

# MANITOBA SPILL REPORT

15-SEP-21

**15-SEP-16**

**TO**

**15-SEP-21**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2016-12-W	14-OCT-16	Tundra	FLOWLINE	CORROSION	08D-04-01-24	1.00	.20	.00	1.10	900.00	.00
2016-13-W	07-NOV-16	Tundra	FLOWLINE/LINE/LINE	CORROSION	13-04-02-25	1.50	.50	.00	1.50	315.00	.00
2016-14-W	10-NOV-16	Cres Pt Ener	TRUCK/TANK/VALVE	HUMAN ERROR	05-22-02-29	.00	.00	.33	.00	3000.00	.00
2016-15-W	12-DEC-16	CNRL	WELL/RISER/HOLE	HUMAN ERROR	05-10-02-29	.50	1.50	.00	1.75	144.00	.00
2016-16-W	22-DEC-16	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	15B-28-01-25	.90	.10	.00	.90	50.00	.00
2016-23-V	27-SEP-16	Corex	FLOWLINE	CORROSION/INTERNAL	12-22-11-26	.00	5.00	.00	3.00	3294.00	3294.00
2016-24-V	06-OCT-16	Tundra	FLOWLINE RISER	HUMAN ERROR	04-12-08-29	.00	1.00	.00	.90	150.00	.00
2016-25-V	11-OCT-16	Cres Pt Ener	FLOWLINE BREAK	FARMER HIT LINE	01-21-11-29	.80	3.20	.00	3.50	2270.00	2270.00
2016-26-V	13-OCT-16	Corex	WELLHEAD CASING FLANGE	MECH FAILURE	11-24-11-26	1.00	.00	.00	1.25	875.00	.00
2016-27-V	25-OCT-16	Tundra	TESTTANK FLANGE HOLE	MECH FAILURE	01-21-09-28	.20	.80	.00	.90	110.00	.00
2016-28-V	30-OCT-16	Tundra	condensate pump failure	MECH FAILURE	13-16-09-28	.00	.00	1.00	.50	200.00	.00
2016-29-V	21-NOV-16	Seneca Pet	FLOWLINE	RUPTURE	15-10-10-26	.00	3.00	.00	34.00	32.00	32.00
2016-30-V	10-DEC-16	Tundra	BATTERY	MECHANICAL FAILURE	04-01-08-29	2.50	2.50	.00	4.80	415.00	415.00
2016-31-V	10-DEC-16	Kinwest 08	WELL FLOWLINE ABOVE GROUND	HOLE IN LINE/CORROSION	05-09-16-27	.00	.00	1.50	1.00	4.00	.00
2016-32-V	13-DEC-16	Corex	F-2365	CORROSION	06-28-09-25	.50	3.50	.00	4.00	300.00	.00
2016-33-V	20-DEC-16	Corex	HDR/PIGRECEIVER/CHECKVALVE	MECHFAILURE	08-28-11-26	1.00	9.00	.00	9.00	120.00	.00
2017-01-V	02-JAN-17	Corex	FLOWLINE/JOINT/HOLE	CORROSION	13-14-10-26	.50	1.00	.00	.00	900.00	900.00
2017-01-W	11-FEB-17	Tundra	TKS / TANK / VALVE	CORROSION	13B-25-02-28	.00	1.00	.00	.90	78.00	.00
2017-02-V	17-JAN-17	Tundra	SEPERATOR HOSE	MECHFAILURE	13-03-09-29	25.00	25.00	.00	49.50	3465.00	3465.00
2017-02-W	14-FEB-17	Tundra	WELL/FLOW TEE	CORROSION	10D-10-06-22	.50	2.50	.00	2.70	268.00	.00
2017-03-V	03-FEB-17	Tundra	HDR/INJ/GASKET	MECHFAILURE	04-09-08-28	.00	.00	.00	.90	29.00	.00
2017-03-W	03-MAR-17	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	07C-04-01-24	1.00	.00	.00	.95	742.00	742.00
2017-04-V	20-JAN-17	2928419 MB	TANK	TANK/OVERFLOW/HUMANERROR	16-17-11-26	.00	11.00	.00	11.00	100.00	.00
2017-04-W	24-MAR-17	Tundra	TKS/TANK/OVERFLOW	Human Error	09D-13-01-26	5.00	1.00	.00	5.90	1122.00	.00
2017-05-V	05-FEB-17	Corex	FLOWLINE/JOINT/HOLE	CORROSION/INTERNAL	09-04-12-26	3.60	38.40	.00	10.00	2000.00	2000.00
2017-05-W	03-APR-17	Tundra	FLOWLINE/LINE	MECH FAILURE/ BREAK AT FLANGE	14A-02-03-21	3.50	.30	.00	3.70	1540.00	.00
2017-06-V	03-FEB-17	Tundra	WELL/TANK/TEST	CORROSION	03-27-18-29	3.50	3.50	.00	7.00	120.00	.00
2017-06-W	07-JUN-17	Corval Energ	TKS/TST/HOLE	Corrosion	14D-05-03-28	.00	2.00	.00	1.99	5.00	.00
2017-07-V	23-FEB-17	Tundra	TRUCK	Human Error	03-04-08-29	1.00	.00	.00	.99	500.00	.00
2017-07-W	11-JUL-17	Tundra	WELL/TANK, EMUL/HOLE	CORROSION	05D-14-02-25	15.50	.00	.00	15.49	400.00	.00
2017-08-V	26-FEB-17	Corex	TANK	HUMAN ERROR	09-04-10-28	.00	3.00	.00	2.50	320.00	.00
2017-08-W	14-AUG-17	Tundra	FLOWLINE/LINE/HOLE	CORROSION	07-09-02-25	10.00	20.00	.00	30.00	.00	.00
2017-09-V	16-MAR-17	Tundra	TANK/VENTLINE/FROZE/CRACK	MECHFAILURE	09-06-10-29	.75	.75	.00	1.50	150.00	.00
2017-09-W	26-AUG-17	Tundra	FLOWLINE/LINE/LINE	HUMAN ERROR	12-04-02-25	2.50	2.50	.00	.50	169.00	.00
2017-10-V	14-MAR-17	Tundra	WELL	MECHFAILURE	14-25-16-28	1.30	1.70	.00	2.95	50.00	.00
2017-10-W	27-AUG-17	Tundra	TKS/TANK TST/OVERFLOW	MECH FAILURE	13-03-02-25	9.00	.00	.00	8.95	625.00	.00
2017-11-V	14-MAR-17	Paradise Pet	WELLHEAD VALVE	HUMAN ERROR	03-23-09-29	.45	.05	.00	.50	39.00	.00
2017-11-W	02-SEP-17	Tundra	SAT/LINE/HOLE	CORROSION	06-09-01-25	.25	.25	.00	.50	188.00	.00

# MANITOBA SPILL REPORT

15-SEP-21

**15-SEP-16**

**TO**

**15-SEP-21**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2017-12-V	24-MAR-17	2928419 MB	WELL	Mechanical Failure	15-17-11-26	.00	.00	3.00	180.00	500.00	.00
2017-12-W	14-SEP-17	Tundra	FLOWLINE/LINE/HOLE	CORROSION	16-30-01-25	.50	19.50	.00	8.10	510.00	510.00
2017-13-V	28-MAR-17	Cres Pt Ener	header internal corrosion	Mechanical Failure	13-10-11-29	8.00	2.00	.00	8.00	11079.00	11079.00
2017-13-W	16-SEP-17	Cres Pt Ener	REC/LINE/HOLE	CORROSION	09-32-01-28	.00	.00	1.00	4.00	150.00	.00
2017-14-V	28-MAR-17	Corex	WELLHEAD NIPPLE LEAK	CORROSION/ INTERNAL	15-13-10-26	.50	1.50	.00	32.00	50.00	.00
2017-14-W	14-DEC-17	Tundra	FLOWLINE	CORROSION	13-23-01-25	.10	.90	.00	.95	22.00	.00
2017-15-V	04-APR-17	Corex	FLARE STACK	MECH FAILURE	12-33-08-28	1.50	.00	.00	3.00	350.00	100.00
2017-16-V	08-APR-17	Fox Tail	TRUCK	HUMAN ERROR	-34-09-28	.10	.00	.00	.10	40.00	.00
2017-17-V	14-APR-17	Corex	WELL/FITTING/HOLE	CORROSION/INTERNAL	07-15-11-26	.20	.80	.00	6.00	225.00	.00
2017-18-V	26-APR-17	Corex	WELL	Mechanical Failure	12-16-09-25	.50	4.50	.00	8.00	200.00	.00
2017-19-V	04-MAY-17	Tundra	Pig Receiver	Mechanical Failure	06-23-09-28	1.50	.50	.00	1.90	120.00	.00
2017-20-V	09-MAY-17	Corex	WELL	Mechanical Failure	11-25-09-29	.50	1.50	.00	.00	120.00	120.00
2017-21-V	01-JUN-17	Surge	WELLHEAD/NIPPLE HOLE	INTERNAL CORROSION	12-07-14-28	.24	5.76	.00	2.00	300.00	.00
2017-22-V	06-JUN-17	Tundra	WELLHEAD	PACKING FAILURE	04-29-09-29	.50	.50	.00	.99	80.00	.00
2017-23-V	27-JUN-17	Red River Oi	BAT/ESD VALVE/HOLE	CORROSION	08-16-07-29	.00	2.00	.00	1.80	10.00	.00
2017-24-V	28-JUN-17	Tundra	WELL/POLISH ROD/PACKING LEAK	MECH FAILURE	01-17-10-29	.50	.50	.00	.99	80.00	.00
2017-25-V	11-JUL-17	Tundra	TRUCK	TRUCK NOT EMPTY BEFORE TRANSP	13-14-09-28	.10	.00	.00	.09	.00	500.00
2017-26-V	18-JUL-17	Elcano Expl	WELL	CORROSION	15-03-13-27	1.00	2.00	.00	3.00	200.00	.00
2017-27-V	08-AUG-17	Prairie Ag	TRUCK/TANK/HOLE	MECHANICAL FAILURE	-18-10-29	.00	8.10	.00	8.00	.00	50.00
2017-28-V	28-AUG-17	Corex	WELL/RISER	CORROSION/EXTERNAL	05-03-12-26	.50	4.50	.00	5.00	125.00	.00
2017-29-V	07-SEP-17	Corex	TRUCK	HUMAN ERROR	02-04-12-26	.00	.00	.13	.00	350.00	50.00
2017-30-V	08-SEP-17	Tundra	FLOW/TEE/WELL	CORROSION	01-35-10-29	2.50	2.50	.00	4.95	130.00	.00
2017-31-V	13-SEP-17	Corex	WELL	CORROSION	06-04-12-26	.50	4.50	.00	5.00	75.00	.00
2017-33-V	27-SEP-17	Elcano Expl	FLOWLINE	FAILURE	01-16-13-27	5.00	195.00	.00	.00	7500.00	7500.00
2017-34-V	28-SEP-17	Cres Pt Ener	TANK	MECHANICAL FAILURE	01-23-11-29	1.00	22.00	.00	22.50	240.00	.00
2017-35-V	09-NOV-17	Corex	WELL/RISER/HOLE	CORROSION/EXTERNAL	08-14-11-26	.20	1.80	.00	2.00	320.00	300.00
2017-36-V	11-NOV-17	Tundra	WELL/TANK/OVERFLOW	FRAC/INCREASED PRODUCTION	02-22-08-28	24.00	76.00	.00	99.80	5000.00	5000.00
2017-37-V	13-DEC-17	Tundra	TEST TANK HOLE	CORROSION INTERNAL	04-08-13-28	2.00	2.00	.00	4.00	225.00	.00
2018-01-V	31-DEC-17	Elcano Expl	WELLHEAD/FLOWTEE/PAACKING	MECH FAILURE	08-20-12-27	.25	1.75	.00	1.50	10.00	.00
2018-01-W	06-JAN-18	Tundra	BAT/LINE/HOLE	CORROSION	15-21-01-25	.20	2.00	.00	2.10	50.00	.00
2018-02-V	10-FEB-18	Tundra	WELLHEAD/FRAC LINE	HUMAN ERROR	04-35-09-28	.00	.90	.10	.97	150.00	.00
2018-02-W	11-JAN-18	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	04C-03-02-25	.91	8.09	.00	8.91	685.00	.00
2018-03-V	14-FEB-18	Tundra	WELL/RISER/COLLAR	MECH FAILURE	10-14-10-29	.10	.90	.00	.99	200.00	.00
2018-03-W	30-JUN-18	Tundra	BAT/LINE/LINE	MECH FAILURE	08-33-01-24	4.40	.10	.00	4.50	200.00	.00
2018-04-W	06-OCT-18	Tundra	PIPELINE/HEADER/VALVE,DRAIN	HUMAN ERROR	15-21-01-25	1.00	.00	.00	.00	200.00	200.00
2018-05-V	01-MAR-18	Corex	FLOWLINE	MECHANICAL	01-31-09-28	1.50	6.50	.00	5.00	551.00	551.00
2018-05-W	22-OCT-18	Tundra	FLOWLINE/LINE/UNION	MECH. FAILURE	01-07-01-24	.10	.90	.00	.99	400.00	.00
2018-06-V	02-MAR-18	Cres Pt Ener	VALVE FROZE	MECHANICAL FAILURE	01-02-13-28	.01	7.90	.00	12.00	500.00	.00

# MANITOBA SPILL REPORT

15-SEP-21

**15-SEP-16**

**TO**

**15-SEP-21**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2018-06-W	25-OCT-18	Tundra	TKS/TANK, EMUL	MECH FAILURE	04-01-02-25	.10	.90	.00	1.00	105.00	.00
2018-07-V	14-MAR-18	Corex	FLOWLINE	MECHANICAL FAILURE RUPTURE	02-09-10-28	5.00	15.00	.00	18.00	900.00	900.00
2018-07-W	29-OCT-18	Tundra	WELL/TBG/STUFFING BOX	MECH FAILURE	14-01-04-22	.45	.05	.00	.50	25.00	.00
2018-08-V	05-APR-18	Vermilion	WELL/FLOWTEE/NIPPLE	CORROSION/INTERNAL	14-17-07-29	.04	.96	.00	.95	125.00	.00
2018-08-W	09-NOV-18	Tundra	TKS/EMUL/HOLE	CORROSION	05-01-02-25	.05	.50	.00	.50	400.00	.00
2018-09-V	07-APR-18	Tundra	WELL/FLOWLINE/ELBOW	MECH FAILURE	09-28-07-29	1.00	.00	.00	.99	175.00	.00
2018-09-W	09-NOV-18	Tundra	WELL/TBG SPOOL/VALVE	CORROSION	10-24-04-22	1.35	.15	.00	1.49	130.00	.00
2018-10-V	20-APR-18	Tundra	OIL TANK HOLE	CORROSION/INTERNAL	13-29-11-26	3.20	.00	.00	3.00	70.00	.00
2018-10-W	06-DEC-18	CNRL	FLOWLINE/JOINT/HOLE	MECH FAILURE	06-17-02-29	.25	.75	.00	.00	55.00	.00
2018-11-V	21-MAY-18	TORC	INSPECTION LINE RISER HOLE	MECH FAILURE	02-29-13-28	.25	4.75	.00	4.00	60.00	.00
2018-11-W	08-DEC-18	Tundra	WELL/RISER/UNION (HAMMER CAP)	HUMAN ERROR	02-04-01-24	.20	.20	.00	.39	700.00	700.00
2018-12-V	23-MAY-18	Corex	FLOWLINE/JOINT/HOLE	CORROSION	07-24-10-28	2.80	.20	.00	2.50	165.00	165.00
2018-12-W	12-DEC-18	Tundra	FLOWLINE/LINE	CORROSION	02-09-02-25	.00	3.00	.00	2.99	400.00	400.00
2018-13-V	28-MAY-18	Cres Pt Ener	WELL/HDR/CHECK VALVE	CORROSION	09-09-11-29	5.30	.20	.00	5.00	370.00	350.00
2018-13-W	15-DEC-18	CNRL	FLOWLINE/LINE/HOLE	MECHANICAL FAILURE	14-09-02-29	.00	3.50	.00	3.00	150.00	.00
2018-14-V	13-JUN-18	Corex	Disposal Shack/Fitting/Corrosi	Internal Corrosion	15-25-09-29	.00	1.50	.00	1.50	240.00	.00
2018-15-V	02-JUL-18	Fire Sky	FLOWLINE/HOLE	Mech Failure	12-24-12-27	2.00	33.00	.00	21.00	1267.00	1267.00
2018-16-V	26-JUL-18	Tundra	TANK DOOR	TANK DOOR FAILURE	03-03-11-28	1.10	6.40	.00	7.50	70.00	50.00
2018-17-V	01-AUG-18	Corex	WELL/FLOWLINE/JOINT	CORROSION	03-11-11-26	.70	1.30	.00	2.00	300.00	300.00
2018-18-V	18-AUG-18	Corex	WELL	CORROSION	14-11-10-26	.00	10.00	.00	9.00	40.00	.00
2018-19-V	21-AUG-18	Elcano Expl	WELL/JOIN/HOLE	PIPE FAILURE	03-34-12-27	.00	8.00	.00	4.50	5.57	.00
2018-20-V	29-AUG-18	TORC	FLOWLINE/RISER/HOLE	CORROSION INTERNAL	09-09-11-29	.12	5.88	.00	6.00	200.00	.00
2018-21-V	01-SEP-18	TORC	FLOWLINE	CORROSION	01-02-13-28	2.80	1.20	.00	4.00	64.00	.00
2018-22-V	06-SEP-18	Elcano Expl	WELL/TESTER/HOSE	MECH FAILURE/FAULTY HOSE	14-15-13-27	.03	2.97	.00	.00	200.00	.00
2018-23-V	11-SEP-18	Tundra	Flowline Hole	Mech Failure	11-25-09-28	.00	.00	2.00	1.50	4.00	4.00
2018-24-V	12-SEP-18	Tundra	Hydration Unit/Mech Failure	Mech Failure	09-26-09-28	.00	.00	.50	.50	30.00	.00
2018-25-V	12-SEP-18	Tundra	FLOWLINE		11-36-09-28	.00	.00	5.00	4.50	.00	.00
2018-27-V	29-SEP-18	Tundra	Well/Dragon Tank/Overflow	Human Error	08-25-09-29	.00	1.00	.00	2.00	16.00	.00
2018-28-V	02-OCT-18	Tundra	Battery Recycle Line	Rubber Gasket	13-14-08-29	2.40	.60	.00	2.90	350.00	350.00
2018-29-V	18-OCT-18	Corex	Piping/Join/Hole	Internal Corrosion	15-25-09-29	.10	.40	.00	.50	40.00	.00
2018-30-V	22-OCT-18	Corex	Dragon Tank Overflow	Human Error	04-03-10-28	.00	2.00	.00	.00	54.53	54.53
2018-31-V	03-NOV-18	Tundra	Wellhead Hammer Union	Mechanical Failure	11-04-08-28	.50	1.50	.00	1.99	208.00	.00
2018-32-V	07-NOV-18	TORC	TANK TRUCK OVERFLOW	Human Error	13-29-13-28	2.50	.00	.00	2.60	200.00	.00
2018-33-V	14-NOV-18	TORC	TRUCK	Human Error/TRUCK OVERFLOW	16-04-13-28	10.00	.00	.00	3.00	976.00	.00
2018-34-V	16-NOV-18	Tundra	TRUCK	Human Error/TRUCK OVERFLOW	04-01-08-29	.00	1.00	.00	.99	420.00	.00
2018-35-V	19-NOV-18	TORC	Flowline/Hole	Mech Failure	02-29-13-28	.00	.00	.00	97.50	748.00	.00
2018-36-V	19-NOV-18	Tundra	TANK TRUCK OVERFLOW	Human Error	04-01-08-29	.00	.50	.00	.49	150.00	.00
2018-37-V	20-NOV-18	Unknown/NA	Unknown	Unknown	13-32-09-29	.00	.20	.05	.56	10.00	.00

# MANITOBA SPILL REPORT

15-SEP-21

**15-SEP-16**

**TO**

**15-SEP-21**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2018-38-V	22-NOV-18	Tundra	Overfill Tank Fracing	Human Error	08-17-10-28	.00	.50	.00	.49	215.00	.00
2018-39-V	26-NOV-18	Tundra	TANK	CORROSION	10-28-10-28	.00	15.00	.00	14.95	133.00	.00
2018-40-V	07-DEC-18	0330	Pipeline	Unknown Volumes	10-16-11-26	1.00	.00	.00	.00	.00	.00
2018-41-V	13-DEC-18	Elcano Expl	BAT/TANK/OVERFLOW	MECH FAILURE/PLC	03-34-12-27	60.00	.00	.00	60.00	800.00	.00
2018-42-V	12-DEC-18	Imperial	Waste Line	Mech Failure	02-08-01-01	.00	.00	12.00	10.00	100.00	.00
2019-01-V	06-JAN-19	Corex	HDR/Flowline/Hole	Corrosion	12-22-11-26	.50	1.50	.00	1.50	70.00	.00
2019-01-W	02-JAN-19	Tundra	TRUCK/TANK/OVERFLOW	HUMAN ERROR	15-21-01-25	.00	1.00	.00	.99	20.00	20.00
2019-02-V	06-JAN-19	Elcano Expl	Disposal Pump/Piping Hole	Corrosion/internal	03-34-12-27	.00	3.00	.00	2.00	60.00	.00
2019-02-W	09-JAN-19	CNRL	WELL/FLOW TEE	OTHER - WILDLIFE	08-15-02-29	2.00	4.00	.00	5.50	518.00	.00
2019-03-V	20-JAN-19	Elcano Expl	Injection Line	Mechanical Failure/Hole	14-27-12-27	.00	20.00	.00	12.00	652.00	652.00
2019-03-W	20-JAN-19	Tundra	TKS/TANK/RIG/HOSE	HUMAN ERROR	16-31-01-25	.00	4.00	.00	3.99	120.00	120.00
2019-04-V	24-JAN-19	Corex	Vac Truck Valve	Human Error	07-28-09-25	.00	.00	.32	.00	100.00	100.00
2019-04-W	22-JAN-19	Tundra	SAT/HEADER/UNION(CAP ON PIGTRA	HUMAN ERROR	07-31-01-28	1.25	1.25	.00	2.49	225.00	.00
2019-05-V	09-FEB-19	Corex	Well/Stuffingbox/Packing	Mech Failure	12-06-11-26	.75	1.00	.00	1.75	85.00	.00
2019-05-W	01-FEB-19	CNRL	WELL/LINE/UNION	MECH FAILURE	01-30-02-29	.00	17.00	.00	15.00	1696.00	.00
2019-06-V	13-FEB-19	Elcano Expl	Well Head Piping	Corrosion Internal	13-22-12-27	.10	4.90	.00	3.00	210.00	.00
2019-06-W	19-MAY-19	Tundra	WELL/CASING BOWL/ROD LINER	MECH FAILURE	02-27-01-25	.75	.25	.00	.99	60.00	.00
2019-07-V	22-FEB-19	Tundra	Flowline/Joint/Hole	Mech Failure/Frozen Line	06-27-08-29	.18	.33	.00	.45	155.00	155.00
2019-07-W	23-MAY-19	Tundra	BAT/LINE/LINE	CORROSION	11-30-01-25	1.00	.00	.00	.90	100.00	.00
2019-08-V	24-FEB-19	Tundra	Above Ground Flowline	Mech Failure	12-26-18-29	2.00	8.00	.00	9.99	235.00	.00
2019-08-W	18-MAY-19	1576062 AB	WELL	CORROSION	05-08-06-28	2.50	.00	.00	2.50	.00	.00
2019-09-V	04-MAR-19	Tundra	Moyno Pump	Mech Failure	05-09-08-29	2.00	25.00	.00	26.73	1700.00	1700.00
2019-09-W	19-JUN-19	CNRL	BAT/TANK/OVERFLOW	MECH FAILURE	14-09-02-29	.00	5.00	.00	4.50	210.00	.00
2019-10-V	05-MAR-19	Elcano Expl	WELLHEAD	Mech Failure/Frozen Up	08-30-12-26	.10	.39	.00	3.50	14.86	.00
2019-10-W	26-JUN-19	Tundra	BATT/PUMP/LINE (DISCHARGE)	HUMAN ERROR	16-10-01-24	.00	.50	.00	.50	180.00	.00
2019-11-V	19-MAR-19	Corex	WELL	Valve Flowline	03-26-11-26	2.00	1.00	.00	4.50	400.00	.00
2019-11-W	14-AUG-19	Tundra	BAT/TANK/OVERFLOW	MECH FAILURE	08-31-02-23	14.90	.10	.00	15.00	93.00	.00
2019-12-V	21-MAR-19	BCX	WELL/VALVE	MECH FAILURE/CRACKED VALVE	02-23-09-26	4.00	.00	.00	.00	20.00	.00
2019-12-W	30-AUG-19	Melita Res	WELL /TBG SPOOL /STUFFING BOX	MECH FAILURE	09D-27-01-28	2.25	.25	.00	2.00	461.00	.00
2019-13-W	07-OCT-19	Tundra	SAT/LINE/HOLE	CORROSION	07-34-01-25	.50	1.00	.00	1.49	220.00	.00
2019-14-V	21-APR-19	Tundra	WELL/TANK/HOLE	CORROSION	01-25-16-28	.00	2.50	.00	2.50	100.00	.00
2019-14-W	20-OCT-19	Kingston Mar	BAT/TANK/OVERFLOW	HUMAN ERROR	12-30-01-25	.00	.00	.00	17.00	117.00	.00
2019-15-V	29-MAY-19	Vertex	TRUCK	Human Error	04-33-08-28	.50	.00	.00	.25	100.00	100.00
2019-16-V	02-JUN-19	Flushing Ene	TANK	Corrosion	01-15-13-27	2.00	13.00	.00	15.00	.00	.00
2019-17-V	11-JUN-19	0330	PUMP/VALVE/SUMP	HUMAN ERROR	12-16-09-28	2.40	.00	.00	2.30	350.00	350.00
2019-18-V	17-JUN-19	Corex	Wellhead Flow Tee	Human Error	16-13-10-26	.50	4.50	.00	6.00	249.00	.00
2019-19-V	12-JUL-19	Corval Energ	TEST TANK HOLE	INTERNAL CORROSION	12-22-08-28	5.05	24.45	.00	28.50	1200.00	.00
2019-20-V	22-JUL-19	Corex	BAT/TANK/LOAD BOX	Human Error	04-22-11-26	.25	.85	.00	.60	285.00	.00

# MANITOBA SPILL REPORT

15-SEP-21

**15-SEP-16**

**TO**

**15-SEP-21**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2019-21-V	20-AUG-19	Corex	Well Head Fitting Hole	Internal Corrosion	05-29-09-28	.00	4.00	.00	7.00	525.00	125.00
2019-22-V	22-AUG-19	Corex	FLOWLINE/JOINT/HOLE	Corrosion/External	15-21-11-26	10.00	40.00	.00	45.00	200.00	200.00
2019-23-V	01-SEP-19	TORC	Injector Pump Filter Pot	Mech Failure	16-04-13-28	.00	12.00	.00	26.00	3814.00	814.00
2019-24-V	09-SEP-19	Corex	WELL	Mech Failure	01-12-11-26	.20	.80	.00	1.00	182.00	.00
2019-25-V	16-SEP-19	Tundra	FLOWLINE	MECH FAILURE	02-14-12-27	.36	35.64	.00	58.00	6650.00	.00
2019-26-V	08-SEP-19	Corval Energ	WELLHEAD PACKING LEAK	MECH FAILURE	01-22-08-28	.74	.07	.00	.80	4.00	.00
2019-27-V	31-OCT-19	TORC	WELL/TANK/HOLE	CORROSION	03-24-14-29	.00	5.00	.00	5.00	80.00	80.00
2019-28-V	21-SEP-19	Corval Energ	WELL	PACKING LEAK	12-27-08-28	3.50	.00	.00	3.50	544.50	.00
2019-29-V	05-NOV-19	TORC	RISER	CORROSION	09-01-14-29	.00	1.00	.00	1.00	40.00	.00
2019-30-V	12-NOV-19	Tundra	WELL/FLOWLINE/HOLE	CORROSION	10-36-16-28	.75	.25	.00	.95	100.00	.00
2019-31-V	13-DEC-19	Corex	TANK	HUMAN ERROR	13-28-09-28	1.50	3.50	.00	5.00	122.00	.00
2020-01-V	01-FEB-20	Tundra	TRUCK	MECH FAILURE	12-03-13-28	.00	1.50	.00	1.47	892.00	.00
2020-01-W	03-JAN-20	Tundra	WELL/TANK	MECH FAILURE	04B-01-02-25	.00	2.00	.00	2.00	1125.00	.00
2020-02-V	03-FEB-20	Vermilion	WELL/TANK	HUMAN ERROR	04-09-16-27	.00	.00	1.00	3.00	1929.00	.00
2020-02-W	21-JUL-20	Tundra	FLOWLINE/LINE/HOLE	MECH FAILURE	04-25-01-26	.00	2.45	.50	2.50	284.00	284.00
2020-03-V	05-FEB-20	Tundra	WELL/FRAC DRAGON TANK/OVERFLOW	HUMAN ERROR	14X-33-09-28	.00	.60	.00	.59	170.00	.00
2020-03-W	30-JUL-20	CNRL	BAT/TANK/CHECK VALVE	MECH FAILURE	14-09-02-29	1.88	.13	.00	1.50	210.00	.00
2020-04-V	08-MAR-20	Kingston Vir	TERMINAL/VARSOL TK/PUMP/VALVE	HUMAN ERROR	13-16-09-28	.00	.00	1.20	.10	70.00	.00
2020-05-V	22-MAR-20	Tundra	FLOWLINE	MECH FAILURE	13-04-08-28	.50	.50	.00	.99	180.00	.00
2020-06-V	25-MAR-20	Unknown/NA	TRUCK	DELIBERATE SPILL	13-06-10-28	.50	.00	.00	1.50	20.00	20.00
2020-07-V	02-MAY-20	Corex	SAT/RISER/HOLE	CORROSION/INTERNAL	07-33-11-28	.00	.00	3.50	3.50	35.00	.00
2020-08-V	11-MAY-20	Tundra	FLOWLINE	MECH FAILURE	03-04-08-29	.50	2.50	.00	2.40	652.00	.00
2020-09-V	04-JUN-20	Tundra	FLOWLINE	MECH FAILURE	14-15-09-29	.00	.00	.40	.00	.50	.00
2020-10-V	09-JUN-20	Tundra	BATTERY	MECH FAILURE	03-04-08-29	.50	1.00	.40	1.38	236.00	.00
2020-11-V	26-JUN-20	Corex	FLOWLINE	INTERNAL CORROSION	10-25-10-26	.50	3.50	.00	2.00	1560.00	1000.00
2020-12-V	19-JUL-20	Corex	BAT/FLOWLINE/FLEXPipe	MECHFAILURE/FLEXPipe	09-06-11-25	1.00	10.00	.00	8.00	.00	400.00
2020-13-V	24-JUL-20	Kingston Mar	TANK/RISER/PIPING/HOLE	CORROSION	12-16-09-28	5.00	.00	.00	3.50	5000.00	5000.00
2020-14-V	22-AUG-20	Tundra	WELL HEAD	HUMAN ERROR	06-30-10-28	1.50	1.50	.00	2.95	404.00	.00
2020-15-V	26-SEP-20	Corex	RISER	MECHANICAL FAILURE	06-15-11-26	.50	1.00	.00	1.50	25.00	.00
2020-16-V	09-OCT-20	Elcano Expl	PIPING	CORROSION	08-30-12-26	.20	6.30	.00	5.50	20.00	.00
2020-17-V	12-OCT-20	Corex	TRUCK	TANK OVERFLOW/ HUMAN ERROR	09-23-09-28	1.00	2.50	.00	3.50	.00	.00
2020-18-V	19-OCT-20	Tundra	PIPING	CORROSION	02-14-12-27	.99	.01	.00	.90	192.00	.00
2020-19-V	18-DEC-20	Corex	PIPELINE	CORROSION	06-15-11-26	.40	1.60	.00	2.00	.00	.00
2020-20-V	20-DEC-20	Tundra	RECYCLE LINE	CORROSION	03-04-08-29	9.00	9.00	.00	16.00	867.00	.00
2021-01-V	28-JAN-21	Tundra	TANK	HUMAN ERROR	09-06-10-28	.00	1.00	.00	.95	433.00	.00
2021-01-W	20-JAN-21	Tundra	TRUCK/VALVE	HUMAN ERROR	16-09-01-24	.00	1.00	.00	1.00	274.00	.00
2021-02-V	09-FEB-21	Corex	HEADER	FROZEN VALVE	15-16-11-26	.20	.30	.00	.50	21.00	.00
2021-02-W	06-FEB-21	Tundra	FLOWLINE/EMUL/VALVE	HUMAN ERROR	07B-06-01-24	.03	.48	.00	.50	115.00	.00

# MANITOBA SPILL REPORT

15-SEP-21

**15-SEP-16**

**TO**

**15-SEP-21**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2021-03-V	23-FEB-21	Vermilion	TANK	CORROSION	08-16-07-29	2.25	.75	.00	3.00	530.00	.00
2021-03-W	25-FEB-21	TEI	TKS/TANK/VALVE	MECH FAILURE	11B-36-02-29	.00	16.00	.00	16.00	.00	.00
2021-04-V	03-MAR-21	Tundra	WELL	CORROSION	05-28-10-29	1.00	4.00	.00	4.90	774.00	.00
2021-05-V	28-MAR-21	Corex	HEADER	MECHANICAL FAILURE	05-18-10-27	.00	.00	70.00	60.00	1630.00	.00
2021-06-V	25-MAR-21	Corex	BATTERY	MECHANICAL FAILURE	02-11-10-28	.00	6.00	.00	6.00	5.00	.00
2021-08-V	13-APR-21	Corex	FLOWLINE	CORROSION	04-22-11-26	1.00	4.00	.00	5.00	500.00	500.00
2021-09-V	20-APR-21	Tundra	WELL HEAD	PACKING LEAK	04-01-28-29	.70	.30	.00	.95	80.00	.00
2021-11-V	08-MAY-21	Tundra	FLOW LINE	HUMAN ERROR	11-10-13-28	.10	.90	.00	1.00	51.30	.00
2021-12-V	04-JUN-21	Tundra	HEADER	MECHANICAL	16-17-10-29	1.00	1.00	.00	1.90	734.00	.00
2021-13-V	07-JUN-21	CNRL	WELL HEAD	PACKING FAILURE	13-10-02-29	.80	.00	.00	.70	610.00	.00
Total:	200					351.98	983.61	103.93	1495.78	108503.26	55238.53