

**GW - 1**

**PERMITS,  
RENEWALS,  
& MODS**



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

Oil Conservation Division

August 12, 2005

Randy Schmaltz  
Environmental Manager  
San Juan Refining Company  
P.O. Box 159  
Bloomfield, New Mexico 87413

REC JOHNSON  
BJ SERVICES  
(281) 363-7521

Re: Discharge Permit GW-01  
Giant Bloomfield Refinery

Dear Mr. Schmaltz:

The groundwater discharge permit for the Giant Bloomfield Refinery GW-01 operated by San Juan Refining Company located in the NW/4 NE/4 and the S/2 NW/4 and the N/2 NE/4 SE/4 OF Section 27, and the S/2 NW/4 and the N/2 NW/4 SW/4 and the SE/4 NW/4 SW/4 and the NE/4 SW/4 of Section 26, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter.**

The original discharge permit was approved on June 05, 1978 and subsequently renewed on June 07, 1984, November 02, 1989, February 04, 1992, May 24, 1994, April 19, 2000 with an expiration date of June 07, 2004. OCD approved a change of ownership on January 29, 1996 and approved a modification on November 19, 1996. The discharge permit renewal application dated May 27, 2004 and amended applications dated July 15, 2005 and August 12, 2005 submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals.

The discharge permit is renewed pursuant to Section 3109.C. Please note Section 3109.G., which provides for possible future amendment of the permit. Please be advised that approval of this permit does not relieve San Juan Refining Company of liability should operations result in pollution of surface or ground waters, or the environment.

Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered non-hazardous to wildlife including migratory birds.

Mr. Randy Schmaltz  
August 12, 2005  
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Please note that Section 3104. of the regulations requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit." Pursuant to Section 3107.C., San Juan Refining Company is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume. Pursuant to Section 3109.H.4., this approval is for a period of five years. **This approval will expire June 07, 2009** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 3106.F. of the regulations, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge permit facilities will be required to submit permits for, or the results of, an underground drainage testing program as a requirement for discharge permit renewal.

The discharge permit application for the Giant Bloomfield Refinery is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge permit will be assessed a fee equal to the filing fee of \$100 plus a flat fee of \$8400.00 for an oil refinery. The OCD has received the \$100.00 filing fee. The flat fee of \$8400.00 may be paid in a single payment due on the date of the discharge permit approval or in five equal installments over the expected duration of the discharge permit. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge permit approval and subsequent installments due on this date of each calendar year.

**Please make all checks payable to: Water Quality Management Fund  
C/o: Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505.**

If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or E-mail WPRICE@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge review.

Sincerely,



Roger C. Anderson  
Environmental Bureau Chief  
RCA/lwp  
Attachments-1  
xc: OCD Aztec Office

**ATTACHMENT TO THE DISCHARGE PERMIT GW-01 APPROVAL  
Giant Bloomfield Refinery (GW-01)  
DISCHARGE PERMIT APPROVAL CONDITIONS  
August 12, 2005**

1. Payment of Discharge Permit Fees: The \$100.00 filing fee has been received by OCD. The \$8400.00 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the permit, with the first payment due upon receipt of this approval.
2. Commitments: San Juan Refining Company will abide by all commitments submitted in the discharge permit renewal application dated May 27, 2004 and the amended submittals dated July 15, and August 12, 2005 and these conditions for approval.
3. North and South Double-Lined Waste Water Evaporation Ponds: A minimum freeboard will be maintained in the ponds so that no over topping of wastewater occurs. Any repairs or modifications to the pond liners and/or leak detection systems must receive prior OCD approval. Leaks and releases shall be reported pursuant to Item 15. (Spill Reporting) of these conditions.

Special Note: Giant shall maintain an action plan to control and/or eliminate discharges from these evaporation ponds in order to protect public health and the Environment. Any time this plan is implemented Giant shall Notify OCD within 24 hours.

4. North and South Double-Lined Waste Oily Water Treatment Ponds: A minimum freeboard will be maintained in the ponds so that no over topping of wastewater occurs. Any repairs or modifications to the pond liners and/or leak detection systems must receive prior OCD approval. Leaks and releases shall be reported pursuant to Item 15. (Spill Reporting) of these conditions.
5. Leak Detection Monitor Wells: All leak detection monitor wells must be inspected for fluids monthly. Records will be maintained to include quantity of fluid measured, date of inspection, and name of inspector. Any fluids found must be reported to the NMOCD Santa Fe Environmental Bureau and the appropriate District office within 24 hours of discovery.

6. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plan. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
7. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
8. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
9. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
10. Labeling: All tanks, drums, and other containers should be clearly numbered or labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.
11. Below Grade Tanks/Sumps/Pits/Ponds: All below grade tanks, sumps, pits and ponds must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design, unless approved otherwise. All below grade tanks, sumps and pits must be tested annually or as specified below (see additional conditions), except systems that have secondary containment with leak detection. These systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Groundwater infiltration or other fluids collected in secondary containment that are not contributed to primary leakage, will be monitor and only reported if significant change occurs. Results of tests and inspections shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Any system found to be leaking shall be reported pursuant to Item # 15. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

Additional Conditions: Giant shall maintain a spreadsheet that contains all single lined underground tanks/sumps/pits. Each device or system shall have

an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Giant shall test at a minimum 20% of the total below grade devices each year. Giant will complete and maintain this spreadsheet on site no later than August 1, 2006.

12. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

Additional Conditions: Giant shall maintain a spreadsheet that contains all underground process and wastewater lines. Each line shall have an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Giant shall test at a minimum 20% of the underground process/wastewater pipelines each year. . Giant will complete and maintain this spreadsheet on site no later than August 1, 2006.

13. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities, which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
14. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected at least monthly to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery. A record of inspection will be retained on site for a period of five years.
15. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Aztec District Office.

16. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division.

17. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.
18. Storm Water: Stormwater runoff plans and controls shall be maintained. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off then immediate corrective actions shall be taken to stop the discharge. OCD shall be notified within 24 hours of discovery and the permit shall be modified within 15 days and submitted for OCD approval.
19. Vadose Zone and Water Pollution: The previously submitted investigation(s) and remediation plans were submitted pursuant to the discharge permit and all future discoveries of contamination will be addressed through the discharge permit.
1. Giant shall submit a comprehensive groundwater remediation and monitoring plan, including a San Juan River protection plan for OCD approval by November 01, 2005.
  2. An annual groundwater report will be submitted to the OCD by April 15, of each year. The annual report will contain the following information for all recovery and monitoring systems such as, but not limited to; all on and off-site recovery and monitoring wells, Hammond ditch French drain system, including all outfalls, the new barrier wall recovery and monitoring wells, the river terrace recovery, remediation and monitoring wells and any other wells deemed to be monitored by OCD.

A. A description of the monitoring and remediation activities,

which occurred during the year including conclusions and recommendations.

- B. Summary tables listing laboratory analytic results, of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report. Copies of the most recent years laboratory analytical data sheets will also be submitted.
  - C. An annual water table potentiometric elevation map using the water table elevation of the ground water in all refinery monitor wells. A corrected water table elevation shall be determined for all wells containing phase-separated hydrocarbons. This map shall show well locations, pertinent site features, and the direction and magnitude of the hydraulic gradient.
  - D. Plots of water table elevation vs. time for each ground water monitoring point.
  - E. An annual product thickness map based on the thickness of free phase product on ground water in all refinery recovery wells. This map shall include isopleth lines for products and contaminants of concern.
  - F. Estimate or measure the volume of product recovered in the recovery wells during each quarter and the total recovered to date.
3. Giant shall notify the OCD Santa Fe and local district office at least 2 weeks in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples. For large facilities, i.e. refineries, an annual notification will suffice.
4. Giant shall notify the NMOCD within 15 days of the discovery of separated-phase hydrocarbons or the exceedance of a WQCC standard in any monitor well where separate-phase hydrocarbons were not present or where contaminant concentrations did not exceed WQCC standards during the preceding monitoring event.

20. Annual Report: On an annual basis due April 15, Giant will submit a formal report to the OCD on the past year's activities. The report will include the following at a minimum:
  1. A summary of all major refinery activities or events.
  2. As required in item 19.2. above.
  3. Summary of all waste and wastewater disposed of, sold, or treated on-site, including an updated refinery wastewater flow sheet.
  4. Summary of the sump and underground wastewater lines tested.
  5. Summary of all leaks, spills and releases and corrective actions taken.
  6. Summary of discovery of new groundwater contamination. This should include recommendations for investigation and remediation.
  7. Summary of all EPA/NMED RCRA activity.
  8. Electronic filing: OCD would like to encourage Giant to file this report in an acceptable electronic format.
  
21. Active Landfill: San Juan Refining Company shall submit by December 01, 2005 for OCD approval an operating and closure plan for the active landfill located east of the main refinery complex.
  
22. In-Active Landfill: A closure plan for the in-active landfill located near monitor well #8 shall be submitted by December 01, 2005. The plan shall demonstrate how San Juan Refining Company permits to close the landfill in order that public health or the environment will not be adversely impacted in the foreseeable future.
  
23. Transfer of Discharge Permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.
  
24. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure permit will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

Mr. Randy Schmaltz  
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25. Certification: **Giant Refining Company** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. **Giant Refining Company** further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by:

**Giant Refining Company**

Chad King

Company Representative- print name

Chad King

Date

8/18/05

Company Representative- Sign

Title

Refinery Mgr



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**August 12, 2005**

Randy Schmaltz  
Environmental Manager  
San Juan Refining Company  
P.O. Box 159  
Bloomfield, New Mexico 87413

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August 12, 2005  
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25. **Certification:** **Giant Refining Company** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. **Giant Refining Company** further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: **Giant Refining Company**

\_\_\_\_\_  
Company Representative- print name

\_\_\_\_\_  
Date \_\_\_\_\_  
Company Representative- Sign

Title \_\_\_\_\_

**ATTACHMENT TO THE DISCHARGE PLAN GW-01 APPROVAL**  
**Giant Bloomfield Refinery (GW-01)**  
**DISCHARGE PLAN APPROVAL CONDITIONS**  
**April 19, 2000**

1. Payment of Discharge Plan Fees: The \$50.00 filing fee has been received by OCD. The \$3910.00 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.
2. Commitments: San Juan Refining Company will abide by all commitments submitted in the discharge plan renewal application dated July 06, 1999 and supplemental information dated April 11, 2000 and these conditions for approval.
3. North and South Double-Lined Waste Water Evaporation Ponds: A minimum freeboard will be maintained in the ponds so that no over topping of waste water occurs. Any repairs or modifications to the pond liners and/or leak detection systems must receive prior OCD approval. Leaks and releases shall be reported pursuant to Item 15. (Spill Reporting) of these conditions.
4. North and South Double-Lined Waste Oily Water Treatment Ponds: A minimum freeboard will be maintained in the ponds so that no over topping of waste water occurs. Any repairs or modifications to the pond liners and/or leak detection systems must receive prior OCD approval. Leaks and releases shall be reported pursuant to Item 15. (Spill Reporting) of these conditions.
5. Leak Detection Monitor Wells: All leak detection monitor wells must be inspected for fluids monthly. Records will be maintained to include quantity of fluid measured, date of inspection, and name of inspector. Any fluids found must be reported to the NMOCD Santa Fe Environmental Bureau and the appropriate District office within 24 hours of discovery.
6. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
7. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

Mr. Barry Holman

April 19, 2000

Page 4

8. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
9. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
10. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.
11. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must be tested to demonstrate their mechanical integrity no later than **July 14, 2000** and every year from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD in an annual report due on August 15, of each year.
12. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity no later than **July 14, 2000** and every 5 years, from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD in the annual report due on August 15, 2000.
13. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
14. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system failure.

15. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Aztec District Office.
16. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
17. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.
18. Storm Water Plan: San Juan Refining Company will submit a storm water run-off plan for OCD approval by August 15, 2000.
19. Vadose Zone and Water Pollution: The abatement plan application dated July 05, 1999 is considered an investigation and remediation plan application submitted pursuant to the discharge plan and all future discoveries of contamination will be addressed through the discharge plan process.
20. Active Landfill: San Juan Refining Company shall submit for OCD approval a closure plan or operating plan for the active landfill located east of the main refinery complex. Please submit this plan by August 15, 2000.
21. In-Active Landfill: A closure plan for the in-active landfill located near monitor well #8 shall be submitted to OCD for approval by August 15, 2000. The plan shall demonstrate how San Juan Refining Company plans to close the landfill in order that public health or the environment will not be adversely impacted in the foreseeable future.
22. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
23. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

Mr. Barry Holman  
April 19, 2000  
Page 6

24. Certification: **San Juan Refining Company** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. **San Juan Refining Company** further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: **San Juan Refining Company -Giant Bloomfield Refinery.**

BARRY G. HOLMAN  
Company Representative- print name  
Barry G. Holman Date 5-7-00  
Company Representative- Sign

Title Environmental Manager



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

April 19, 2000

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. 5051 5956**

Mr. Barry Holman  
Environmental Manager  
San Juan Refining Company  
P.O. Box 159  
Bloomfield, New Mexico 87413

Re: Discharge Plan GW-01 Renewal Application  
Giant Bloomfield Refinery

Dear Mr. Holman:

The groundwater discharge plan renewal application for the Giant Bloomfield Refinery GW-01 operated by San Juan Refining Company located in the NW/4 NE/4 and the S/2 NW/4 and the N/2 NE/4 SE/4 OF Section 27, and the S/2 NW/4 and the N/2 NW/4 SW/4 and the SE/4 NW/4 SW/4 and the NE/4 SW/4 of Section 26, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within ten working days of receipt of this letter.**

The original discharge plan was approved on June 05, 1978 and subsequently renewed on June 07, 1984, November 02, 1989, February 04, 1992, May 24, 1994 with an expiration date of June 07, 1999. OCD approved a change of ownership on January 29, 1996 and approved a modification on November 19, 1996. The discharge plan renewal application, including attachments, dated July 6, 1999 and supplemental information dated April 11, 2000 submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals.

The discharge plan is renewed pursuant to Section 3109.C. Please note Section 3109.G., which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve San Juan Refining Company of liability should operations result in pollution of surface or ground waters, or the environment.

Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Mr. Barry Holman  
April 19, 2000  
Page 2

Please note that Section 3104. of the regulations requires that "when a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C., San Juan Refining Company is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume. Pursuant to Section 3109.H.4., this approval is for a period of five years. **This approval will expire June 07, 2004** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities will be required to submit plans for, or the results of, an underground drainage testing program as a requirement for discharge plan renewal.

The discharge plan application for the Giant Bloomfield Refinery is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of \$50 plus a renewal flat fee of \$3910.00 for an oil refinery. The OCD has not received the \$3910.00 flat fee. The flat fee of \$3910.00 may be paid in a single payment due on the date of the discharge plan approval or in five equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge plan approval and subsequent installments due on this date of each calendar year.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

If you have any questions, please contact Wayne Price of my staff at (505-827-7155). On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,



Roger C. Anderson  
Environmental Bureau Chief

RCA/lwp  
Attachment-1  
xc: OCD Aztec Office

**ATTACHMENT TO THE DISCHARGE PLAN GW-01 APPROVAL**  
**Giant Bloomfield Refinery (GW-01)**  
**DISCHARGE PLAN APPROVAL CONDITIONS**  
**April 19, 2000**

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Mr. Barry Holman  
April 19, 2000  
Page 6

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Conditions accepted by: **San Juan Refining Company -Giant Bloomfield Refinery.**

\_\_\_\_\_  
Company Representative- print name

\_\_\_\_\_  
Date \_\_\_\_\_  
Company Representative- Sign

Title \_\_\_\_\_



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

May 29, 1998

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-288-259-073**

Mr. Lynn Shelton  
Environmental Manager  
Giant Refining Co.  
P.O. Box 159  
Bloomfield, NM 87413

**RE: Discharge Plan Modification  
Bloomfield Refinery (GW-001)  
San Juan County, New Mexico**

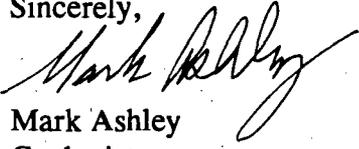
Dear Mr. Shelton:

The New Mexico Oil Conservation Division (OCD) has begun to review the Giant Refining Co. (Giant) discharge plan modification application dated April 20, 1998. The application contains Giant's request to list the concrete heat exchanger bundle pad in the current discharge plan. The application also contains Giant's request to use 120+ gallons per day of refinery wastewater to irrigate grass and plants around the new office building. Based on the information provided, the OCD is requiring the following additional information before the modification review can be completed:

1. A demonstration from Giant that the refinery wastewater used for irrigation will not create discharges at the river bank seep or cause the ground water to exceed Water Quality Control Commission standards.

If you have any questions, please call me at (505) 827-7155.

Sincerely,

  
Mark Ashley  
Geologist

xc: OCD Aztec Office



GARY E. JOHNSON  
GOVERNOR

State of New Mexico  
**ENVIRONMENT DEPARTMENT**  
*Hazardous & Radioactive Materials Bureau*  
2044 Galisteo  
P.O. Box 26110  
Santa Fe, New Mexico 87502  
(505) 827-1557  
Fax (505) 827-1544



**RECEIVED**  
MAY 29 1998  
Environmental Bureau  
Oil Conservation Division  
MARK E. WEIDLER  
SECRETARY  
EDGAR T. THORNTON, III  
DEPUTY SECRETARY

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

May 22, 1998

Dick Platt, Refinery Manager  
Giant Refining Company - Ciniza Refinery (GRC-C)  
Route 3, Box 7  
Gallup, New Mexico 87301

**RE: Denial of Land Treatment Unit (LTU) RCRA Operating Permit  
Closure Plan Modification Request (EPA ID # NMD000333211-2)**

Dear Mr. Platt:

The New Mexico Environment Department (NMED) Hazardous and Radioactive Materials Bureau (HRMB) has completed processing GRC-C's Amended Closure Plan (dated July 1996) proposal. For the reasons stated below, the HRMB hereby denies the proposal.

GRC-C discontinued use of the LTU in 1990 and found the existing operating permit's closure performance standards inadequate. GRC-C submitted to the HRMB a permit modification proposal principally to clarify those closure performance standards to remove wastes to "health-based" concentration limits. New Mexico Hazardous Waste Management Regulations (20 NMAC 4.1 264.280) regarding LTUs require "complete removal or decontamination of all waste constituents to those levels not affected by either facility or waste treatment unit operations". GRC-C's proposal to remove wastes to health based concentrations is considered by the HRMB to fall short of the state's environmental regulations.

The HRMB provided in accordance with state environmental regulations (20 NMAC 4.1.900) an opportunity for the public and GRC-C to comment on HRMB's proposal to deny the Amended Closure Plan. HRMB received no comments.

If you have any questions regarding this or any related matter, please contact either myself or Mr. Stephen Pullen of my staff at (505) 827-1558.

Dick Platt  
Page 2

Thank you for your efforts in protecting New Mexico's environment.

Sincerely,



Ed Kelley, Ph.D., Director  
Water and Waste Management Division

copy furnished:

Bentio Garcia, HRMB  
Stu Dinwiddie, HRMB  
~~Roger Anderson, OCD~~  
David Neleigh, EPA  
Dorinda Mancini, GRC-C  
file



50 Road 4990  
P.O. Box 159  
Bloomfield, New Mexico 87413  
505  
632-8013

May 19, 1998

Mr. Warren Arthur (6EN-HX)  
USEPA Region VI  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

**Re: Monthly Progress Report  
EPA ID No. NMD 089416416**

**Administrative Order on Consent  
U.S. EPA Docket No. VI-303-H**

Dear Mr. Arthur:

In accordance with VI.5.b. of the Order, Giant Refining Company - Bloomfield (GRC) submits this monthly progress report.

Interim Measures (IM) Progress

1. Interim Measures, including product recovery from onsite recovery wells, continues.

Corrective Measures Study (CMS)

GRC is still waiting for the submission of the groundwater model for this facility.

Thank you for the recent visit. It is always nice to know the people that you are working with instead of just a voice. I assume that you will be supplying me with a copy of Greg Lyssy's comments. Our consulting firm, SA&B has been briefed and we are ready to begin work on the revised CMS report.

If you require additional information, please contact me at (505) 632 8013.

Sincerely:

A handwritten signature in cursive script that reads "Lynn Shelton".

Lynn Shelton  
Environmental Manager  
Giant Refining Company - Bloomfield

TLS/tls

cc: John Stokes, Refinery Manager  
Roger Anderson, NMOCD  
Benito Garcia, NMED

April Report



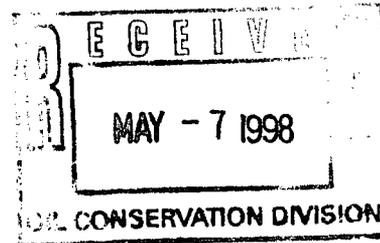
50 Road 4990  
P.O. Box 159  
Bloomfield, New Mexico 87413  
505  
632-8013

May 4, 1998

Mr. Warren Arthur (6EN-HX)  
USEPA Region VI  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

Re: Monthly Progress Report  
EPA ID No. NMD 089416416

Administrative Order on Consent  
U.S. EPA Docket No. VI-303-H



Dear Mr. Arthur:

In accordance with VI.5.b. of the Order, Giant Refining Company - Bloomfield (GRC) submits this monthly progress report.

#### Interim Measures (IM) Progress

1. Interim Measures, including product recovery from onsite recovery wells, continues. Samples were taken in the new wells, a copy of which is attached. Bio-Stic's were purchased from Alpha Bioscience Company and were installed in the following wells: RW2, RW23, P3, MW11, MW26, MW27, MW28, MW33, MW34, MW35, MW36, MW37, MW38, and MW39. The Bio-Stic's are slotted PVC pipe that contains a biocatalyst that promotes the growth of naturally occurring bacteria. The biocatalyst contains no nitrogen or other potentially damaging material. The wells will be resampled after six months to see if measurable reductions in BTEX have occurred. These Bio-Stic's are currently being used by other companies in this area quite successfully. If you would like more information on this product, you may want to call Mr. Bob Durbin at (505) 325 5036.

#### Corrective Measures Study (CMS)

GRC is still waiting for the submission of the groundwater model for this facility.

If you require additional information, please contact me at (505) 632 8013.

Sincerely:

Lynn Shelton  
Environmental Manager  
Giant Refining Company - Bloomfield

TLS/tls

cc: John Stokes, Refinery Manager  
Roger Anderson, NMOCD  
Benito Garcia, NMED

March Report

## TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944

CLIENT GIANT REFINING COMPANY  
 P.O. BOX 159  
 BLOOMFIELD, NM 87347

E-Mail: lab@traceanalysis.com

SAMPLE NO. : 980904  
 INVOICE NO.: 22101797  
 REPORT DATE: 03-25-98  
 REVIEWED BY: *WJ*  
 PAGE : 1 OF 2

CLIENT SAMPLE ID : MW-38  
 SAMPLE TYPE .....: Water  
 SAMPLED BY .....: LS  
 SUBMITTED BY ....: LS  
 SAMPLE SOURCE ....: --  
 ANALYST .....: K. Costa

AUTHORIZED BY : L. SHELTON  
 CLIENT P.O. : --  
 SAMPLE DATE ...: 03-09-98  
 SUBMITTAL DATE : 03-11-98  
 EXTRACTION DATE: --  
 ANALYSIS DATE ..: 03-11-98

Petroleum Contaminants by 8020A

## D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Benzene .....	<0.20	ug/L	0.20
Toluene .....	<0.20	ug/L	0.20
Ethylbenzene .....	3.7	ug/L	0.20
Total Xylenes .....	9.6	ug/L	0.20

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

(1) Copy to Client

*W. Hembill*  
 MANAGING DIRECTOR



# TRACEANALYSIS, INC.

## ANALYTICAL REPORT

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944

**CLIENT GIANT REFINING COMPANY** E-Mail: lab@traceanalysis.com  
**P.O. BOX 159**  
**BLOOMFIELD, NM 87347**

**SAMPLE NO. : 980904**  
**INVOICE NO. : 22101797**  
**REPORT DATE: 03-25-98**  
**REVIEWED BY: *1/217***  
**PAGE : 2 OF 2**

D A T A      T A B L E      (Cont.)

<u>Surrogate Information -</u>	<u>Percent</u>	<u>Range</u>
	<u>Recovery</u>	<u>  </u>
aaa Trifluorotoluene .....	110.0	77-120

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944

**CLIENT GIANT REFINING COMPANY** E-Mail: lab@traceanalysis.com  
**P.O. BOX 159**  
**BLOOMFIELD, NM 87347**

**SAMPLE NO. : 980905**  
**INVOICE NO.: 22101797**  
**REPORT DATE: 03-25-98**  
**REVIEWED BY: *LS***  
**PAGE : 1 OF 2**

**CLIENT SAMPLE ID : MW-37**  
**SAMPLE TYPE .....: Water**  
**SAMPLED BY .....: LS**  
**SUBMITTED BY ....: LS**  
**SAMPLE SOURCE ....: --**  
**ANALYST .....: K. Costa**

**AUTHORIZED BY : L. SHELTON**  
**CLIENT P.O. : --**  
**SAMPLE DATE ...: 03-09-98**  
**SUBMITTAL DATE : 03-11-98**  
**EXTRACTION DATE: --**  
**ANALYSIS DATE ..: 03-11-98**

Petroleum Contaminants by 8020A

D A T A      T A B L E			
Parameter	Result	Unit	Detection Limit
Benzene .....	<0.20	ug/L	0.20
Toluene .....	<0.20	ug/L	0.20
Ethylbenzene .....	1.5	ug/L	0.20
Total Xylenes .....	13.	ug/L	0.20

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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*M. Shelton*  
 \_\_\_\_\_  
 MANAGING DIRECTOR

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 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443  
**CLIENT GIANT REFINING COMPANY** E-Mail: lab@traceanalysis.com  
**P.O. BOX 159**  
**BLOOMFIELD, NM 87347**

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 915•585•3443 FAX 915•585•4944  
**SAMPLE NO. : 980905**  
**INVOICE NO. : 22101797**  
**REPORT DATE: 03-25-98**  
**REVIEWED BY: *MT***  
**PAGE : 2 OF 2**

D A T A      T A B L E      (Cont.)

<u>Surrogate Information -</u>	<u>Percent</u>	<u>Range</u>
	<u>Recovery</u>	<u>  </u>
aaa Trifluorotoluene .....	113.5	77-120

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 E-Mail: lab@traceanalysis.com

**SAMPLE NO. : 980906**  
**INVOICE NO. : 22101797**  
**REPORT DATE: 03-25-98**  
**REVIEWED BY: [Signature]**  
**PAGE : 1 OF 2**

<p>CLIENT SAMPLE ID : MW-36                  SAMPLE TYPE .....: Water                  SAMPLED BY .....: LS                  SUBMITTED BY ....: LS                  SAMPLE SOURCE ....: --                  ANALYST .....: K. Costa</p>	<p>AUTHORIZED BY : L. SHELTON                  CLIENT P.O. : --                  SAMPLE DATE ...: 03-09-98                  SUBMITTAL DATE : 03-11-98                  EXTRACTION DATE: --                  ANALYSIS DATE ..: 03-11-98</p>
---	--

**REMARKS -**

Detection limits raised due to matrix interference.

Petroleum Contaminants by 8020A

D A T A T A B L E			
Parameter	Result	Unit	Detection Limit
Benzene .....	<1.0	ug/L	1.0
Toluene .....	<1.0	ug/L	1.0
Ethylbenzene .....	8.8	ug/L	1.0
Total Xylenes .....	37.	ug/L	1.0

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# TRACE ANALYSIS, INC.

## ANALYTICAL REPORT

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SAMPLE NO. : 980906

INVOICE NO.: 22101797

REPORT DATE: 03-25-98

REVIEWED BY: *WCT*

PAGE : 2 OF 2

### DATA TABLE (Cont.)

Surrogate Information -

	<u>Percent</u> <u>Recovery</u>	<u>Range</u>
aaa Trifluorotoluene .....	111.0	77-120

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**SAMPLE NO. :** 980907  
**INVOICE NO.:** 22101797  
**REPORT DATE:** 03-25-98  
**REVIEWED BY:** *[Signature]*  
**PAGE :** 1 OF 2

**CLIENT SAMPLE ID :** MW-35  
**SAMPLE TYPE :** Water  
**SAMPLED BY :** LS  
**SUBMITTED BY :** LS  
**SAMPLE SOURCE :** --  
**ANALYST :** K. Costa

**AUTHORIZED BY :** L. SHELTON  
**CLIENT P.O. :** --  
**SAMPLE DATE :** 03-09-98  
**SUBMITTAL DATE :** 03-11-98  
**EXTRACTION DATE:** --  
**ANALYSIS DATE :** 03-11-98

Petroleum Contaminants by 8020A

D A T A T A B L E			
Parameter	Result	Unit	Detection Limit
Benzene .....	6.1	ug/L	0.20
Toluene .....	<0.20	ug/L	0.20
Ethylbenzene .....	2.9	ug/L	0.20
Total Xylenes .....	54.	ug/L	0.20

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# TRACE ANALYSIS, INC.

## ANALYTICAL REPORT

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SAMPLE NO. : 980907  
INVOICE NO. : 22101797  
REPORT DATE: 03-25-98  
REVIEWED BY: *WJ*  
PAGE : 2 OF 2

### DATA TABLE (Cont.)

<u>Surrogate Information</u> -	<u>Percent Recovery</u>	<u>Range</u>
aaa Trifluorotoluene .....	118.0	77-120

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**SAMPLE NO. : 980908**  
**INVOICE NO. : 22101797**  
**REPORT DATE: 03-20-98**  
**REVIEWED BY: *MS7***  
**PAGE : 1 OF 2**

**CLIENT SAMPLE ID : MW-34**  
**SAMPLE TYPE .....: Water**  
**SAMPLED BY .....: LS**  
**SUBMITTED BY .....: LS**  
**SAMPLE SOURCE ....: --**  
**ANALYST .....: K. Costa**

**AUTHORIZED BY : L. SHELTON**  
**CLIENT P.O. : --**  
**SAMPLE DATE ...: 03-09-98**  
**SUBMITTAL DATE : 03-11-98**  
**EXTRACTION DATE: --**  
**ANALYSIS DATE .: 03-11-98**

Petroleum Contaminants by 8020A

D A T A T A B L E			
Parameter	Result	Unit	Detection Limit
Benzene .....	170	ug/L	2.0
Toluene .....	32.	ug/L	2.0
Ethylbenzene .....	20.	ug/L	2.0
Total Xylenes .....	220	ug/L	2.0

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*M. Shelton*  
 \_\_\_\_\_  
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**CLIENT GIANT REFINING COMPANY** E-Mail: lab@traceanalysis.com **SAMPLE NO. : 980909**  
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**BLOOMFIELD, NM 87347** **REPORT DATE: 03-25-98**  
**REVIEWED BY: [Signature]**  
**PAGE : 1 OF 2**

CLIENT SAMPLE ID : MW-11 AUTHORIZED BY : L. SHELTON  
 SAMPLE TYPE .....: Water CLIENT P.O. : --  
 SAMPLED BY .....: LS SAMPLE DATE ...: 03-09-98  
 SUBMITTED BY ....: LS SUBMITTAL DATE : 03-11-98  
 SAMPLE SOURCE ....: -- EXTRACTION DATE: --  
 ANALYST .....: K. Costa ANALYSIS DATE .: 03-17-98

Petroleum Contaminants by 8020A

D A T A T A B L E			
Parameter	Result	Unit	Detection Limit
Benzene .....	4000	ug/L	20.0
Toluene .....	<2.0	ug/L	2.0
Ethylbenzene .....	360	ug/L	20.0
Total Xylenes .....	8600	ug/L	20.0

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**SAMPLE NO. : 980909**  
**INVOICE NO. : 22101797**  
**REPORT DATE: 03-25-98**  
**REVIEWED BY: *WJ***  
**PAGE : 2 OF 2**

D A T A      T A B L E      (Cont.)

<u>Surrogate Information -</u>	<u>Percent</u>	<u>Range</u>
	<u>Recovery</u>	
aaa Trifluorotoluene .....	99.5	77-120

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**SAMPLE NO. : 980910**  
**INVOICE NO. : 22101797**  
**REPORT DATE: 03-20-98**  
**REVIEWED BY: *MA7***  
**PAGE : 1 OF 2**

**CLIENT SAMPLE ID : MW-12**  
**SAMPLE TYPE : Water**  
**SAMPLED BY : LS**  
**SUBMITTED BY : LS**  
**SAMPLE SOURCE : --**  
**ANALYST : K. Costa**

**AUTHORIZED BY : L. SHELTON**  
**CLIENT P.O. : --**  
**SAMPLE DATE : 03-09-98**  
**SUBMITTAL DATE : 03-11-98**  
**EXTRACTION DATE: --**  
**ANALYSIS DATE : 03-11-98**

Petroleum Contaminants by 8020A

D A T A T A B L E			
Parameter	Result	Unit	Detection Limit
Benzene .....	<1.0	ug/L	1.0
Toluene .....	<1.0	ug/L	1.0
Ethylbenzene .....	<1.0	ug/L	1.0
Total Xylenes .....	1.8	ug/L	1.0

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ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

*M. J. Shelton*  
 \_\_\_\_\_  
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--	---	---

D A T A      T A B L E      (Cont.)

<u>Surrogate Information -</u>	<u>Percent Recovery</u>	<u>Range</u>
aaa Trifluorotoluene .....	99.5	77-120

QUALITY CONTROL REPORT

QC IDENTIFIER .....: 31-031798-1  
 REFERENCE NOTEBOOK :  
 REFERENCE PAGE .....:

INSTRUMENT : HEWLETT PACKARD GC5890 PID/ELCD  
 ANALYZED BY : K. Costa  
 ANALYZED ON : 03-17-98

TEST DESCRIPTION ...: Petroleum Contaminants by 8020A

SAMPLES IN THIS RUN: 980902 980909 980921

CALIBRATION CHECK -

PARAMETER	UNIT	TRUE VALUE	FOUND VALUE	%RECOVERY
Benzene	ug/L	10	8.21	82.1
Toluene	ug/L	10	8.73	87.3
Ethylbenzene	ug/L	10	9.07	90.7
Total Xylenes	ug/L	30	27.6	92.0
Benzene	ug/L	10	10.1	101.0
Toluene	ug/L	10	10.4	104.0
Ethylbenzene	ug/L	10	10.3	103.0
Total Xylenes	ug/L	30	31.4	104.7
Benzene	ug/L	10	9.65	96.5
Toluene	ug/L	10	10.3	103.0
Ethylbenzene	ug/L	10	9.91	99.1
Total Xylenes	ug/L	30	29.9	99.7
Benzene	ug/L	10	9.80	98.0
Toluene	ug/L	10	9.67	96.7
Ethylbenzene	ug/L	10	9.68	96.8
Total Xylenes	ug/L	30	29.1	97.0

SPIKES -

SAMPLE NUMBER	PARAMETER	UNIT	SAMPLE RESULT	SPIKE CONC.	SAMPLE+SPIKE DUPI/DUP2	%REC	RPD%
980902	Ethylbenzene	ug/Kg	430	250.	1) 614.	73.6	
					2) 721.	116.4	45.1
980902	Toluene	ug/Kg	63.	250.	1) 286.	89.2	
					2) 330.	106.8	18.0
980902	Total Xylenes	ug/Kg	2100	750.	1) 2810	94.7	
					2) 3240.	152.0	46.5
980902	Benzene	ug/Kg	<50.	250.	1) 219.	87.6	
					2) 247.	98.8	12.0

BLANK SPIKES

PARAMETER	UNIT	SAMPLE RESULT	SPIKE CONC.	[- SAMPLE AND SPIKE -]		% REC1	% REC2	RPD%
				RESULT 1	RESULT 2			

Benzene  
Toluene

ug/Kg  
ug/Kg

<50.  
<50.

250.  
250.

219.  
235.

87.6  
94.0

QUALITY CONTROL REPORT

QC IDENTIFIER .....: 31-031798-1  
 REFERENCE NOTEBOOK :  
 REFERENCE PAGE .....:

INSTRUMENT : HEWLETT PACKARD GC5890 PID/ELCD  
 ANALYZED BY : K. Costa  
 ANALYZED ON : 03-17-98

BLANK SPIKES

PARAMETER	UNIT	SAMPLE RESULT	SPIKE CONC.	[- SAMPLE AND SPIKE -]		% REC1	% REC2	RPD%
				RESULT 1	RESULT 2			
Ethylbenzene	ug/Kg	<50.	250.	233.		93.2		
Total Xylenes	ug/Kg	<50.	750.	712.		94.9		
Benzene	ug/L	<1.0	10.	10.2		102.0		
Toluene	ug/L	<1.0	10.	10.3		103.0		
Ethylbenzene	ug/L	<1.0	10.	10.0		100.0		
Total Xylenes	ug/L	<1.0	30.	30.1		100.3		

METHOD BLANKS -

PARAMETER	UNIT	RESULT
Benzene	ug/Kg	<50.
Toluene	ug/Kg	<50.
Ethylbenzene	ug/Kg	<50.
Total Xylenes	ug/Kg	<50.
Benzene	ug/L	<1.0
Toluene	ug/L	<1.0
Ethylbenzene	ug/L	<1.0
Total Xylenes	ug/L	<1.0

NOTE -

- 1) NC: Not Calculable because result is < 5 times the MDL
- 2) NP: Not Practical because sample result is 4 times or more greater than spike added.
- 3) Percent Recovery is:

$$\frac{\text{Sample+Spike Result} - \text{Sample Result}}{\text{Spike Amount}} \times 100$$

- 4) Relative Percent Difference (RPD) is:

$$\frac{\text{Sample Result} - \text{Replicate Result}}{(\text{Sample Result} + \text{Replicate Result})/2} \times 100$$

QUALITY CONTROL REPORT

QC IDENTIFIER .....: 31-031198-1  
 REFERENCE NOTEBOOK :  
 REFERENCE PAGE .....:

INSTRUMENT : HEWLETT PACKARD GC5890 PID/ELCD  
 ANALYZED BY : K. Costa  
 ANALYZED ON : 03-11-98

TEST DESCRIPTION ..: Petroleum Contaminants by 8020A

SAMPLES IN THIS RUN:	980896	980897	980904	980905	980906	980907	980908
	980909	980910	980913	980914	980915	980916	980917
	980918	980919	980920				

CALIBRATION CHECK -

PARAMETER	UNIT	TRUE VALUE	FOUND VALUE	%RECOVERY
Benzene	ug/L	10	9.08	90.8
Toluene	ug/L	10	9.28	92.8
Ethylbenzene	ug/L	10	9.24	92.4
Total Xylenes	ug/L	30	27.8	92.7
Ethylbenzene	ug/L	20.	17.9	89.5
Toluene	ug/L	20.	17.9	89.5
Total Xylenes	ug/L	60.	53.7	89.5
Benzene	ug/L	20.	18.0	90.0
Benzene	ug/L	10	10.0	100.0
Toluene	ug/L	10	10.1	101.0
Ethylbenzene	ug/L	10	9.86	98.6
Total Xylenes	ug/L	30	29.8	99.3
Benzene	ug/L	10	11.1	111.0
Toluene	ug/L	10	11.3	113.0
Ethylbenzene	ug/L	10	10.7	107.0
Total Xylenes	ug/L	30	32.3	107.7
Benzene	ug/L	10	10.4	104.0
Toluene	ug/L	10	10.5	105.0
Ethylbenzene	ug/L	10	10.5	105.0
Total Xylenes	ug/L	30	31.6	105.3
Benzene	ug/L	10	10.1	101.0
Toluene	ug/L	10	10.2	102.0
Ethylbenzene	ug/L	10	10.1	101.0
Total Xylenes	ug/L	30	30.2	100.7

SPIKES -

SAMPLE NUMBER	PARAMETER	UNIT	SAMPLE RESULT	SPIKE CONC.	SAMPLE+SPIKE DUP1/DUP2	%REC	RPD%
980918	Ethylbenzene	ug/L	<1.0	50.	1) 43.6	87.2	
					2) 49.3	98.6	12.3
980918	Toluene	ug/L	<1.0	50.	1) 45.1	90.2	
					2) 50.6	101.2	11.5
980918	Total Xylenes	ug/L	<1.0	150.	1) 130.	86.7	

980918 Benzene

ug/L

<1.0

50.

2)	147.	98.0	12.2
1)	42.7	85.4	
2)	47.7	95.4	11.1

QUALITY CONTROL REPORT

QC IDENTIFIER .....: 31-031198-1  
 REFERENCE NOTEBOOK :  
 REFERENCE PAGE .....:

INSTRUMENT : HEWLETT PACKARD GC5890 PID/ELCD  
 ANALYZED BY : K. Costa  
 ANALYZED ON : 03-11-98

SPIKES -

SAMPLE NUMBER	PARAMETER	UNIT	SAMPLE RESULT	SPIKE CONC.	SAMPLE+SPIKE DUP1/DUP2	%REC	RPD%
980917	Ethylbenzene	ug/L	<1.0	50.	1) 55.0 2) 54.4	110.0 108.8	1.1
980917	Toluene	ug/L	<1.0	50.	1) 56.1 2) 55.7	112.2 111.4	0.7
980917	Total Xylenes	ug/L	<1.0	150.	1) 165. 2) 163.	110.0 108.7	1.2
980917	Benzene	ug/L	<1.0	50.	1) 54.4 2) 53.7	108.8 107.4	1.3
980919	Ethylbenzene	ug/L	<1.0	50.	1) 51.8 2) 51.7	103.6 103.4	0.2
980919	Toluene	ug/L	<1.0	50.	1) 51.7 2) 52.8	103.4 105.6	2.1
980919	Total Xylenes	ug/L	<1.0	150.	1) 155. 2) 155.	103.3 103.3	0.0
980919	Benzene	ug/L	<1.0	50.	1) 50.8 2) 50.7	101.6 101.4	0.2

BLANK SPIKES

PARAMETER	UNIT	SAMPLE RESULT	SPIKE CONC.	[- SAMPLE AND SPIKE -] RESULT 1    RESULT 2		% REC1	% REC2	RPD%
Benzene	ug/L	<1.0	10.	9.79		97.9		
Toluene	ug/L	<1.0	10.	10.0		100.0		
Ethylbenzene	ug/L	<1.0	10.	9.73		97.3		
Total Xylenes	ug/L	<1.0	30.	29.5		98.3		
Benzene	ug/L	<1.0	10.	10.1		101.0		
Toluene	ug/L	<1.0	10.	10.3		103.0		
Ethylbenzene	ug/L	<1.0	10.	10.1		101.0		
Total Xylenes	ug/L	<1.0	30.	30.3		101.0		

METHOD BLANKS -

PARAMETER	UNIT	RESULT
Benzene	ug/L	<1.0
Toluene	ug/L	<1.0
Ethylbenzene	ug/L	<1.0

Total Xylenes  
Benzene  
Toluene  
Ethylbenzene

ug/L  
ug/L  
ug/L  
ug/L

<1.0  
<1.0  
<1.0  
<1.0

QUALITY CONTROL REPORT

QC IDENTIFIER .....: 31-031198-1  
REFERENCE NOTEBOOK :  
REFERENCE PAGE .....:

INSTRUMENT : HEWLETT PACKARD GC5890 PID/ELCD  
ANALYZED BY : K. Costa  
ANALYZED ON : 03-11-98

METHOD BLANKS -

<u>PARAMETER</u>	<u>UNIT</u>	<u>RESULT</u>
Total Xylenes	ug/L	<1.0

NOTE -

- 1) NC: Not Calculable because result is < 5 times the MDL
- 2) NP: Not Practical because sample result is 4 times or more greater than spike added.
- 3) Percent Recovery is:

$$\frac{\text{Sample+Spike Result} - \text{Sample Result}}{\text{Spike Amount}} \times 100$$

- 4) Relative Percent Difference (RPD) is:

$$\frac{\text{Sample Result} - \text{Replicate Result}}{(\text{Sample Result} + \text{Replicate Result})/2} \times 100$$



# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424  
 Tel (806) 794 1296 Fax (806) 794 1298  
 1 (800) 378 1296

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

Company Name: GIANT REFINING CO - BLOOMFIELD Phone #: (505) 632 8013  
 Address: P.O. Box 159 BLOOMFIELD 87413 Fax #: (505) 632 3911  
 Contact Person: LYNN SHELTON  
 Invoice to: SAME  
 Project #: \_\_\_\_\_ Project Name: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ Sampler Signature: [Signature]

### ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard	Hold	
				WATER	SOIL	AIR	SLUDGE	HCL	HNO3	ICE	NONE	DATE	TIME																	
980904	MW-38	3	40ml									3/9/98	940	X																
985	MW-37	3											1000	X																
986	MW-36	3											1025	X																
987	MW-35	3											1045	X																
988	MW-34	3											1100	X																
989	MW-11	3											1120	X																
910	MW-12	3											1145	X																
													1245																	

Relinquished by: LYNN SHELTON Date: 3/10/98 Time: 4:00  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received at Laboratory by: [Signature] Date: 3-11-98 Time: 11:00

**LAB USE ONLY**

Intact  Y  N  
 Headspace  Y  N  
 Temp 5  
 Log-in Review \_\_\_\_\_

REMARKS: \_\_\_\_\_



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

November 19, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-288-258-685**

Mr. Lynn Shelton  
Environmental Manager  
Giant Industries  
P.O. Box 159  
Bloomfield, NM 87413

**RE: Minor Modification**  
**Giant Refining Company-Bloomfield(GRCB)**  
**GW-001, "San Juan Refining Company"**  
**San Juan County, NM**

Dear Mr. Shelton:

The New Mexico Oil Conservation Division (OCD) has received the GRCB application dated October 29, 1996 for the **GRCB, San Juan Refining Company GW-001** facility located in the **NW/4 NE/4 and the S/2 NE/4 and the N/2 NE/4 SE/4 of Section 27, and the S/2 NW/4 and the N/2 NW/4 SW/4 and the SE/4 NW/4 SW/4 and the NE/4 SW/4 of Section 26, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico.** The GRCB request is considered a minor modification to the above referenced discharge plan and public notice will not be issued. The minor modification will consist of the construction of a truck maintenance shop and a truck parking area as outlined in the October 29, 1996 "Permit Revision" as submitted by Mr. Lynn Shelton of Giant Refining Company-Bloomfield. The only additional requirement the OCD will place on the minor modification is:

- Under 2.0 Effluent Stream - Giant will certify through process knowledge and the appropriate EPA SW-846 methods that the liquids collected from the double wall 95 bbl tank do not contain any Hazardous Waste as defined in 40 CFR Part 261.

Based on the information outlined above, **the requested minor modification is hereby approved.**

The Application for modification was submitted pursuant to Water Quality Control Commission (WQCC) Regulation 3107.C and is approved pursuant to WQCC Regulation 3109.

Please note that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3107.C GRCB is required to notify the Director

Mr. Lynn Shelton  
Giant Refining  
GW-001  
November 19, 1996  
Page No. 2

of any facility expansion, production increase or process modification that would result in a significant modification in the discharge of potential ground water contaminants.

Note, that OCD approval does not relieve GRCB of liability should GRCB operation's result in contamination of surface waters, ground waters or the environment. Also, OCD approval does not relieve GRCB from compliance with other federal, state, and local, rules and regulations.

Sincerely,



Roger C. Anderson  
Environmental Bureau Chief

RCA/pws

xc: Mr. Denny Foust - Environmental Geologist

RECEIVED

FEB 26 1996

Mr. Lynn Shelton  
January 29, 1996  
Page 3

Environmental Bureau  
Oil Conservation Division

ENVIRONMENTAL DIVISION  
RECEIVED

1996 FEB 26 AM 8 52

**Attachment to the Discharge Plan GW-001 Approval  
San Juan Refining Company  
Discharge Requirements  
January 29, 1996**

- 1. **Oil/Water Separator:** The oil/water separator shall be drained, cleaned and visually inspected at least annually for cracks. Any cracks shall be vacuum tested to determine the mechanical integrity of the separator, and repaired if necessary.

Any new sumps or below-grade tanks will incorporate leak detection in their designs.

- 2. **Underground Oily Water Pressure Testing:** Prior to the next refinery turnaround (and not after June, 1999), a proposal outlining procedures and schedule for testing all underground oily water drain system pipelines shall be submitted for approval to the OCD. Positive pressure testing of the plant drain system pipelines shall be submitted for approval to the OCD. Positive pressure testing of the plant drain system shall be performed in accordance with the procedures once approved by the OCD.

- 3. **Oily Water Ponds:** As-built specifications of the oily water ponds shall be submitted to the OCD upon completion of the construction of these ponds.

- 4. **Evaporation Pond Closure:** The unlined evaporation ponds and spray irrigation area will be taken out-of-service upon startup of the Class I injection well. Closure plans for the evaporation ponds shall be submitted and approved by the OCD prior to commencement of closure.

- 5. **Spills:** All spills and /or leaks shall be reported to the OCD district office pursuant to WQCC 1203 and OCD rule 116.

- 6. **In-house Diesel Sales Facility:** A proposal and schedule for the containment of leaks and spills at the in-house diesel sales facility shall be submitted to the OCD by January 1, 1995.

- 7. **Drum Storage:** All chemical and lubrication drums shall be stored on pad and curb type containment.

8. *Lynn Shelton* 2-22-96  
 Company Representative Date

ENVIRONMENTAL MANAGER  
Title



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

January 29, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-765-963-009**

Mr. Lynn Shelton  
Environmental Manager  
Giant Industries  
P.O. Box 159  
Bloomfield, NM 87413

**RE: Discharge Plan GW- 001**  
**Permit Conditions**

Dear Mr. Shelton:

The New Mexico Oil Conservation Division (OCD) has received the letter dated October 4, 1995, which notified the OCD of the transfer of GW-001, located in the NW/4 NE/4 and the S/2 NE/4 and the N/2 NE/4 SE/4 of Section 27, and the S/2 NW/4 and the N/2 NW/4 SW/4 and the SE/4 NW/4 SW/4 and the NE/4 SW/4 of Section 26, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico, from Gary-Williams Energy to San Juan Refining Company, a wholly-owned subsidiary of Giant Industries Arizona, Inc.

The information was submitted pursuant to WQCC regulation 3111 "Transfer of Discharge Plan," and is hereby approved. The Discharge Plan consists of the application received by the OCD dated March 23, 1994 and the response to OCD comments dated April 28, 1994 and the OCD facility inspection of March 23, 1994, as well as the enclosed Attachment. **Two original copies of the discharge plan approval conditions are enclosed. Please sign and return one original to the OCD Santa Fe office, within 5 working days of receipt of this letter.**

Please note that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3107.C you are required to notify the Director of any facility expansion, production increase or process modification that would result in a significant modification in the discharge of potential ground water contaminants.

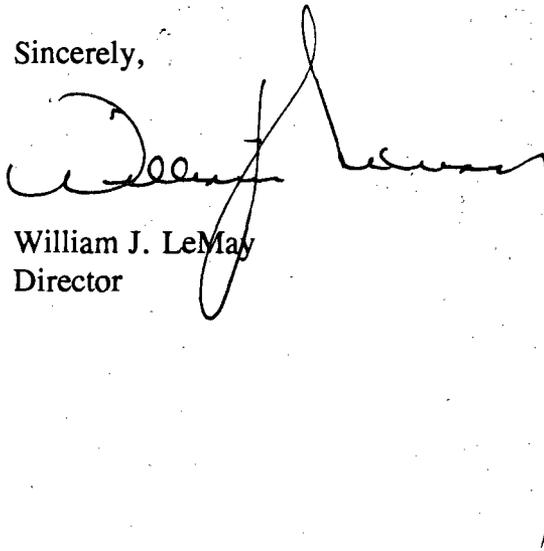
Note, that OCD approval does not relieve Giant Industries Arizona, Inc. of liability should operations at San Juan Refining Company Discharge Plan facility GW-001 result in contamination

Mr. Lynn Shelton  
January 29, 1996  
Page 2

of surface waters, ground waters or the environment. In addition, OCD approval does not relieve Giant of responsibility for compliance with any other Federal, State, or local laws and/or regulations.

If you have any questions please feel free to call call Roger Anderson at (505)-827-7152 or Patricio Sanchez at (505)-827-7156.

Sincerely,

A handwritten signature in black ink, appearing to read "William J. LeMay". The signature is stylized with a large loop at the end of the last name. A vertical line extends downwards from the bottom of the signature.

William J. LeMay  
Director

xc: Mr. Denny Foust - Geologist



Mr. Lynn Shelton  
January 29, 1996  
Page 3

**Attachment to the Discharge Plan GW-001 Approval  
San Juan Refining Company  
Discharge Requirements  
January 29, 1996**

1. **Oil/Water Separator:** The oil/water separator shall be drained, cleaned and visually inspected at least annually for cracks. Any cracks shall be vacuum tested to determine the mechanical integrity of the separator, and repaired if necessary.  
  
Any new sumps or below-grade tanks will incorporate leak detection in their designs.
2. **Underground Oily Water Pressure Testing:** Prior to the next refinery turnaround (and not after June, 1999), a proposal outlining procedures and schedule for testing all underground oily water drain system pipelines shall be submitted for approval to the OCD. Positive pressure testing of the plant drain system pipelines shall be submitted for approval to the OCD. Positive pressure testing of the plant drain system shall be performed in accordance with the procedures once approved by the OCD.
3. **Oily Water Ponds:** As-built specifications of the oily water ponds shall be submitted to the OCD upon completion of the construction of these ponds.
4. **Evaporation Pond Closure:** The unlined evaporation ponds and spray irrigation area will be taken out-of-service upon startup of the Class I injection well. Closure plans for the evaporation ponds shall be submitted and approved by the OCD prior to commencement of closure.
5. **Spills:** All spills and /or leaks shall be reported to the OCD district office pursuant to WQCC 1203 and OCD rule 116.
6. **In-house Diesel Sales Facility:** A proposal and schedule for the containment of leaks and spills at the in-house diesel sales facility shall be submitted to the OCD by January 1, 1995.
7. **Drum Storage:** All chemical and lubrication drums shall be stored on pad and curb type containment.

8.

\_\_\_\_\_

Company Representative

\_\_\_\_\_

Date

\_\_\_\_\_

Title

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 9/02/05  
9/26/05  
or cash received on \_\_\_\_\_ in the amount of \$ 8,400.<sup>00</sup>  
from GIANT INDUSTRIES INC.  
for BLOOMFIELD REFINERY GW-01  
Submitted by: WAYNE PRICE (Facility Name) Date: 9/26/05 (DP No.)  
Submitted to ASD by: [Signature] Date: "  
Received in ASD by: \_\_\_\_\_ Date: \_\_\_\_\_  
Filing Fee \_\_\_\_\_ New Facility \_\_\_\_\_ Renewal X  
Modification \_\_\_\_\_ Other \_\_\_\_\_  
Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.  
Full Payment X or Annual Increment \_\_\_\_\_

THE FACE OF THIS CHECK IS PRINTED BLUE - THE BACK CONTAINS A SIMULATED WATERMARK

**GIANT**  
INDUSTRIES, INC.

23733 N. Scottsdale Rd.  
Scottsdale, AZ  
85255-9969  
480  
585-8888

Bank of America  
Bank of America  
North Carolina

66-19  
530

Valid for 180 days From Date of Issue

Pay \_\_\_\_\_ Date: 09/02/05 Check No. [redacted] \$\*\*\*\*\*8,400.00  
Amount

EIGHT THOUSAND FOUR HUNDRED AND 00/100  
To the Order of

Water Quality Management Fund  
c/o Oil Conservation Division  
1220 S St Francis Dr  
Santa Fe NM 87505

Fredric L. Halliger



# GIANT

INDUSTRIES, INC.

23733 N. Scottsdale Rd.  
Scottsdale, AZ  
85255-9969

480  
585-8888

Page: 1

Check # [REDACTED]

Vendor #:84592

Check Date:09/02/05

Inv. Date	Invoice Number	Description	Gross	Discount	Net
08/12/05	INV-08-12-05	Permit #GW-01	8,400.00		8,400.00
			<hr/> 8,400.00		8,400.00

RECEIVED  
SEP - 9 2005  
OIL CONSERVATION  
DIVISION



50, Road 4990  
P.O. Box 159  
Bloomfield, New Mexico 87413  
505  
632-8013

October 29, 1996

Mr. Roger Anderson  
Environmental Bureau Chief  
New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505

RECEIVED

NOV 01 1996

Environmental Bureau  
Oil Conservation Division

Re: Permit Revision  
Giant Refining Company - Bloomfield  
Discharge Permit GW-1

Dear Mr. Anderson:

Giant Refining Company - Bloomfield submits a request for a permit revision of the above referenced discharge permit. The permit revision is for the construction of a truck maintenance shop and a truck parking area.

If you need additional information, please contact me at (505) 632 8013.

Sincerely:

Lynn Shelton  
Environmental Manager  
Giant Refining Company - Bloomfield

TLS/tls

Enclosure

cc: John Stokes, Refinery Manager, Giant Refining Company - Bloomfield  
Kim Bullerdick, Corporate Counsel, Giant Industries, Inc.  
Denny Foust, NMOCD, Aztec

District I - (505) 393-6161  
P. O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Revised 12/1/95

Submit Origin  
Plus 1 Copy  
to Santa Fe  
1 Copy to appropriate  
District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,  
GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS  
(Refer to the OCD Guidelines for assistance in completing the application)

New

Renewal

Modification

DISCHARGE PLAN GW-1

1. Type: REFINERY
2. Operator: GIANT REFINING COMPANY  
Address: # 50 COUNTY ROAD 4990  
Contact Person: LYNN SHELTON Phone: (505) 632 8013
3. Location: NW 14 NE 14 Section 27 Township 29N Range 11W  
Submit large scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
14. CERTIFICATION

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: LYNN SHELTON Title: ENVIRONMENTAL MANAGER

Signature: Lynn Shelton Date: 10/25/96

RECEIVED

NOV 01 1996

Environmental Bureau  
Oil Conservation Division

**GIANT REFINING COMPANY - BLOOMFIELD**

**DISCHARGE PLAN GW-1 MODIFICATION**

**RECEIVED**

NOV 01 1996

Environmental Bureau  
Oil Conservation Division

**1.0 New Facility**

Giant Refining Company - Crude Gathering and Transportation is building a new truck repair shop and parking area on the east side of the product loading terminals at Giant Refining Company's (GRC) Bloomfield Refinery.

The truck repair shop will be an eight bay building in which routine maintenance is performed on crude oil tank trucks and finished product transport trucks. There will not be a truck washing facility. The truck parking facility will be paved and will provide parking for 40 tank trucks.

**2.0 Effluent Stream**

Minor spills of lubricating oil and some water in the truck shop will be collected in a collection drain that will empty into a 95 barrel capacity double lined steel tank. The tank will be put on the refinery's weekly maintenance schedule for vacuuming any liquid accumulation. Liquids removed from the tank will be put into the refinery wastewater system. It is estimated that there will be approximately 10 barrels of liquid accumulated weekly. The 95 barrel tank capacity will more than adequately address a catastrophic release in the truck shop as trucks are not worked on when they contain a load of crude oil or finished product.

Domestic sewage will be routed through a septic tank and then through a leach field beneath the truck parking area (see attached drawings, Appendix A). The disposal of the domestic sewage will be according to New Mexico Environment Department regulations. Domestic sewage will not be commingled with any oily or refinery waste streams.

**3.0 Chemical Storage**

GRC anticipates that only a few truck maintenance chemicals will be stored at the new facility. Those chemicals should be limited to:

Lubricating Oil

Ethylene Glycol

Transmission Fluid

Naphtha Solvent

Gear Oil

All chemicals will be stored on an impermeable surface inside the building. There are no underground storage tanks at this facility.

#### **4.0 Used Motor Oil**

Used motor oil will be collected in a bulk storage container and will be disposed of through a used oil recycling firm.

#### **5.0 Stormwater**

The area surrounding the truck repair shop and the truck parking area will be contoured to prevent stormwater runoff from reaching any surface water. The stormwater effluent will be routed to the west of the facility where it will become part of the refinery stormwater effluent.

#### **6.0 Parts Cleaners / Solvents**

Parts cleaning equipment will be located within the shop area. GRC will use only non-hazardous parts cleaning solvents. It is not anticipated that any significant amount of parts cleaning solvent will enter the shop drains.

#### **7.0 Underground Piping**

Underground piping is limited to collection lines from the floor drains and one line running from the shop drain accumulation area to the 95 barrel tank. That line will be hydrostatically tested to 3 pounds per square inch above normal operating pressure every five years. GRC estimates that the volume of effluent through the shop drains will be approximately 10 barrels per month.

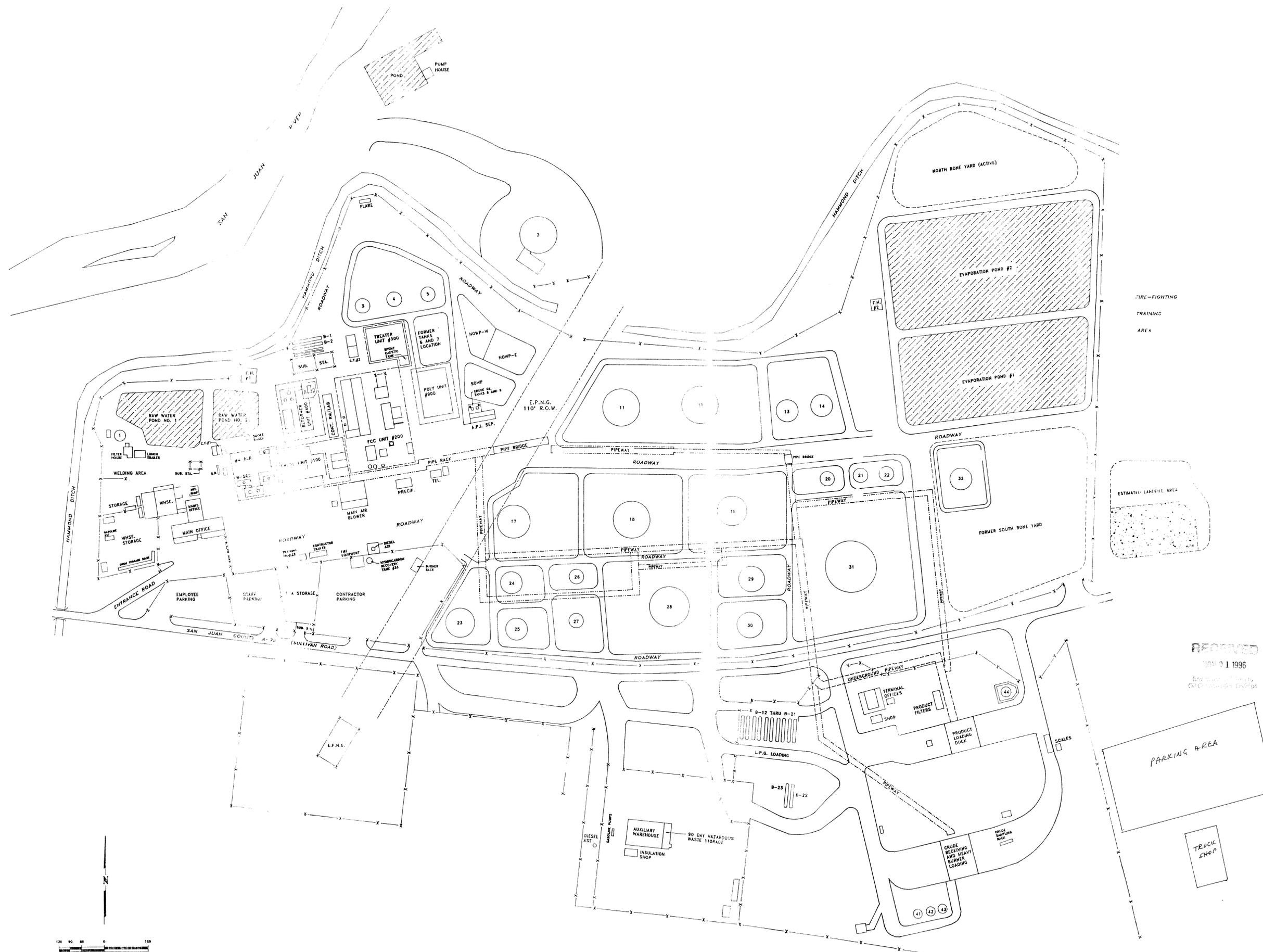
#### **8.0 Incorporation By Reference**

GRC incorporates by reference those items in the existing Discharge Permit GW-1 that are requested as part of the submission of OCD's Discharge Plan Application For Service Companies, Gas Plants, Refineries, Compressor, and Crude Oil Pump Stations form.

Those items include items 4 through 13.

**APPENDIX A**

**SITE DRAWINGS**



NO.	DATE	BY	REVISION

**LEGEND**

---	PIPEWAY
---	UNDERGROUND PIPEWAY
-X-	FENCE

**ATTENTION**

THIS DRAWING AND ANY ATTACHMENTS ("DRAWINGS"), HAVE BEEN PRODUCED FOR THE SOLE USE OF THE RECIPIENT AND MUST NOT BE USED, REUSED, REPRODUCED, MODIFIED OR COPIED ("USE") IN ANY MANNER WITHOUT PRIOR WRITTEN APPROVAL OF GROUNDWATER TECHNOLOGY, INC. THIS DRAWING MAY CONTAIN CONFIDENTIAL AND PROPRIETARY INFORMATION OF GROUNDWATER TECHNOLOGY, INC. ANY UNAUTHORIZED USE OF THIS DRAWING IS STRICTLY PROHIBITED.

SIGNATURE	DATE
PROJECT GEO:	
PROJECT ENGR:	
PROJECT MGR:	

GIANT REFINING COMPANY  
BLOOMFIELD REFINERY

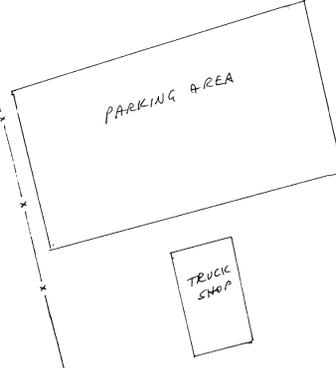
**GROUNDWATER TECHNOLOGY**  
2501 YALE BLVD., SUITE 204  
ALBUQUERQUE, NEW MEXICO 87108  
(505) 242-3113

**SITE PLAN**

DESIGNED BY:	DRAFTED BY:	CHECKED BY:
NOVEMBER - 1994	J. ML	
PROJECT NO.:	FILE:	
023353014	SITEPLAN	
DRAWING:	REVISION:	

FIGURE 3

**RECEIVED**  
NOV 01 1996  
Environmental Services  
Oil & Gas Division



NOT TO SCALE

