

## INFORMATION SHEET

ORDER NO. R5-2008-0000  
RONEY LAND AND CATTLE COMPANY, INC.  
AND 7/11 MATERIALS, INC.  
PINE CREEK GRAVEL OPERATION  
TEHAMA COUNTY

Roney Land and Cattle Company, Inc. and 7/11 Materials Inc. submitted a Report of Waste Discharge, dated 26 June 2007 for a discharge of gravel wash water from an existing gravel extraction facility to ponds. The application was deemed incomplete on 10 July 2007. Additional information was submitted on 27 September 2007, 7 December 2007 and 24 March 2008. The application was deemed complete on 24 March 2008. The facility is approximately six miles southeast of Vina, east of Highway 99E on the south side of Pine Creek along the Tehama County, Butte County boundary in sections 35 and 36, T24N, R1W, MDB&M (Latitude 39.86417° N, Longitude 121.95323° W). The property on which the mining and processing occurs (Assessor's Parcel Numbers 79-079-9, and 11) is owned by Roney Land and Cattle Company, Inc. The gravel extraction process is operated by the leaseholder 7/11 Materials Inc.

The Pine Creek gravel operation on the Roney property was originally operated by Big Windy Mining and Gravel. Tehama County Planning Department approved a Negative Declaration for Big Windy Mining and Gravel Inc. on 21 April 1994. The project description in the Initial Study was, "To establish a gravel extraction operation including screening and crushing in a UA-AP (Upland Agriculture-Agriculture Preserve) and EA-AP, (Exclusive Agriculture-Agriculture Preserve) zoning districts. The project site would be south of Pine Creek along the Tehama County Butte County line. The application is to extract and process up to 220,000 cubic yards of gravel annually. The property is located southeast of Vina, described as a portion of the south half of sections 35 and 36, T.24.N. R.1.W., MDB&M, Assessors Parcel Number 79-070-09 and 79-0709-11, approx. 507 acres". Big Windy Mining and Gravel Inc. held a lease from the property owner Roney Land and Cattle Company, Inc. The lease was acquired by 7/11 Materials Inc. in 2003.

The site is bounded on the north by Pine Creek, an intermittent stream which discharges to the Sacramento River south of Chico. Pine Creek is separated from the pond by a berm approximately 15 feet wide and whose top are approximately 8 feet above the level of Pine Creek, and 4 feet above the level of land adjacent to the pond. Tehama County Use Permit 94-2 prohibits gravel extraction within 150 feet of Pine Creek.

Soil in the project area is described as sandy silt with some clay, underlain by fine gravel through large cobbles. The parent material is identified as Vina Loam.

The gravel processing area includes conveyors, screens, a crusher and wash plant. The process is as follows: Excavated material is trucked to the processing area and dumped into the feed hopper of the belt conveyor which takes the un-graded material to the first screen. This screen removes the over 1" (cobbles) which are sent to the crusher. The 1" minus fraction is sent to the crusher or the wash plant. Crushed rock is further graded into ¾", ½",

and ¼” minus, or blended for base rock. The natural (uncrushed) material is conveyed to a “pant leg” which allows material to be sent either to the wash plant or to a area where it is blended with crushed rock for base rock. Overall, approximately 25% of the material is washed. Maximum depth of excavation is 20 feet. According to information submitted by the Discharger through his consultant, the material processing rates are approximately 2,000 to 3,000 tons per day, and the quantity of overburden and soil removed is approximately 1,500 to 2,000 yards per day.

Gravel wash consumes approximately 1,200 gpm of water from an on-site well adjacent to the processing area. Maximum water usage is estimated to be 576,000 gallons per day. An analysis of water from the on-site well indicates that the water is of good quality with neutral pH and low total dissolved solids (TDS) and hardness. The analysis of the well water and pond water as supplied by the Discharger is as follows:

| Constituent                      | Well         | Pond         |
|----------------------------------|--------------|--------------|
| Total Alkalinity                 | 94 mg/L      | 83 mg/L      |
| Bicarbonate as CaCO <sub>3</sub> | 94 mg/L      | 62 mg/L      |
| Carbonate as CaCO <sub>3</sub>   | ND           | 20 mg/L      |
| Hydroxide as CaCO <sub>3</sub>   | ND           | ND           |
| Chloride                         | 1.8 mg/L     | 3.2 mg/L     |
| Fluoride                         | ND           | 0.10 mg/L    |
| Nitrate as NO <sub>3</sub>       | 6.8 mg/L     | ND           |
| Sulphate as SO <sub>4</sub>      | 4.5 mg/L     | 2.6 mg/L     |
| Specific Conductance             | 200 umhos/cm | 160 umhos/cm |
| Methylene Blue Act. Subs.        | ND           | ND           |
| Ca                               | 19 mg/L      | 14 mg/L      |
| Mg                               | 11 mg/L      | 9.8 mg/L     |
| K                                | 1.3 mg/L     | 1.3 mg/L     |
| Na                               | 7.7 mg/L     | 7.6 mg/L     |
| Hardness as CaCO <sub>3</sub>    | 93 mg/L      | 76 mg/L      |
| pH                               | 7.01         | 8.91         |
| TDS                              | 140 mg/L     | 150 mg/L     |
| TSS                              | ND           | 15 mg/L      |
| Hg                               | ND           | ND           |
| Al                               | ND           | 370 ug/L     |
| Ba                               | ND           | ND           |
| Bo                               | ND           | ND           |
| Be                               | ND           | ND           |
| Cr                               | ND           | ND           |
| Cu                               | ND           | 240 ug/L     |
| Fe                               | ND           | ND           |
| Mn                               | ND           | ND           |
| Ni                               | ND           | ND           |

| Constituent | Well    | Pond    |
|-------------|---------|---------|
| Ag          | ND      | ND      |
| Zn          | 270     | ND      |
| Sb          | ND      | ND      |
| As          | ND      | ND      |
| Cd          | ND      | ND      |
| Pb          | ND      | ND      |
| Se          | ND      | ND      |
| Va          | 24 ug/L | 26 ug/L |
| Th          | ND      | ND      |

The original reclamation plan included recycling of pond water, however, recycling has not been implemented.

A review of groundwater data from wells in the vicinity of the project area indicate that the direction of groundwater flow is to the southwest with a gradient of 0.0023 ft/ft.

Gravel wash water is discharged to a large settling pond to the west of the processing area. The pond is presently divided into three sections by internal berms and its area is approximately 15 acres in total. It has been the Discharger's practice to drain accumulated surface water from the adjoining reclaimed areas to the east, into the pond as required, usually in late winter/early spring. The purpose of this practice is to create optimum conditions for re-vegetation of the reclaimed areas.

The original reclamation plan submitted by Big Windy Mining and Gravel Inc. in April 1994, called for the removal of 220,000 cubic yards of gravel per year over the estimated 30 year life of the project. The project is divided into two phases, the first of which includes the western half of the property in Section 35, and the second on the eastern half in Section 36. The project is presently in Phase 1. The reclamation plan stated that the lowest mined area would become a wetland, and that the remaining areas would be returned to upland agriculture. All slopes would be graded to 3:1 or flatter. Conditions of Use Permit 94-2 issued by Tehama County Planning to Big Windy Mining and Gravel Inc. for the subject project include prohibitions for the mining of more than 220,000 cubic yards per year of gravel, and excavating closer than 150 feet from top of the south bank of Pine Creek. The Discharger has been required by Tehama County Planning to submit a revised reclamation plan.

Facilities storing petroleum products (gasoline, diesel, lubricants, etc.) in aboveground tanks with a capacity greater than 1,320 gallons or the total capacity for the facility greater than 1,320 gallons are subject to the Aboveground Petroleum Storage Act (APSA). Prior to 2008 the APSA was the regulatory responsibility of the State Water Resources Control Board (SWRCB). Assembly Bill (AB)1130 was signed by Governor Arnold Schwarzenegger and chaptered on October 13, 2007, and went into effect January 1, 2008. On January 1, 2008, the Certified Unified Program Agencies (CUPA's) were vested with the responsibility and authority to implement the Aboveground APSA. There is no permanent petroleum fuel storage on site.

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Fueling is accomplished by means of a trailer mounted 750 gallon tank which is exempt from regulation under the APSA. The Discharger reports that, apart from the mobile fuel storage referenced above, only minor quantities of lubricants are stored on site.

All domestic waste generated at the site is discharged to portable toilets.

The discharge is within the Red Bluff Hydrologic Area (No. 504.20) as depicted on interagency hydrologic maps prepared by the Department of Water Resources (DWR) in August 1986. Surface water drainage is to Pine Creek which is tributary to the Sacramento River.

The average annual precipitation at the site is approximately 22.5 inches. The Average annual pan evaporation is approximately 68 inches.

Due to the implementation of Best Practicable Treatment and Control at the site, no surface or groundwater water quality degradation is anticipated and groundwater-monitoring wells are not required, at this time. The project is not expected to have an impact on TDS or increase the electrical conductivity (EC) of the ground or surface waters of the site. Soils and ground and surface waters in the region generally have low salt content. In addition, the material being mined consists of alluvial deposits well washed by the Sacramento River. While evaporation from the washing process concentrates TDS, wash water is entrained with the processed sand and gravel taking the salt load with it. Because the project is not expected to increase TDS or increase the EC of the ground or surface waters at the site, a salinity evaluation and minimization plan is not required from the Discharger at this time. EC and TDS monitoring are required.

Surface water drainage is to Pine Creek a tributary to the Sacramento River.

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3/27/2008

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