



**LOCATION MAP**



**LEGEND**

**Monitoring Stations**

- Sediments
- Well monitoring
- Biotic monitoring

Puerto Bolívar Project – Phase I  
 Environmental License MAE-RA-2017-309603

- Port Terminal
- Modified Channel (EAC Dredged – Approved)
- - - Dredging Project area (original route)

**Dock 6 Environmental**

- Dock 6
- Political division
- Administrative boundaries

Datum WGS 84  
 UTM Zone 17 S Coordinates

**LOCATION MAP  
 MONITORING STATIONS  
 PUERTO BOLIVAR PROJECT – PHASE 1**

Prepared by: ECOSAMBITO C.LTDA.	Developer: YILPORTECU
Scale: 1 : 125.000	Date: December 2020

Id	Station	Reference	UTM 17S Coordinates		Monitoring Type
			x	y	
1	Well 2		611299	9639333	Water quality
1	Station 1	Deposit basin at open sea	585430	9650007	Biotic (phyto, zoo, ichthyo plankton)
2	Station 2	Deposit basin at open sea	585211	9650022	Biotic (phyto, zoo, ichthyo plankton)
3	Station 3	Deposit basin at open sea	585028	9649483	Biotic (phyto, zoo, ichthyo plankton)
4	<i>Santa Clara</i> Island	Limit RMISC	571738	9647929	Biotic (phyto, zoo, ichthyo plankton)
5	Puerto Bolívar	In front of APPB	610680	9639902	Biotic (phyto, zoo, ichthyo plankton)
1	P1	In front of APPB	610680	9639902	Shrimp mortality bioassays
2	P2	In front of the Naval High School	610682	9640521	Shrimp mortality bioassays
3	P3	<i>Isla del Amor</i> Island	610505	9641879	Shrimp mortality bioassays
4	P4	<i>El Coco</i> Entrance	611365	9645418	Shrimp mortality bioassays
5	P5	El Faro Point	608302	9646721	Shrimp mortality bioassays
6	P6	<i>Jambeli</i> Entrance	609094	9642541	Shrimp mortality bioassays
1	P1	In front of APPB	610680	9639902	Water and Soil quality in sediments
2	P2	In front of Navy High School	610682	9640521	Water and Soil quality in sediments
3	P3	<i>Isla del Amor</i> Island	610505	9641879	Water and Soil quality in sediments
4	P4	<i>El Coco</i> Entrance	611365	9645418	Water and Soil quality in sediments
5	P5	El Faro Point	608302	9646721	Water and Soil quality in sediments
6	P6	<i>Jambeli</i> Entrance	609094	9642541	Water and Soil quality in sediments
7	P7	Sediment basin	611860	9640136	Soil quality in sediments

Parameters	Unit	LMP*	BASELINE	May-18	Jun-18	Sep-18	Dec-18	Mar-19	June-19	Sept-19
			VALUES (april-2017)	P1	P1	P1	P1	P1	P1	P1
Carbon monoxide (CO) <sup>aver. h/8h</sup>	µg/m <sup>3</sup>	10000.00	2086.62	1412.80	2505.62	3.50	524.00	114.00	556.00	365.00
Carbon monoxide (CO)	µg/m <sup>3</sup>	30000.00					1497.00	114.00	1247.00	802.00
Nitrogen oxide (NO)	µg/m <sup>3</sup>	--					94.00	133.00	94.00	94.00
Nitrogen dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	200.00	11.29	12.30	11.93	5.47	94.00	94.00	94.00	94.00
Sulfur dioxide (SO <sub>2</sub> ) <sup>10 min. aver.</sup>	µg/m <sup>3</sup>	500.00					125.00	125.00	125.00	125.00
Sulfur dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	125.00	8.9	11.75	10.76	10.78	125.00	125.00	125.00	125.00
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	100.00	23.56	25.69	24.94	4.18	98.00	98.00	98.00	98.00
PM10	µg/m <sup>3</sup>	100.00					29.00	22.00	29.00	17.00
PM2.5	µg/m <sup>3</sup>	50.00					19.00	8.00	15.00	10.00

\* Ministerial Resolution 097A, Appendix 4: Quality of air or Immission level Standard, Section 4.1.2. General standards for concentration criteria in the air. It indicates limit value of credited quantification. It should be interpreted like "minor than" (<) 0.00 that surpasses MPL\* value

Dec-19	Mar-20	June-20	Sept-20	Dec-20
P1	P1	P1	P1	P1
432.00	4291.00	541.00	751.00	5658.00
--	4745.00	4793.00	1860.00	5876.00
--	94.00	94.00	94.00	94.00
19.00	94.00	94.00	94.00	94.00
--	125.00	125.00	125.00	125.00
26.00	125.00	125.00	125.00	125.00
37.00	98.00	98.00	98.00	98.00
54.00	45.00	42.00	33.00	18.00
20.00	9.00	42.00	18.00	11.00

## MONITORING RECORD AND FOLLOW-UP

## ENVIRONMENTAL NOISE

YILPORTECU S.A.

Monitoring Points	MPL*	LMP**	BASELINE (Apr-2017)	May-18	June-18	Sept-18	Dec-18-	Mar-19	June-19	Sept-19
P1 (Dock N° 1)	70	85	62	60.6	71.5	62.1	64	68	62	66
P2 (Operational offices)	70	85	66	66.8	68.7	64.3	65	69	66	64
P3 (Dock N° 5)	70	85	67	78.7	76.5	69.3	54	-	67	65
P4 (Coastal fishing Dock)	60	85	70	82.3	56.5	63	-	-	70	-

\* Ministerial Resolution 097A, Appendix 5: Maximum Levels of Noise Emissions and Measure methodology for Stationary and Mobile Sources, Table 1: Maximum Levels of Noise Emissions (L<sub>Keq</sub>) for Stationary Noise Sources according to:

\*\* Occupational Health and Safety Regulation, and Environmental Improvement at Work, Art. 55 Noise and Vibrations.

0.00 If the result exceeds MPL\*

0.00 If the result exceeds MPL\*\*

-- No conditions to quantify L<sub>keq</sub> from source (when difference between L<sub>Aeq,tp</sub> – L<sub>ASeq</sub> is lower to 3 dB under conditions of lower residual noise).

Dec-19	Mar-20	June-20	Sept-20	Dec-20
66	53	--	55	56
71	60	62	48	63
61	47	45	49	55
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MONITORING RECORD AND FOLLOW-UP

WATER QUALITY

Monitoring Period:		BASELINE VALUES (apr-2017)						March-18						
Parameters	MPL*	P1	P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6	P1
pH	[6.5-9.5]							8.23	8.31	8.24	8.55	8.4	8.03	7.96
Conductivity								35100	33700	33400	28000	30900	34300	45000
Temperature								28.6	28.9	28.5	29.9	29	28.5	26.1
Dissolved Oxygen		5.17	4.65	5.93	6.32	6.64	6.64	7.1	7.4	6.8	8	7.8	4.4	8
Oxygen Saturation	>60							91.9	96.4	88.9	100	100	56.3	101.9
OHS		106	87	66	93	182	182	15	8	163	11	55	97	89
Ammonium	0.4							0.14	0.1	0.24	0.06	0.09	0.1	0.13
Ammonium as ammonia	0.4	0.06	0.036	0.036	0.036	0.036	0.036	0.13	0.09	0.23	0.06	0.08	0.09	0.12
Oil and grease	0.3	0.44	0.44	0.44	0.44	0.44	0.44	0.8	0.3	0.6	0.6	0.6	1.2	0.3
BOD		9.12	19	18	20	17	17	2	2	2	2	2	2	2
COD		18	36	34	40.2	32	32	50	50	50	50	50	50	50
HTP	0.5	0.04	0.04	0.04	0.04	0.04	0.04	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Detergent-surfactant	0.5	0.027	0.045	0.016	0.016	0.016	0.016	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Fecal coliforms		2	2	1	2	5	5	430	930	430	40	130	230	230
Arsenic	0.05	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cadmium	0.005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Coper	0.005	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total Chrome	0.05	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002

MONITORING RECORD AND FOLLOW-UP

WATER QUALITY

Iron	0.3	0.0047	0.0047	0.0047	0.0047	0.0047	0.0047	0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.1
Mercury	1E-04	0.005	0.005	0.005	0.005	0.005	0.005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Total Organochlorine	0.01	-	-	-	-	-	-	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Total Organophosphate	0.01	-	-	-	-	-	-	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Organonitrogen**		-	-	-	-	-	-	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Carbamate**		-	-	-	-	-	-	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005

\* AM 097A, Appendix 1: Environmental Quality and Effluents Discharge Standard to Water Resource, Table 2: Allowable Quality Criterion for preservation of aquatic and wildlife on Fresh Water, Marine Water and Estuaries

\*\* Larger value detected by type of pest.

Indicate limit value of authorize measuring. It should be interpreted like “minor than” (<)

0.00 If the result exceeds MPL\*



MONITORING RECORD AND FOLLOW-UP

WATER QUALITY

Apr-18					May-18						Aug-19					
P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6
8.03	8.1	8.32	8.17	8.03	7.86	7.87	7.8	7.38	7.53	6.76						
42700	42400	43900	43600	45900	44500	45100	45400	35900	47000	47100	81100	81200	77000	81000	82700	81900
27.2	28.1	27.1	26.6	25.1	27.1	27	27	29.9	27.4	26.4	24.4	24.4	24.3	23.9	23.8	26.1
8.3	8.6	8.3	8.7	6.7	7.2	6.9	7	8.2	8.3	7.7	6.4	6.6	6.3	6.6	6.6	7
102.7	109.9	105.2	108.1	82.9	91.8	88.4	91	100	97	97.4	94	96.4	92.3	96	96.3	100
150	53	46	220	237	14	12	16	15	13	68	29	49	43	73	66	99
0.14	0.13	0.08	0.1	0.11	0.15	0.14	0.12	0.12	0.07	0.19	0.09	0.13	0.11	0.07	0.06	0.07
0.14	0.12	0.07	0.1	0.1	0.14	0.14	0.11	0.11	0.07	0.18	0.08	0.13	0.1	0.07	0.06	0.07
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.04	0.3	0.8	1	0.3	0.3	0.3	0.3	0.3	0.3
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
80	50	90	50	50	50	50	50	50	50	50	50	50	50	50	50	50
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
0.1	0.1	0.1	0.1	0.17	0.08	0.06	0.08	0.05	0.02	0.02	0.03	0.04	0.04	0.04	0.03	0.03
230	430	230	230	230	90	30	40	30	430	150	40	30	230	70	230	30
0.0005	0.0005	0.0005	0.0005	0.0005	0.0055	0.012	0.012	0.011	0.012	0.0055	0.025	0.025	0.025	0.025	0.025	0.025
0.0001	0.0001	0.0001	0.0001	0.0001	0.0011	0.0001	0.0001	0.0001	0.001	0.0011	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.02	0.005	0.005	0.005	0.005	0.005	0.005
0.0002	0.0002	0.0002	0.0002	0.0002	0.0031	0.002	0.002	0.002	0.002	0.0056	0	0.01	0.01	0.01	0.01	0.01
1.1	1.1	1.1	1.2	0.8	0.04	0.2	0.2	0.21	0.26	2.5	0.3	0.3	0.3	0.3	0.3	0.41
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005

MONITORING RECORD AND FOLLOW-UP

WATER QUALITY

Nov-18						Dec-18						Feb-19						Apr-19		
P1	P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6	P1	P2	P3
						8.28	8.2	8.3	8.15	8.25	8.25	8.18	8.21	8.25	8.27	7.97	7.64	8.09	8.13	8.15
444000	447000	44800	43900	44900	45000	44400	44700	44800	43900	44900	45000	38300	37900	37400	44500	35200	35000	64200	63400	64600
27	26.9	26.9	26.3	27.3	26.3	26.9	26.9	26.9	26.2	27.1	26.2	30.6	30.1	30.5	28.6	29.2	29	27.5	28.2	28.2
7.4	7.6	7.8	7.9	7.8	7.7	7.4	7.6	7.8	7.9	7.8	7.7	7.9	7.4	7.5	8.2	7.5	7.3	5.9	6.6	6.4
93.2	97	98.2	99.4	98.8	96.5	93.2	97	98.2	99.4	98.8	96.5	101.5	101.1	101.4	108.6	99.3	95.6	75.1	82.3	83.6
159	151	170	203	127	174	157	168	230	183	188	177	123	100	100	121	91	88	9	11	8
0.17	0.11	0.16	0.12	0.11	0.13	0.03	0.02	0.44	0.03	0.03	0.03	0.19	0.04	0.1	0.04	0.06	0.11	0.04	0.06	0.04
0.16	0.11	0.15	0.11	0.1	0.12	0.03	0.02	0.42	0.02	0.03	0.03	0.18	0.03	0.1	0.04	0.06	0.1	0.04	0.05	0.04
0.3	0.3	0.3	0.3	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	5	5	5
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.06	0.04	0.04	0.03	0.08	0.05	0.11	0.2	0.2	0.2
90	30	30	230	40	40	430	230	430	230	230	230	150	230	430	30	750	230	930	430	2400
0.005	0.005	0.0058	0.005	0.005	0.005	0.0036	0.0026	0.0043	0.0036	0.0025	0.0035	0.005	0.005	0.005	0.005	0.005	0.005	0.011	0.014	0.019
0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.005	0.035	0.026	0.021	0.005	0.028	0.01	0.008	0.005	0.008	0.005	0.006	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.0035	0.002	0.001	0.002	0.002	0.002	0.0022	0.0002	0.0002	0.0002	0.0002	0.0002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.36	0.24	0.2	0.35	0.2	0.2	0.49	0.78	1.8	2	0.76	0.68	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.001	0.001
0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.001	0.001	0.001	0.001	0.001	0.001	0.0005	0.0005	0.0005

MONITORING RECORD AND FOLLOW-UP

WATER QUALITY

			May-19						Aug-19						Nov-19						
P4	P5	P6	P1	P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6	P1
8.16	8.22	7.27	8.2	8.2	8.3	8.3	8.3	8.2	8.27	8.25	8.3	8.29	8.28	8.36	8.34	8.32	8.38	8.41	8.45	8.35	8.07
40200	50500	62600	43700	44400	44500	46600	45500	45700	50000	49900	50500	49900	50900	51300	48700	49600	49200	49500	50000	49600	48400
28.1	27.7	27.7	28.9	28.7	27.8	26.9	27.3	27.1	24.9	24.9	24.4	24.5	24.1	24.5	26.2	26.2	25.5	26	25.9	26.2	29.4
6.9	6.9	5.9	6.4	6.9	6.8	6.7	7.8	7	8.24	8	8.1	8	8.6	8.6	8.4	8.5	8.4	8.6	8.5	8.6	6.2
89.5	87	76.8	81.3	88	85.8	83.5	97.9	88.4	100	97.2	98.7	96.2	100	100	100	100	100	100	100	100	80.8
24	22	13	26	18	27	17	8	18	30	14	10	34	27	19	13	18	11	12	12	9	9
0.09	0.06	0.07	0.11	0.13	0.05	0.13	0.08	0.1	1.1	0.14	0.34	0.21	0.13	0.16	0.14	0.07	0.04	0.13	0.04	0.15	0.07
0.09	0.05	0.06	0.1	0.13	0.05	0.12	0.07	0.09	1	0.14	0.32	0.2	0.13	0.15	0.13	0.06	0.04	0.12	0.04	0.14	0.07
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	5	5	5	5	5	5	5	30	30	20	28	27	28	28	20	40	5	5	30	50	10
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
0.2	0.2	0.2	0.1	0.12	0.1	0.11	0.12	0.18	0.29	0.14	0.06	0.08	0.1	0.05	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2400	2400	230	230	930	150	150	430	230	90	11000	40	30	40	4600	30	930	230	230	230	930	230
0.0094	0.018	0.012	0.005	0.005	0.005	0.0059	0.005	0.005	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.01
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.0004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004
0.2	0.2	0.37	0.2	0.2	0.2	0.2	0.2	0.26	0.07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005

MONITORING RECORD AND FOLLOW-UP

WATER QUALITY

Feb-20					May-20						Aug-20						Nov-20				
P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6	P1	P2	P3	P4	P5	P6	P1	P2	P3	P4	P5
8.12	8.13	8.19	8.28	8.21	8.05	8.74	8.28	8.36	7.53	8.63	8.53	8.66	8.61	8.67	8.53	8.63	8.2	8.22	8.19	8.27	8.23
46100	48100	45500	41300	46200	48300	46200	49700	47400	47200	47400	53300	53800	54800	54600	54800	54900	45300	46500	47000	47100	46900
29.3	29.5	30.8	30.8	29.8	31	29	28.5	29.5	29.3	29.5	25	24.7	24.1	24.1	23.5	24.2	26.1	26.9	26.3	25.3	25.7
7.3	7.4	7.7	8	7.1	6.3	6.9	7.6	8.1	7.5	7.5	8.2	8.6	8.9	8.9	8.6	8.3	8.5	8.4	8.4	8.8	8.6
94.8	95.2	98.7	98.1	93.1	85	85.6	92.7	98.1	92	92.4	98.8	100	100	100	100	100	100	100	100	100	100
15	11	5	10	22	21	9	14	7	49	14	142	178	62	13	96	11	5	7	11	9	6
0.08	0.06	0.06	0.05	0.07	0.1	0.1	0.1	0.1	0.1	0.1	0.08	0.09	0.05	0.08	0.07	0.08	0.12	0.07	0.07	0.07	0.08
0.07	0.06	0.06	0.05	0.06	0.1	0.1	0.1	0.1	0.1	0.1	0.08	0.08	0.05	0.08	0.07	0.07	0.12	0.07	0.06	0.07	0.07
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
50	50	50	50	50	5	5	50	5	5	5	5	5	5	5	5	5	5	5	5	5	5
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
230	230	30	230	30	30	90	90	30	40	40	40	230	90	70	40	230	40	30	230	30	40
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005

	Dec-20					
P6	P1	P2	P3	P4	P5	P6
8,11	8,23	8,26	8,22	8,2	8,25	8
47400	45800	46400	47000	47400	46700	47800
25,6	26,1	26,4	26,1	25,3	25,3	25,2
8,5	8,5	8,4	8,5	8,7	9,1	8,9
100	100	100	100	100	100	100
20	10	12	8	15	14	11
0,07	0,07	0,1	0,05	0,05	0,05	0,04
0,07	0,06	0,09	0,05	0,04	0,04	0,04
0,3	0,3	0,3	0,3	0,3	0,3	0,3
2	2	2	2	2	2	2
5	5	5	5	5	5	5
0,3	0,3	0,3	0,3	0,3	0,3	0,3
0,4	0,4	0,4	0,4	0,4	0,4	0,4
40	90	230	40	40	30	30
0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,002	0,002	0,002	0,002	0,002	0,002	0,002
0,1	0,1	0,1	0,1	0,1	0,1	0,1
0,004	0,004	0,004	0,004	0,004	0,004	0,004
0,4	0,4	0,4	0,4	0,4	0,4	0,4
0,002	0,002	0,002	0,002	0,002	0,002	0,002
0,0001	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
0,001	0,001	0,001	0,001	0,001	0,001	0,001
0,001	0,001	0,001	0,001	0,001	0,001	0,001
0,0005	0,0005	0,0005	0,0005	0,0005	0,0005	0,0005

MONITORING PERIOD			BASELINE VALUES (Apr-2017)							3/1/2018				
Parameters	MPL**	LMP**	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5
pH	[6. 8]		7.90	8.14	8.14	7.99	8.00	8.21		8.00	8.30	8.70	8.70	8.40
HTP	150.00		1103.00	1131.00	1131.00	1256.00	1090.00	1005.00	-	50.00	50.00	50.00	50.00	50.00
Arsenic	12.00	7.24	0.60	1.70	0.60	1.60	0.60	0.60	-	9.70	7.00	4.80	4.20	2.30
Cadmium	0.50	0.70	1.00	1.00	2.00	2.00	1.00	1.00	-	0.30	0.20	0.05	0.03	0.03
Copper	25.00	18.70	15.00	9.00	8.00	9.00	11.00	10.00	-	26.00	21.00	6.20	1.80	3.00
Total Chrome	54.00	52.30	23.00	17.00	20.00	15.00	19.00	17.00	-	26.00	21.00	10.00	7.50	7.60
Iron			>500	>500	>500	>500	>500	>500	-	1.90	1.70	1.40	1.30	0.70
Mercury	0.10	0.13	0.26	0.26	0.26	0.26	0.26	0.26	-	0.03	0.03	0.03	0.03	0.03
Lead	19.00	30.20	10.30	12.60	12.60	7.10	6.50	9.70	-	13.00	11.00	7.50	6.20	3.80
Organochlorine***			-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
Dieldrin		0.00071	-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
Endrin		0.00267	-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
Heptachlor		0.00060	-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
pp'DDE		0.00200	-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
pp'DDT		0.00110	-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
pp'DDD		0.00120	-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
Organophosphate***			-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
Organonitrogen***			-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01
Carbamate***			-	-	-	-	-	-	-	0.01	0.01	0.01	0.01	0.01

\*AM 097-A, Appendix 2, Table 1: Soil Quality Criteria.

\*\* Canadian Guideline Values for Environmental Quality in Bodies of Water.

\*\*\* Larger value detected by kind of pesticide

Indicate limit value of credit quantification. it should be interpreted as "minor than" (<).

0.00 If the result exceeds MPL \*

0.00 If the result exceeds MPL \*\*

MONITORING RECORD AND FOLLOW-UP

SOIL QUALITY

		4/1/18							5/1/18							8/1/18				
P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5
8.40	8.80	8.70	8.70	8.10	8.60	-- 8.00	8.70	8.40	8.30	8.40	8.40	8.60	8.90	8.60	8.60	8.40	8.70	8.80	8.90	8.70
50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
7.00	4.50	8.20	14.00	11.00	12.00	6.90	4.00	8.70	12.00	11.00	9.70	9.80	8.30	11.00	6.10	7.80	8.70	7.30	7.30	5.60
0.24	0.08	0.10	0.20	0.20	0.07	0.10	0.08	0.10	0.20	0.30	0.20	0.10	0.10	0.20	0.05	0.16	0.20	0.06	0.04	0.09
17.00	12.00	15.00	34.00	30.00	21.00	22.00	8.10	26.00	33.00	33.00	32.00	17.00	45.00	22.00	6.80	24.00	24.00	12.00	12.00	14.00
20.00	14.00	17.00	32.00	30.00	21.00	22.00	8.70	9.80	32.00	31.00	29.00	19.00	28.00	26.00	9.20	25.00	25.00	13.00	13.00	16.00
1.60	1.50	1.80	3.00	2.60	2.70	2.00	0.90	1.50	2.50	2.50	2.30	2.20	2.30	2.20	1.60	2.20	2.30	1.60	1.80	1.50
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
9.70	8.20	6.50	12.00	11.00	9.10	7.40	3.80	5.70	12.00	12.00	11.00	8.50	9.00	9.80	5.90	8.70	9.30	5.50	6.40	5.80
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

MONITORING RECORD AND FOLLOW-UP

SOIL QUALITY

		11/1/18							12/1/18							2/1/19				
P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5
8.50	8.20	8.20	8.50	8.80	9.00	8.70	8.40	8.00	8.50	8.50	8.20	8.60	8.80	8.40	7.30	8.40	8.50	8.90	8.60	8.20
50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
8.30	4.50	13.00	12.00	9.90	8.40	11.00	11.00	11.00	9.30	7.90	10.00	9.60	4.70	11.00	9.20	4.90	4.90	5.50	5.00	6.90
0.10	0.03	0.30	0.10	0.10	0.05	0.20	0.20	0.10	0.30	0.30	0.30	0.40	0.10	0.30	0.10	0.10	0.10	0.10	0.10	0.10
19.00	5.90	39.00	31.00	34.00	16.00	35.00	31.00	27.00	40.00	36.00	34.00	39.00	9.60	34.00	32.00	16.00	12.00	7.00	7.20	7.00
21.00	7.80	34.00	29.00	30.00	12.00	36.00	30.00	24.00	27.00	25.00	31.00	31.00	9.60	30.00	19.00	18.00	11.00	9.70	10.00	10.00
1.90	1.30	3.10	2.70	2.80	2.10	2.90	2.50	2.30	2.30	2.10	2.70	2.70	1.00	2.80	2.40	2.10	1.30	1.70	1.40	1.70
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7.90	4.90	14.00	12.00	12.00	8.20	13.00	11.00	11.00	8.60	8.20	9.90	9.80	3.50	9.90	9.10	7.70	5.30	4.90	4.20	4.70
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



MONITORING RECORD AND FOLLOW-UP

SOIL QUALITY

		4/1/19							5/19/19							8/1/19				
P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5
8,30	6,30	8,70	8,30	8,80	8,80	8,60	8,70	8,60	8,30	8,50	8,80	8,80	8,80	8,70	8,40	8,30	8,30	8,80	8,80	8,90
50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00	50,00
2,50	7,90	7,60	7,00	8,10	6,50	12,00	5,50	6,80	13,00	10,00	7,40	8,80	11,00	10,00	11,00	8,90	8,70	7,90	10,00	6,90
0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,20	0,20	0,20	0,10	0,20	0,30	0,10	0,10	0,10	0,10	0,10	0,10
4,60	16,00	19,00	21,00	26,00	18,00	28,00	9,00	22,00	0,20	0,20	0,20	0,20	0,20	0,20	0,20	14,00	20,00	0,20	15,00	3,60
7,40	16,00	26,00	23,00	31,00	22,00	33,00	15,00	27,00	30,00	19,00	24,00	27,00	28,00	29,00	28,00	21,00	26,00	17,00	21,00	12,00
0,70	2,30	2,30	2,00	2,70	2,10	2,90	1,50	2,20	2,30	1,90	1,90	2,10	2,30	2,20	2,20	1,70	1,90	1,70	2,20	1,10
0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10
2,50	9,10	8,80	7,70	10,00	7,40	12,00	5,40	8,60	10,00	8,80	8,20	8,50	9,80	10,00	10,00	9,00	9,50	6,00	8,50	5,30
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01

MONITORING RECORD AND FOLLOW-UP

SOIL QUALITY

		11/1/19							2/1/20							5/1/20				
P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5
8.70	8.30	8.50	8.00	8.70	9.00	8.60	8.70	8.30	8.50	8.40	8.60	9.00	9.00	8.90	6.60	8.60	8.30	8.50	8.70	8.70
50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	182.00	50.00	50.00	50.00	50.00	50.00
6.10	9.20	7.30	17.00	9.30	6.90	6.10	4.70	8.90	13.00	12.00	11.00	10.00	9.70	7.40	8.50	8.40	10.00	7.90	11.00	7.70
0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.40	0.20	0.10	0.20	0.10	0.10	0.30	0.30	0.30	0.20	0.20
3.00	15.00	14.00	18.00	12.00	3.00	13.00	2.30	17.00	30.00	33.00	38.00	14.00	27.00	12.00	21.00	25.00	29.00	23.00	16.00	20.00
12.00	26.00	16.00	17.00	13.00	6.10	21.00	7.10	16.00	25.00	29.00	30.00	14.00	26.00	10.00	19.00	20.00	19.00	18.00	11.00	23.00
1.10	2.00	1.60	1.90	1.40	1.40	2.00	0.90	1.80	2.50	2.70	2.90	2.30	2.40	1.10	2.20	2.90	2.70	2.60	2.50	2.60
0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5.70	11.00	9.70	14.00	7.90	8.30	11.00	4.50	11.00	12.00	12.00	13.00	8.10	8.90	4.40	8.80	12.00	13.00	11.00	9.30	12.00
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

MONITORING RECORD AND FOLLOW-UP

SOIL QUALITY

		8/1/20							11/9/20							12/7/20				
P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5	P6	P7	P1	P2	P3	P4	P5
8.50	8.20	8.50	8.60	8.60	8.70	8.60	8.70	7.60	8.40	8.20	8.50	8.50	8.80	8.30	7.90	8.50	7.80	8.30	8.40	7.70
50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
11.00	9.00	11.00	8.80	9.70	9.60	9.00	7.40	12.00	9.70	7.80	7.80	12.00	6.20	5.80	7.10	10.00	13.00	9.60	11.00	9.80
0.30	0.30	0.40	0.30	0.20	0.20	0.20	0.10	0.30	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20
31.00	28.00	38.00	36.00	35.00	29.00	36.00	15.00	36.00	31.00	28.00	24.00	6.30	18.00	18.00	23.00	19.00	45.00	8.90	5.00	31.00
22.00	20.00	25.00	25.00	27.00	22.00	29.00	10.00	25.00	26.00	23.00	22.00	10.00	18.00	18.00	18.00	21.00	35.00	17.00	9.60	31.00
3.10	2.70	4.40	4.40	4.80	4.20	4.70	2.50	4.70	1.80	1.60	1.50	1.70	1.30	1.20	1.20	1.50	2.10	1.80	1.40	1.80
0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
16.00	12.00	6.10	6.10	5.90	5.00	4.70	2.90	6.30	8.10	6.90	7.00	6.50	5.00	5.50	6.80	9.20	12.00	8.00	7.20	12.00
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

P6	P7
8.00	7.60
50.00	50.00
12.00	12.00
0.20	0.10
36.00	38.00
35.00	33.00
2.00	2.00
0.10	0.10
16.00	15.00
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01
0.01	0.01

MONITORING RECORD AND FOLLOW-UP

AVERAGE SURVIVAL (% POPULATION) AT 24, 48, 72, 96 HOURS EXPOSITION							
Month of Assay	Station	SSD Concentration	Post-larval No.	Survival Average (% population vs. exposition time)			
				SSD at 0%	SSD at 10%	SSD at 50%	SSD at 100%
Mar-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	100%	100.0 %
		10	10	100%	98%	95.00%	90.8%
		10	10	100%	98%	89.10%	80.8%
Apr-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	100%	100.0 %
		10	10	100%	99%	90.00%	89.0%
		10	10	100%	98%	89.00%	85.0%
May-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	96.0%	93.0%
		10	10	100%	100%	95.00%	92.0%
		10	10	100%	100%	97.00%	91.0%
Jun-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	100.0%	100.0 %
		10	10	100%	100%	96.00%	92.0%
		10	10	100%	98%	91.00%	89.0%
Jul-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	100.0%	100.0 %
		10	10	100%	100%	95.00%	90.0%
		10	10	100%	95%	90.00%	85.0%
Aug-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	100.0%	100.0 %
		10	10	100%	100%	97.00%	90.0%
		10	10	100%	95%	93.00%	88.0%
Sep-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	100.0%	100.0 %
		10	10	100%	100%	100.00%	93.0%
		10	10	100%	100%	91.00%	88.0%
Oct-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	100.0%	100.0 %
		10	10	100%	100%	95.80%	91.7%
		10	10	100%	100%	93.30%	87.5%
Nov-18	AVERAGE ADI-AD6	10	10	100%	100%	100%	100.0 %
		10	10	100%	100%	100.0%	100.0 %

MONITORING RECORD AND FOLLOW-UP

		50%	10	100%	100%	99.20%	<b>91.7%</b>
		100%	10	100%	100%	97.50%	<b>88.2%</b>
Jan-19	<b>AVERAGE ADI-AD6</b>	0%	10	100%	100%	100%	<b>100.0 %</b>
		10%	10	100%	100%	100%	<b>100.0 %</b>
		50%	10	100%	100%	98.33%	<b>91.7%</b>
		100%	10	100%	100%	95.33%	<b>88.2%</b>
Feb-19	<b>AVERAGE ADI-AD6</b>	0%	10	100%	100%	100%	<b>100.0 %</b>
		10%	10	100%	100%	100%	<b>100.0 %</b>
		50%	10	100%	100%	97.50%	<b>93.3%</b>
		100%	10	100%	100%	93.33%	<b>90.0%</b>
Mar-19	<b>AVERAGE ADI-AD6</b>	0%	10	100%	100%	100%	<b>100.0 %</b>
		10%	10	100%	100%	100%	<b>100.0 %</b>
		50%	10	100%	100%	98.33%	<b>94.2%</b>
		100%	10	100%	100%	93.33%	<b>90.0%</b>
Apr-19	<b>AVERAGE ADI-AD6</b>	0%	10	100%	100%	100%	<b>100 %</b>
		10%	10	100%	100%	100%	<b>100 %</b>
		50%	10	100%	100%	96.56%	<b>92.50%</b>
		100%	10	100%	100%	93.33%	<b>89.19%</b>
May-19	<b>AVERAGE ADI-AD6</b>	0%	10	100%	100%	100%	<b>100 %</b>
		10%	10	100%	100%	100%	<b>100 %</b>
		50%	10	100%	100%	97.50%	<b>91.56%</b>
		100%	10	100%	100%	92.50%	<b>88.33%</b>
Jun-19	<b>AVERAGE ADI-AD6</b>	0%	10	100%	100%	100.00%	<b>100.00 %</b>
		10%	10	100%	100%	100.00%	<b>100.00 %</b>
		50%	10	100%	100%	96.67%	<b>90.00%</b>
		100%	10	100%	100%	94.16%	<b>86.67%</b>
Jul-19	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	97.48%	92.50%
		100%	10	100.0%	100.0%	93.66%	89.17%
Aug-19	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	97.34%	92.50%
		100%	10	100.0%	100.0%	93.39%	90.00%
Sep-19	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	98.33%	92.50%

MONITORING RECORD AND FOLLOW-UP

		100%	10	100.0%	100.0%	97.50%	90.00%
Oct-19	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	98.33%	91.67%
		100%	10	100.0%	100.0%	91.67%	89.17%
Nov-19	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	95.00%	90.83%
		100%	10	100.0%	100.0%	90.83%	87.50%
Dic-19	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	93.33%	90.00%
		100%	10	100.0%	100.0%	90.83%	86.67%
Jan-20	<b>ADI-AD6 AVERAGE</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	96.67%	90.00%
		100%	10	100.0%	100.0%	94.17%	86.67%
Feb-20	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	95.83%	92.50%
		100%	10	100.0%	100.0%	91.67%	87.50%
Apr-20	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	95.00%	92.50%
		100%	10	100.0%	100.0%	93.33%	86.67%
Jul-20	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.00%	100.00 %
		10%	10	100.0%	100.0%	100.00%	100.00 %
		50%	10	100.0%	100.0%	93.33%	89.17%
		100%	10	100.0%	100.0%	94.17%	88.33%
Oct-20	<b>AVERAGE ADI-AD6</b>	0%	10	100.00%	100.0%	100.0%	100.0 %
		10%	10	100.00%	100.0%	100.0%	100.0%
		50%	10	100.00%	100.0%	92.50%	90.00%
		100%	10	100.00%	100.0%	92.50%	85.83%
Nov-20	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.0%	100.0 %
		10%	10	100.0%	100.0%	100.0%	100.0%
		50%	10	100.0%	100.0%	95.00%	89.17%
		100%	10	100.0%	100.0%	90.83%	85.00%

MONITORING RECORD AND FOLLOW-UP

Dec-20	<b>AVERAGE ADI-AD6</b>	0%	10	100.0%	100.0%	100.0%	100.0 %
		10%	10	100.0%	100.0%	100.0%	100.0%
		50%	10	100.0%	100.0%	94.17%	87.50%
		100%	10	100.0%	100.0%	91.67	84.17%