	11/24/2004 3:19:09 PM
EPA METHOD 7470: MERCURY						Analyst: **CMC**
Mercury	0.0012	0.00020		mg/L	1	12/2/2004
EPA 6010C: TOTAL RECOVERABLE METALS						Analyst: **NMO**
Arsenic	ND	0.020		mg/L	1	12/2/2004 9:20:49 AM
Barium	0.14	0.020		mg/L	1	12/2/2004 9:20:49 AM
Cadmium	ND	0.0020		mg/L	1	12/2/2004 9:20:49 AM
Chromium	0.012	0.0060		mg/L	1	12/2/2004 9:20:49 AM
Lead	0.0075	0.0050		mg/L	1	12/2/2004 9:20:49 AM
Selenium	ND	0.050		mg/L	1	12/7/2004 8:56:19 AM
Silver	ND	0.0050		mg/L	1	12/2/2004 9:20:49 AM
EPA METHOD 160.1: TDS						Analyst: **MAP**
Total Dissolved Solids	3800	200		mg/L	4	11/24/2004

Qualifiers:

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

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

HALL ENVIRONMENTAL
attn: ANDY FREEMAN
4901 HAWKINS NE, SUITE D
ALBUQUERQUE NM 87109-4372

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: HALL ENVIRONMENTAL
Project: EVAP POND2
Order: 0411487 HAL03 Receipt: 11-19-04

For: *William P. Blava: President of Assaigai Analytical Laboratories, Inc.*

Sample: *POND #2 INLET* Collected: *11-19-04 11:00:00* By:
Matrix: *AQUEOUS*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0411487-01A		**EPA 405.1 Biochemical Oxygen Demand**					By:	CMS		
BOD04148	WC.2004.3313.16		Biochemical Oxygen Demand	1246	mg/L	1	2		11-19-04	11-24-04
0411487-01B		**EPA 410.1 Chemical Oxygen Demand**					By:	NJL		
WCOD04040	WC.2004.3367.14		Chemical Oxygen Demand	2270	mg / L	10	10		12-03-04	12-06-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL.
THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

Rx Date/Time DEC-07-2004(TUE) 09:06 5053457259 P.001
ASSAIGAI LABS Fax:5053457259 Dec 7 2004 9:30 P.01

Hall Environmental Analysis Laboratory

Date: *08-Dec-04*

CLIENT: Giant Refining Co
Work Order: 0411219
Project: Evap. Pond #2 Inlet 111904

QC SUMMARY REPORT
Method Blank

Sample ID **Reagent Blank 5m** Batch ID: **R13881** Test Code: **SW8021** Units: **µg/L** Analysis Date **11/24/2004 8:25:04 AM** Prep Date
Client ID: Run ID: **PIDFID_041124A** SeqNo: **322965**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	20.19	0	20	0	101	74	118	0			

Sample ID **MB-6991** Batch ID: **6991** Test Code: **SW7470** Units: **mg/L** Analysis Date **12/2/2004** Prep Date **12/2/2004**
Client ID: Run ID: **MI-LA254_041202A** SeqNo: **324028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0002									

Sample ID **MB-6980** Batch ID: **6980** Test Code: **SW6010A** Units: **mg/L** Analysis Date **12/2/2004 9:05:17 AM** Prep Date **12/1/2004**
Client ID: Run ID: **ICP_041202A** SeqNo: **323941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Cadmium	ND	0.002									
Chromium	ND	0.006									
Lead	ND	0.005									
Selenium	0.01884	0.05									J
Silver	0.001192	0.005									J

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

1

CLIENT: Giant Refining Co
Work Order: 0411219
Project: Evap. Pond #2 Inlet 111904

QC SUMMARY REPORT

Method Blank

Sample ID **MB-6980** Batch ID: **6980** Test Code: **SW6010A** Units: **mg/L** Analysis Date **12/7/2004 7:59:54 AM** Prep Date **12/1/2004**
Client ID: Run ID: **ICP_041207A** SeqNo: **324781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.0209	0.05									J

Sample ID **MB-6956** Batch ID: **6956** Test Code: **E160.1** Units: **mg/L** Analysis Date **11/24/2004** Prep Date **11/23/2004**
Client ID: Run ID: **WC_041124C** SeqNo: **323022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50									

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

Hall Environmental Analysis Laboratory

Date: *08-Dec-04*

CLIENT: Giant Refining Co
Work Order: 0411219
Project: Evap. Pond #2 Inlet 111904

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **BTEX std 100ng** Batch ID: **R13881** Test Code: **SW8021** Units: **µg/L** Analysis Date **11/24/2004 2:19:21 PM** Prep Date
Client ID: Run ID: **PIDFID_041124A** SeqNo: **323077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	35.23	2.5	40	0	88.1	54.9	142	0			
Benzene	19.81	0.5	20	0	99.0	81.3	121	0			
Toluene	20.17	0.5	20	0	101	84.9	118	0			
Ethylbenzene	19.93	0.5	20	0	99.6	53.8	149	0			
Xylenes, Total	59.98	0.5	60	0	100	83.1	122	0			

Sample ID **LCS-6991** Batch ID: **6991** Test Code: **SW7470** Units: **mg/L** Analysis Date **12/2/2004** Prep Date **12/2/2004**
Client ID: Run ID: **MI-LA254_041202A** SeqNo: **324033**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00542	0.0002	0.005	0	108	75.2	134	0			

Sample ID **LCSD-6991** Batch ID: **6991** Test Code: **SW7470** Units: **mg/L** Analysis Date **12/2/2004** Prep Date **12/2/2004**
Client ID: Run ID: **MI-LA254_041202A** SeqNo: **324034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004943	0.0002	0.005	0	98.9	75.2	134	0.00542	9.21	0	

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

CLIENT: Giant Refining Co
Work Order: 0411219
Project: Evap. Pond #2 Inlet 111904

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **LCS-6980** Batch ID: **6980** Test Code: **SW6010A** Units: **mg/L** Analysis Date **12/2/2004 9:08:09 AM** Prep Date **12/1/2004**
Client ID: Run ID: **ICP_041202A** SeqNo: **323942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.436	0.02	0.5	0	87.2	80	120	0			
Barium	0.46	0.02	0.5	0	92.0	80	120	0			
Cadmium	0.4281	0.002	0.5	0	85.6	80	120	0			
Chromium	0.4782	0.006	0.5	0	95.6	80	120	0			
Lead	0.4388	0.005	0.5	0	87.8	80	120	0			
Silver	0.4356	0.005	0.5	0.001192	86.9	80	120	0			

Sample ID **LCSD-6980** Batch ID: **6980** Test Code: **SW6010A** Units: **mg/L** Analysis Date **12/2/2004 9:11:17 AM** Prep Date **12/1/2004**
Client ID: Run ID: **ICP_041202A** SeqNo: **323943**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4641	0.02	0.5	0	92.8	80	120	0.436	6.24	20	
Barium	0.4811	0.02	0.5	0	96.2	80	120	0.46	4.50	20	
Cadmium	0.4473	0.002	0.5	0	89.5	80	120	0.4281	4.39	20	
Chromium	0.5006	0.006	0.5	0	100	80	120	0.4782	4.58	20	
Lead	0.4614	0.005	0.5	0	92.3	80	120	0.4388	5.03	20	
Silver	0.4582	0.005	0.5	0.001192	91.4	80	120	0.4356	5.05	20	

Sample ID **LCS-6980** Batch ID: **6980** Test Code: **SW6010A** Units: **mg/L** Analysis Date **12/7/2004 8:02:19 AM** Prep Date **12/1/2004**
Client ID: Run ID: **ICP_041207A** SeqNo: **324782**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.5304	0.05	0.5	0.0209	102	80	120	0			

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

CLIENT: Giant Refining Co
Work Order: 0411219
Project: Evap. Pond #2 Inlet 111904

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-6980** Batch ID: **6980** Test Code: **SW6010A** Units: **mg/L** Analysis Date **12/7/2004 8:04:44 AM** Prep Date **12/1/2004**
Client ID: Run ID: **ICP_041207A** SeqNo: **324783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.5466	0.05	0.5	0.0209	105	80	120	0.5304	3.01	20	

Sample ID **LCS-6956** Batch ID: **6956** Test Code: **E160.1** Units: **mg/L** Analysis Date **11/24/2004** Prep Date **11/23/2004**
Client ID: Run ID: **WC_041124C** SeqNo: **323023**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	982	50	1000	0	98.2	80	120	0			

7 / 8

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

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name GIANTREFIN

Date and Time Received:

Work Order Number 0411219

Received by AT

Checklist completed by Obonzales 11/19/04
Signature Date

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 - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? **6°** *4° C ± 2 Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345-3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Giant Refining Company - Ciniza

Address: Route 3 Box 7
Gallup, NM 87301

Phone #: 505 722 3833

Fax #: 505 722 0210

Project Name: Evap. Pond #2 Inlet 111904

~~Project #~~:

Project Manager: Steve Moore

Sampler: Steve Moore

Samples Cold?: 6° ☐ Yes ☐ No

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HCl	Preservative	HEAL No. 0411219	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B MOD (Gas/Diesel)	TPH (Method 418.1)	Volatiles Full List (8021)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals Total	Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260 (VOA)	8270 (Semi-VOA)	BOD, COD, TDS	8021 BTEX + MTBE	Air Bubbles or Headspace (Y or N)
11/19/04	1100	Water	Pond #2 Inlet	7				1									X						X	X	

Remarks:

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
11/19/04	1340	Steve Moore	11/19/04
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature) 1340

Attachment 2

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

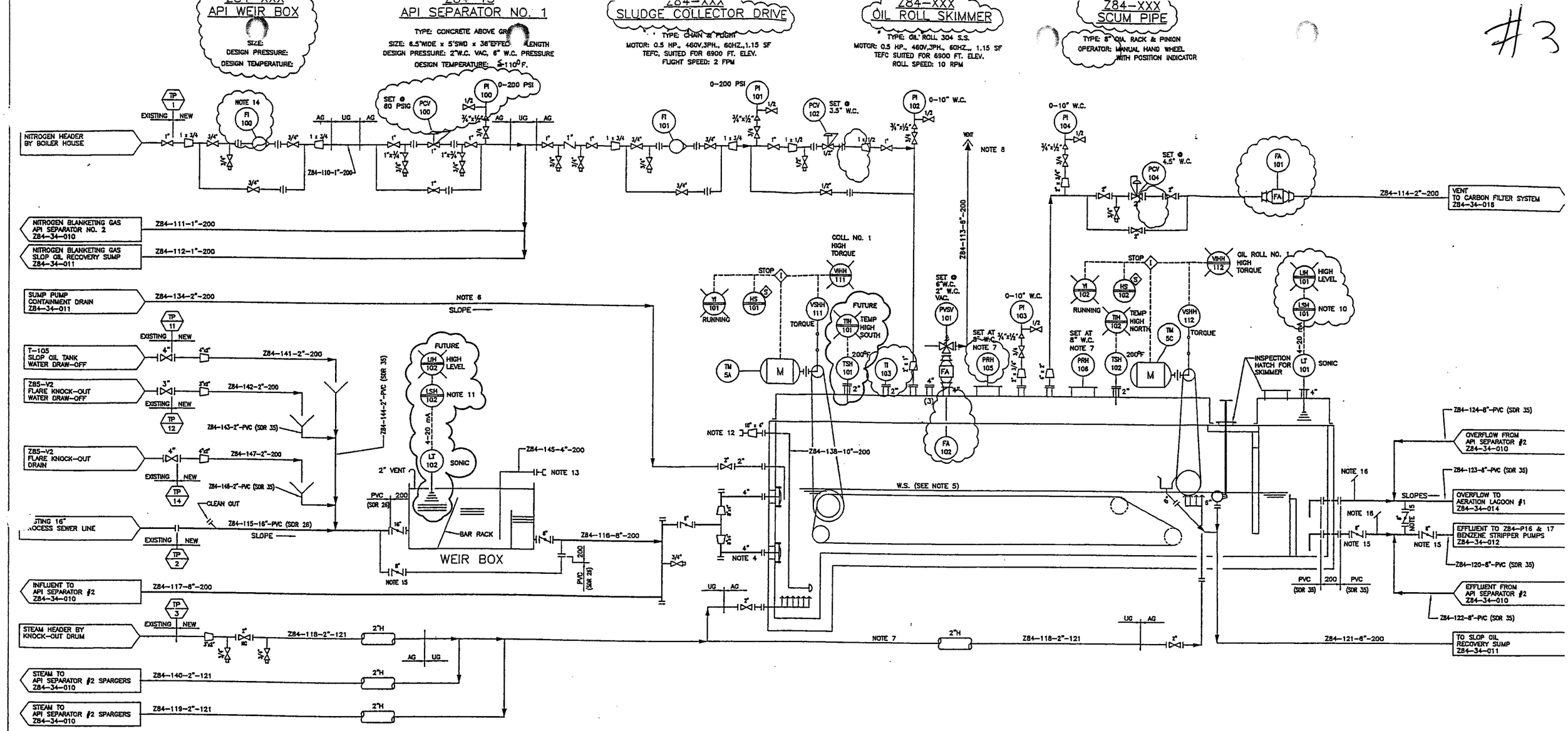
Wayne,

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

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

(1) Vac-trucks will be used to pump and clean out the aeration lagoons/API sump
(2) Interim emergency storage of material within two 55,000 barrel tanks located on western part of the property (map will follow hard copy).
(3) A chopper pump will be installed and has been ordered (replacement of old API pump)

LAB RESULTS	Lagoon 2	Evap Pond 1
MTBE	88 ppb	60 ppb
Benzene	306 ppb	1000 ppb
Toluene	8.7 ppb	76 ppb
Ethylbenzene	<2.5 ppb	<10.0 ppb



NOTES:

1. FOR GENERAL NOTES AND SYMBOLS SEE DRAWINGS Z84-34-006 & 007
2. POWER WIRING, SIGNAL WIRING AND INTERLOCKS AS NOTED
3. SLUDGE HOPPER CLEAN-OUT SUCTION LINE TO BE SUBMERGED TO WITHIN 6" OF BOTTOM OF HOPPER.
4. TANK INLET WALL SLEEVES TO BE 8" FOR FUTURE CONSIDERATION.
5. WATER SURFACE ELEVATION IS BASED ON AVE. FLOW OF 150 GPM. FUTURE FLOW OF 500 GPM WATER SURFACE IS 1" HIGHER.
6. SLOP OIL SUMP PUMP DRAIN LINE TO BE SUBMERGED BELOW WATER SURFACE. DRAIN FREELY FROM SLOP OIL SUMP PUMP CONTAINMENT.
7. WHEN STEAM IS USED TO FACILITATE THE REMOVAL OF SETTLED SLUDGE OR SKIMMED OILY WASTE A PRESSURE RELIEF HATCH IS TO BE OPENED TO RELIEVE ANY ACCUMULATED INTERNAL PRESSURE.
8. VENT TO SAFE AREA.
9. ALARM SIGNAL TO GIANT DCS IS VOLTAGE FREE CONTACT.
10. EFFLUENT CHAMBER HIGH LEVEL ALARM CONTROLLER SETTINGS:
    ALARM SETTING AT PEAK FLOW: 60.38" = 10.97mA
    BOTTOM OF TANK: 107.00" = 20.00mA
11. WEIR BOX HIGH LEVEL ALARM SETTING TO BE DETERMINED BY GIANT.
12. SLUDGE HOPPER CLEAN-OUT TO BE ACCESSED BY VACUUM TRUCK
13. SLUDGE HOPPER CLEAN-OUT WATER RETURN FROM VACUUM TRUCK AND PIPE SLOTTED IN SLUDGE HOPPER
14. FI-100 TO BE LOCATED BY BOILER HOUSE TIE-IN
15. BUTTERFLY VALES ON PVC (SDR 26 & 35) LINES TO BE CARBON STEEL
16. EFFLUENT & OVERFLOW LINES TO HAVE AIR BREAK (ANTI SIPHON) LINES TO BE EVEN WITH TOP OF API SEPARATOR BASINS
17. API COMMON FAULT ALARM AT BOILER HOUSE-DCS AREA #2

REFERENCE DWG. TITLE	REF. DWG. No.	REV.	REVISION DESCRIPTION	RFC No.	DATE
		1	INSTRUMENT TAG # REVISIONS	CC9011.39	04NOV03
		0	IFC & REVISED DRAWING NUMBERS RCC #6770	998-9011-39	3/13/02
		A	ISSUED FOR APPROVAL RCC #6770	998-9011-39	1/29/02

CINIZA REFINERY — GIANT REFINING CO. A DIVISION OF GIANT INDUSTRIES — GALLUP NEW MEXIC

PROCESS & INSTRUMENTATION DIAGRAM
API SEPARATOR BASINS AND SLOP OIL RECOVERY SUMP

DRN. BY: TWB	DATE: 12/12/01	RFE No: 998-9011-3	
CHK'D. BY: TM	DATE: 12/13/01	CAD REF: Z84-34-009	
APP'D. BY: BL	DATE: 2/21/02		
DRAWING NO. Z84-34-009			

Aeration Lagoon / Evaporation Pond / Clean Up and Remediation

The following scope of work will commence on or about the 16th or 17th day of August 2005 and continue until completion. Giant personnel as well as outside contractors will be involved. Giant will assign personnel to oversee and report project progress to management on a daily basis through to completion.

Aeration Lagoons / Evaporation ponds

- Visually inspect the two tanks just south of the pond spray evaporators. Verify that the tanks are empty. Look over the area and identify any obstacles or hazards that will need to be addressed. (Complete)
- Install all necessary flanges, fittings, and valves for a water draw / sample point on the flanges located on the bottom of each tank just south of the large tie piping. Verify that the block valves between the two tanks are blocked in and tagged out to isolate the tanks. Install an empty barrel in the ground at each drain location to avoid possible ground contamination during testing. (Complete)
- Take the 3" rental trash pump from the lay down area to the tanks and place inside the dike. Locate the pump with the suction to the North. Install the discharge piping and connect it to the bottom of the East tank. Make sure to install a block valve and a check valve at the tank to avoid possible leaks or spill. Make sure to fully fuel the pump. Locate the small day tank, fill it up and locate it at the pump for refueling. Start the pump to verify proper operation.
- Clear out and level an area inside the dike to allow easy access for the vacuum trucks to get in and out of the area with no difficulty. Run the rental pump suction to the area for the vacuum trucks to hook to.
- The north dike wall is not in place. The dike will need to be built up to 4 feet and slope the inside and outside to allow the vacuum trucks to drive over it without difficulty. Compact the dike and ramp areas due to the weight of the vacuum trucks.
- Prior to starting to fill the tanks from the vacuum trucks a "Supervisory JSA" will be conducted at the site with all departments involved.
- Contractor will bring in 2 to 3 large capacity vacuum trucks. Contractors will need an orientation from safety. Safety will be notified of their arrival date and time with as much advanced notice as possible. Giant and contractor personnel will go to the pond and tank area and walk through the scope of work. Make sure contract personnel fully understand what is expected of them, where they will be loading from and unloading to, what roads to use and what areas to avoid. Giant personnel assigned to the project must be present at all times. Giant personnel assigned to the project will report to planning each day at 1:00 P.M. to give an update on progress. Due to inclimate weather Giant personnel may stop the project at any time to avoid possible unsafe conditions but will report any stoppage to management immediately. Giant personnel will also report when work has resumed.
    - Giant and contractor personnel will work together at the ponds to locate the floating booms and pull the oils to one side of the pond for easy access to the vacuum trucks. The vacuum trucks will load at the edges of the lagoons or ponds. The loads will be taken to the tanks and unloaded with the 3" rental pump into the East tank. . This process will continue until a representative from the Environmental department verifies that the lagoon or pond is cleaned to acceptable levels.

- The lagoon/pond banks will require cleaning. Giant and contract personnel will use various equipment, such as backhoes, to remove the contaminated soils. The soils will be relocated to an area specified by the Environmental department. The soils will be tested to verify what means of disposal or remediation will be required. The project will not be considered complete until final decisions on the remediation / disposal of the soils has been addressed and the material is in remediation or shipped off site.

- The material in the East tank will be allowed to settle for a specified length of time to allow oil/water separation. The water will be drawn out of the bottom of the East tank and pushed into the West tank for testing and disposal. The liquid oils remaining in the East tank will be pumped into vacuum trucks and taken to tank 107 and unloaded there. The material will be sent back to the refinery units for processing. Any remaining sludge / solids will be disposed of as directed by the Environmental department. Again, until this step is complete and the tanks are emptied and cleaned the project will not be considered complete.
- After completion of each of the above steps department supervisors will be required to walk through the area and sign off on a sheet to verify that all are in agreement that the step is complete. The Giant representative from maintenance assigned to the project will be responsible for the sign off sheet and will turn it in to planning the day of signing.

#5

Riley Industrial Services, Inc.

New Mexico and
Four Corners Area Operations

ENVIRONMENTAL MANAGEMENT SYSTEM

APRIL 2005