

MEMORANDUM

April 12, 1972

TO: Mark Adams
FROM: Ron Devitt
SUBJECT: McRae Pack

On March 24, 1972 samples were taken from McRae Pack at Edison. The "treatment unit" consists of a tank used as a grease trap. Samples were taken of the influent and from the effluent pipe at the river. Grab samples were composited every 30 minutes at 1000 milliliters per sample. Grab samples were taken for greases and coliforms.

No effluent samples were secured until 1000 hours when it was discovered that the plug had been left out of the tank cleanout drain and the effluent had been discharging to a shallow ditch between the packing house and the river.

Field data indicate that for the parameters tested the character of the process water is not significantly altered; there is a decrease in temperature and the extreme variations are averaged out by mixing and detention time. No sulfides were detected; there is little organic decomposition because the trap is cleaned daily.

Laboratory data show that although there is a reduction in BOD, solids and greases, the effluent is still very gross. It is fortunate that this industry is a relatively small scale operation.

The monthly water usage reported on the permit application submitted to this agency is the only estimate of flow available since the city water meter had been broken and not repaired previous to this survey.

cc: Ron Pine

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DATA REPORT FORM

Location: McRae Pack @ Edison

Time	Influent				Station and Log number					Effluent
	°C T	pH	umhos/cm ² Cond.	Seattleable Solids-ppm	°C T	pH	umhos/cm ² Cond.	Seattleable Solids-ppm	H ₂ S ppm	
0800	20.5	7.4	650	Nil						
0830	23.7	7.6	650	Nil						
0900	18.0	7.6	900	---						
0930	21.8	7.4	750	Nil						
1000	23.0	7.4	450	---						
1030	21.4	6.8	1100	---	17.4	7.4	570	Nil	Nil	
1100	23.7	7.6	500	125	16.9	7.5	550	.1	Nil	
1130	21.2	7.3	550	10	16.2	7.6	500	---	---	
1200	22.8	7.3	550	---	18.2	7.5	500	---	---	

Lab. Results

ppm	Influent	Effluent
BOD	3510	2650
Total Solids	4806	3178
Total Nonvolitile Solids	376	330
Total Suspended Solids	1217	460
Total Nonvolitile Suspended Solids	79	2
Total Coliform		A 950,000
(Colonies/100 ml)		B 500,000
Grease	A 405	A 265
	B 2900	B 185

DEPARTMENT OF ECOLOGY

DANIEL J. EVANS
GOVERNORJOHN A. BIGGS
DIRECTORNorthwest Washington Regional Office
15345 NE 30th
Redmond, Wn 98052M E M O R A N D U M

TO: Pete Hildebrandt and Ron Pine.

FROM: Marc Adam

SUBJECT: SURVEY REQUEST - MCRUE PACK, INC., EDISON, WASHINGTON

DATE: March 2, 1972

I would like to request a survey be done on the above noted industry. This is a small beef slaughterhouse which has a relatively small volume of process water to dispose of, but has no readily available or economic means of land disposal. Thus, we would like to have further information regarding the strength and quantity of their waste in order to determine what further treatment to require in writing a new permit.

The industry is located in the town of Edison, Washington and currently has a discharge to the North Fork of the Samish River. This discharge originates in the kill room from floor and sink drains and passes through a "grease trap" outside the building before discharge. All blood, offal and paunch manure is collected separately for disposal on land.

The parameters we would like to have tested for and points of sampling are as follows: (see sketch)

Parameter	Sampling Point
Flow <i>meter</i>	
BOD (5 day) <i>comp.</i>	Effluent to River
Grease <i>grab (2)</i>	Influent to Grease Trap and Effluent to River
Sulfides <i>grab</i>	Effluent to River
Solids:	
Total Solids	Influent to Grease Trap and Effluent to River
Settleable Solids <i>grab</i>	Influent to Grease Trap and Effluent to River

*SA 3-24
W/IL*

March 2, 1972

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Memo to: Pete Hildebrandt
Ron Pine

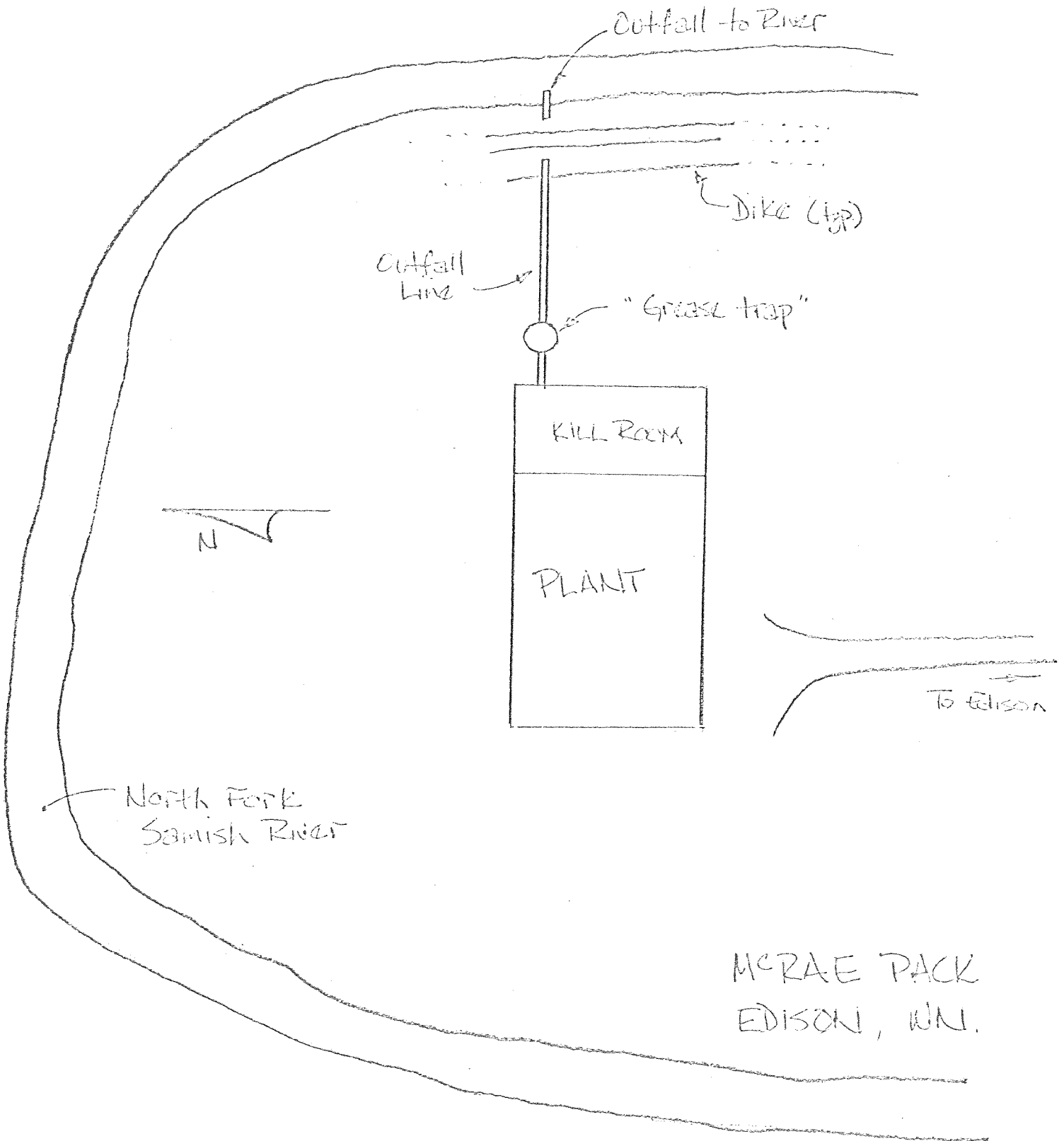
Suspended Solids

**Influent to Grease Trap and
Effluent to River**

Sampling should be composite over a kill day's operations. This company generally kills from 6:00 a.m. until noon on Thursday and Friday of each week, although there may be some variation in this schedule. A call to Mr. Alvin McRae (206-766-4141) ahead of the anticipated date would be advisable to confirm their operations. In addition, there is one other factor that would influence the sampling. This is the fact that sampling must be done during a low tide period (at least as far as this is practical) due to the fact that the outfall to the river is only exposed when the tide is low.

Please try to schedule this survey when time becomes available as there is no particular urgency.

MA:ja



Outfall to River

Dike (top)

Outfall Line

"Grease trap"

KILL ROOM

PLANT

N

To Edison

North Fork
Samish River

McRAE PACK
EDISON, W.N.I.