

**INFORMATION SHEET**  
**ORDER NO. R5-2010-\_\_\_\_\_**  
**TEICHERT CONSTRUCTION COMPANY AND STEWART WELLS**  
**NYACK PORTABLE BATCH PLANT AND CONCRETE RECYCLING SITE**  
**PLACER COUNTY**

**Background**

Teichert Construction Company and Stewart Wells (hereafter discharger) submitted a Report of Waste Discharge for the operation of a portable concrete batch plant (Portable Plant), which will mix concrete for the resurfacing of approximately 42.75 lane miles of Interstate 80. The Portable Plant is located on Mr. Stewart Wells' property at 41855 Old Nyack Road in Emigrant Gap, Placer County.

The site will include a concrete batch plant, materials storage area, aggregate delivery system, concrete washout basin, and a wastewater recycling system. The Portable Plant will blend aggregate, Portland cement, chemical admixtures, and water to produce concrete. The concrete will be delivered to the construction site on Interstate 80 by truck. Before being refilled with concrete, the trucks' mixing drums will be washed out. The water used to wash the drums is wastewater. The wastewater generated at the washout basin is clarified and recycled for reuse washing the mixing drums, and is also used to make concrete.

This phase of the resurfacing project is scheduled to be completed by 2012; however, the construction season is limited by weather conditions. The construction season lasts from 1 May through 30 October each year.

**Wastewater Generation, Flow Rate, and Quality**

On average, the Portable Plant will produce approximately 1,800 cubic yards of concrete per day and approximately 6,500 gallons of wastewater per day will be generated washing concrete truck mixing drums. The wastewater will be clarified and reused to make concrete (approximately 3,500 gallons), or be recycled for concrete truck mixing drum washout. All the wastewater will be contained on-site and will not be discharged to land or surface water bodies.

Concrete wastewater typically contains elevated pH, total dissolved solids, electrical conductivity, and metals (chromium, hexavalent chromium, and/or molybdenum). Because the wastewater is consumed making concrete and in washing concrete drums, fresh water is added on a daily basis. That process keeps the concentrations of waste constituents relatively low.

The Discharger submitted a water balance that demonstrates sufficient capacity to accommodate allowable wastewater flow and design seasonal precipitation using a return period of 100 years. The secondary containment area is designed to contain a 100-year, 24-hour storm event.

**Other Waste Streams**

In addition to the wastewater described above, there may be some solids associated with the recycling system. The solids consist of the following:

- Solids that settle in the washout basin will be used to make concrete or will be removed from the site for disposal or reuse at a permitted facility.
- Portable chemical toilets are available at the facility for employee use.

### **Site Specific Conditions**

An Industrial Stormwater Permit and a General Permit for Discharges of Stormwater Associated with Construction Activity for the site is required by the Order.

### **Basin Plan, Beneficial Uses, and Water Quality Objectives**

Surface water drainage in the area is to numerous unnamed drainage ways and the North Fork of the American River. The *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins, Fourth Edition* (hereafter Basin Plan) designates beneficial uses, establishes water quality objectives, contains implementation plans and policies for protecting waters of the basin, and incorporates by reference plans and policies adopted by the State Water Resources Control Board. The Basin Plan establishes narrative water quality objectives for chemical constituents, tastes and odors, and toxicity in groundwater. It also sets forth numeric objectives for pH and total coliform organisms.

### **Antidegradation Analysis**

An Antidegradation Analysis is not required because the wastewater is fully contained. There will be no discharge from the Portable Plant wastewater recycling system.

### **California Code of Regulations Title 27 Exemption**

This discharge is exempt from the requirements of *Consolidated Regulations for Treatment, Storage, Processing, or Disposal of Solid Waste*, as set forth in Title 27, CCR, Division 2, Subdivision 1, Section 20005, et seq., (hereinafter Title 27). The exemption, pursuant to Section 20090(i) is based on the following.

- (i) Fully Enclosed Units--Waste treatment in fully enclosed facilities, such as tanks, or in concrete-lined facilities of limited areal extent, such as oil-water separators designed, constructed, and operated according to American Petroleum Institute specifications.”

The Order establishes terms and conditions of discharge to ensure that the discharge does not unreasonably affect present and anticipated uses of groundwater. The Discharger has implemented typical industry best practicable treatment and control measures to minimize degradation.

### **California Environmental Quality Act**

The Placer County Planning Commission has found that the Portable Plant is Categorically Exempt from environmental review pursuant to Section 15304 of the California Environmental Quality Act Guidelines and Section 18.36.060 of the Placer County Environmental Review Ordinance (Class 4 [F], Minor Alterations to Land). The Categorical Exemption was determined based on the project having minor temporary land use with negligible or no permanent impacts on the environment.

### **Effluent Limitations**

Effluent limits are not necessary for the Portable Plant, since there is no discharge of wastewater.

### **Other Requirements**

The Provisions require that the Discharger submit the following technical reports:

- Properly permit the site activity under the stormwater permitting program. The Discharger shall obtain an *Industrial Stormwater Permit*, or submit a notice of non-applicability. The discharger must also obtain coverage under the *General Permit for Discharges of Stormwater Associated with Construction Activity*.
- A *Construction Quality Assurance Plan*, describing the procedures to ensure the wastewater system will be constructed to meet or exceed all design criteria, plans, and specifications.
- A *Construction Quality Assurance Report*, for the verification that the procedures described above were implemented and that the wastewater system meets the requirements of the Order.
- A *Portable Plant Winterization Report*, to show that the Portable Plant has been properly winterized to eliminate any discharge of Portable Plant related constituents from being discharged by stormwater or surface water from November through April each year.
- *Monthly Monitoring Repots* are required to ensure proper functioning of containment systems.