

- ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4. Well or Diversion

<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
	Berkley	50	NA	Berkley	NA

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 10 \times (.5) = .5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (.2) \times (246) \times 1.9835 = 97.59$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = .5$$

2. Volume Calculations for Other Uses: Industrial

PUMP EQUATIONS

WATER RIGHT No.

	HP	H in feet	95-9091 Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff} / H$	50	269.3878	0.7	200	30
Q =	1.145 cfs				

Pump Installed in well at 168'. Additional Pumping Lift in Feet based on additional elevation to batch plant.

Water Consumption Records indicate

1,570,353 Gallons consumed 12/29/06 - 10/17/07 = 292 days

= 5378 Gallons per day

5378 gallons per Day $\times 365 = 1,962,970$ gallons (average)
$$1,962,970 \div 325,850 = 6.02 \text{ AF} = 6.0 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

Kootenai County Assessor Tax Lot 51N05W317600 record indicates Eucon Corp. is the property owner at the Point of Use (POU) and Point of Diversion (POD). Eucon is the parent company of Spokane Rock.

The POD is the Production Well (Tag D0017489) located near the West property boundary. Two monitoring wells (D0041223 & D005613) and a settling pond for sediment collection are located West of the property and POU and are not part of the water right. A pond is located immediately to the South of the Production Well. The pond receives water from the Production Well to sprinle irrigate gravel piles and for industrial use to operate a wash plant, a concrete batch plant, fill concrete trucks, and provide for an office/restrooms. There is no storage component in the water right.

A shed located at the Production Well houses a 120 gallon pressure tank and the controls used for irrigation and industrial water use. A 50 HP Berkley submersible pump rated at 600 gallons per minute was installed at a depth of 168 feet in the well in April 2007. The current pressure tank was installed in January 2007.

Irrigation water, when needed, is drawn from the well to the pond where it is pumped into sprinkler lines on top of gravel piles distributed over a 10 acre area around the batch and concrete processing plant buildings. The length of lines and amount of water used for irrigation/dust control depends upon market conditions and the size of gravel piles that are sorted in different sizes. An additional 165,000 gallons is spread annually from water trucks on the site.

Industrial water is drawn when needed from the well to the pond and then to the Wash Plant or to a 10,000 gallon underground holding tank (GPS 47 43.294, 117 00.383) at the Concrete Batch Plant building. The industrial water is used for gravel processing (Washing, Sorting, etc.), for manufacturing concrete, for washing trucks, or for use by Spokane Rock staff (two restrooms, 25 employees).

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
INDUSTRIAL	01/01 to 12/31	1.250 CFS	~~6.0~~ 6.0
IRRIGATION	03/15 to 11/15	0.200 CFS	.5
	<u>Totals:</u>	1.250 CFS	6.5 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name

William M. Mayes

Date

10/22/07

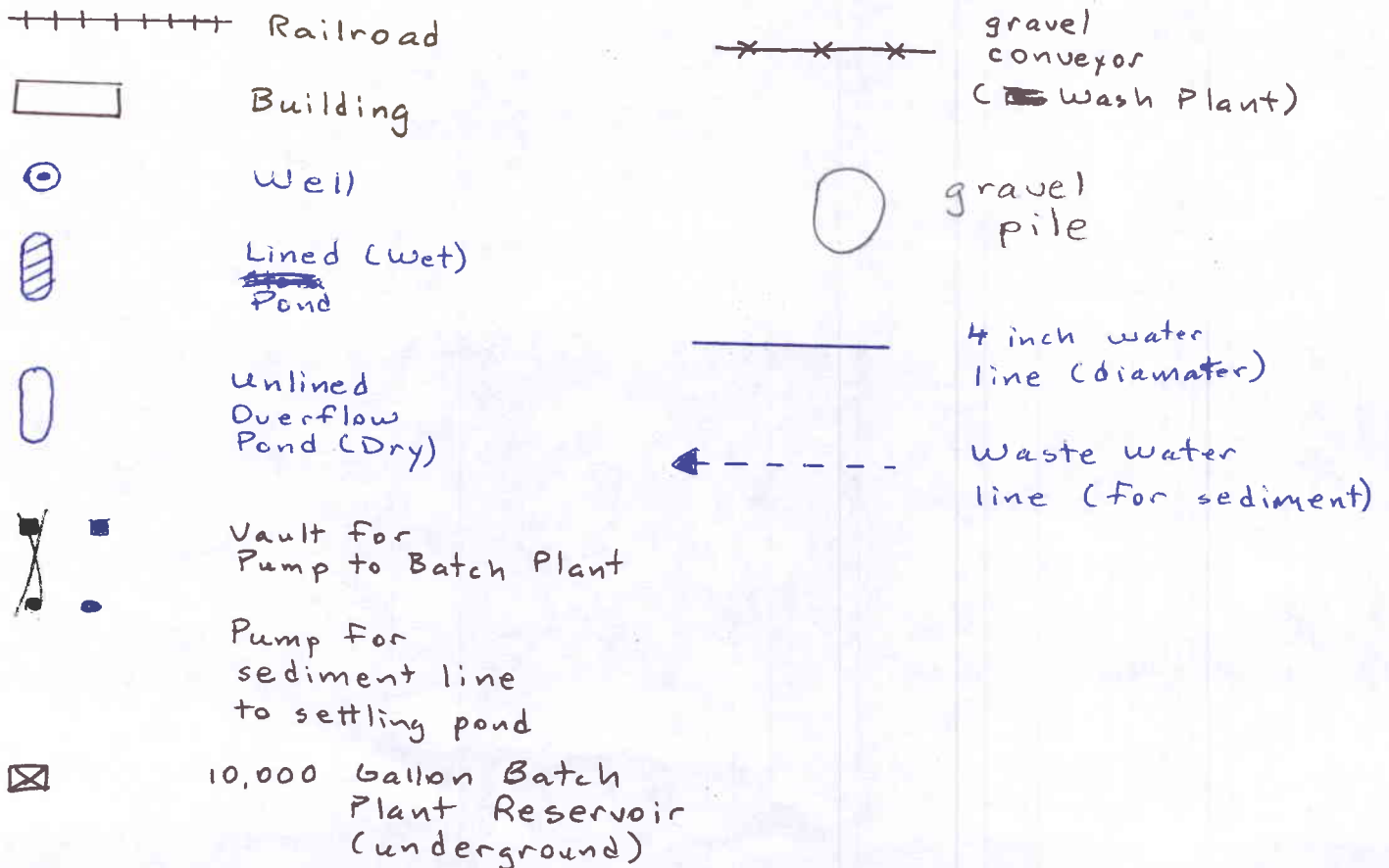
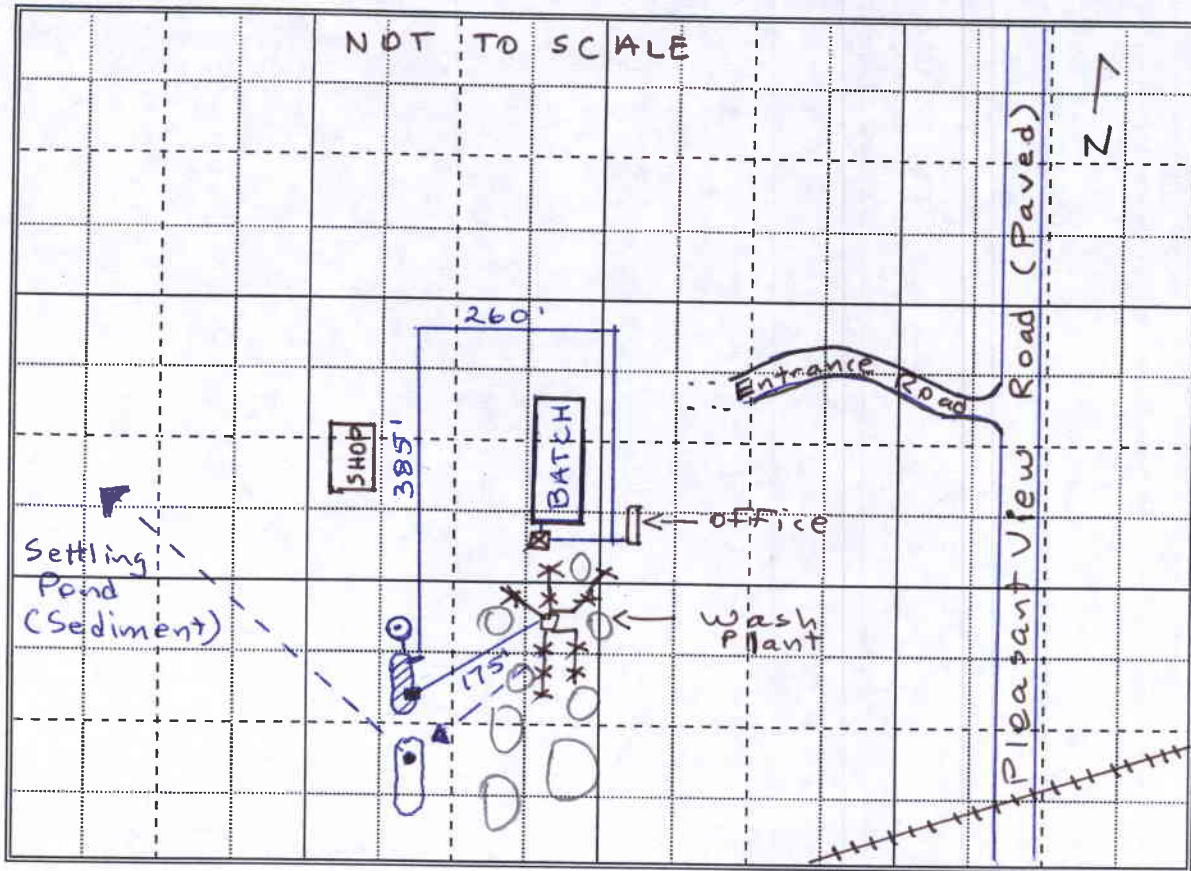
Reviewer

Michael

Date

10/29/07

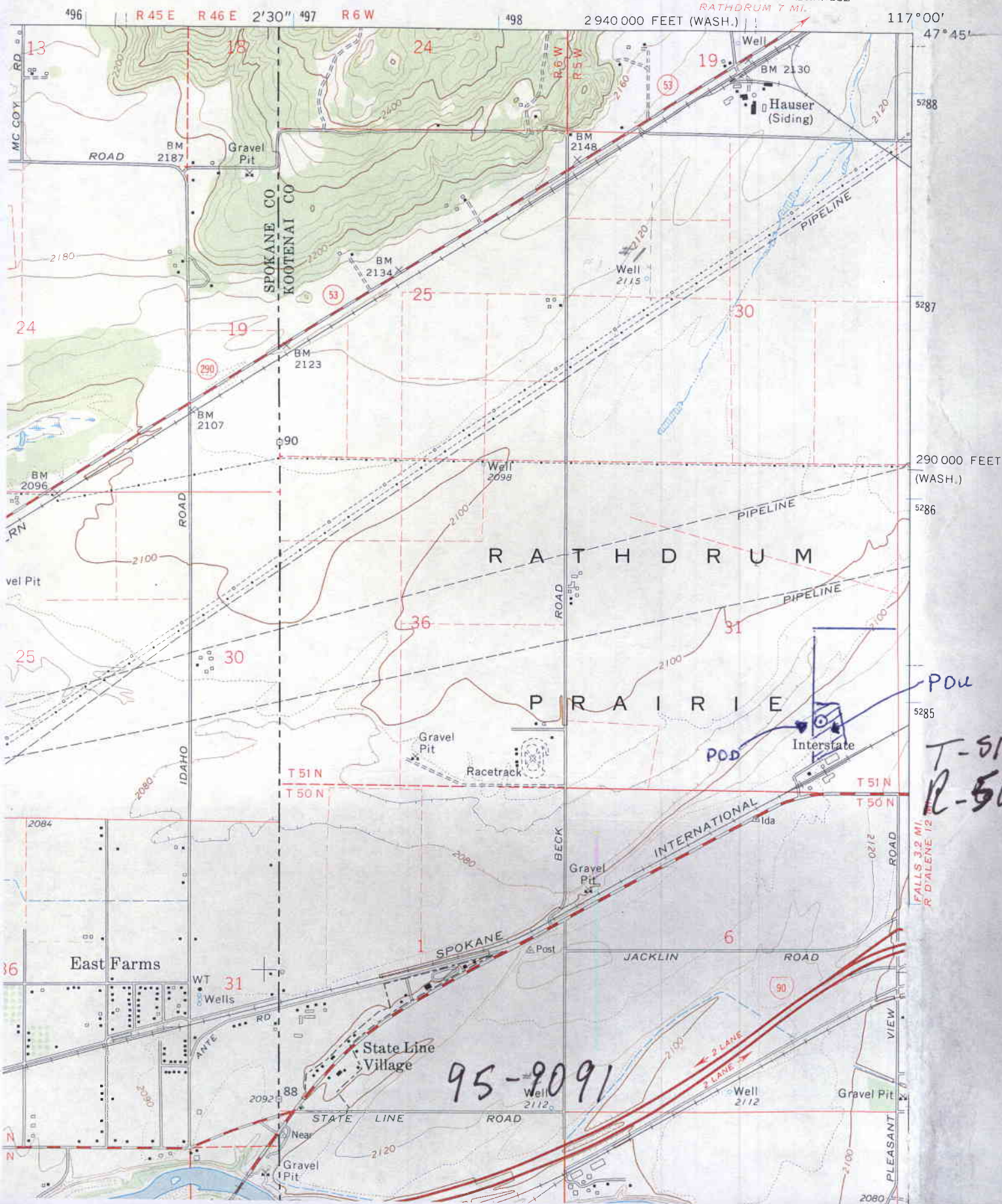
3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



LIBERTY LAKE QUADRANGLE
WASHINGTON-IDAHO
7.5 MINUTE SERIES (TOPOGRAPHIC)

NE/4 GREENACRES 15' QUADRANGLE
RATHDRUM 7 MI.

2679 IV SW
(RATHDRUM)



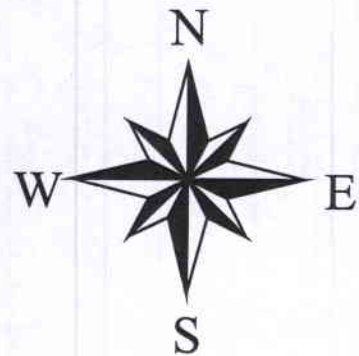
POU
POD
T-51N
R-5W
FALLS 3.2 MI.
R D'ALENE 12

95-9091

95-9091



- Kootenai taxlots
- GCDB51N05W GCDB
- GCDB50N05W GCDB
- Right POD
- Right POU
- Administrative BasinsAdminbas.shp

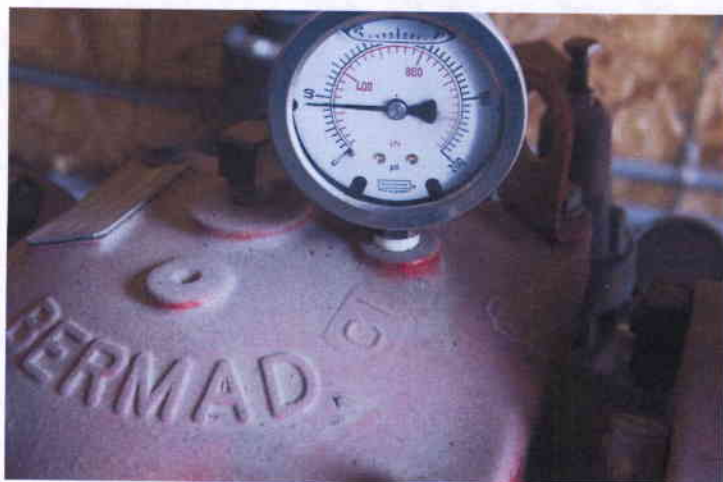




Production Well
Building with
irrigation/industrial
pond to left rear.
View ~~So~~ North to
South



Piping on top
of production well
for irrigation line
(175') to ~~Wash~~ Wash
plant & to Batch
Plant



Pressure Gauge on
top of well leading
to irrigation and
industrial use water
lines.

95-9091



Production
well (DØØ 17489)
& irrigation / industrial
pond.



wastewater line carrying
sediment from wash
plant to pump & line
leading to settling pond
#1



wastewater line carrying
sediment from wash plant
to pump & line leading to
settling pond
#2

95-9091



Data Plate for
Pressure Gauge



Top of 10,000
Gallon reservoir at
Batch Plant



Wash Plant &
gravel conveyors

95-9091



Production well
building



Wash Plant
&
conveyors ~~at~~ on
top of gravel
piles

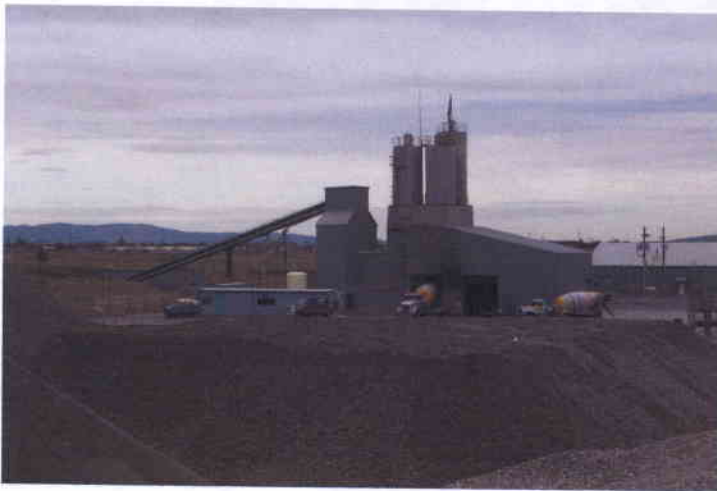


Batch
Plant

95-9091



Entrance Road



Batch Plant
View East to west
From entrance road

95-9091