

Table 2. Attributes of 64 process-affected and seven freshwater ponds, related to origin, physical characteristics, survey effort, deterrent effort, bird landings and bird mortalities.

Operator and pond name		Pond characteristics				Number and area of survey stations					
Operator	Process-affected ponds	Origin	Bitumen	Type	Area	Number		Water	Shore	Total	Per_Surv
						Primary	Secondary				
CNRL	Basal Water Pond	2011	No	PA	16.2	1	0	15.0	0	15.0	0.93
CNRL	Coke Runoff	2008	No	PA	3.1	1	0	3.1	0	3.1	1.00
CNRL	Dyke 10 Runoff	2008	Yes	PA	8.1	1	0	8.1	0	8.1	1.00
CNRL	Emergency Dump 1	2008	Yes	PA	0.1	1	0	0.1	0	0.1	1.00
CNRL	Emergency Dump 2	2008	Yes	PA	0.1	1	0	0.1	0	0.1	1.00
CNRL	Emergency Dump 3	2011	Yes	PA	0.1	1	0	0.1	0	0.1	1.00
CNRL	Extraction Dump	2008	Yes	PA	1.5	1	0	1.5	0	1.5	1.00
CNRL	Froth Dump	2008	No	PA	1.1	1	0	1.1	0	1.1	1.00
CNRL	Mine Dump	2008	Yes	PA	1.3	1	0	1.3	0	1.3	1.00
CNRL	Mine Sump	2010	Yes	PA	0.2	1	0	0.2	0	0.2	1.00
CNRL	R1 Emergency Dump	2008	Yes	PA	0.2	1	0	0.2	0	0.2	1.00
CNRL	R2 Basal Dump	2010	No	PA	1.2	1	0	1.2	0	1.2	1.00
CNRL	R2 Emergency Dump	2008	No	PA	0.1	1	0	0.1	0	0.1	1.00
CNRL	R1 Distributor	2008	Yes	PA	0.1	1	0	0.1	0	0.1	1.00
CNRL	Recycle Water	2008	Yes	PA	17.1	1	0	15.5	0	15.5	0.91
CNRL	Storm Water	2008	No	PA	8.7	1	0	8.7	0	8.7	1.00
CNRL	Sulphur Runoff	2008	No	PA	0.6	1	0	0.6	0	0.6	1.00
CNRL	Tailings Pond	2008	Yes	PA	1016.3	4	0	94.2	68.6	162.8	0.16
Imperial	External Tailings Area	2013	Yes	PA	349.2	4	4	106.5	76.6	183.1	0.52
Imperial	Basal Water Treatment	2013	No	PA	0.8	1	0	0.8	0	0.8	1.00
Imperial	Emergency Extraction Runoff	2013	Yes	PA	0.5	1	0	0.5	0	0.5	1.00
Imperial	Froth Runoff	2013	No	PA	1.0	1	0	1.0	0	1.0	1.00
Imperial	Hydro Transport 1	2013	Yes	PA	0.1	1	0	0.1	0	0.1	1.00
Imperial	Hydro Transport 2	2013	Yes	PA	0.1	1	0	0.1	0	0.1	1.00
Imperial	MSF Runoff	2013	No	PA	1.7	1	0	1.7	0	1.7	1.00
Imperial	OPP1 Crusher	2013	No	PA	0.03	1	0	0.03	0	0.03	1.00
Imperial	OPP1 Drainage	2013	Yes	PA	3.7	1	0	3.7	0	3.7	1.00
Imperial	OPP1 Emergency Dump	2013	Yes	PA	0.3	1	0	0.3	0	0.3	1.00
Imperial	Recycle Water	2013	No	PA	4.6	1	0	4.6	0	4.6	1.00
Imperial	Temp NODA Runoff	2013	Yes	PA	2.7	1	0	2.7	0	2.7	1.00
Imperial	West ETA Drainage Pond 1	2013	.	PA	1.1	1	0	1.1	0	1.1	1.00
Imperial	West ETA Drainage Pond 2	2013	No	PA	2.6	1	0	2.6	0	2.6	1.00
Shell	JP - External Tailings Facility MFT	2010	Yes	PA	227.5	2	2	18.3	17.8	36.2	0.16
Shell	JP - External Tailings Facility TT	2010	Yes	PA	121.4	2	2	38.3	33.9	72.2	0.60
Shell	MRM - External Tailings Facility	2003	Yes	PA	380.5	2	1	60.1	46.1	106.2	0.28
Shell	MRM - South Extension Area	2008	Yes	PA	62.3	2	0	24.0	24.0	48.0	0.77
Shell	MRM In-pit	2009	Yes	PA	129.1	2	0	22.6	19.2	41.8	0.32
Suncor	API Surge Pond	.	Yes	PA	0.8	1	0	0.8	0	0.8	1.00
Suncor	Ink Pond	.	No	PA	2.0	1	0	2.0	0	2.0	1.00
Suncor	PAW Pond	2001	No	PA	3.7	1	0	3.7	0	3.7	1.00

Operator and pond name		Pond characteristics				Number and area of survey stations					
Operator	Process-affected ponds	Origin	Bitumen	Type	Area	Number		Water	Shore	Total	Per_Surv
						Primary	Secondary				
Suncor	Plant 82 - Pond B East	.	Yes	PA	1.2	1	0	1.2	0	1.2	1.00
Suncor	Plant 86 - Waste Water Pond	.	Yes	PA	4.8	1	0	3.6	0	3.6	0.75
Suncor	Pond 1A	1976	Yes	PA	51.3	1	0	25.3	0	25.3	0.49
Suncor	Pond 2/3	1976	Yes	PA	252.8	1	1	61.3	41.6	102.9	0.41
Suncor	Pond 6	2002	No	PA	271.3	2	2	24.1	17.9	42.0	0.15
Suncor	Pond 7	2007	Yes	PA	473.4	2	2	52.4	39.0	91.4	0.19
Suncor	Pond 8A	2001	Yes	PA	33.5	2	2	6.5	0.0	6.5	0.19
Suncor	Pond 8B	2003	Yes	PA	714.5	3	3	97.7	60.4	158.1	0.22
Suncor	Pond F	.	No	PA	1.8	1	0	1.8	0	1.8	1.00
Suncor	Sand Dump 8	2012	Yes	PA	30.2	1	0	9.6	0	9.6	0.32
Suncor	Seal Water Pond	.	No	PA	2.5	1	0	2.5	0	2.5	1.00
Suncor	South Tailings Pond	2006	Yes	PA	841.5	3	3	82.5	59.9	142.4	0.17
Suncor	Upgrader Ponds A, B, & D	.	No	PA	11.4	1	0	0	0	0.0	0.00
Synchrude	Aurora In-pit	2010	Yes	PA	158.9	2	0	46.9	33.3	80.2	0.50
Synchrude	Aurora In-pit North	2012	Yes	PA	83.7	1	0	15.4	0.0	15.4	0.18
Synchrude	Aurora North Recycling Water	2001	Yes	PA	7.5	1	0	7.5	0.0	7.5	1.00
Synchrude	Aurora Settling Basin	2001	Yes	PA	547.7	3	0	79.6	58.1	137.6	0.25
Synchrude	East In-pit	1999	Yes	PA	136.5	1	0	26.2	0.0	26.2	0.19
Synchrude	Mildred Lake Effluent	1977	Yes	PA	5.4	1	0	5.4	0.0	5.4	1.00
Synchrude	Mildred Lake Settling Basin	1977	Yes	PA	706.3	3	0	54.8	45.8	100.6	0.14
Synchrude	Mildred Recycle Water	1977	Yes	PA	13.6	1	0	13.1	0.0	13.1	0.96
Synchrude	Southwest In-pit	2002	Yes	PA	280.9	2	0	60.2	42.2	102.4	0.36
Synchrude	Southwest Sand Storage	1995	Yes	PA	858.7	3	1	30.1	21.4	51.5	0.06
Synchrude	West In-pit	2001	Yes	PA	712.1	3	2	49.8	43.3	93.1	0.13
	Average				134.0	1.4	0.4	18.8	11.7	30.5	0.72
	Total				8573.4	92.0	25.0	1204.5	749.1	1953.6	46.34
CNRL	CNRL Compensation Lake	.	No	FW	73.7	1	0	18.9	0	18.9	0.26
Imperial	Raw Water	2013	No	FW	2.1	1	0	2.1	0	2.1	1.00
Imperial	Kearl Compensation Lake	.	No	FW	30.8	1	0	26.3	0	26.3	0.85
Shell	Jackpine Compensation Lake	.	No	FW	52.5	2	1	35.7	0	35.7	0.68
Suncor	Loon Lake	.	No	FW	5.8	1	0	5.8	0	5.8	1.00
Suncor	Crane Lake	.	No	FW	18.8	1	0	10.5	0	10.5	0.56
Synchrude	Mildred Lake Reservoir	.	No	FW	156.4	1	0	27.6	0	27.6	0.18
	Average				48.6	1.1	0.1	18.1	0.0	18.1	0.6
	Total				340.1	8.0	1.0	126.9	0.0	126.9	4.5

Operator and pond name		Distance (m) from river to		Presence of			Deterrents			
Operator	Process-affected ponds	Centroid	Edge	Beach	Vegetation	Islands	Number	Density	Floating	Land
CNRL	Basal Water Pond	14123.2	13917.0	No	Yes	Yes	12	0.7	0	12
CNRL	Coke Runoff	3086.4	2836.7	No	Yes	No	21	6.9	0	21
CNRL	Dyke 10 Runoff	10525.1	10273.3	No	Yes	No	25	3.1	0	25
CNRL	Emergency Dump 1	7703.6	7687.7	No	No	No	2	31.8	0	2
CNRL	Emergency Dump 2	7728.0	7709.0	No	No	No	2	28.2	0	2
CNRL	Emergency Dump 3	7833.0	7812.7	No	No	No	4	67.8	0	4
CNRL	Extraction Dump	5434.9	5311.0	No	No	No	7	4.5	0	7
CNRL	Froth Dump	5080.5	4984.6	No	No	No	4	3.7	0	4
CNRL	Mine Dump	7617.6	7562.5	No	Yes	No	9	6.8	0	9
CNRL	Mine Sump	8453.5	8420.7	No	No	No	3	12.9	0	3
CNRL	R1 Emergency Dump	6821.6	6771.5	No	No	No	2	11.8	0	2
CNRL	R2 Basal Dump	10693.8	10621.9	No	Yes	No	7	6.0	0	7
CNRL	R2 Emergency Dump	10646.6	10613.4	No	No	No	3	25.6	0	3
CNRL	R1 Distributor	6987.9	6964.7	No	No	No	2	24.8	0	2
CNRL	Recycle Water	6258.4	5723.3	No	Yes	No	20	1.2	0	20
CNRL	Storm Water	3168.3	3049.7	No	Yes	No	12	1.4	0	12
CNRL	Sulphur Runoff	2528.4	2470.2	No	No	No	2	3.2	0	2
CNRL	Tailings Pond	13491.9	11910.9	Yes	Yes	Yes	234	0.2	0	232
Imperial	External Tailings Area	28248.1	26870.8	Yes	Yes	Yes	99	0.3	67	32
Imperial	Basal Water Treatment	28080.5	28019.7	Yes	Yes	No	4	5.1	0	4
Imperial	Emergency Extraction Runoff	30379.7	30322.0	No	No	No	0	0.0	0	0
Imperial	Froth Runoff	29679.2	29613.6	No	No	No	5	5.0	0	5
Imperial	Hydro Transport 1	27919.7	27899.6	No	No	No	1	8.9	0	1
Imperial	Hydro Transport 2	28948.2	28921.6	No	No	No	0	0.0	0	0
Imperial	MSF Runoff	30303.9	30209.7	Yes	Yes	No	1	0.6	0	1
Imperial	OPP1 Crusher	27313.4	27302.7	Yes	Yes	No	1	37.9	0	1
Imperial	OPP1 Drainage	26897.1	26786.3	Yes	Yes	No	8	2.2	0	8
Imperial	OPP1 Emergency Dump	27621.9	27584.0	No	No	No	1	3.0	0	1
Imperial	Recycle Water	30781.1	30640.2	No	No	No	6	1.3	0	6
Imperial	Temp NODA Runoff	24862.1	24746.8	Yes	Yes	No	3	1.1	0	3
Imperial	West ETA Drainage Pond 1	26661.7	26584.2	.	.	.	3	2.7	0	3
Imperial	West ETA Drainage Pond 2	26519.0	26383.4	Yes	Yes	No	10	3.8	0	10
Shell	JP - External Tailings Facility MFT	15490.3	14752.7	Yes	No	No	35	0.2	18	17
Shell	JP - External Tailings Facility TT	13852.8	13044.2	Yes	Yes	Yes	18	0.1	7	11
Shell	MRM - External Tailings Facility	2293.9	1174.5	Yes	No	No	32	0.1	14	18
Shell	MRM - South Extension Area	1873.1	1306.8	Yes	No	No	15	0.2	6	9
Shell	MRM In-pit	8007.1	6981.3	Yes	No	No	15	0.1	5	10
Suncor	API Surge Pond	428.2	373.8	No	Yes	No	2	2.5	0	2
Suncor	Ink Pond	105.3	40.5	Yes	Yes	No	4	2.0	0	4
Suncor	PAW Pond	2381.6	2273.2	No	No	No	3	0.8	0	3

Operator and pond name		Distance (m) from river to		Presence of			Deterrents			
Operator	Process-affected ponds	Centroid	Edge	Beach	Vegetation	Islands	Number	Density	Floating	Land
Suncor	Plant 82 - Pond B East	218.1	162.6	Yes	Yes	No	3	2.5	0	3
Suncor	Plant 86 - Waste Water Pond	1254.3	972.0	No	No	No	4	0.8	0	4
Suncor	Pond 1A	1839.8	1341.7	Yes	Yes	No	25	0.5	14	11
Suncor	Pond 2/3	3154.9	2130.3	Yes	No	No	57	0.2	47	10
Suncor	Pond 6	2307.5	1246.5	Yes	Yes	No	105	0.4	71	34
Suncor	Pond 7	1660.3	496.9	No	No	No	68	0.1	59	9
Suncor	Pond 8A	1954.8	1594.9	Yes	No	No	33	1.0	21	12
Suncor	Pond 8B	3777.1	2284.1	No	No	No	80	0.1	65	15
Suncor	Pond F	855.5	740.7	No	No	No	3	1.7	0	3
Suncor	Sand Dump 8	3861.4	3539.6	Yes	No	No	21	0.7	19	2
Suncor	Seal Water Pond	1004.9	888.9	Yes	No	No	1	0.4	0	1
Suncor	South Tailings Pond	5344.9	2938.6	Yes	Yes	No	131	0.2	112	19
Suncor	Upgrader Ponds A, B, & D	291.1	191.3	No	No	No	8	0.7	0	8
Syncrude	Aurora In-pit	11990	11141	Yes	No	Yes	42	0.3	17	25
Syncrude	Aurora In-pit North	9944	8961	Yes	No	No	13	0.2	0	13
Syncrude	Aurora North Recycling Water	9168	8955	No	No	No	4	0.5	0	4
Syncrude	Aurora Settling Basin	13569	11665	Yes	No	No	80	0.1	20	60
Syncrude	East In-pit	4917	4414	Yes	No	No	25	0.2	7	18
Syncrude	Mildred Lake Effluent	6304	6120	No	Yes	No	2	0.4	0	2
Syncrude	Mildred Lake Settling Basin	4917	3542	Yes	Yes	No	141	0.2	32	109
Syncrude	Mildred Recycle Water	6006	5761	No	Yes	No	4	0.3	0	4
Syncrude	Southwest In-pit	10607	9677	No	No	No	40	0.1	15	25
Syncrude	Southwest Sand Storage	16755	15060	Yes	Yes	No	130	0.2	39	91
Syncrude	West In-pit	7456	5786	No	Yes	No	98	0.1	29	69
	Average	11031.1	10563.8				27.4	5.2	10.7	16.7
	Total	705988.3	676082.4				1755.0	330.2	684.0	1069.0
CNRL	CNRL Compensation Lake	17978.8	17288.4	Yes	Yes	Yes	0	0.0	0	0
Imperial	Raw Water	30880.2	30776.0	No	No	No	5	2.4	0	5
Imperial	Kearl Compensation Lake	25226.1	24866.8	Yes	No	No	0	0.0	0	0
Shell	Jackpine Compensation Lake	15090.0	14199.0	Yes	No	No	0	0.0	0	0
Suncor	Loon Lake	975.9	782.8	No	Yes	No	0	0.0	0	0
Suncor	Crane Lake	4595.7	4416.7	Yes	Yes	No	0	0.0	0	0
Syncrude	Mildred Lake Reservoir	3583	2345	No	Yes	No	0	0.0	0	0
	Average	14047.1	13525.0				0.7	0.3	0.0	0.0
	Total	98329.7	94674.8				5.0	2.4	0.0	0.0

Operator and pond name		Pond area below 80 dB (ha)		Shoreline (200 m) below 80		Target Guild Birds (landed)		Mortality Records		
Operator	Process-affected ponds	Area	Percent	Area	Percent	Number	Species	Search	Reports	Total
CNRL	Basal Water Pond	8.9	55.0	0.0	0.0	2306	41	0	0	0
CNRL	Coke Runoff	0.0	0.0	0.0	0.0	115	12	0	0	0
CNRL	Dyke 10 Runoff	0.0	0.0	0.0	0.0	413	21	1	1	2
CNRL	Emergency Dump 1	0.0	0.0	0.0	0.0	0	0	0	0	0
CNRL	Emergency Dump 2	0.0	0.0	0.0	0.0	0	0	0	1	1
CNRL	Emergency Dump 3	0.0	0.0	0.0	0.0	0	0	0	0	0
CNRL	Extraction Dump	0.0	0.0	0.0	0.0	2	1	0	1	1
CNRL	Froth Dump	1.1	100.0	0.0	0.0	0	0	0	0	0
CNRL	Mine Dump	0.0	0.0	0.0	0.0	0	0	0	0	0
CNRL	Mine Sump	0.0	0.0	0.0	0.0	0	0	0	0	0
CNRL	R1 Emergency Dump	0.0	0.0	0.0	0.0	0	0	0	0	0
CNRL	R2 Basal Dump	0.0	0.0	0.0	0.0	225	17	0	0	0
CNRL	R2 Emergency Dump	0.0	0.0	0.0	0.0	17	4	0	0	0
CNRL	R1 Distributor	0.0	0.0	0.0	0.0	0	0	0	0	0
CNRL	Recycle Water	0.0	0.0	0.0	0.0	36	9	0	1	1
CNRL	Storm Water	0.0	0.0	0.0	0.0	296	19	0	0	0
CNRL	Sulphur Runoff	0.0	0.0	0.0	0.0	4	1	0	0	0
CNRL	Tailings Pond	0.0	0.0	0.0	0.0	2668	34	0	17	17
Imperial	External Tailings Area	0.0	0.0	0.0	0.0	1501	28	1	20	21
Imperial	Basal Water Treatment	0.0	0.0	0.0	0.0	60	9	0	0	0
Imperial	Emergency Extraction Runoff	0.5	100.0	0.0	0.0	0	0	0	3	3
Imperial	Froth Runoff	1.0	100.0	0.0	0.0	3	2	0	0	0
Imperial	Hydro Transport 1	0.1	100.0	0.0	0.0	0	0	0	0	0
Imperial	Hydro Transport 2	0.1	100.0	0.0	0.0	0	0	0	2	2
Imperial	MSF Runoff	1.7	100.0	0.0	0.0	87	16	0	1	1
Imperial	OPP1 Crusher	0.0	0.0	0.0	0.0	4	2	0	0	0
Imperial	OPP1 Drainage	0.0	0.0	0.0	0.0	21	7	0	0	0
Imperial	OPP1 Emergency Dump	0.0	0.0	0.0	0.0	0	0	0	0	0
Imperial	Recycle Water	0.0	0.0	0.0	0.0	70	9	0	0	0
Imperial	Temp NODA Runoff	0.0	0.0	0.0	0.0	252	19	0	0	0
Imperial	West ETA Drainage Pond 1	0.0	0.0	0.0	0.0	7	5	0	0	0
Imperial	West ETA Drainage Pond 2	0.0	0.0	0.0	0.0	364	16	0	0	0
Shell	JP - External Tailings Facility MFT	67.0	29.5	43.5	38.9	55	7	0	10	10
Shell	JP - External Tailings Facility TT	34.0	28.0	0.0	0.0	15	1	0	0	0
Shell	MRM - External Tailings Facility	196.8	51.7	81.3	47.4	22	6	0	7	7
Shell	MRM - South Extension Area	16.2	25.9	0.0	0.0	0	0	0	0	0
Shell	MRM In-pit	66.1	51.2	0.0	0.0	27	5	0	0	0
Suncor	API Surge Pond	0.0	0.0	0.0	0.0	0	0	3	1	4
Suncor	Ink Pond	0.0	0.0	0.0	0.0	527	22	0	0	0
Suncor	PAW Pond	0.0	0.0	0.0	0.0	2353	22	0	0	0

Operator and pond name		Pond area below 80 dB (ha)		Shoreline (200 m) below 80		Target Guild Birds (landed)		Mortality Records		
Operator	Process-affected ponds	Area	Percent	Area	Percent	Number	Species	Search	Reports	Total
Suncor	Plant 82 - Pond B East	0.0	0.0	0.0	0.0	5	1	0	0	0
Suncor	Plant 86 - Waste Water Pond	0.0	0.0	0.0	0.0	1	1	0	2	2
Suncor	Pond 1A	13.8	26.9	10.4	24.2	2	2	0	2	2
Suncor	Pond 2/3	0.0	0.0	0.0	0.0	1	1	1	8	9
Suncor	Pond 6	178.5	65.8	52.7	40.8	7	1	0	0	0
Suncor	Pond 7	0.0	0.0	0.0	0.0	101	8	3	1	4
Suncor	Pond 8A	31.7	94.6	29.7	94.3	0	0	0	0	0
Suncor	Pond 8B	0.0	0.0	0.0	0.0	213	17	0	2	2
Suncor	Pond F	0.0	0.0	0.0	0.0	0	0	0	0	0
Suncor	Sand Dump 8	0.0	0.0	0.0	0.0	0	0	0	1	1
Suncor	Seal Water Pond	0.0	0.0	0.0	0.0	40	5	0	0	0
Suncor	South Tailings Pond	0.0	0.0	0.0	0.0	13	5	0	11	11
Suncor	Upgrader Ponds A, B, & D	0.0	0.0	0.0	0.0	4	3	0	0	0
Syncrude	Aurora In-pit	48.6	30.6	36.4	41.1	108	7	2	1	3
Syncrude	Aurora In-pit North	79.9	95.5	0.0	0.0	0	0	0	1	1
Syncrude	Aurora North Recycling Water	0.1	1.5	0.0	0.0	1	1	0	1	1
Syncrude	Aurora Settling Basin	295.8	54.0	108.4	58.4	223	10	0	1	1
Syncrude	East In-pit	83.5	61.2	0.0	0.0	9	2	0	0	0
Syncrude	Mildred Lake Effluent	0.7	12.8	0.0	0.0	0	0	0	6	6
Syncrude	Mildred Lake Settling Basin	447.3	63.3	189.8	67.3	116	3	0	16	16
Syncrude	Mildred Recycle Water	7.3	53.6	0.0	0.0	0	0	0	1	1
Syncrude	Southwest In-pit	156.9	55.9	98.4	67.3	6	2	0	1	1
Syncrude	Southwest Sand Storage	450.9	52.5	205.5	82.6	56	5	2	8	10
Syncrude	West In-pit	301.2	42.3	72.3	27.9	221	16	0	3	3
	Average	38.9	24.2	14.5	9.2	196.5	6.6	0.2	2.0	2.3
	Total	2489.8	1551.8	928.3	590.1	12577	58	13.0	131.0	144.0
CNRL	CNRL Compensation Lake	0.0	0	0	0	570	27	0	0	0
Imperial	Raw Water	0.0	0	0	0	57	16	0	0	0
Imperial	Kearl Compensation Lake	0.0	0	0	0	653	29	0	0	0
Shell	Jackpine Compensation Lake	0.0	0	0	0	1830	36	0	0	0
Suncor	Loon Lake	0.0	0	0	0	661	11	0	0	0
Suncor	Crane Lake	0.0	0	0	0	884	16	0	0	0
Syncrude	Mildred Lake Reservoir	0.0	0	0	0	83	13	0	0	0
	Average	0.0	0.0	0.0	0.0	676.9	21.1	0.0	0.0	0.0
	Total	0.0	0.0	0.0	0.0	4738	49	0.0	0.0	0.0

Operator and pond name		Mortality Search Effort (hours)					Mortality Search Effort (metres)			
Operator	Process-affected ponds	Days	Boat	Walk	Drive	Total	Boat	Walk	Drive	Total
CNRL	Basal Water Pond	14	0.00	3.93	1.80	5.73	0	1024	0	1024
CNRL	Coke Runoff	15	0.00	9.93	0.00	9.93	0	1332	0	1332
CNRL	Dyke 10 Runoff	15	0.00	13.58	0.73	14.31	0	2156	0	2156
CNRL	Emergency Dump 1	15	0.00	1.12	0.00	1.12	0	52	0	52
CNRL	Emergency Dump 2	13	0.00	0.80	0.08	0.88	0	114	0	114
CNRL	Emergency Dump 3	12	0.00	0.97	0.13	1.10	0	109	0	109
CNRL	Extraction Dump	15	0.00	3.48	0.00	3.48	0	698	0	698
CNRL	Froth Dump	14	0.00	2.02	0.12	2.14	0	557	0	557
CNRL	Mine Dump	14	0.00	4.12	0.00	4.12	0	542	0	542
CNRL	Mine Sump	13	0.00	2.22	0.00	2.22	0	180	0	180
CNRL	R1 Emergency Dump	14	0.00	1.33	0.00	1.33	0	337	0	337
CNRL	R2 Basal Dump	14	0.00	2.50	0.52	3.02	0	224	0	224
CNRL	R2 Emergency Dump	17	0.00	2.23	0.00	2.23	0	518	0	518
CNRL	R1 Distributor	16	0.00	1.52	0.00	1.52	0	161	0	161
CNRL	Recycle Water	14	0.00	0.75	8.43	9.18	0	2488	0	2488
CNRL	Storm Water	14	0.00	2.10	4.97	7.07	0	2093	0	2093
CNRL	Sulphur Runoff	14	0.00	2.03	0.35	2.38	0	441	0	441
CNRL	Tailings Pond	40	4.00	0.77	0.00	4.77	0	2224		2224
Imperial	External Tailings Area	28	4.85	14.40	4.07	23.32	32304	1253	36354	69911
Imperial	Basal Water Treatment	9	0.00	0.38	1.05	1.43	0	0	2774	2774
Imperial	Emergency Extraction Runoff	11	0.00	0.83	0.75	1.58	0	414	1970	2384
Imperial	Froth Runoff	7	0.00	1.62	0.00	1.62	0	454	2960	3414
Imperial	Hydro Transport 1	10	0.00	0.97	0.13	1.10	0	265	797	1062
Imperial	Hydro Transport 2	10	0.00	1.70	0.00	1.70	0	301	455	756
Imperial	MSF Runoff	9	0.00	1.72	0.00	1.72	0	725	3243	3968
Imperial	OPP1 Crusher	8	0.00	0.93	0.00	0.93	0	87	645	732
Imperial	OPP1 Drainage	10	0.00	0.93	1.12	2.05	0	0	5791	5791
Imperial	OPP1 Emergency Dump	10	0.00	1.38	0.22	1.60	0	500	1690	2190
Imperial	Recycle Water	9	0.00	0.67	0.92	1.58	0	0	4206	4206
Imperial	Temp NODA Runoff	9	0.00	2.60	0.00	2.60	0	856	1558	2414
Imperial	West ETA Drainage Pond 1	7	0.00	0.80	0.43	1.23	0	455	2011	2466
Imperial	West ETA Drainage Pond 2	9	0.00	1.40	0.57	1.97	0	716	2881	3597
Shell	JP - External Tailings Facility MFT	22	8.87	0.00	10.12	18.99	89917	0	102484	192401
Shell	JP - External Tailings Facility TT	8	1.70	0.00	3.07	4.77	8858	0	21391	30249
Shell	MRM - External Tailings Facility	54	15.37	0.00	29.62	44.99	73380	0	365492	438872
Shell	MRM - South Extension Area	28	3.17	0.00	11.63	14.80	6367	0	93507	99874
Shell	MRM In-pit	9	2.57	0.00	1.72	4.28	29698	0	19250	48948
Suncor	API Surge Pond	11	0.00	4.77	0.50	5.27	0	0	1969	1969
Suncor	Ink Pond	12	0.00	5.15	0.00	5.15	0	0	1794	1794
Suncor	PAW Pond	12	0.00	4.47	0.00	4.47	0	0	4681	4681

Operator and pond name		Mortality Search Effort (hours)					Mortality Search Effort (metres)			
Operator	Process-affected ponds	Days	Boat	Walk	Drive	Total	Boat	Walk	Drive	Total
Suncor	Plant 82 - Pond B East	14	0.00	6.42	0.50	6.92	0	0	5481	5481
Suncor	Plant 86 - Waste Water Pond	14	0.00	7.98	1.00	8.98	0	0	9825	9825
Suncor	Pond 1A	16	5.77	7.07	1.00	13.83	13672	0	7377	21049
Suncor	Pond 2/3	14	8.82	12.90	0.00	21.72	19189	0	17104	36293
Suncor	Pond 6	13	8.10	8.93	1.00	18.03	55766	0	7595	63361
Suncor	Pond 7	15	10.02	8.28	0.00	18.30	65813	0	18887	84700
Suncor	Pond 8A	11	0.00	11.70	2.50	14.20	0	0	35771	35771
Suncor	Pond 8B	16	15.12	12.20	1.25	28.57	129559	0	18942	148501
Suncor	Pond F	12	0.00	5.08	0.50	5.58	0	0	3449	3449
Suncor	Sand Dump 8	12	1.37	13.17	0.00	14.53	7171	0	0	7171
Suncor	Seal Water Pond	12	0.00	4.18	0.17	4.35	0	0	3877	3877
Suncor	South Tailings Pond	13	10.47	7.77	0.00	18.24	24471	0	23550	48021
Suncor	Upgrader Ponds A, B, & D	10	0.00	4.60	1.50	6.10	0	0	4463	4463
Syncrude	Aurora In-pit	22	14.30	0.00	3.70	18.00	.	.	.	.
Syncrude	Aurora In-pit North	17	0.63	0.00	8.12	8.75	.	.	.	.
Syncrude	Aurora North Recycling Water	17	0.00	0.25	3.60	3.85	.	.	.	.
Syncrude	Aurora Settling Basin	20	20.38	0.00	3.00	23.38	.	.	.	.
Syncrude	East In-pit	18	6.02	4.00	3.50	13.52	.	.	.	.
Syncrude	Mildred Lake Effluent	16	0.00	0.25	5.03	5.28	.	.	.	.
Syncrude	Mildred Lake Settling Basin	20	17.85	0.00	9.75	27.60	.	.	.	.
Syncrude	Mildred Recycle Water	15	0.00	0.25	5.50	5.75	.	.	.	.
Syncrude	Southwest In-pit	18	12.00	0.00	3.50	15.50	.	.	.	.
Syncrude	Southwest Sand Storage	27	18.82	0.00	10.50	29.32	.	.	.	.
Syncrude	West In-pit	21	17.57	0.00	13.00	30.57	.	.	.	.
	Average	15.1	3.2	3.4	2.5	9.1				
	Total	968.0	207.7	215.2	161.6	584.6				
CNRL	CNRL Compensation Lake	0	0	0.00	0.00	0.00	0	0	0	0.0
Imperial	Raw Water	5	0	0.20	0.53	0.73	0	0	2252	2252.0
Imperial	Kearl Compensation Lake	5	0	5.48	0.00	5.48	0	2616	2637	5252.9
Shell	Jackpine Compensation Lake	0	0	0.00	0.00	0.00	0	0	0	0.0
Suncor	Loon Lake	0	0	0.00	0.00	0.00	0	0	0	0.0
Suncor	Crane Lake	0	0	0.00	0.00	0.00	0	0	0	0.0
Syncrude	Mildred Lake Reservoir	0	0	0.00	0.00	0.00	.	.	.	.
	Average	1.4	0.0	0.8	0.1	0.9				
	Total	10.0	0.0	5.7	0.5	6.2				