

MEMORANDUM

TO: Bob Bishop, Rhys Sterling, Phil Williams
FROM: Ron Pine
SUBJECT: Point Source Inventory
DATE: May 25, 1976

State of
Washington
Department
of Ecology



Enclosed is an updated point source inventory table for the Spokane River Basin CDA# 24, contained in the Spokane and Northeast Basins 303(e) Plan.

REP:ee

cc: Dale Tucker

ECY 010-33

INVENTORY AND CHARACTERISTICS OF POINT SOURCES DISCHARGING
TO SURFACE WATERS IN CPAN 24 AS OF APRIL, 1976

Table Z Inventory of Point Sources Discharging to Surface Waters in CPAN 24, April 1976

Segment	Name	Sample	Flow MGD (1)	BOD (1A) mg/l/θ/day	Susp. Solids mg/l/θ/day	pH	Temp (°C)	Cond umhos/cm	Coliform		NH3N (mg/l/θ/day)	NO3N (mg/l/θ/day)	OPO4P (mg/l/θ/day)	CO ₂ (mg/l)	Total Solids (mg/l)	Settle. Solids (ml/l)
									Total (no 100 ml)	Fecal (no 100 ml)						
INDUSTRIAL																
24-54-01	Ford Fish Hatchery (2)	NA (3)														
24-55-02	Kaiser Aluminum and Chemical (6)	Grab	2.82		0.11/2.6											
	(2)	NA		0.51/12 (7)		7.7	23.9 (7)		1,900	1,900						
	Spokane Fish Hatchery (2)	NA	0.432													
24-57-04	Inland Empire Paper Co. (2)	NA	4.8													
	Kaiser Aluminum and Chemical (4) (Trentwood)	5 hr comp (5)	F	<8.0/151	19/358	7.3		93			0.30/5.7	0.32/6.0	0.10/1.9	16	90 ppm	
		Grab (5)	2.26			7.0	9.2	110	1,400	25						
MUNICIPAL																
24-54-01	City of Spokane STP (8)	Comp-annual average	32.0	130/34710	65/17355	7.3	16.0		20,000	10,000	11.4/3044	0.69/184				
24-54-99	Medical Lake Lagoon (9)	8 hr comp (2)	0.525	29/127	128/561	10.6										
		Grab				10.3	21.5		<400 (no chlorination)	<400 (no chlorination)						
	Northwest Terrace STP (10)	24 hr comp	0.066	8/44	8/44						0.14/0.77	20/110	14.3/81.5	39.6	480	
		Grab				6.8	11.0	700	19	18						<0.10
	Spokane Industrial Park STP (11)	6 hr comp	<1.07	39/<348	58/<518	7.7		450			1.3/<11.6	1.3/<11.6	0.3/<2.7	74	334	
		Grab				7.5	8.0	550	18							<0.10
24-55-02	Deer Park STP (13)	8 hr comp	0.300	62/155	65/163	7.7		690						100	357	
		Grab	0.135			7.4	9.3		>40,000	>200	19/21.4					0.2
24-56-03	Tekoa STP (2)	NA	0.100													
24-56-99	Cheney Lagoons (14)	8 hr comp	0.600	227/1135	348/	9.5		570						650	786	
		Grab	0.600			9.2	25.8		<130,000 (no chlorination at time of sampling)	<4,300 (no chlorination at time of sampling)						<4.5
	Bockford Lagoon (15)	5 hr comp (2)	0.040	<16/5.28	23/7.59	7.7					0.24/0.08	3.20/1.06		70	336	
		Grab				7.5	13.5	500	<6,500 (no chlorination)	<250 (no chlorination)						0
	Fairfield Lagoon (16)	6 hr comp (2)	0.050	<20/8.4	22/9.24	7.6		690			6.3/2.6			70	399	
		Grab				7.3	2.3	400	<400	<200						0
24-57-04	Millwood Package Plant STP (12)	8 hr comp (2)	0.014	118/14.2	123/14.8	7.0		560						148	397	
		Grab	0.010			7.2	13.0	610	21,000	320	0.02/0.002	0.02/0.002				13.0

1. Average flow per day.
- 1A. BOD₅ - Standard five-day test.
2. DOE, Wastewater Discharge Inventory.
3. Information not available.
4. Averaged from monthly discharge reports 6-75 through 11-75.
5. Discharges 001 and 002 are presently combined in a lagoon prior to discharge to the Spokane River; data shown is for final wastewater effluent from the lagoon.
6. DOE, 1-30-74, 5 hr. efficiency survey.
7. DOE industrial fact sheet.
8. Kennedy-Tudor Consulting for Corps of Engineers, Metropolitan Spokane Region Water Resources Study, Vol. 5-5, Table 13, 1974.
9. DOE, 5-16-73, 8 hr. efficiency survey.
10. DOE, 3-6-74, efficiency survey.
11. DOE, 1-29-74, 6 hr. efficiency survey.
12. DOE, 5-22-74, 8 hr. efficiency survey.
13. DOE, 12-12-73, 8 hr. efficiency survey.
14. DOE, 5-15-73, 8 hr. efficiency survey.
15. DOE, 5-22-74, 5 hr. efficiency survey.
16. DOE, 12-11-73, 6 hr. efficiency survey.

Table 2 Point Source Inventory for CPAN 24, April 1976

CPAN WRIA Segment	Name	UCD No.	NPDES No.	Receiving Water	Type of Industry and Waste Treatment	Future Changes
<u>INDUSTRIAL</u>						
24-54-01	Ford Fish Hatchery	60584	WA-004500-4	Chamokane Creek, (Spokane River tributary)		
24-55-02	Kaiser Aluminum and Chemical (Mead Plant)	60660 60666	WA-000087-6	Peone Creek (Little Spokane River tributary)	Process water recycling, oil trap	
	Spokane Fish Hatchery	60661	WA-004504-7	Little Spokane River tributary		
24-57-04	Inland Empire Paper Co.	60590 60591	WA-000082-5	Spokane River	Settlement Mill Pond, Primary and thickener	
	Kaiser Aluminum and Chemical (Treatment Plant)	60593 60593 60594	WA-000089-2	Spokane River	Lagoon, digestion with secondary (trickling filter)	
<u>MUNICIPAL</u>						
24-54-01	City of Spokane STP	60602	WA-002447-3	Spokane River	Primary sedimentation	Secondary treatment with 85% phosphate removal, combined sewer overflow correction, and interceptor system expansion.
24-54-99	Medical Lake Lagoons	60630	WA-002114-8	Deep Creek (Spokane River tributary)	Digestion	Secondary treatment (type unknown) with chlorination
	Northwest Terrace STP	60634	WA-002448-1	Spokane River	Secondary (activated sludge)	
	Spokane Industrial Park SIP	60645	WA-000095-7	Spokane River	Secondary (oxidation ditch)	
24-55-02	Deer Park STP	60658	WA-002255-1	Dragoon Creek (Little Spokane River tributary)	Primary and secondary (trickling filter)	
24-56-03	Tekoa STP	60672	WA-002314-1	Hangman Creek	Secondary (trickling filter)	
24-56-99	Cheney Lagoons	60673	WA-002084-2	Queen Lucas Lake; in high runoff also to Marshall Creek, a tributary of Hangman Creek	Digestion	New chlorine contact chamber
	Rockford Lagoon	60677	WA-004483-1	Rock Creek, a tributary of Hangman Creek	Digestion	
24-57-04	Hillwood STP	60596	WA-002247-1	Spokane River	Partial secondary (oxigester) digestion and package plant treatment	Full secondary treatment with improved solids removal