

WASTE MANAGEMENT PLAN FOR ELECTORAL AREAS A, C, & D

APPENDIX TO STAGE ONE REPORT



Regional District of Okanagan Similkameen

prepared by:

T. R. UNDERWOOD ENGINEERING

ENGINEERING SERVICES DEPT.

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PHOSPHORUS TRANSMISSION FROM SEPTIC TANK EFFLUENT


1. Explanatory Notes

The map, "Phosphorus Transmission from Septic Tank Effluent" is computer derived from soil survey information contained in "Soils of the Okanagan and Similkameen Valleys" and from unpublished maps showing horizontal distance to water zones. The phosphorus transmission map provides a relative ranking of the soils with regard to steady state phosphorus transmission from septic tanks to receiving waters.

The algorithm for deriving the interpretations is patterned on the methodology described in the 1980 update of Nutrient Loadings from Non-point Sources prepared for the Okanagan Basin Implementation Agreement. The method was modified somewhat to make better use of the available computerized soil data base.

The soil characteristics evaluated in the vertical phosphorus transport model are: texture, depth to water table, depth to bedrock, depth to other restricting layers, soil coarse fragment content (by volume) and soil pH. Horizontal phosphorus transport is based on horizontal distance from surface water (lakes and streams). The logic and computer evaluation is described in "Septic Tank Composite Phosphorus Transmission" documentation.

2. Examples of Map Symbols

Example 1	ML	Phosphorus Transmission Class (Moderately Low in this example).
Example 2	X	X indicates no transmission class given due to no soil or distance to water information.
Example 3	NA	Non-applicable. A rating has not been determined since the area is a non-soil land type such as bedrock, made-land or gravel pits.
Example 4		Polygons with no labels do not meet the minimum size of 0.26 hectares. Indication of likely phosphorus transmission can be inferred from surrounding polygons.

3. Phosphorus Transmission Classes

Phosphorus transmission classes show the proportion of phosphorus leaving the septic tank, that is expected to reach receiving water (ie. main valley lakes).

SYMBOL	DESCRIPTOR	ESTIMATED PHOSPHORUS TRANSMISSION TO RECEIVING WATER
L	Low	0 to 5%
ML	Moderately Low	5 to 15%
M	Medium	15 to 30%
MH	Moderately High	30 to 50%
H	High	50 to 75%
VH	Very High	75 to 100%

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PRESENT FIGURES										PROJECTED FIGURES						
MAP	POLY	TRANSMISSION	POPULATION	PHOS. LOADING						POPULATION	PTANS	PHOS. LOADING				
SHEET	GON#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total
3	34	ml	10.0	160	0	16.0	0.00	0.0	16.0	246	0	10.0	24.6	0.00	0.0	24.6
3	35	mh	40.0	75	0	30.0	0.00	0.0	30.0	81	0	40.0	32.4	0.00	0.0	32.4
3	36	m	22.5	128	0	28.8	0.00	0.0	28.8	133	0	22.5	29.9	0.00	0.0	29.9
3	37	vh	87.5	29	0	25.4	0.00	0.0	25.4	35	0	87.5	30.6	0.00	0.0	30.6
3	38	vh	87.5	41	30	35.9	2.63	0.0	38.5	41	30	87.5	35.9	2.63	0.0	38.5
3	39	h	62.5	9	0	5.6	0.00	0.0	5.6	9	0	62.5	5.6	0.00	0.0	5.6
3	40	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1
3	41	ml	10.0	78	0	7.8	0.00	0.0	7.8	78	0	10.0	7.8	0.00	0.0	7.8
3	42	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3
3	43	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3
3	44	vh	87.5	6	0	5.3	0.00	0.0	5.3	6	0	87.5	5.3	0.00	0.0	5.3
3	45	h	62.5	0	0	0.0	0.00	0.0	0.0	0	0	62.5	0.0	0.00	0.0	0.0
3	46	m	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7
3	47	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6
3	48	mh	40.0	9	0	3.6	0.00	0.0	3.6	9	0	40.0	3.6	0.00	0.0	3.6
3	49	m	22.5	44	0	9.9	0.00	0.0	9.9	44	0	22.5	9.9	0.00	0.0	9.9
3	50	vh	87.5	20	240	17.5	21.00	0.0	38.5	20	240	87.5	17.5	21.00	0.0	38.5
3	51	h	62.5	64	0	40.0	0.00	0.0	40.0	162	0	62.5	101.3	0.00	0.0	101.3
3	55	h	62.5	0	0	0.0	0.00	0.0	0.0	0	0	62.5	0.0	0.00	0.0	0.0
3	56	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6
--TOTALS--				687	270	228.3	23.63	0.0	251.9	888	270		306.9	23.63	0.0	330.5

South East Sector - Osoyoos Rural Area

		PRESENT FIGURES PRESENT								PROJECTED FIGURES PROJECTED							
MAP	POLY	PTRANSMISSION	POPULATION		PHOS. LOADING				POPULATION	PTRANS	PHOS. LOADING						
SHEET	GON#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total	
3	1	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3	
3	2	l	2.5	44	0	1.1	0.00	0.0	1.1	61	0	2.5	1.5	0.00	0.0	1.5	
3	3	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3	
3	4	mh	40.0	17	0	6.8	0.00	0.0	6.8	17	0	40.0	6.8	0.00	0.0	6.8	
3	5	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6	
3	6	m	22.5	9	422	2.0	9.50	0.0	11.5	9	422	22.5	2.0	9.50	0.0	11.5	
3	7	m	22.5	0	694	0.0	15.62	0.0	15.6	0	694	22.5	0.0	15.62	0.0	15.6	
3	8	ml	10.0	12	0	1.2	0.00	0.0	1.2	12	0	10.0	1.2	0.00	0.0	1.2	
3	9	h	62.5	0	0	0.0	0.00	0.0	0.0	0	0	62.5	0.0	0.00	0.0	0.0	
3	10	vh	87.5	17	0	14.9	0.00	0.0	14.9	26	0	87.5	22.8	0.00	0.0	22.8	
3	11	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9	
3	12	mh	40.0	0	0	0.0	0.00	0.0	0.0	0	0	40.0	0.0	0.00	0.0	0.0	
3	13	ml	10.0	41	304	4.1	3.04	0.0	7.1	41	304	10.0	4.1	3.04	0.0	7.1	
3	14	vh	87.5	15	0	13.1	0.00	0.0	13.1	33	0	87.5	28.9	0.00	0.0	28.9	
3	15	h	62.5	0	0	0.0	0.00	0.0	0.0	0	0	62.5	0.0	0.00	0.0	0.0	
3	16	mh	40.0	17	0	6.8	0.00	0.0	6.8	17	0	40.0	6.8	0.00	0.0	6.8	
3	17	l	2.5	354	544	8.9	1.36	0.0	10.2	397	544	2.5	9.9	1.36	0.0	11.3	
3	18	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9	
3	19	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6	
3	20	ml	10.0	15	360	1.5	3.60	0.0	5.1	15	360	10.0	1.5	3.60	0.0	5.1	
3	54	m	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4	
--TOTALS--				571	2324	67.3	33.11	0.0	100.4	658	2324		92.4	33.11	0.0	125.5	

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PRESENT FIGURES										PROJECTED FIGURES						
MAP	POLY	PTRANSMISSION	POPULATION		PHOS. LOADING				POPULATION		PTRANS	PHOS. LOADING				
SHEET	60N#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total
3	20	m	22.5	46	256	10.4	5.76	0.0	16.1	46	256	22.5	10.4	5.76	0.0	16.1
3	21	ml	10.0	12	0	1.2	0.00	0.0	1.2	12	0	10.0	1.2	0.00	0.0	1.2
3	22	ml	10.0	26	0	2.6	0.00	0.0	2.6	26	0	10.0	2.6	0.00	0.0	2.6
3	23	ml	10.0	44	0	4.4	0.00	0.0	4.4	44	0	10.0	4.4	0.00	0.0	4.4
3	24	l	2.5	238	0	6.0	0.00	0.0	6.0	325	0	2.5	8.1	0.00	0.0	8.1
3	25	ml	10.0	21	0	2.1	0.00	0.0	2.1	21	0	10.0	2.1	0.00	0.0	2.1
3	26	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6
3	27	vh	87.5	15	0	13.1	0.00	20.3	33.4	15	0	87.5	13.1	0.00	20.3	33.4
3	28	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9
3	29	ml	10.0	154	0	15.4	0.00	0.0	15.4	183	0	10.0	18.3	0.00	0.0	18.3
3	30	ml	10.0	52	0	5.2	0.00	0.0	5.2	52	0	10.0	5.2	0.00	0.0	5.2
3	31	ml	10.0	0	0	0.0	0.00	0.0	0.0	0	0	10.0	0.0	0.00	0.0	0.0
3	32	h	62.5	32	0	20.0	0.00	0.0	20.0	41	0	62.5	25.6	0.00	0.0	25.6
3	33	m	22.5	61	0	13.7	0.00	0.0	13.7	61	0	22.5	13.7	0.00	0.0	13.7
--TOTALS--				710	256	96.5	5.76	20.3	122.6	835	256		107.2	5.76	20.3	133.3

South Oliver Extended Fringe - Electoral Area C Table A-4

:: PRESENT FIGURES PRESENT FIGURES PRESENT FIGURES PRESENT FIGURES :: PROJECTED FIGURES PROJECTED FIGURES PROJECTED

MAP SHEET	POLY GDN#	TRANSMISSION RATING	POPULATION				PHOS. LOADING				POPULATION				PHOS. LOADING			
			perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total			
13	1	m	22.5	0	0	0.0	0.00	0.0	0.0	0	0	22.5	0.0	0.00	0.0	0.0		
13	2	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6		
13	3	ml	10.0	32	0	3.2	0.00	0.0	3.2	32	0	10.0	3.2	0.00	0.0	3.2		
13	4	mh	40.0	3	0	1.2	0.00	0.0	1.2	3	0	40.0	1.2	0.00	0.0	1.2		
13	5	m	22.5	0	0	0.0	0.00	0.0	0.0	0	0	22.5	0.0	0.00	0.0	0.0		
13	6	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8		
13	7	h	62.5	0	0	0.0	0.00	0.0	0.0	0	0	62.5	0.0	0.00	0.0	0.0		
13	8	mh	40.0	6	0	2.4	0.00	0.0	2.4	6	0	40.0	2.4	0.00	0.0	2.4		
13	9	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9		
13	10	m	22.5	38	0	8.6	0.00	0.0	8.6	52	0	22.5	11.7	0.00	0.0	11.7		
13	11	mh	40.0	6	0	2.4	0.00	0.0	2.4	6	0	40.0	2.4	0.00	0.0	2.4		
13	12	h	62.5	9	0	5.6	0.00	0.0	5.6	9	0	62.5	5.6	0.00	0.0	5.6		
13	13	mh	40.0	15	0	6.0	0.00	0.0	6.0	15	0	40.0	6.0	0.00	0.0	6.0		
13	14	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6		
13	15	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8		
13	16	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1		
13	17	m	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4		
13	18	m	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4		
13	19	ml	10.0	87	0	8.7	0.00	0.0	8.7	101	0	10.0	10.1	0.00	0.0	10.1		
13	20	l	2.5	6	0	0.2	0.00	0.0	0.2	6	0	2.5	0.2	0.00	0.0	0.2		
13	21	l	2.5	0	0	0.0	0.00	0.0	0.0	0	0	2.5	0.0	0.00	0.0	0.0		
13	22	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3		
13	23	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6		
13	24	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1		
13	25	m	22.5	12	0	2.7	0.00	0.0	2.7	12	0	22.5	2.7	0.00	0.0	2.7		
13	26	m	22.5	29	0	6.5	0.00	0.0	6.5	44	0	22.5	9.9	0.00	0.0	9.9		
13	27	l	2.5	15	0	0.4	0.00	0.0	0.4	15	0	2.5	0.4	0.00	0.0	0.4		
13	28	h	62.5	12	0	7.5	0.00	0.0	7.5	12	0	62.5	7.5	0.00	0.0	7.5		
13	29	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6		
13	30	ml	10.0	0	0	0.0	0.00	0.0	0.0	0	0	10.0	0.0	0.00	0.0	0.0		
13	31	m	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4		
13	32	l	2.5	0	0	0.0	0.00	0.0	0.0	0	0	2.5	0.0	0.00	0.0	0.0		
13	33	ml	10.0	0	0	0.0	0.00	0.0	0.0	0	0	10.0	0.0	0.00	0.0	0.0		
13	34	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1		
13	35	ml	10.0	24	0	2.4	0.00	0.0	2.4	38	0	10.0	3.8	0.00	0.0	3.8		
13	36	l	2.5	0	0	0.0	0.00	0.0	0.0	0	0	2.5	0.0	0.00	0.0	0.0		
13	37	m	22.5	223	0	50.2	0.00	0.0	50.2	296	0	22.5	66.6	0.00	0.0	66.6		
13	38	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9		
13	39	m	22.5	0	0	0.0	0.00	0.0	0.0	0	0	22.5	0.0	0.00	0.0	0.0		
13	40	h	62.5	15	0	9.4	0.00	0.0	9.4	15	0	62.5	9.4	0.00	0.0	9.4		
13	41	ml	10.0	26	0	2.6	0.00	0.0	2.6	26	0	10.0	2.6	0.00	0.0	2.6		
13	42	vh	87.5	6	0	5.3	0.00	0.0	5.3	6	0	87.5	5.3	0.00	0.0	5.3		
13	43	h	62.5	9	0	5.6	0.00	0.0	5.6	9	0	62.5	5.6	0.00	0.0	5.6		
13	44	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8		
13	45	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6		
13	46	h	62.5	0	0	0.0	0.00	0.0	0.0	0	0	62.5	0.0	0.00	0.0	0.0		
13	47	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1		
13	48	ml	10.0	551	120	55.1	1.20	0.0	56.3	667	120	10.0	66.7	1.20	0.0	67.9		
13	49	m	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7		
13	50	m	22.5	9	0	2.0	0.00	0.0	2.0	9	0	22.5	2.0	0.00	0.0	2.0		
13	51	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1		
13	52	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3		
13	53	m	22.5	46	0	10.4	0.00	0.0	10.4	46	0	22.5	10.4	0.00	0.0	10.4		
13	54	l	2.5	81	0	2.0	0.00	0.0	2.0	96	0	2.5	2.4	0.00	0.0	2.4		
--TOTALS--			1347	120	230.0	1.20	0.0	231.2	1608	120	267.7	1.20	0.0	268.9				

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PRESENT FIGURES										PROJECTED FIGURES						
MAP	POLY	PTRANSMISSION	POPULATION		PHOS. LOADING				POPULATION	PTRANS	PHOS. LOADING					
SHEET	GDN#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total
13	5	vh	87.5	20	0	17.5	0.00	0.0	17.5	20	0	87.5	17.5	0.00	0.0	17.5
13	56	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9
13	57	h	62.5	99	0	61.9	0.00	0.0	61.9	142	0	62.5	88.8	0.00	0.0	88.8
13	58	mh	40.0	6	0	2.4	0.00	0.0	2.4	6	0	40.0	2.4	0.00	0.0	2.4
13	59	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6
13	60	vh	87.5	6	0	5.3	0.00	0.0	5.3	6	0	87.5	5.3	0.00	0.0	5.3
13	61	m	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7
13	62	m	22.5	20	0	4.5	0.00	0.0	4.5	20	0	22.5	4.5	0.00	0.0	4.5
13	63	h	62.5	29	0	18.1	0.00	0.0	18.1	29	0	62.5	18.1	0.00	0.0	18.1
13	64	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6
13	65	h	62.5	6	6	3.8	0.38	0.0	4.1	6	6	62.5	3.8	0.38	0.0	4.1
13	66	vh	87.5	38	0	33.3	0.00	0.0	33.3	52	0	87.5	45.5	0.00	0.0	45.5
13	67	m	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7
13	68	mh	40.0	3	0	1.2	0.00	0.0	1.2	3	0	40.0	1.2	0.00	0.0	1.2
13	69	l	2.5	46	0	1.2	0.00	0.0	1.2	46	0	2.5	1.2	0.00	0.0	1.2
13	70	m	22.5	81	0	18.2	0.00	0.0	18.2	81	0	22.5	18.2	0.00	0.0	18.2
13	71	vh	87.5	9	0	7.9	0.00	0.0	7.9	9	0	87.5	7.9	0.00	0.0	7.9
13	72	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8
13	73	mh	40.0	6	0	2.4	0.00	0.0	2.4	6	0	40.0	2.4	0.00	0.0	2.4
13	74	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6
--TOTALS--				396	6	190.3	0.38	0.0	190.7	453	6		229.5	0.38	0.0	229.8

tlakel - report

PRESENT FIGURES PRESENT FIGURES PRESENT FIGURES PRESENT										PROJECTED FIGURES PROJECTED FIGURES PROJECTED						
MAP	POLY	TRANSMISSION	POPULATION			PHOS. LOADING				POPULATION	PTRANS	PHOS. LOADING				
SHEET	60N#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total
13	81	m	22.5	32	0	7.2	0.00	0.0	7.2	32	0	22.5	7.2	0.00	0.0	7.2
13	82	l	2.5	409	0	10.2	0.00	0.0	10.2	815	0	2.5	20.4	0.00	0.0	20.4
13	83	ml	10.0	333	0	33.3	0.00	0.0	33.3	333	0	10.0	33.3	0.00	0.0	33.3
13	84	m	22.5	58	0	13.1	0.00	0.0	13.1	145	0	22.5	32.6	0.00	0.0	32.6
13	85	vh	87.5	101	580	88.4	50.75	0.0	139.1	145	580	87.5	126.9	50.75	0.0	177.6
13	86	h	62.5	93	0	58.1	0.00	0.0	58.1	93	0	62.5	58.1	0.00	0.0	58.1
13	87	m	22.5	0	0	0.0	0.00	0.0	0.0	0	0	22.5	0.0	0.00	0.0	0.0
13	88	mh	40.0	0	0	0.0	0.00	0.0	0.0	0	0	40.0	0.0	0.00	0.0	0.0
13	89	m	22.5	32	0	7.2	0.00	0.0	7.2	61	0	22.5	13.7	0.00	0.0	13.7
13	90	m	22.5	9	0	2.0	0.00	0.0	2.0	9	0	22.5	2.0	0.00	0.0	2.0
13	91	m	22.5	15	0	3.4	0.00	0.0	3.4	15	0	22.5	3.4	0.00	0.0	3.4
13	12	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8
--TOTALS--				1088	580	226.6	50.75	0.0	277.4	1654	580		301.4	50.75	0.0	352.1

noliv1 - report

PRESENT FIGURES										PROJECTED FIGURES						
MAP	POLY	PTRANSMISSION	POPULATION			PHOS. LOADING				POPULATION	PTRANS	PHOS. LOADING				
SHEET	CON#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total
13	1	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8
13	2	m	22.5	15	0	3.4	0.00	0.0	3.4	15	0	22.5	3.4	0.00	0.0	3.4
13	3	m	22.5	55	0	12.4	0.00	0.0	12.4	93	0	22.5	20.9	0.00	0.0	20.9
13	4	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9
13	5	m	22.5	0	0	0.0	0.00	0.0	0.0	0	0	22.5	0.0	0.00	0.0	0.0
13	6	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6
13	7	ml	10.0	177	0	17.7	0.00	0.0	17.7	177	0	10.0	17.7	0.00	0.0	17.7
13	8	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3
13	9	m	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7
13	10	m	22.5	17	0	3.8	0.00	0.0	3.8	17	0	22.5	3.8	0.00	0.0	3.8
13	11	ml	10.0	64	0	6.4	0.00	0.0	6.4	64	0	10.0	6.4	0.00	0.0	6.4
13	12	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6
13	13	m	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7
13	14	mh	40.0	0	0	0.0	0.00	0.0	0.0	0	0	40.0	0.0	0.00	0.0	0.0
13	15	h	62.5	73	0	45.6	0.00	0.0	45.6	191	0	62.5	119.4	0.00	0.0	119.4
13	16	m	22.5	58	0	13.1	0.00	0.0	13.1	191	0	22.5	43.0	0.00	0.0	43.0
13	17	mh	40.0	6	0	2.4	0.00	0.0	2.4	6	0	40.0	2.4	0.00	0.0	2.4
13	18	m	22.5	23	0	5.2	0.00	0.0	5.2	23	0	22.5	5.2	0.00	0.0	5.2
13	19	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8
13	20	mh	40.0	20	0	8.0	0.00	0.0	8.0	20	0	40.0	8.0	0.00	0.0	8.0
13	21	vh	87.5	17	0	14.9	0.00	0.0	14.9	17	0	87.5	14.9	0.00	0.0	14.9
13	22	m	22.5	15	0	3.4	0.00	0.0	3.4	15	0	22.5	3.4	0.00	0.0	3.4
13	23	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1
13	24	ml	10.0	15	0	1.5	0.00	0.0	1.5	15	0	10.0	1.5	0.00	0.0	1.5
13	25	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1
13	26	m	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4
13	27	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6
13	28	mh	40.0	55	0	22.0	0.00	0.0	22.0	55	0	40.0	22.0	0.00	0.0	22.0
13	29	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3
13	30	m	22.5	67	0	15.1	0.00	0.0	15.1	67	0	22.5	15.1	0.00	0.0	15.1
13	31	l	2.5	15	0	0.4	0.00	0.0	0.4	15	0	2.5	0.4	0.00	0.0	0.4
--TOTALS--				743	0	193.8	0.00	0.0	193.8	1032	0		306.0	0.00	0.0	306.0

Gallagher Lake Area - Electoral Area C

Table A-8

FILENAME gallk2

Gallagher Lake Area - Revised Information for the Final Stage One Report

PRESENT FIGURES										PROJECTED FIGURES						
SHEET	POLY	TRANSMISSION	POPULATION	PHOS. LOADING						POPULATION		PTRANS	PHOS. LOADING			
				%trans	perm	seas	perm	seas	other	total	perm		seas	%	perm	seas
3	32	h	62.5	4	372	2.5	23.25	0.0	25.8	8	372	62.5	5.0	23.25	0.0	28.3
3	33	mh	40.0	6	210	2.4	8.40	0.0	10.8	10	210	40.0	4.0	8.40	0.0	12.4
3	34	m	22.5	4	0	0.9	0.00	0.0	0.9	4	0	22.5	0.9	0.00	0.0	0.9
3	35	m	22.5	100	30	22.5	0.68	1.1	24.3	200	30	22.5	45.0	0.68	1.1	46.8
3	36	ml	10.0	58	0	5.8	0.00	0.0	5.8	138	0	10.0	13.8	0.00	0.0	13.8
3	37	mh	40.0	40	0	16.0	0.00	0.0	16.0	40	0	40.0	16.0	0.00	0.0	16.0
3	38	h	62.5	12	0	7.5	0.00	0.0	7.5	12	300	62.5	7.5	18.75	0.0	26.3
3	39	mh	40.0	0	0	0.0	0.00	0.0	0.0	0	0	40.0	0.0	0.00	0.0	0.0
--TOTALS--				224	612	57.6	32.33	1.1	91.0	412	912		92.2	51.08	1.1	144.4

vaslki - report

PRESENT FIGURES PRESENT FIGURES PRESENT FIGURES PRESENT										PROJECTED FIGURES PROJECTED FIGURES PROJECTED						
MAP	POLY	PTRANSMISSION	POPULATION	PHOS. LOADING						POPULATION	PTRANS	PHOS. LOADING				
SHEET	GON#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total
23	40	a	22.5	23	0	5.2	0.00	0.0	5.2	38	0	22.5	8.6	0.00	0.0	8.6
23	41	h	62.5	133	36	83.1	2.25	0.0	85.4	133	36	62.5	83.1	2.25	0.0	85.4
23	42	ml	10.0	17	0	1.7	0.00	0.0	1.7	17	0	10.0	1.7	0.00	0.0	1.7
23	43	a	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7
23	44	h	62.5	81	186	50.6	11.63	0.0	62.3	96	186	62.5	60.0	11.63	0.0	71.6
23	45	a	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7
23	46	mh	40.0	6	0	2.4	0.00	0.0	2.4	6	0	40.0	2.4	0.00	0.0	2.4
23	47	a	22.5	20	0	4.5	0.00	0.0	4.5	20	0	22.5	4.5	0.00	0.0	4.5
--TOTALS--				286	222	148.9	13.88	0.0	162.8	316	222		161.6	13.88	0.0	175.5

okfall - report

PRESENT FIGURES PRESENT FIGURES PRESENT FIGURES PRESENT										PROJECTED FIGURES			PROJECTED FIGURES			PROJECTED		
MAP	POLY	PTRANSMISSION	POPULATION			PHOS. LOADING				POPULATION		PTRANS	PHOS. LOADING					
SHEET	GON#	RATING	Xtrans	per	seas	per	seas	other	total	per	seas	%	per	seas	other	total		
33	1	n	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7		
33	2	l	2.5	15	0	0.4	0.00	0.0	0.4	15	0	2.5	0.4	0.00	0.0	0.4		
33	3	nl	10.0	104	0	10.4	0.00	0.0	10.4	148	0	10.0	14.8	0.00	0.0	14.8		
33	4	l	2.5	6	0	0.2	0.00	0.0	0.2	6	0	2.5	0.2	0.00	0.0	0.2		
33	5	n	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4		
33	6	nl	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3		
33	7	n	22.5	12	0	2.7	0.00	0.0	2.7	12	0	22.5	2.7	0.00	0.0	2.7		
33	8	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9		
33	9	vh	87.5	0	0	0.0	0.00	0.0	0.0	0	0	87.5	0.0	0.00	0.0	0.0		
33	10	nh	40.0	6	0	2.4	0.00	0.0	2.4	6	0	40.0	2.4	0.00	0.0	2.4		
33	11	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6		
33	12	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6		
33	13	n	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7		
33	14	h	62.5	3	0	1.9	0.00	0.0	1.9	17	0	62.5	10.6	0.00	0.0	10.6		
33	15	n	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7		
33	16	nh	40.0	32	0	12.8	0.00	0.0	12.8	32	0	40.0	12.8	0.00	0.0	12.8		
33	17	h	62.5	9	0	5.6	0.00	0.0	5.6	9	0	62.5	5.6	0.00	0.0	5.6		
33	18	n	22.5	0	0	0.0	0.00	0.0	0.0	0	0	22.5	0.0	0.00	0.0	0.0		
33	19	nl	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3		
33	20	n	22.5	9	0	2.0	0.00	0.0	2.0	9	0	22.5	2.0	0.00	0.0	2.0		
33	21	nl	10.0	9	0	0.9	0.00	0.0	0.9	9	0	10.0	0.9	0.00	0.0	0.9		
33	22	h	62.5	9	0	5.6	0.00	0.0	5.6	9	0	62.5	5.6	0.00	0.0	5.6		
33	23	n	22.0	3	0	0.7	0.00	0.0	0.7	3	0	22.0	0.7	0.00	0.0	0.7		
33	24	n	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7		
33	25	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9		
--TOTALS--				253	0	59.2	0.00	0.0	59.2	311	0		72.3	0.00	0.0	72.3		

skel - report

PRESENT FIGURES										PROJECTED FIGURES						
MAP	POLY	PTRANSMISSION	POPULATION			PHOS. LOADING				POPULATION	PTRANS	PHOS. LOADING				
SHEET	GON#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total
33	30	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6
33	31	h	62.5	32	0	20.0	0.00	0.0	20.0	32	0	62.5	20.0	0.00	0.0	20.0
33	32	vh	87.5	49	0	42.9	0.00	0.0	42.9	64	0	87.5	56.0	0.00	0.0	56.0
33	33	h	62.5	9	0	5.6	0.00	0.0	5.6	23	0	62.5	14.4	0.00	0.0	14.4
33	34	mh	40.0	12	0	4.8	0.00	0.0	4.8	12	0	40.0	4.8	0.00	0.0	4.8
33	35	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1
33	36	m	22.5	97	0	21.8	0.00	0.0	21.8	232	0	22.5	52.2	0.00	0.0	52.2
33	37	ml	10.0	9	0	0.9	0.00	0.0	0.9	9	0	10.0	0.9	0.00	0.0	0.9
33	38	mh	40.0	61	0	24.4	0.00	0.0	24.4	90	0	40.0	36.0	0.00	0.0	36.0
33	39	mh	40.0	29	0	11.6	0.00	0.0	11.6	29	0	40.0	11.6	0.00	0.0	11.6
33	40	l	2.5	6	0	0.2	0.00	0.0	0.2	6	0	2.5	0.2	0.00	0.0	0.2
33	41	h	62.5	23	0	14.4	0.00	0.0	14.4	23	0	62.5	14.4	0.00	0.0	14.4
33	42	h	62.5	15	0	9.4	0.00	0.0	9.4	15	0	62.5	9.4	0.00	0.0	9.4
--TOTALS--				348	0	158.6	0.00	0.0	158.6	541	0		222.5	0.00	0.0	222.5

kaldnl - report

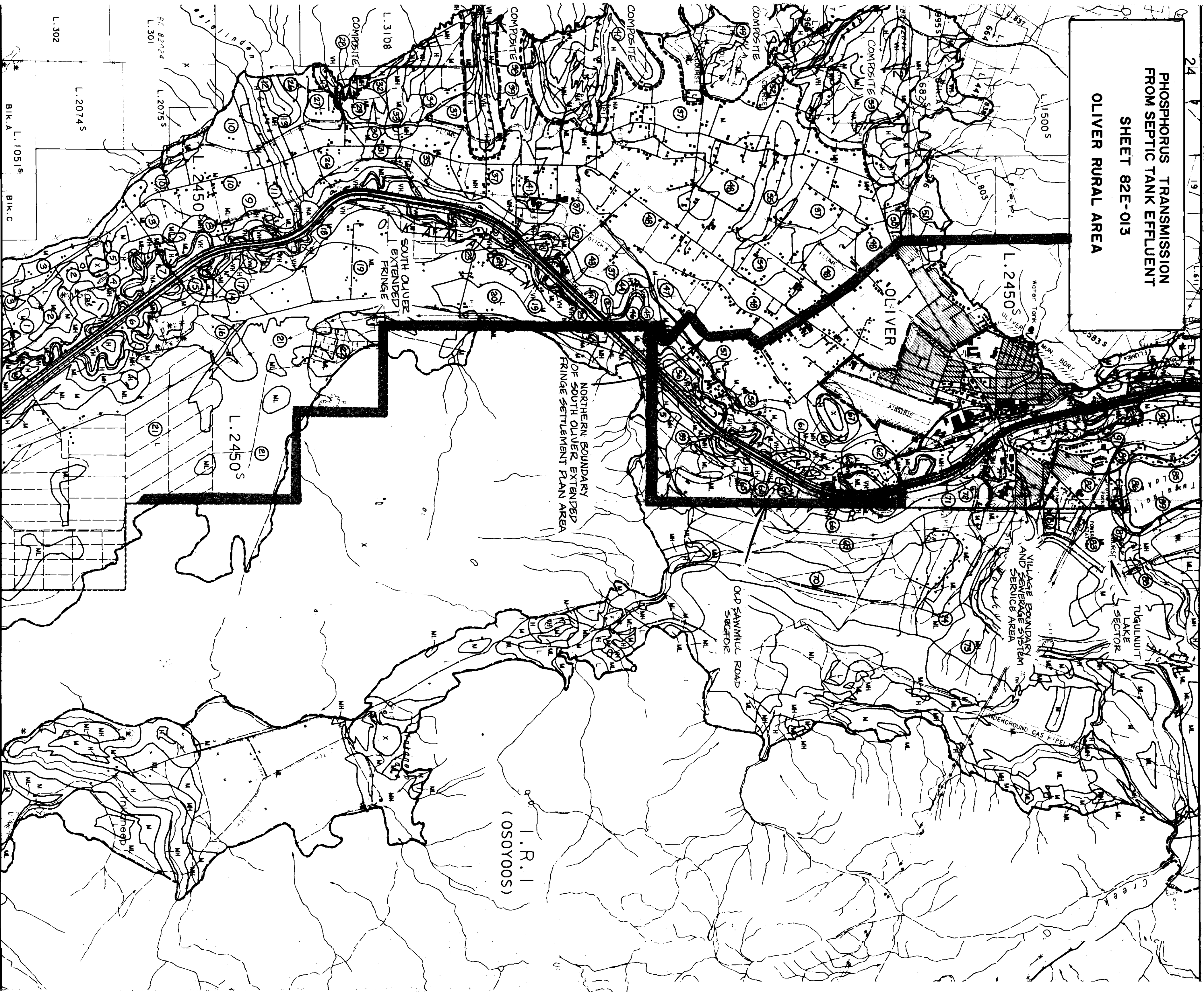
PRESENT FIGURES										PROJECTED FIGURES							
MAP	POLY	TRANSMISSION	POPULATION		PHOS. LOADING				POPULATION	TRANSMISSION	PHOS. LOADING						
SHEET	GOM#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total	
33	50	m	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4	
33	51	l	2.5	3	0	0.1	0.00	0.0	0.1	3	0	2.5	0.1	0.00	0.0	0.1	
33	52	l	2.5	6	0	0.2	0.00	0.0	0.2	6	0	2.5	0.2	0.00	0.0	0.2	
33	53	vh	87.5	3	0	2.6	0.00	0.0	2.6	3	0	87.5	2.6	0.00	0.0	2.6	
33	54	vh	87.5	0	0	0.0	0.00	0.0	0.0	0	0	87.5	0.0	0.00	0.0	0.0	
33	55	vh	87.5	0	0	0.0	0.00	0.0	0.0	0	0	87.5	0.0	0.00	0.0	0.0	
33	56	ml	10.0	0	0	0.0	0.00	0.0	0.0	174	0	10.0	17.4	0.00	0.0	17.4	
33	57	m	22.5	15	0	3.4	0.00	0.0	3.4	15	0	22.5	3.4	0.00	0.0	3.4	
33	58	ml	10.0	20	0	2.0	0.00	0.0	2.0	64	0	10.0	6.4	0.00	0.0	6.4	
33	59	m	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7	
33	60	vh	87.5	70	72	61.3	6.30	0.0	67.6	70	72	87.5	61.3	6.30	0.0	67.6	
33	61	vh	87.5	6	0	5.3	0.00	0.0	5.3	6	0	87.5	5.3	0.00	0.0	5.3	
33	62	h	62.5	12	0	7.5	0.00	0.0	7.5	12	0	62.5	7.5	0.00	0.0	7.5	
33	63	vh	87.5	49	0	42.9	0.00	0.0	42.9	49	0	87.5	42.9	0.00	0.0	42.9	
33	64	ml	10.0	183	0	18.3	0.00	0.0	18.3	508	0	10.0	50.8	0.00	0.0	50.8	
33	65	l	2.5	9	0	0.2	0.00	0.0	0.2	9	0	2.5	0.2	0.00	0.0	0.2	
33	66	m	22.5	23	0	5.2	0.00	0.0	5.2	23	0	22.5	5.2	0.00	0.0	5.2	
33	67	l	2.5	78	45	2.0	0.11	0.0	2.1	290	45	2.5	7.3	0.11	0.0	7.4	
33	68	m	22.5	38	0	8.6	0.00	0.0	8.6	38	0	22.5	8.6	0.00	0.0	8.6	
33	69	mh	40.0	3	0	1.2	0.00	0.0	1.2	3	0	40.0	1.2	0.00	0.0	1.2	
33	70	ml	10.0	44	0	4.4	0.00	0.0	4.4	44	0	10.0	4.4	0.00	0.0	4.4	
33	71	m	22.5	15	0	3.4	0.00	0.0	3.4	15	0	22.5	3.4	0.00	0.0	3.4	
33	72	vh	87.5	0	0	0.0	0.00	0.0	0.0	0	0	87.5	0.0	0.00	0.0	0.0	
33	73	ml	10.0	17	0	1.7	0.00	0.0	1.7	17	0	10.0	1.7	0.00	0.0	1.7	
33	74	l	2.5	12	0	0.3	0.00	0.0	0.3	12	0	2.5	0.3	0.00	0.0	0.3	
33	75	l	2.5	23	0	0.6	0.00	0.0	0.6	23	0	2.5	0.6	0.00	0.0	0.6	
33	76	m	22.5	9	0	2.0	0.00	0.0	2.0	113	0	22.5	25.4	0.00	0.0	25.4	
33	77	ml	10.0	12	0	1.2	0.00	0.0	1.2	12	0	10.0	1.2	0.00	0.0	1.2	
33	78	m	22.5	9	0	2.0	0.00	0.0	2.0	9	0	22.5	2.0	0.00	0.0	2.0	
33	79	ml	10.0	26	0	2.6	0.00	0.0	2.6	26	0	10.0	2.6	0.00	0.0	2.6	
33	80	m	22.5	3	0	0.7	0.00	0.0	0.7	3	0	22.5	0.7	0.00	0.0	0.7	
33	81	m	22.5	0	0	0.0	0.00	0.0	0.0	0	0	22.5	0.0	0.00	0.0	0.0	
33	82	ml	10.0	15	0	1.5	0.00	0.0	1.5	29	0	10.0	2.9	0.00	0.0	2.9	
33	83	l	2.5	93	0	2.3	0.00	0.0	2.3	93	0	2.5	2.3	0.00	0.0	2.3	
33	84	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8	
33	85	vh	87.5	6	90	5.3	7.88	0.0	13.1	6	90	87.5	5.3	7.88	0.0	13.1	
33	86	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3	
--TOTALS--				820	207	194.5	14.29	0.0	208.8	1693	207		278.9	14.29	0.0	293.2	

epenf1 - report

		PRESENT FIGURES PRESENT FIGURES PRESENT FIGURES PRESENT								PROJECTED FIGURES PROJECTED FIGURES PROJECTED							
MAP	POLY	PTRANSMISSION	POPULATION		PHOS. LOADING				POPULATION	PTRANS	PHOS. LOADING						
SHEET	GON#	RATING	%trans	per#	seas	per#	seas	other	total	per#	seas	%	per#	seas	other	total	
43	43	l	2.5	55	0	1.4	0.00	0.0	1.4	55	0	2.5	1.4	0.00	0.0	1.4	
43	44	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8	
43	45	m	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4	
43	30	vh	87.5	0	0	0.0	0.00	0.0	0.0	0	0	87.5	0.0	0.00	0.0	0.0	
43	31	mh	40.0	0	0	0.0	0.00	0.0	0.0	15	0	40.0	6.0	0.00	0.0	6.0	
43	32	m	22.5	0	0	0.0	0.00	0.0	0.0	29	0	22.5	6.5	0.00	0.0	6.5	
43	33	ml	10.0	6	0	0.6	0.00	0.0	0.6	6	0	10.0	0.6	0.00	0.0	0.6	
43	34	m	22.5	6	0	1.4	0.00	0.0	1.4	6	0	22.5	1.4	0.00	0.0	1.4	
43	35	ml	10.0	12	0	1.2	0.00	0.0	1.2	12	0	10.0	1.2	0.00	0.0	1.2	
43	36	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8	
43	37	l	2.5	24	0	0.6	0.00	0.0	0.6	67	0	2.5	1.7	0.00	0.0	1.7	
43	38	l	2.5	0	0	0.0	0.00	0.0	0.0	0	0	2.5	0.0	0.00	0.0	0.0	
--TOTALS--				121	0	14.0	0.00	0.0	14.0	208	0		27.6	0.00	0.0	27.6	

PRESENT FIGURES										PROJECTED FIGURES						
MAP	POLY	PTRANSMISSION	POPULATION		PHOS. LOADING				POPULATION		PTRANS	PHOS. LOADING				
SHEET	GON#	RATING	%trans	perm	seas	perm	seas	other	total	perm	seas	%	perm	seas	other	total
43	10	ml	10.0	29	0	2.9	0.00	0.0	2.9	29	0	10.0	2.9	0.00	0.0	2.9
43	11	l	2.5	20	0	0.5	0.00	0.0	0.5	20	0	2.5	0.5	0.00	0.0	0.5
43	12	ml	10.0	12	0	1.2	0.00	0.0	1.2	12	0	10.0	1.2	0.00	0.0	1.2
43	13	m	22.5	77	0	17.3	0.00	0.0	17.3	77	0	22.5	17.3	0.00	0.0	17.3
43	14	h	62.5	3	0	1.9	0.00	0.0	1.9	3	0	62.5	1.9	0.00	0.0	1.9
43	15	mh	40.0	9	800	3.6	32.00	0.0	35.6	9	800	40.0	3.6	32.00	0.0	35.6
43	16	h	62.5	6	0	3.8	0.00	0.0	3.8	6	0	62.5	3.8	0.00	0.0	3.8
43	17	ml	10.0	3	0	0.3	0.00	0.0	0.3	3	0	10.0	0.3	0.00	0.0	0.3
43	18	ml	10.0	0	0	0.0	0.00	0.0	0.0	0	0	10.0	0.0	0.00	0.0	0.0
43	19	vh	87.5	0	240	0.0	21.00	0.0	21.0	0	240	87.5	0.0	21.00	0.0	21.0
43	20	h	62.5	0	1029	0.0	64.31	0.0	64.3	0	1029	62.5	0.0	64.31	0.0	64.3
43	21	m	22.5	250	186	56.3	4.19	0.0	60.4	250	186	22.5	56.3	4.19	0.0	60.4
43	22	h	62.5	287	0	179.4	0.00	0.0	179.4	287	0	62.5	179.4	0.00	0.0	179.4
43	23	h	62.5	0	0	0.0	0.00	0.0	0.0	0	0	62.5	0.0	0.00	0.0	0.0
--TOTALS--				696	2255	267.1	121.50	0.0	388.6	696	2255		267.1	121.50	0.0	388.6

PHOSPHORUS TRANSMISSION
FROM SEPTIC TANK EFFLUENT
SHEET 82E-013
OLIVER RURAL AREA



I.R.1
(050Y00S)

NORTHERN BOUNDARY
OF SOUTH OLIVER EXTENDED
FRINGE SETTLEMENT PLAN AREA

SOUTH OLIVER
EXTENDED
FRINGE

VILLAGE BOUNDARY
AND SEWERAGE SYSTEM
SERVICE AREA

TUGLUNIT
LAKE
SECTOR

OLD SAMMILL ROAD
SECTOR

UNDERGROUND GAS PIPELINE

OLIVER

L. 2450 S

L. 1500 S

L. 3108

COMPOSITE

L. 2450

L. 2074 S

L. 2074 S

L. 302

BIK. A

L. 1051 S

BIK. C

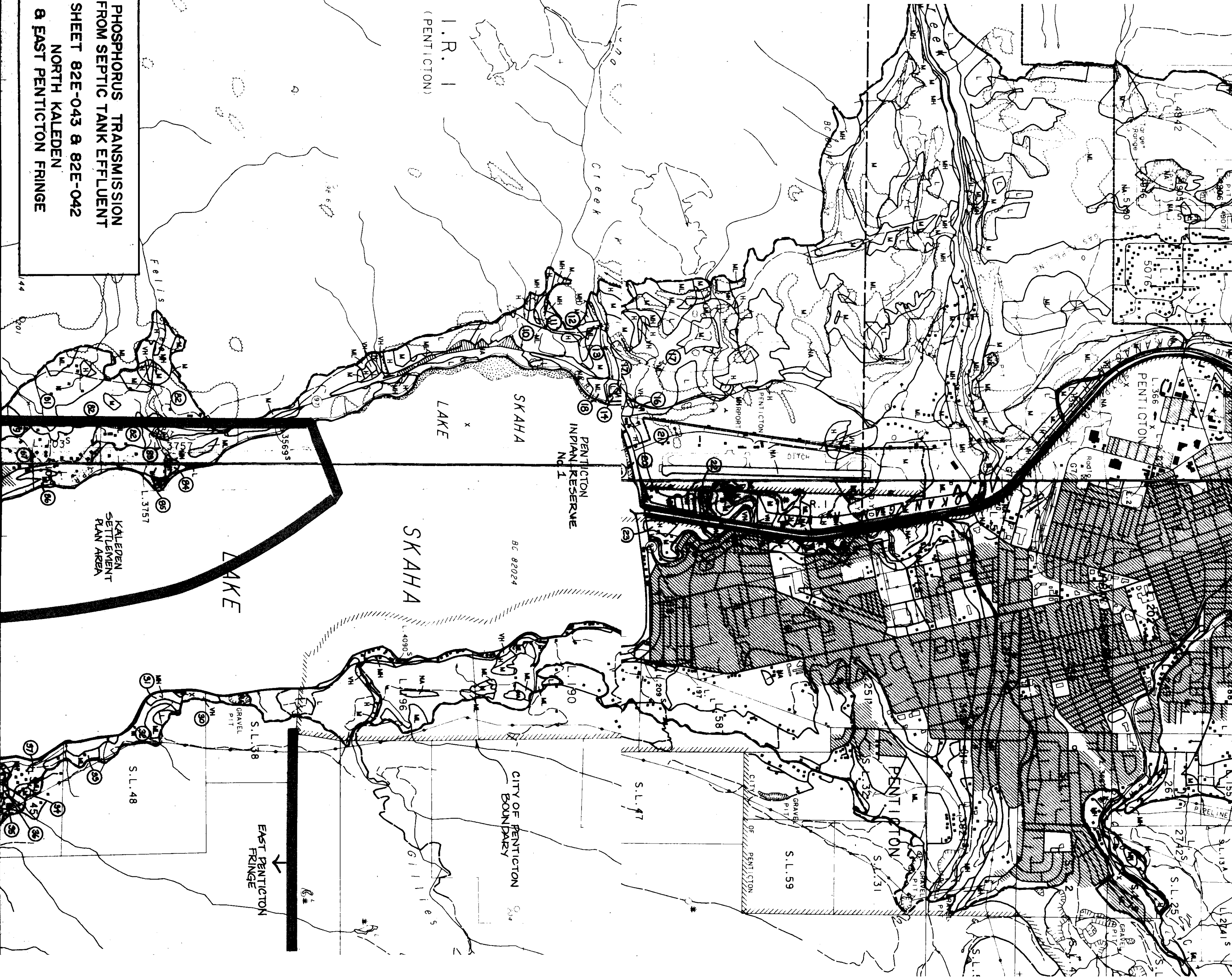
L. 301

L. 2074 S

L. 2450 S

L. 2074 S

PHOSPHORUS TRANSMISSION
FROM SEPTIC TANK EFFLUENT
NORTH KALEDEN
& EAST PENTICTON FRINGE



I.R. 1
(PENTICTON)

LAKE
SKAHA

SKAHA

CITY OF PENTICTON
BOUNDARY

EAST PENTICTON
FRINGE

KALEDEN
SETTLEMENT
PLAN AREA

LAKE

FELLS

Creek

DITCH

CITY
OF
PENTICTON

S.L. 59

PENTICTON

PENTICTON

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