



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
ALBUQUERQUE

Thomas C. Turney
STATE ENGINEER

DISTRICT :
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FACSIMILE TRANSMITTAL

TO: Dennis McRathion FAX #: 827-2965

COMPANY: NMED

FROM: Jess Ward TOTAL NUMBER OF PAGES SENT: 27

DATE: 4/7/98 TIME: 4:55

REMARKS:

As discussed.

If you do not receive all of the pages, please contact
the sender as soon as possible at (505) 841-9480

Exhibit A

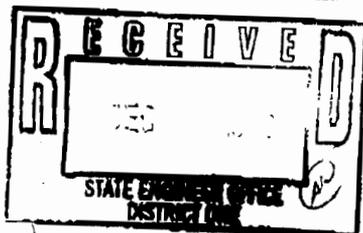
3. Applicant proposes to use the following two existing monitor wells as recovery wells.

Existing Well Number	New Mexico Coordinate System (Central Zone) Coordinates		Location, as projected in Town of Alameda Grant, N.M.P.M.	Casing (inches)	Depth (feet)	Driller
	X	Y				
MW-32	376,960 feet	1,524,500 feet	Within SW $\frac{1}{4}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$, and SE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 17, Township 11 North, Range 3 East	4 $\frac{1}{2}$	118	Rodgers & Company, Inc.
MW-42	377,190 feet	1,524,730 feet	SW $\frac{1}{4}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$, Section 17, Township 11 North, Range 3 East	4 $\frac{1}{2}$	115	Rodgers & Company, Inc.

5. Quantity of water to be appropriated and beneficially used is 0.24 to 1.00 acre feet per annum, consumptive use, and 32.3 acre feet per annum, diversion. Please see Exhibit B for consumptive use calculations.

7. Additional Statements or explanations:

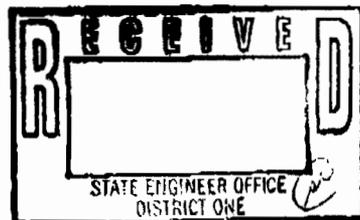
- a. Need for pollution control and recovery: There is groundwater impacted by chlorinated solvents at or near Applicant's Coors Road facility. Applicant proposes to use the applied for recovery wells to prevent movement of material amounts of solvents off site.
- b. Underground water source: Rio Grande underground basin.
- c. Locations of points of withdrawal and discharge: Please see #3 above for the proposed location of the wells. After treatment at the well site through an air stripper, the water will be transported through a discharge pipeline to the City of Albuquerque's storm sewer system, through the storm sewer system and discharged at the Calabacillas Arroyo, approximately 800 feet upstream from the Coors Road crossing. Please see Exhibit C for a diagram of the discharge location.



Recovery Wells File No. _____

Exhibit A
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- d. Maximum annual quantity of water intended to be withdrawn: Please see #5 above and Exhibit B for consumptive use calculations. Applicant proposes to obtain, on a yearly basis, sufficient rights to offset the amount of water consumptively used in that year.
- e. Amount, method and place of discharge: The amount of discharge will equal the amount of water diverted, up to 32.3 acre feet per annum, minus any evaporative losses, which are estimated between 0.24 and 1.00 acre feet per annum. Please see Exhibit B for consumptive use calculations. The water will be transported through a discharge pipeline to the City of Albuquerque's storm sewer system, through the storm sewer system and discharged at the Calabacillas Arroyo, approximately 800 feet upstream from the Coors Road crossing. Please see Exhibit C for a diagram of the discharge location.
- f. Estimated maximum period of time for completion of the pollution control and recovery operations: Remediation requiring the use of the well is expected to last at least 30 years. Applicant will periodically assess the continued need for the wells.
- g. Method of Measurement: Totalizing meters acceptable to the State Engineer.
- h. Disposition of wells after completion of pumping related to remediation program: Applicant intends to either plug these wells or to maintain them as monitor wells.
- i. Statement of non-impairment of existing rights: The proposed recovery of groundwater will not impair existing water rights. Applicant requests exemption from or modification of the requirement for publication of notice prior to the drilling and use of the requested wells for remediation purposes.
- j. Statement of emergency: Regulatory authorities have declared they believe an emergency exists because of the need to avoid expansion of impacts from the plume, if any. Based on this declaration, Applicant requests exemption from or modification of the requirement for publication of notice prior to the drilling and use of the requested wells for remediation purposes. Delay caused by publication and hearing would not be in the public interest.



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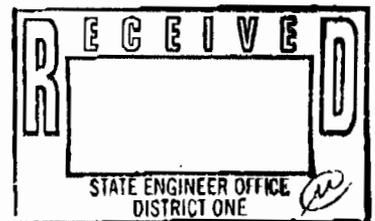
Recovery Wells File No. _____

CONSUMPTIVE USE CALCULATIONS

EXHIBIT B

**TO
SPARTON TECHNOLOGY, INC.
APPLICATION FOR PERMIT
TO DIVERT GROUNDWATER
(20gpm)
FOR
GROUNDWATER REMEDIATION**

**PREPARED BY
METRIC CORPORATION
ALBUQUERQUE, NEW MEXICO**



DECEMBER 1996

Assumptions:

Maximum Discharge: 20 gpm = 32.26 AF/AN

Discharge Location: Calabacillas Arroyo 800 feet upstream from Coors Road.

Estimated Exposed Water Surface: 1744 ft² = 0.04 ac ⁽¹⁾

Average Annual Evaporation = Rate 73.18 in/yr = 6.09 ft/yr ⁽²⁾

Consumptive Use (minimum): 0.04 ac x 6.09 ft/yr = 0.24 AF/AN

Recommendation:

It is recommended that the application be made for consumptive use of 1.00 AF/AN to account for possible plugging of the arroyo bottom by salts or fine grained sediment particles.

- (1) Based on 24-hour infiltration study conducted at 200 gpm in Arroyo bottom at proposed outfall location.
- (2) Based on Pan Evaporator from 1962 - 1996 at Los Lunas, New Mexico Experiment Station, (see TABLE 1).

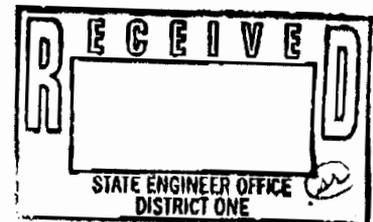


TABLE 1
PAN EVAPORATION
AVERAGE MONTHLY TOTAL EVAPORATION
Record of Date 1962 - 1996

Source: Western Region Climate Center
 NOAA Reno, Nevada
 Jim Ashby (702) 677-3106
 Location: Los Lunas Experience Farm

MONTH	INCHES	RECORD (yrs.)
January	1.87	1
February	2.81	3
March	5.27	35
April	7.86	35
May	9.73	35
June	10.40	35
July	10.10	35
August	8.74	35
September	6.57	35
October	4.60	35
November	2.78	35
December	2.45	1

