



SUSANA MARTINEZ
Governor
JOHN SANCHEZ
Lieutenant Governor

NEW MEXICO
ENVIRONMENT DEPARTMENT

Surface Water Quality Bureau

Harold Runnels Building, N2050
1190 South St. Francis Drive (87505)
P.O. Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-0187 Fax (505) 827-0160
www.nmenv.state.nm.us



DAVE MARTIN
Secretary
RAJ SOLOMON, P.E.
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 7, 2011

Mr. Daniel Miera, Town Manager
Town of Taos
400 Camino De La Placita
Taos, NM 87571

**Re: Municipal Industrial; SIC 4941; NPDES Reconnaissance Evaluation Inspection; NMU001727;
March 28, 2011**

Dear Mr. Miera,

Enclosed please find a copy of the report for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas, for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

Problems noted during this inspection are discussed in the Further Explanations section of the inspection report. You are encouraged to review the inspection report and required to correct any problems noted during the inspection and to modify your operational and/or administrative procedures, as appropriate. Further, you are encouraged to notify, in writing, both USEPA (Diana McDonald, USEPA (6EN-WM), 1445 Ross Ave., Dallas, Texas 75202) and NMED (at above address) regarding modifications and compliance schedules.

If you have any questions about this inspection report, please contact me at (505) 827-2575.

Sincerely,

/s/Daniel Valenta

Daniel Valenta
Environmental Scientist/Specialist
Surface Water Quality Bureau

cc: Marcia Adams, USEPA (6EN-AS) by e-mail
Samuel Tate, USEPA (6SF) by e-mail
Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail
Diana McDonald, USEPA (6EN-WM) by e-mail
Larry Gigilo, USEPA (6WQPP) by e-mail
NMED District II, by e-mail



Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code			NPDES										yr/mo/day			Inspec. Type		Inspector		Fac Type								
1	N	2	5	3	N	M	U	0	0	1	7	2	7	11	12	1	1	0	3	2	8	17	18	R	19	S	20	2
Remarks																												
M U N I C I P A L W A T E R S Y S T E M																												
Inspection Work Days						Facility Evaluation Rating						BI		QA		Reserved												
67						70						71		72		73 74 75 80												

Section B: Facility Data

Name and Location of Facility Inspected <i>(For industrial users discharging to POTW, also include POTW name and NPDES permit number)</i>		Entry Time /Date 1110 hours/3-28-2011		Permit Effective Date Unpermitted Discharge	
Rio Pueblo de Taos Well Field, Taos County, – From State Rd 68 entering Taos turn north on Los Cordova’s Road, travel north approximately 2.5 miles to the WWTP. Just past the WWTP turn left/west onto unpaved Cordova Rd, A short distance on the right/north is a steel gate that goes north to the well field.		Exit Time/Date 1335 hours/3-28-2011		Permit Expiration Date Unpermitted Discharge	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)				Other Facility Data	
Amos Torres/Public Utilities Director/575-751-2047, fax 575-751-2049 Jim Riesterer/Glorieta Geoscience, Inc., Geologist/505-983-5446, fax 575-751-2049				GPS: N. 36° 22’ 48.40” W. -105° 39’ 58.38”	
Name, Address of Responsible Official/Title/Phone and Fax Number				Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> *	
Mr. Daniel Miera, 400 Camino De La Placita, Taos, NM 87571/Taos Town Manager/575-751-2000 fax 575-751-2026					
SIC: 4941					

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

U	Permit	U	Flow Measurement	M	Operations & Maintenance	N	CSO/SSO
U	Records/Reports	U	Self-Monitoring Program	N	Sludge Handling/Disposal	N	Pollution Prévention
U	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
N	Effluent/Receiving Waters	N	Laboratory	N	Storm Water	N	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

The Town of Taos does not have permit coverage to discharge purge water to the Rio Pueblo de Taos.

Name(s) and Signature(s) of Inspector(s) Daniel Valenta <i>/s/Daniel Valenta</i>	Agency/Office/Telephone/Fax NMED/SWQB/505-827-2575	Date 4/7/2011
Signature of Management QA Reviewer Richard E. Powell <i>/s/Richard Powell</i>	Agency/Office/Phone and Fax Numbers NMED/SWQB/505-827-2798	Date 4/7/2011

Reconnaissance Evaluation Inspection
Rio Pueblo de Taos Well Field
NMU001727
March 28, 2011

Introduction

On March 28, 2011 a National Pollutant Discharge Elimination System (NPDES) Reconnaissance Evaluation Inspection was conducted at the Town of Taos' Rio Pueblo de Taos Well Field (Standard Industrial Classification 4941 located approximately 5 miles southwest of the Town of Taos, New Mexico. The inspection was conducted by Daniel Valenta accompanied Sandra Gabaldon of the NMED. The wells at this site are to provide water to the Town of Taos' public water supply. The purpose of this inspection was to document the facility's status regarding the discharge of process water to the Rio Pueblo de Taos under regulation 40 Code of Federal Regulations Part 122 and in conjunction with an investigation regarding a reported fish kill in the Rio Pueblo de Taos earlier in the month. The finding of the inspection is detailed on the attached EPA form 3560-3 and in the narrative Further Explanations section of the report.

The well site is adjacent to the Rio Pueblo de Taos in the Lower Taos Canyon. The well site is on the south side of the Rio Pueblo de Taos a short distance downstream of the confluence of the Town of Taos' waste water treatment plant (NPDES Permit NM0024066) effluent channel with the Rio. The site is also a short distance upstream of the United States Geological Survey's (USGS) flow gage 08276300. This segment of the Rio Pueblo de Taos has NMAC Water Quality Standards reference 20.6.4.122 Assessment Unit ID NM-2119_30 and has a Total Maximum Daily Load for sedimentation/siltation and temperature. Designated uses for this segment are: coldwater aquatic life, fish culture, irrigation, livestock watering, wildlife habitat and primary contact. The well site has two wells (#8 & #9) within a short distance of each other. Well #8 has been in production for some time. Well #9 has been in place for some time but not in service. The Town is in the process of rehabilitating well #9 to bring it into service.

On January 20, 2011, the New Mexico Environment Department received a Notice of Intent to Discharge submittal dated January 17, 2011 (as required per New Mexico Ground & Surface Water Protection Regulations 20.6.2.1201 NMAC) from Mr. Fred Routhage of Hydro Resources – Rocky Mountain Div. on behalf of the Town of Taos (copy attached). The Notice provided information regarding the rehabilitation of Well #9 including the intent to discharge pump testing water at a rate of approximately 600 GPM or 864,000 daily to the Rio Pueblo de Taos. Mr. Routhage was contacted by Mr. Glenn Saums of the NMED Surface Water Quality Bureau by phone (see copy of handwritten note to the file by Mr. Saums) and informed that the discharge to the river as proposed may require NPDES permit coverage. Mr. Routhage subsequently revised and resubmitted the Notice to NMED indicating that there would be no discharge to surface waters.

On March 3, 2011 NMED received complaints of a fish kill in the Rio Pueblo de Taos downstream of the confluence of the waste water treatment plant's effluent channel from the New Mexico Department of Game and Fish, Taos Pueblo and concerned citizens. An NPDES Compliance Inspection of the Taos WWTP was conducted by NMED Inspector Barbara Cooney on March 4, 2011. That inspection is documented in a separate written report previously submitted to the Town of Taos and to the EPA Region 6 Office. Review of the on-line flow record of the USGS's flow monitoring station indicated an unusual peak of high flow on March 3, 2011.

Inspection

The Inspectors arrival at the site at approximately 1110, the inspection initially focused on # 9 well rehabilitation activities. Mr. Fred Routhage, Site Supervisor for Hydro Resources was contacted by phone. The inspector made introductions and discussed the purpose of the inspection; permission to inspect the site was obtained. On the site was Mr. Rob Johnson, Field Technician, after introductions and credentials were presented, a site inspection was begun.

Reconnaissance Evaluation Inspection
Rio Pueblo de Taos Well Field
NMU001727
March 28, 2011

A request was made for the drilling log and any operational logs that may have been kept by the drill operators. Mr. Johnson said these were not on site but would be kept by Geologist Mr. Jim Riesterer of Glorieta Geoscience, Inc. Mr. Riesterer was contacted by phone at 1147, after explaining the purpose of the inspection a request for documents pertaining to the drilling activity was made. Mr. Riesterer said he was going to be at the site at 1400 and he would bring any documents he had, (see log attachment). When Mr. Riesterer arrived introductions were made and credentials presented. The plan outlined by Mr. Johnson to contain the well process water, supported by the drill log entries was to pump the process water into a hole dug beside the work site. As the hole filled the water would be pumped by hose into a perforated PVC pipe on the next lot. The lot is heavily vegetated and fairly level. There is some slope towards the Rio Pueblo de Taos. A site review was made of the area with no visible indication of water making it to the stream. The drill log noted the well purge had overflowed the containment pond, pumping had stopped, the pond was enlarged, water drained. Water patterns on the ground showed this had indeed occurred. Even though the containment pond did overflow there was no visible evidence water had flowed to the stream but had remained in the working area. No evidence was found of process water entering the Rio Pueblo de Taos from the Town of Taos Well #9 rehabilitation activity.

The Town of Taos has an enclosed well house on the north side of the site. From the back side of the building, north side, a 6" PVC pipe emerges and appears to discharge a short distance from the building into a channel that discharges to the Rio Pueblo de Taos, (see photo 1). Alongside the 6" PVC pipe discharge is a 2" PVC pipe. The 2" black PVC pipe discharges with such velocity it has down cut into the ground (see photo 2). A second 2" black PVC pipe coming from the side of the building was discharging but did not appear to flow into the channel or to the stream. The second 2" pipe discharged for the two hours the inspectors were at the site, inspectors were told this was purge water, (see photo 3).

A call was placed to the Public Utilities Director, Amos Torres. Mr. Torres agreed to meet with the Inspectors at 1400 at the site. After arriving at the site the inspectors made introductions and discussed the purpose of the inspection, credentials were presented. The key to the building was obtained, the function and use of the equipment was described by Mr. Torres. Well #8 or RG37303-S3 was a short distance from the house and was operational and being used.

The function of the equipment as described by Mr. Torres, when the Town's SCADA system detects a low water level, well #8 engages and a purge cycle is started. The pump starts pumping water from the well, valves engage and the water is discharged out the 6" PVC pipe at the back of the building, (see photo 4). The purge cycle lasts 5 minutes, water is pumped at 580 gallons per minute, or 2,900 gallons are discharged per cycle. It was explained the 2" pipes also discharge purge water. The number of times the well is engaged depends on the Towns water demand that day.

The well water is not treated with any chemicals at this site and no chemicals were seen. No maintenance or repair log was available for review at the Well Field although a log was available at the water treatment building, no problems were noted. Mr. Torres said he would check and see if any equipment operators knew of problems at the site that may have caused a sudden and prolonged discharge of purge water. The Inspectors left the site at approximately 1435. Mr. Torres called back to report no maintenance issues or failures had occurred in the last month.

Reconnaissance Evaluation Inspection
Rio Pueblo de Taos Well Field
NMU001727
March 28, 2011

Finding

Per 40 CFR PART 122.1 (b) *“The NPDES program requires permits for the discharge of “pollutants” from any “point source” into “waters of the United States.” The terms “pollutant”, “point source” and “waters of the United States” are defined at §122.2.”*

Per 40 CFR PART 122.21(a) *“Duty to apply. Any person who discharges or proposes to discharge pollutants” “shall submit a complete application (which shall include a BMP program if necessary under 40 CFR 125.102) to the Director in accordance with this section and part 124.”*

1. This facility did not have NPDES permit coverage for the discharge of purge water from the Rio Pueblo de Taos Well Field on the date of this inspection.
2. After a review of the files and consultation with NMED personnel it has been determined the issue of required permit coverage for purge water had been discussed with the town of Taos through telephone discussions August 2010, (see attachment).
3. In a letter submitted to NMED on August 5, 2010 Mr. Amos Torres states the practice of discharging purge water has been stopped.

Note: the August 5 letter is in response to an inquiry made by NMED SWQB representative Barbara Cooney in which she telephonically asked if the Town’s drinking water wells were discharging to surface waters. Ms. Cooney’s inquiry was motivated by verbal request from Taos Pueblo Office of Environmental Protection (verbal communication J. Ogburn of Tao Pueblo to Glenn Saums of NMED July 8, 2010) regarding the discharge status of the wells under the NPDES permit

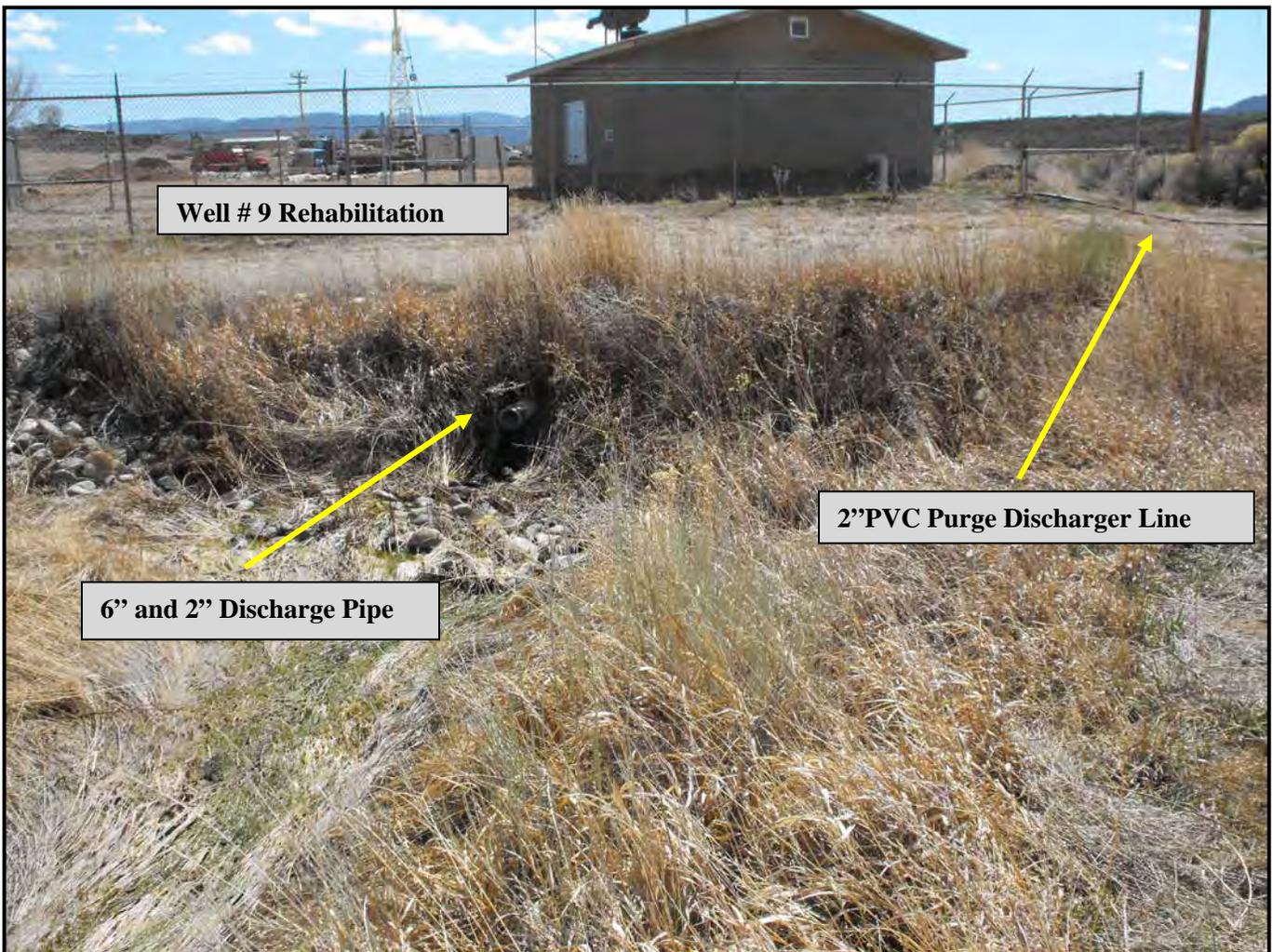
4. Upon the completion of the well #9 rehabilitation project the issue of purge water would increase as this well enters into service.

At the Rio Pueblo de Taos Well field there was no apparent treatment, storage or other Best Management Practices (BMPs) for purge water. No functional settling ponds, check dams, silt fences, straw bale barriers, or other practices to prevent or reduce the pollution of waters of the United States that were observed during this inspection.

**NMED/SWQB
Official Photograph**

Photo 1

Photographer: Daniel Valenta	Date: 3/28/2011	Time: 1228 hours
City/County: Taos/Taos County		
Location: Rio Pueblo de Taos Well Field, approximately 5 miles southwest of the Town of Taos, facing south.		
Subject: Discharge lines from the pumping well house.		



**NMED/SWQB
Official Photograph**

Photo 2

Photographer: Daniel Valenta	Date: 3/28/2011	Time: 1230 hours
City/County: Taos/Taos County		
Location: Rio Pueblo de Taos Well Field, approximately 5 miles southwest of the Town of Taos, facing north.		
Subject: Discharge channel from the pumping well house.		



**NMED/SWQB
Official Photograph**

Photo 3

Photographer: Daniel Valenta	Date: 3/28/2011	Time: 1227 hours
City/County: Taos/Taos County		
Location: Rio Pueblo de Taos Well Field, approximately 5 miles southwest of the Town of Taos, facing southwest.		
Subject: 2" PVC pipe discharging to field, discharge flows toward the Rio Pueblo de Taos.		



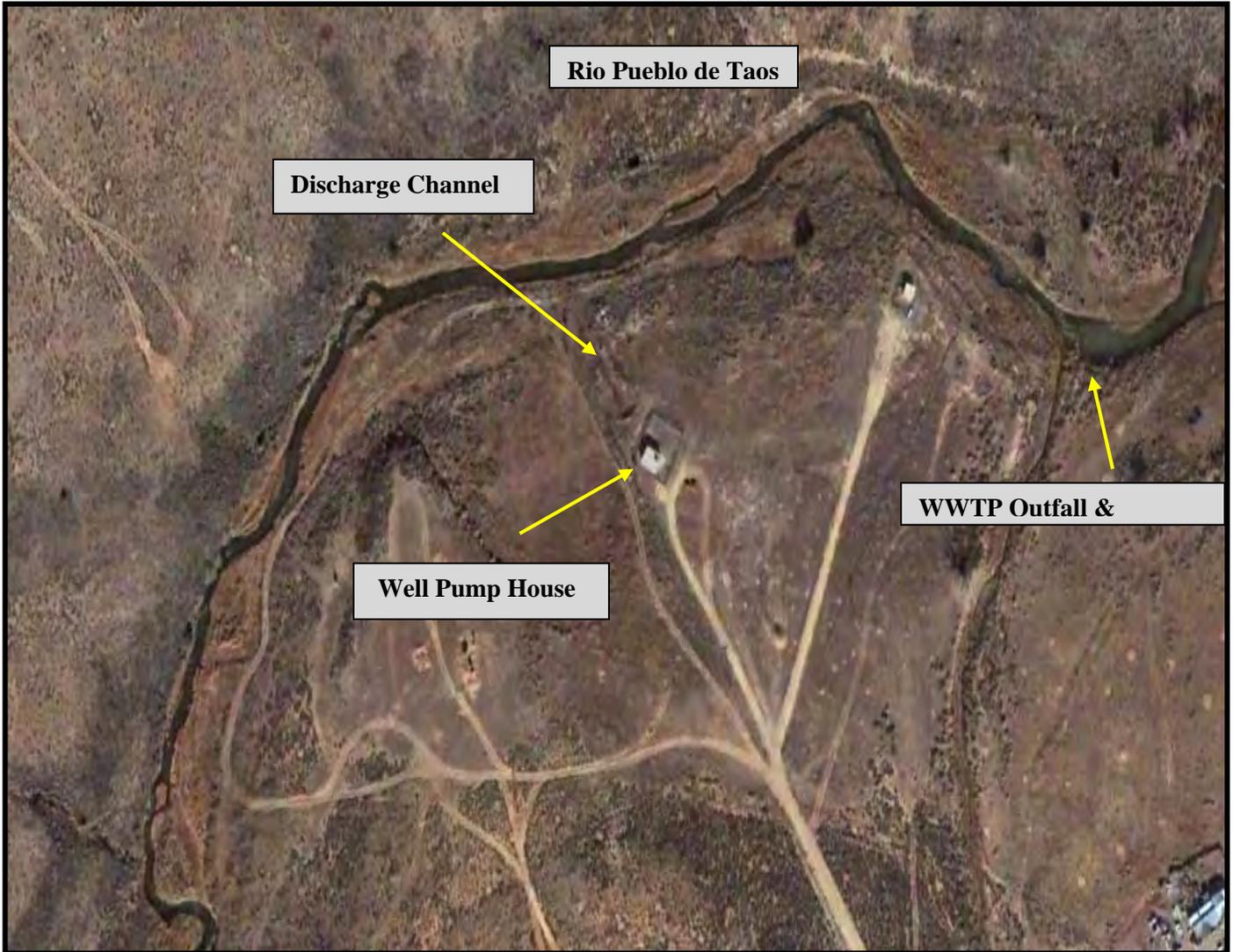
**NMED/SWQB
Official Photograph**

Photo 4

Photographer: Daniel Valenta	Date: 3/28/2011	Time: 1208 hours
City/County: Taos/Taos County		
Location: Rio Pueblo de Taos Well Field, approximately 5 miles southwest of the Town of Taos, facing north.		
Subject: Stream of water discharging from the well field.		



NMED/SWQB
Site Overview



NMED/SWQB Site Overview



1000 County File



New Mexico Environment Department
Ground Water Quality Bureau

**Ground Water Quality Bureau –
Pollution Prevention Section
Notice of Intent**

1. Name and mailing address of person proposing to discharge:

Hydro Resources - Rocky Mtn. Div.

Work Phone: 303.857.7585

Fred Rothauge

Cell/Home Phone: 970.381.3788

13027 County Road 18

Fax: 303.857.3826

Fort Lupton, CO. 80621

Email: frothauge@hydroresources.com

GROUND WATER

JAN 10 2011

BUREAU

2. Name of facility:

Town of Taos Well #9 Rehabilitation

3. Physical location of discharge (If applicable, give street address, township, range, section, distance from closest town or landmark, directions to facility, location map):

Township 25 N, Range 12 E, Section 21, Southwest of the Southwest, NMOSE- Well 19,
UTM Coord. 440.380 E., 100.402.6000 N, 440380 Zonē 13, NAD 27, Apprōx. 5 miles
southwest of the Town of Taos within the existing Rio Pueblo De Taos Well Field.

4. Type of operation generating the discharge (e.g., truck wash, food processing plant, restaurant, etc.):

Well rehabilitation and pump water testing.

5. Source(s) of the discharge. Describe how the wastewater, sludge, or other discharges processed and/or disposed at your facility are generated. Identify all sources. Attach additional pages if needed:

The well water will be pumped into a pit, from there once clarified it will then be
pumped into an un-named arroyo, thence into the Rio Pueblo De Taos. Once the pump
test water from the well is running clear it too will be directed to the Rio Pueblo De Taos.

6. Expected contaminants in the discharge (e.g., nitrate-nitrogen, metals, organic compounds, salts, etc.) include estimated concentration if known, and copies of results of laboratory analyses, if available:

None

7. Describe all components of wastewater processing, treatment, storage, and disposal system (e.g., grease interceptor, lagoon, septic tank/leachfield, etc.) include sizes, site layout map, plans and specifications, etc. if available:

There will not be any treatment of the water. Chloride concentration will be established
once an analysis of sample water is completed. No discharge will occur until
said analysis is completed.

8. Estimated maximum daily discharge volume in gallons per day (or other units):

Approximately 600 GPM, 864,000 Daily. NMOSE Well #19 (RG37303-S)

9. Estimated depth to ground water (ft): 205 ft.

Signature: [Signature]

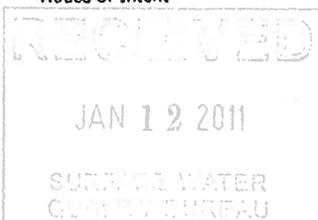
Date: 8 January 2011

Printed name: Fred Rothauge

Title: General Manager

Please return this form to:
NMED Ground Water Quality Bureau
P O. Box 5469
Santa Fe, New Mexico 87502-5469

Telephone: 505-827-2900
Fax: 505-827-2985



36 22 46.99 m
105 39 54.47 m/sec
reverse

Roth
Behnson

Note:

I called Mr. Rothauge 1/12/2011 @ ~ 9:15am
I advised him that his proposed discharge to
a watercourse will likely require an NPDES
permit from the USEPA. He indicated he thought
they had coverage under the NPDES CGP. I advised him
that this discharge from well rehab. is not eligible under the
Stormwater CGP since it is not construction or storm water
related. He said they were planning on reducing the
discharge and may not need to discharge to the
watercourse. I advised him if they made that
change he should amend/resubmit the NOI to the GWQIB.
I also explained that I was only responding re. the
surface water permits and that the GWQIB would
address the discharge to groundwater permitting issues.
I offered to give him EPA contact info but he
said he did not need it.

- Glenn Saums
-1/12/2011



1. Name and mailing address of person proposing to discharge:

Hydro Resources - Rocky Mtn. Div.

Work Phone: 303.857.7585

Fred Rothauge

Cell/Home Phone: 970.381.3788

13027 County Road 18

Fax: 303.857.3826

Fort Lupton, CO. 80621

Email: frothauge@hydroresources.com

GROUND WATER

JAN 20 2011

BUREAU

2. Name of facility:

Town of Taos Well #9 Rehabilitation

3. Physical location of discharge (if applicable, give street address, township, range, section, distance from closest town or landmark, directions to facility, location map):

Township 25 N, Range 12 E, Section 21, Southwest of the Southwest, NMOSE- Well 19,
UTM Coord. 440.380 E., 100 402.6000 N, 440380 Zone 13, NAD 27, Approx. 5 miles
southwest of the Town of Taos within the existing Rio Pueblo De Taos Well Field.

4. Type of operation generating the discharge (e.g., truck wash, food processing plant, restaurant, etc.):

Well rehabilitation and pump water testing.

5. Source(s) of the discharge. Describe how the wastewater, sludge, or other discharges processed and/or disposed at your facility are generated. Identify all sources. Attach additional pages if needed:

The well water will be pumped into a pit, from there once clarified it will then be
aerated through three sprinklers that will spray 260' Radius, along with 6" C-900 perforated PVC.
The sprinklers and perforated PVC will be rotated to different locations within the project area.

6. Expected contaminants in the discharge (e.g., nitrate-nitrogen, metals, organic compounds, salts, etc.)
Include estimated concentration if known, and copies of results of laboratory analyses, if available:

None

7. Describe all components of wastewater processing, treatment, storage, and disposal system (e.g.,
grease interceptor, lagoon, septic tank/leachfield, etc.) Include sizes, site layout map, plans and
specifications, etc. if available:

There will not be any treatment of the water. Chloride concentration will be established
once an analysis of sample water is completed. No discharge will occur until
said analysis is completed or into the water ways of the U.S..

8. Estimated maximum daily discharge volume in gallons per day (or other units):

Approximately 600 GPM, 864,000 Daily. NMOSE Well #19 (RG37303-S)

9. Estimated depth to ground water (ft): 205 ft.

Signature:

Date: 17 January 2011

Printed name:

Fred Rothauge

Title: General Manager

Please return this form to:
NMED Ground Water Quality Bureau
P O Box 5469
Santa Fe, New Mexico 87502-5469

Telephone 505-827-2900
Fax 505-827-2965



SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

NEW MEXICO
ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau

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www.nmenv.state.nm.us



DAVID MARTIN
Secretary

RAJ SOLOMON, P.E.
Deputy Secretary

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

February 10, 2011

Fred Rothauge
Hydro Resources – Rocky Mtn. Div.
13027 County Road 18
Fort Lupton, CO 80621

RE: Response to Notice of Intent to Discharge; Discharge Permit Not Required for Town of Taos Well #9 Rehabilitation, AI:30045

Dear Mr. Rothauge:

The New Mexico Environment Department (NMED) received a Notice of Intent on January 10, 2011, a revised Notice of Intent on January 20, 2011 and additional information submitted on February 3, 2011 to discharge water from a pump test being conducted on the Town of Taos Well #9 as part of a well rehabilitation effort. The notice satisfies the requirements of Subsection A of 20.6.2.1201 NMAC of the New Mexico Water Quality Control Commission (WQCC) Regulations (20.6.2 NMAC). The proposed discharge is located within the existing Rio Pueblo de Taos Well Field approximately 5 miles southwest of the Town of Taos at UTM coordinate 440.380E., 100.402.6000 N, 440380 Zone 13, NAD 27 in Section 21, Township 25N, Range R12E, Taos County.

Based on the information provided in your Notice of Intent, NMED has determined that a Discharge Permit is not required as long as the discharge is as described. A Discharge Permit is not required at this time because the information provided indicates it is unlikely that the discharge will adversely affect ground water quality water (20.6.2.3104 NMAC).

Fred Rothauge, AI:30045

February 10, 2011

page 2

The proposed discharge is briefly described as follows:

Up to 864,000 gallons per day of ground water will be discharged from the Town of Taos Well #9 over a four day period. Well water will be pumped into a pit for clarification. It will then be discharged to rangeland through either three sprinklers that will spray in a 260' radius, or through 6" C-900 perforated PVC pipe. The sprinklers and perforated PVC piping will be rotated to different locations within the project area and shall be discharged to the ground surface in such a manner so as to minimize and/or prevent surface runoff and/or discharge to nearby water bodies.

Although a Discharge Permit is not being required for this discharge at this time, you are not relieved of liability should your operation result in actual pollution of surface or ground waters. Further, this decision by NMED does not relieve you of your responsibility to comply with any other applicable federal, state, and/or local laws and regulations, such as zoning requirements, plumbing codes and nuisance ordinances.

If at some time in the future you intend to change the amount, character or location of your discharge, or if observation or monitoring shows that the discharge is not as described in your Notice of Intent, you must file a revised Notice of Intent with the Ground Water Quality Bureau.

If you have any questions, please contact either Brad Reid at (505) 827-2963 or George Schuman, Program Manager of the Ground Water Pollution Prevention Section, at (505) 827-2945.

Sincerely,

George Schuman for W. Olson

William C. Olson, Chief
Ground Water Quality Bureau

WO:BR

cc: Robert Italiano, District Manager, NMED District II
Rich Powell, NMED SWQB
Taos Field Office
NOI File
County File

Darren M. Cordova, Mayor

Councilmembers:

Rudy C. Abeyta
A. Eugene Sanchez
Amy J. Quintana
Michael A. Silva

Daniel R. Miera, Town Manager
Abigail R. Adame, Assistant Town Manager



Taos Municipal Building
400 Camino de la Placita
Taos, New Mexico 87571
(575) 751-2000
Fax (575) 751-2026

Visit us on our Website at:
www.taosgov.com

August 5, 2010

Barbara Cooney
New Mexico Environment Department
Surface Water Quality Bureau
Santa Fe, New Mexico

Ms. Cooney,

I would like to apologize for the long delay in getting this info to you. Here is the info you requested on the Town of Taos Municipal water system. As I had mentioned during the conversation on the phone we were purging some of the wells.

The wells that we were purging are: This practice has stopped since our conversation on well purging. Please let me know if there is additional information required by your office in this or any other matter.

Well # 4 RG7339-s3
Well # 5 RG7339-s4
Well # 8 RG37303-s

The following is a list of wells that the Town of Taos uses for its Municipal water system.

Well No.	OSE Permit	Location	Drill Date	Rehab Date	Depth in feet
1	RG7339	Bedford St.	1935	6/4/1996	182'
2	RG7339-s	Bedford St.	1944	7/3/1990	204'
3	RG7339-s2	Post Office	1949	1988	312'
3A		Post Office	1988	n/a	400'
4	RG7339-s3	Jack Denver	1967		300'
5	RG7339-s4	Sierra Sports	1975		330'
6	RG7339-s5	Howell	1973		503'
-	RG7339-s6	Mitchell	n/a		400'
7	RG37303	Rio Pueblo	1995		180'
8	RG37303-s3	RP 2500			2527'
9		RP 3200	2007		3200'
	RG17178	Kit Carson	1970		270'
	RG23015	WWTP			130'
	RG36130	Fred Baca			76'

Please feel free to contact me if there are any questions regarding this or any other matter.

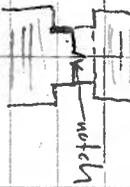
Amos Torres

Town of Taos
Public Utilities Director
(575)751-2047
atorres@taosgov.com

Location Taos Date 1/27/11
 Project / Client RP 3200 Rehab

On site 9:35 w/ P. Chamberlain.
 Hydro Resources has their own
 welders on site setting up to
 run the first jt.

When they cut the screens apart,
 made a notched cut so pieces
 will go back in together



Checked w/ Daniel re: clean out.

Were not able to get a good
 tag on sand, but ran in drill
 pipe all the way to 3170 &
 circled. Last sand reading
 was at 12:45 this morning, 0.75
 m/l.

Took photos of Sledge Average 5' 1
 9" OD, one section is 9 1/2

Location Taos Date 1/27/11
 Project / Client RP 3200 Rehab
 Clean out log (copied from database) Scale

Time	Depth	m/l	Notes
4:30	3095	3.2	Measure DTM in RP 2000 piezometer
5:00	3095	3.2	
5:30	3110	3.2	① ② ③
5:45	3115	2	
6:00	3120	5	④
6:15	3120	2.5	
6:50	3180	5	#1: 235.916 MDC = 2.45
7:00	3186	40	
7:20	3147	20	#2: 352.84 MDC = 2.35
7:24	3147	0.5	
7:45	3147	20	#3: 193.61 MDC = 1.99 skrand = 2.28
8:15	3147	30	
8:30	3150	40.5	League site 11/15
8:45	3150	0.5	
9:00	3155	10	League site 11/15
9:15	3175	20	
9:30	3177	30	League site 11/15
9:45	3177	10	
10:10	3177	2	League site 11/15
10:30	3179	1.5	
11:00	3170	1.5	League site 11/15
12:00	3170	1.0	
12:45	3170	0.75	League site 11/15

Location Taos Date 3/1/11
 Project / Client RP3200 Rehab - Development

On site 12:50 crew doing routine maintenance. Denial! says has been making a lot of water, very little sand. Started dev @ 10:00. Just added more airline to 800 ft

Time	Temp	pH	Cond (uS)	Sand (m/L)
13:05	29.2	9.16	548	1.6
Water appears to alternate clear & cloudy. Est. Q ≈ 200 + gpm				
13:15	29.9	8.80	544	5.0
13:35	29.310	9.18	506	
14:00	31.8	9.05	483	2.25
14:13	31.1	9.14	515	2.25

Stop airlifting @ 14:13 b/c pit is full, set up to pump out pit. Pump into field to south, haven't landowner permission, just have to keep out of RPT, laying out biodegradable sediment trap filters betw. sprinklers & Rio.

Location Taos Date 3/1/11
 Project / Client RP3200 Rehab - Development

Leave site 16:00. Crew is digging aux pit, excess can run on ground as long as stays out of Rio (draft permission from Thomas @ Taos). Clouds @ 16:30

Time	Temp	pH	Cond (uS)	Sand (m/L)
17:30	20.76			
22:00	22:30			
21:10	29.6	9.05	513	1.3

Begin airlifting again @ 17:30
 DTU @ 21:25 = 461.1 bwp.
 MP = top of sounder line
 Leave site 21:45 Crew is instructed to measure sand every 1/2 hr & record. If sand gets < 0.1 m/L, shut down, test well west 1/2 hr = 1 hr, start up again. If still < 0.1, call.

Scale

Location _____

Date 3/1/11

Project / Client IAPU Survey

Notes

From X sect data processing

- U. Willow thalweg: big gap between PUM105 & PUM192; surveyed different days, may need to fill in gap
- 2010 & 2011 thalweg surveys plot together but tape distances are significantly diff (due to gap?)
- PUM105 - labeled as MW-4NT, should be MW-4SI
- MW25 section - check 2010 notes Did we survey south from MW25 - Yes
- MW 3, 4, 5 & 6 all off a bit. Div @ 9.25 - 481.1 ft bump top of summer time)
- Need Corrids for MW 4AS + N, add to xls to replace MW-4S
- MW6 elevations appear off
- MW3 from 2010 - why is S channel removed?
- MW1 - Elev off a bit for 2011 (?) (see a1 file)

Taps

Date 3/12/11

Project / Client RP3200 Relab

Scale

On site	7:45	DISMURGE	has
dropped, est.	150	gpm	
Time	7:55	pit #1	down (has)
	8:30	8:16	4:29
			1:35
			1:8
Leave site	8:45	Crew is going	
to haul down, take compressor			
to town for fuel, set enlarge pit,			
load @ 9:10			
Prod 1/ Prod 4 Eric to 9:45			
10-12:50	LA PU		
1:30-2:00	LA PU		
Leave	load @ 14:15	on site	14:55
Time (Taps)	pit #1	condensed	Sand with
14:47	31:8	9:01	4:27
			0:7 (14:35)
Arr off @	14:50	(breaked beam)	
Leave site	15:40	crew is	
draining the pit, call call			
and stabilize			

Location

Taos

Date 3/2/11

Project / Client

RP 3200 Rehab - Dev.

Sand Content Msmts (from H.R.)

Time	Wt/L	Time	Sand
17:30	3		
18:00	1	6:00	1.0
18:30	1.5	8:00	1.75
Add a/v line to 800 ft		8:30	1.8
20:00	1	10:00	1.75
20:30	2	10:30	1.75
21:00	1.5	11:00	1.4
21:30	1.5	11:30	1.4
22:00	0.5	12:00	1.5
22:30	0.5	13:00	1.5
23:00	0.5	14:00	0.4
23:30	0.5	14:30	0.7
00:00	1.5	shut down to duction	
00:30	1.5		
1:00	2.0		
1:30	1.5		
2:00	1.5		
2:30	1.5		
3:00	1.5		
3:30	1.5		
4:00	1.0		
4:30	1.0		
5:00	0.7		
5:30	0.7		

Location

Taos

Date 3/8/11

Project / Client

RP 3200 Rehab

Scale

On site 15:30 - Get sand samples of sand produced during pump development for grain size analysis.

1 - RP3200 from Rossum - sand collected from vial on Rossum cone on 3/8/11

2 - 3 samples "RP3200 composite" collected in 5 gal bucket on 3/7 + 3/8/11

3 - 3 samples "RP3200 outfall" collected from hose on the 11 de posits, 3/7 + 3/8/11