LEVIN LANDFILL APRIL 2020 QUARTERLY GROUNDWATER, SURFACE WATER AND LEACHATE MONITORING REPORT

PREPARED FOR HOROWHENUA DISTRICT COUNCIL

June 2020

Stantec

This document has been prepared for the benefit of Horowhenua District Council. No liability is accepted by this company or any employee or sub-consultant of this company with respect to its use by any other person.

This disclaimer shall apply notwithstanding that the report may be made available to Horizons Regional Council and other persons for an application for permission or approval to fulfil a legal requirement.

QUALITY STATEMENT

PROJECT MANAGER	PROJECT TECHNICAL LEAD
Roger Hulme	Phil Landmark

PREPARED BY		
Matthew Chung	.....	27/05/2020
CHECKED BY		
Paul Heveldt, Julia O'Brien (data entry)	... .	27/05/2020
REVIEWED BY		
Phil Landmark	.....	24/06/2020
APPROVED FOR ISSUE BY		
Roger Hulme	.....	24/06/2020

PALMERSTON NORTH
118 Fitzherbert Avenue, Palmerston North 4410
PO Box 13-052, Armagh, Christchurch 8141
TEL +64 6 357 4034,

REVISION SCHEDULE

Rev No.	Date	Description	Signature or Typed Name (documentation on file)			
			Prepared by	Checked by	Reviewed by	Approved by
01	29/05/2020	Draft for comment	Matthew Chung	Matthew Chung, Julia O'Brien (data entry)	Paul Heveldt, Phil Landmark	Roger Hulme
02	24/06/2020	Final	Matthew Chung; updated by Phil Landmark	Matthew Chung, Julia O'Brien (data entry)	Paul Heveldt, Phil Landmark	Roger Hulme

Executive Summary

Horowhenua District Council (HDC) is required to carry out quarterly compliance monitoring of groundwater and surface water at the Levin Landfill, as part of the conditions on Resource Consents DP6009, DP6010, DP6011 and DP102259. This report summarises the findings for the April 2020 quarterly monitoring event, including monitoring results for:

- Background (natural) groundwater
- The landfill leachate pond effluent
- Groundwater bores within the new landfill and old irrigation area
- Shallow aquifers, down-gradient of the old landfill
- The deep aquifer,
- Hokio Stream, and
- The Tatana Property drain.

Stantec has reviewed the results of this monitoring on behalf of HDC.

Monitoring for other aspects of the landfill operations, such as landfill gas, air quality/odour, stormwater and soil, are reported annually, as per resource consent requirements.

Samples were collected from 23 groundwater bores, the landfill leachate effluent pond and five surface water sites during April 2020 from around and on the Levin Landfill, and were analysed for the comprehensive parameters set out in Discharge Permit 6010.

These samples were collected progressively over an 8-day period, which is an acceptable timeframe over which to obtain samples at such a spatially diverse set of monitoring locations.

The resource consent for the landfill (namely discharge permit 6010) contains compliance limits for the quality of deeper and shallow groundwater which are based upon the Drinking Water Standards for New Zealand – Maximum Acceptable Values (DWSNZ MAVs) and Guideline Values for aesthetic determinants (DWSNZ GVs), and the ANZECC 2000 Livestock Drinking Water (ANZECC LDW) trigger values respectively. Compliance limits for surface water are based on the ANZECC 2000 Aquatic Ecosystems (ANZECC AE) 95% trigger values as provided under the revised Resource Consent Condition approved in December 2019.

The April 2020 monitoring results have been assessed against these limits, where they are applicable.

Six non-compliances with resource consent conditions were recorded at five individual monitoring locations, as follows:

- The ANZECC LDW guideline values for E. coli in the shallow aquifer (at bore D6) was significantly exceeded. This was the highest recorded value to date and is somewhat anomalous, given there has been no detection of faecal coliforms for over a year.
- Exceedance of DWSNZ MAV for manganese (at bore C2DD) in the deep gravel aquifer. This is a normal occurrence for this bore.
- The ANZECC LDW guideline values for dissolved boron in the irrigation area (at bore F1) was exceeded. The value was so high compared to previous results that it should be regarded as being anomalous.
- The ANZECC AE 95% trigger value for ammoniacal-N was exceeded at Tatana Property drain (TD1). This was within the range previously monitored.
- The ANZECC AE 95% trigger value for dissolved copper was exceeded at two monitoring locations within Hokio Stream (HS2, and HS3). The values were slightly higher than normal but still within the historic range.

The April 2020 results were also considered within the context of background water quality, both within the groundwater aquifers (shallow and deep bores) and the surface water receiving environment. For example, low pH at background bore G1S, and elevated aluminium and iron concentrations in the same bore indicate that groundwater could be being impacted by up-gradient activities unrelated to the landfill operations.

As required under the comprehensive monitoring schedule, all monitoring bores were analysed for typical semi-volatile organic compounds (SVOCs) and volatile organic compounds (VOCs). All parameters detected for these groups of determinands were below the DWSNZ MAVs.

Results from a sample of effluent taken from the leachate pond were within the range of data obtained from previous monitoring events at the pond and are generally well below those recorded at typical Class 1 landfills in New Zealand.

Horowhenua District Council

Levin Landfill April 2020 Quarterly Groundwater, Surface Water and Leachate Monitoring Report

CONTENTS

Executive Summary i

1. Introduction 1

2. Groundwater and Surface Water Monitoring 1

2.1 Sample Analysis 1

2.2 Background Groundwater Quality 3

2.3 Groundwater Quality Hydraulically Down-Gradient of the New Landfill 4

2.4 Impact of Old Landfill on Groundwater Quality 7

2.5 Groundwater Quality Down-Gradient of the Irrigation Area 10

2.6 Leachate Effluent Results 11

2.7 Tatana Property Drain 12

2.8 Hokio Stream 14

3. Discussion 15

3.1 Sampling Quality Control and Assurance 15

3.2 Background Groundwater Quality 15

3.3 Shallow Aquifer Groundwater Quality 16

3.4 Deep Aquifer Groundwater Quality 18

3.5 Leachate Effluent 18

3.6 Tatana Property Drain 19

3.7 Hokio Stream 19

3.8 Consent Compliance 19

4. Conclusions 20

LIST OF TABLES

Table 2-1: Comprehensive Parameters 2
Table 2-2: Background Monitoring Results for April 2020 3
Table 2-3: D-Series and E1S Monitoring Bore Results for April 2020 5
Table 2-4: Results for Monitoring Bores within the Deep Aquifer for April 2020 6
Table 2-5: Monitoring Results for Shallow Boreholes Down-Gradient from the Old Landfill for April 2020 8
Table 2-6: Results from Monitoring Bores in the Irrigation Area for April 2020 10
Table 2-7: Results from Leachate Effluent Monitoring for April 2020 12
Table 2-8: Tatana Drain Monitoring Results for April 2020 13
Table 2-9: Hokio Stream Monitoring Results for April 2020 14

LIST OF FIGURES

Figure 3-1: Nitrate Nitrogen Concentrations in the D-Series Bores 16
Figure 3-2: Ammoniacal Nitrogen Concentrations in Shallow Bores Screened in the Leachate Plume 18

APPENDICES

Appendix A Site Plans
Appendix B Sampling Schedule
Appendix C Analytical Results
Appendix D Historical Result Graphs

1. Introduction

Horowhenua District Council (HDC) first commissioned Stantec New Zealand (then Montgomery Watson) to carry out environmental reporting for the discharge consent monitoring undertaken at the Levin Landfill site in the early 2000s. Until recently, monitoring has been undertaken every three months at 27 locations, as required by the previous resource consent conditions (namely for discharge permit 6010). There were 23 boreholes penetrating the sand and gravel aquifers; three surface water sampling locations within Hokio Stream and a leachate sampling point as shown in the Site Plan in Appendix A. In addition, HDC had agreed to undertake voluntary surface water monitoring at four locations along the Tatana Property drain.

The Levin Landfill site is comprised of two landfills: one old, closed and unlined landfill and one new, lined and active landfill. The new landfill footprint is being developed in stages. The most recent stage is Stage 3C which was developed in 2017, though landfill operations are now occurring over the top of Stages 1A, 2 and 3C.

The Levin Landfill site is located above two identified aquifers, a shallow sand aquifer and a deeper gravel aquifer. The shallow aquifer is unconfined, has a low to moderate permeability, and flows in a northerly direction. The deeper gravel aquifer is a confined to semi-confined aquifer. Horizons Regional Council hydrology staff advised that '*the general confined groundwater flow direction is towards the west*'. Groundwater quality in the area is highly variable because of interaction with peat deposits that are prevalent in the area, localised effects such as from grazing activities, droppings from scavenging birds and from nitrogen-fixing plants such as gorse.

Since July 2010 groundwater has been tested for dissolved metals and nutrients rather than for total concentrations of these parameters. For simplicity, results from monitoring undertaken prior to July 2010 (when the analyses undertaken were for total metal and nutrient concentrations) have not been compared to the results from July 2010 onwards.

The review of the resource consent conditions was finalised in December 2019. Changes have been made to some of the surface water and groundwater monitoring conditions and HDC is in the process of acting on all the changes. The sampling that was done in the April 2020 sampling round has been in line with what has been done previously, but different parameters have been applied to assess the surface water sampling results, as required by the new consent conditions.

This report presents the results for the April 2020 quarterly monitoring round.

2. Groundwater and Surface Water Monitoring

2.1 Sample Analysis

Samples were collected by Downer (a contractor to HDC) between 1 and 8 April 2020. Samples were couriered overnight and analysed by Eurofins ELS Ltd in Lower Hutt, Wellington, the following day. The sampling programme for April 2020 - January 2023 is summarised in the schedule in Appendix B.

Groundwater samples taken from the boreholes, surface water samples from Hokio Stream, and samples of landfill leachate effluent were analysed for the comprehensive suite of parameters which are outlined in Table 2-1. Surface water samples collected from the Tatana Property drain were analysed based on a specific parameter list agreed to by Horizons Regional Council, as detailed in Section 2.7. From the April 2020 monitoring round onward, sampling of the Tatana Drain will follow the comprehensive and indicator suites of parameters used for other surface water sampling.

Note that following the revision of the resource consent conditions which were approved in December 2019, soluble carbonaceous BOD_5 ($scBOD_5$) and soluble mercury (g) have each been added to the indicator and comprehensive suites of parameters, and E. coli to the comprehensive suite of parameters. The $scBOD_5$ and E. coli parameters replace BOD_5 and faecal coliform respectively. Monitoring of these additional parameters has commenced from the April 2020 sampling round.

Table 2-1: Comprehensive Parameters

Type	Parameters
Characteristics	pH Electrical Conductivity (EC) Alkalinity Total Hardness Suspended Solids
Oxygen demand	Chemical Oxygen Demand (COD), $scBOD_5$+
Nutrients*	Nitrate nitrogen (NO_3-N) Ammoniacal-nitrogen (NH_4-N) Dissolved Reactive Phosphorus (DRP) Sulphate (SO_4)
Metals*	Aluminium (Al) Arsenic (As) Cadmium (Cd) Chromium (Cr) Copper (Cu) Iron (Fe)** Magnesium (Mg) Manganese (Mn) Mercury (Hg) Nickel (Ni) Lead (Pb) Zinc (Zn)
Other elements	Boron (B) Calcium (Ca) Chloride (Cl) Potassium (K) Sodium (Na)** Mercury (Mg)+
Organics	Total Organic Carbon Total Phenols Volatile Acids sVOCs, VOCs
Biological+	E. coli

Note:
*Analyses performed for nutrients and metals are for dissolved rather than total concentrations.
**Selected bores as per stormwater consent 102559
+Soluble carbonaceous BOD_5 ($scBOD_5$), soluble mercury (Hg) and E. coli added as per revised consent conditions for Discharge Permit 6010, December 2019.

During the April 2020 comprehensive monitoring round, water samples taken from all monitoring bores were also analysed for semi-volatile organic compounds (SVOCs) and volatile organic compounds (VOCs) as per the discharge consent 6010.

Note regarding interpretation of results below detection limits

For those chemical constituents which were found to be present in concentrations below laboratory detection limits during the reporting period, the results have been set at 50% of the laboratory detection limit, and a median calculated on this basis. This is standard practice when dealing with chemical concentrations in water. However, the same rule cannot be applied for E. coli in the context of the Levin Landfill.

The laboratory detection limit for E. coli is 4 CFU/100mL (4 Colony Forming Units/100mL). As the resource consent requires that groundwater results for E. coli be compared against the DWSNZ (for compliance), which sets a value of NIL (I.e. 0 CFU/100mL), we have chosen to indicate where E. coli were not detected, rather than calculating a median as we would for chemical constituents (described above). This method has been applied in all instances where E. coli numbers are assessed for compliance with the DWSNZ.

2.2 Background Groundwater Quality

Water quality from the natural background water up-gradient from the landfill site is not subject to any consent conditions. However, for comparison purposes, both the ANZECC LDW trigger values and the DWSNZ guidelines were used to benchmark the quality of water up-gradient from the landfill site.

Groundwater samples were collected from the two background bores situated hydraulically up-gradient from both the new and old landfills to the southeast of the site (bores G1S and G1D, Site Plan, Appendix A). These two bores were constructed in late 2009 to sample background water quality from the two main hydrogeological units.

The results are presented in Table 2-2. Bore F3 is also included in the background table as it is near the southern boundary of the landfill site (and further west) and is unlikely to be impacted by landfill activities. A full laboratory report containing analytical results is presented in Appendix C.

Table 2-2: Background Monitoring Results for April 2020

Determinant	Units	DWSNZ MAV	ANZECC LDW	G1S	G1D	F3
Water level	mBGL	-	-	14.52	15.05	5.43
pH	-	7 to 8.5*	6 to 9	**6.9**	7.7	7.8
Suspended Solids	mg/l	-	-	*2.5*	*2.5*	*3.0*
Phenol	mg/L	-	-	*0.025*	*0.025*	*0.025*
VFA	mg/L	-	-	*2.5*	*2.5*	*2.5*
TOC	mg/L	-	-	38.4	2.0	1.3
Alkalinity	mg CaCO3/L	-	-	58	59	53
Conductivity	mS/m	-	-	65.9	28.3	19.2
COD	mg/L	-	-	99	*7.5*	*7.5*
scBOD5	mg/L	-	-	*0.5*	*0.5*	*0.5*
E-Coli	CFU/100ml	NIL	100	**16**	*ND*	*ND*
Chloride	mg/L	250*	-	130	31.5	15.4
Nitrate-N	mg/L	11.3	90.3	0.06	*0.005*	1.11
Sulphate	mg/L	-	-	33.8	20.1	7.03
Ammoniacal-N	mg/L	1.17	-	0.04	0.10	*0.005*
Hardness	mg CaCO3/L	-	-	59	50	34
Calcium	mg/L	-	1000	11.1	7.83	5.18
Magnesium	mg/L	-	-	7.61	7.51	5.08
Potassium	mg/L	-	-	5.93	6.27	5.11
Sodium	mg/L	200*	-	94.2	32.0	23.0
D.R. Phosphorus	mg/L	-	-	0.038	0.030	0.143
Dissolved Aluminium	mg/L	0.1*	5	**0.137**	0.002	*0.001*
Dissolved Arsenic	mg/L	0.01	0.1	0.002	0.003	0.002
Dissolved Boron	mg/L	1.4	5	*0.015*	0.04	*0.015*
Dissolved Cadmium	mg/L	0.004	0.01	*0.0001*	*0.0001*	*0.0001*
Dissolved Chromium	mg/L	0.05	1	0.001	*0.0005*	*0.0005*
Dissolved Copper	mg/L	2	0.4#	0.0086	*0.00025*	0.0005
Dissolved Iron	mg/L	0.2*	-	**3.49**	**0.44**	*0.0025*
Dissolved Lead	mg/L	0.01	0.1	*0.00025*	*0.00025*	*0.00025*
Dissolved Manganese	mg/L	0.4	-	0.0635	0.0703	*0.00025*

Determinant	Units	DWSNZ MAV	ANZECC LDW	G1S	G1D	F3
Dissolved Mercury	mg/L	0.007	0.002	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	0.08	1	0.0016	*0.00025*	*0.00025*
Dissolved Zinc	mg/L	1.5*	20	0.003	*0.001*	*0.001*

Notes:
*denotes guideline values for aesthetic determinants (G.V.)
copper trigger values range from 0.4 mg/L for sheep, up to 5 mg/L for poultry
Bold – denotes an exceedance of the relevant DWSNZ guidelines.
Underlined – denotes an exceedance of the ANZECC LDW Trigger Values.
All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics.
'ND' indicates where E. coli were not detected.

The results in Table 2-2 indicate that all background bores (G1S, G1D and F3) contain groundwater that has concentrations of all monitored parameters within the ANZECC LDW trigger values.

There were five exceedances of the DWSNZ limits during the April 2020 monitoring round:

- pH in bore G1S was below the DWSNZ GV
- E. coli in bore G1S was above the DWSNZ MAV
- Dissolved Aluminium concentration in bore G1S was above the DWSNZ GV
- Dissolved Iron concentrations in bores G1S and G1D were above the DWSNZ GV

It is noted that bores G1S and G1D are background bores and therefore exceedances of the DWSNZ in these bores do not constitute non-compliances with the consent conditions.

2.3 Groundwater Quality Hydraulically Down-Gradient of the New Landfill

Monitoring is carried out within the two main hydrogeological units for bores hydraulically up-gradient of the old landfill and hydraulically down-gradient of the new landfill.

2.3.1 Shallow Aquifer

Bores D1, D2, D3(r), D4, D5, D6 and E1S (Refer to Site Plan, Appendix A) are located hydraulically up-gradient of the old landfill, but down-gradient of the new landfill. This means they are not influenced by potential leaching from the old landfill and can act as a warning system for any leaching from the new landfill. Borehole D4 is likely to show evidence of any leaching from the new landfill. Borehole D5 is located at the south western corner of the site and is expected to provide an indication of shallow background groundwater quality because it is unlikely to be influenced by either landfill. It is unlikely that leachate from the new landfill will significantly affect groundwater quality due to the leachate collection system which is in place at the new landfill; however, these bores would still give early warning of any potential problems.

The results from the April 2020 monitoring round for these bores are presented in Table 2-3 . The results have been compared with the ANZECC LDW trigger values as per the consent conditions. The full laboratory report is included in Appendix C.

There was **one exceedance of the resource consent conditions** during the April 2020 monitoring round:

- E. coli in bore D6 was above the ANZECC LDW.

Table 2-3: D-Series and E1S Monitoring Bore Results for April 2020

Determinant	Units	ANZECC LDW	D1	D2	D3(r)	D4	D5	D6	E1S
Water level	mBGL	-	17.23	21.66	4.89	8.25	9.93	16.62	11.51
pH	-	6 to 9		6.3	7.0	7.1	7.4	7.1	7.2
Suspended Solids	mg/l	-		17	*3*	5	*2.5*	*2.5*	*7*
Phenol	mg/L	-		*0.025*	*0.025*	*0.025*	*0.025*	*0.025*	*0.025*
VFA	mg/L	-		*2.5*	*2.5*	*2.5*	*2.5*	*2.5*	*2.5*
TOC	mg/L	-		13.2	3.1	2.4	2.0	1.0	5.2
Alkalinity	mg CaCO3/L	-		109	56	55	63	73	68
Conductivity	mS/m	-	*Bore*	33.6	21.4	31.3	29.9	37.2	27.1
COD	mg/L	-	*D1*	31	*7.5*	*7.5*	*7.5*	*7.5*	7.5
scBOD5	mg/L	-	*has*	*1.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*
E-Coli	CFU/100ml	100	*insufficient*	*ND*	*ND*	*ND*	*ND*	**240**	*ND*
Chloride	mg/L	-	*water*	32.8	21.7	44.6	29.1	19.8	28.7
Nitrate-N	mg/L	90.3	*for*	*0.005*	0.18	*0.005*	1.18	16.9	*0.005*
Sulphate	mg/L	-	*samples*	*0.01*	6.96	12.5	21.0	4.34	9.1
Ammoniacal-N	mg/L	-	*to be*	0.49	0.18	0.21	*0.005*	*0.005*	0.17
Hardness	mg CaCO3/L	-	*collected*	87	34	62	64	95	59
Calcium	mg/L	1000		15.4	6.81	11.0	11.1	18.0	11.0
Magnesium	mg/L	-		11.8	4.19	8.39	8.86	12.3	7.62
Potassium	mg/L	-		7.10	4.90	6.62	7.83	8.16	6.22
Sodium	mg/L	-		32.6	27.3	31.7	32.5	33.9	28.9
D.R. Phosphorus	mg/L	-		0.038	0.015	0.016	0.096	0.101	0.053
Dissolved Aluminium	mg/L	5		0.014	*0.001*	*0.001*	*0.001*	0.003	0.006
Dissolved Arsenic	mg/L	0.1		0.001	0.011	0.004	0.001	0.001	0.002
Dissolved Boron	mg/L	5		0.04	*0.015*	0.04	0.04	0.05	0.03
Dissolved Cadmium	mg/L	0.01		*0.0001*	*0.0001*	*0.0001*	*0.0001*	*0.0001*	*0.0001*
Dissolved Chromium	mg/L	1		0.001	*0.0005*	*0.0005*	*0.0005*	*0.0005*	*0.0005*
Dissolved Copper	mg/L	0.4#		*0.00025*	*0.00025*	*0.00025*	0.0009	0.0057	*0.0006*
Dissolved Iron	mg/L	-		15.0	2.86	1.51	0.070	*0.0025*	4.65
Dissolved Lead	mg/L	0.1		*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	0.0005
Dissolved Manganese	mg/L	-		0.306	0.176	0.189	0.0193	0.0009	0.243
Dissolved Mercury	mg/L	0.002		*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	1		*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Zinc	mg/L	20		0.005	*0.001*	*0.001*	*0.001*	0.004	*0.001*

Notes:
Bold – denotes an exceedance of the ANZECC LDW trigger values.
All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics.
copper trigger values range from 0.4 mg/L for sheep, up to 5 mg/L for poultry
'ND' indicates where E. coli were not detected

2.3.2 Deep Gravel Aquifer

Bores E1D, C2DD, E2D and G1D all penetrate the deeper gravel aquifer. Deep groundwater flow is assumed to be towards the northwest. Boreholes E2D and C2DD are located to the north-northwest of both the landfills and are therefore considered to be hydraulically down gradient of both landfills. Borehole E1D is located to the southwest of the old landfill and it is therefore considered that this bore would be unlikely to be affected by either landfill.

Results for the April 2020 compliance monitoring round are presented in Table 2-4. The results have been compared with the DWSNZ as per the requirements of discharge consent 6010. The full laboratory report is included in Appendix C.

Table 2-4: Results for Monitoring Bores within the Deep Aquifer for April 2020

Determinant	Units	DWSNZ MAV	E1D	C2DD	E2D
Water level	mBGL	-	11.38	3.07	5.79
pH	-	7 to 8.5*	7.7	7.7	7.7
Suspended Solids	mg/l	-	*2.5*	*3*	14
Phenol	mg/L	-	*0.025*	*0.025*	*0.025*
VFA	mg/L	-	*2.5*	*2.5*	*2.5*
TOC	mg/L	-	3.1	4.2	2.1
Alkalinity	mg CaCO3/L	-	155	194	76
Conductivity	mS/m	-	45.5	52.5	35.4
COD	mg/L	-	*7.5*	*7.5*	*7.5*
scBOD5	mg/L	-	*0.5*	*0.5*	*0.5*
E-Coli	CFU/100ml	NIL	*ND*	*ND*	*ND*
Chloride	mg/L	250*	38.7	40.5	47.8
Nitrate-N	mg/L	11.3	*0.005*	*0.005*	*0.005*
Sulphate	mg/L	-	*0.01*	0.03	12.4
Ammoniacal-N	mg/L	1.17	0.20	0.33	0.30
Hardness	mg CaCO3/L	-	131	168	83
Calcium	mg/L	-	31.8	43.8	23.1
Magnesium	mg/L	-	12.4	14.3	6.14
Potassium	mg/L	-	5.03	6.32	5.67
Sodium	mg/L	200*	36.5	39.4	30.2
D.R. Phosphorus	mg/L	-	0.411	0.667	0.198
Dissolved Aluminium	mg/L	0.1*	*0.001*	*0.001*	*0.001*
Dissolved Arsenic	mg/L	0.01	0.007	0.003	0.001
Dissolved Boron	mg/L	1.4	0.06	0.07	*0.015*
Dissolved Cadmium	mg/L	0.004	*0.0001*	*0.0001*	*0.0001*
Dissolved Chromium	mg/L	0.05	*0.0005*	*0.0005*	*0.0005*
Dissolved Copper	mg/L	2	*0.00025*	*0.00025*	*0.00025*
Dissolved Iron	mg/L	0.2*	0.03	0.02	0.046
Dissolved Lead	mg/L	0.01	*0.00025*	*0.00025*	*0.00025*
Dissolved Manganese	mg/L	0.4	0.248	**0.583**	0.234
Dissolved Mercury	mg/L	0.007	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	0.08	*0.00025*	*0.00025*	*0.00025*
Dissolved Zinc	mg/L	1.5*	*0.001*	*0.001*	*0.001*

Notes:
* denotes guideline values for aesthetic determinants (G.V.).
Bold – denotes an exceedance of the relevant DWSNZ (2008) standard.

All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics.
n/r – not required to be tested during this monitoring period.
'ND' indicates where E. coli were not detected.

There was **one exceedance of the resource consent conditions** in samples from the deep gravel aquifer during the April 2020 sampling round, i.e.

- Dissolved manganese concentration in bore C2DD was above the DWSNZ MAV.

2.4 Impact of Old Landfill on Groundwater Quality

Water sampling is carried out to characterise the groundwater quality in a series of shallow bores situated hydraulically down-gradient from the old unlined landfill. The Series B boreholes are located within 50 m of the old landfill in a line along its northern edge. The Series C boreholes are located further down the hydraulic gradient from the old landfill towards Hokio Beach Road to detect whether leachate is moving off site. Borehole E2S is located northwest of the old landfill to detect any leachate moving directly towards the nearest house down-stream of the site. Bore G2S was installed in late 2009 and is located to the north of the landfill site, hydraulically down-gradient of the old landfill by Hokio Road and the entrance road to the landfill (See Site Plan, Appendix A).

The results from the April 2020 consent monitoring round for these bores are presented in Table 2-5 and have been compared with the ANZECC LDW trigger values as per the discharge consent 6010. The full laboratory report is included in Appendix C.

There were no exceedances of the ANZECC LDW trigger values during the April 2020 monitoring round and so these **results show compliance with the resource consent conditions**.

Table 2-5: Monitoring Results for Shallow Boreholes Down-Gradient from the Old Landfill for April 2020

Determinant	Units	ANZECC LDW	E2S	B1	B2	B3	C1	C2	C2DS	G2S
Water level	mBGL	-	4.97	1.39	1.65	0.15	0.55	0.47	2.43	2.55
pH	-	6 to 9	7.6	6.9	6.9	7.1	6.7	7.2	7.0	7.0
Suspended Solids	mg/l	-	*2.5*	*3*	9	74	40	516	52	8
Phenol	mg/L	-	*0.025*	*0.025*	*0.025*	*0.025*	*0.025*	*0.025*	*0.025*	*0.025*
VFA	mg/L	-	*2.5*	*2.5*	*2.5*	2.5	*2.5*	*2.5*	*2.5*	*2.5*
TOC	mg/L	-	2.9	22.8	31.7	70.6	16.6	45.6	32.0	15.6
Alkalinity	mg CaCO3/L	-	146	624	723	1180	249	818	716	427
Conductivity	mS/m	-	44.9	276	209	288	127	346	170	190
COD	mg/L	-	7.5	60	81	213	54	127	89	53
scBOD5	mg/L	-	*0.5*	0.5	*0.5*	*3*	1	*3*	*3*	*0.5*
E-Coli	CFU/100ml	100	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
Chloride	mg/L	-	40.7	506	141	194	217	492	125	323
Nitrate-N	mg/L	90.3	*0.005*	1.50	21.8	*0.05*	*0.005*	0.08	*0.005*	*0.005*
Sulphate	mg/L	-	*0.01*	2.85	8.85	*0.01*	32.6	42.3	*0.01*	5.86
Ammoniacal-N	mg/L	-	0.25	16.80	51.6	143	2.91	169	1.79	0.02
Hardness	mg CaCO3/L	-	119	670	546	509	306	277	589	304
Calcium	mg/L	1000	26.0	122	117	89.7	52.2	54.7	134	61.0
Magnesium	mg/L	-	13.0	88.9	61.6	69.2	42.6	34.0	61.7	36.8
Potassium	mg/L	-	6.46	29.9	57.6	91.5	16.70	91.5	16.7	25.5
Sodium	mg/L	-	41.2	257	115.0	152	122	291	115	272
D.R. Phosphorus	mg/L	-	0.621	0.105	0.021	0.031	0.011	0.013	0.122	0.018
Dissolved Aluminium	mg/L	5	0.004	0.005	0.009	0.007	0.009	0.041	0.001	0.003
Dissolved Arsenic	mg/L	0.1	0.001	0.001	0.006	0.035	*0.0005*	0.002	0.003	*0.0005*
Dissolved Boron	mg/L	5	0.05	1.20	1.69	1.40	0.57	2.24	0.87	1.21
Dissolved Cadmium	mg/L	0.01	*0.0001*	*0.0001*	*0.0001*	*0.0001*	*0.0001*	*0.0001*	*0.0001*	*0.0001*
Dissolved Chromium	mg/L	1	*0.0005*	*0.0005*	0.001	0.005	*0.0005*	0.002	*0.0005*	*0.0005*
Dissolved Copper	mg/L	0.4[#]	*0.00025*	0.0094	0.0031	0.0007	0.0008	0.0017	*0.00025*	0.0010
Dissolved Iron	mg/L	-	0.047	0.032	0.722	1.03	2.53	0.158	22.5	0.032

Determinant	Units	ANZECC LDW	E2S	B1	B2	B3	C1	C2	C2DS	G2S
Dissolved Lead	mg/L	0.1	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Manganese	mg/L	-	0.386	17.50	4.33	4.84	0.410	0.0650	2.75	0.215
Dissolved Mercury	mg/L	0.002	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	1	*0.00025*	0.0045	0.0030	*0.0136*	0.0012	0.0017	0.0029	0.0046
Dissolved Zinc	mg/L	20	*0.003*	0.005	0.004	*0.001*	*0.001*	0.009	*0.001*	0.006

Notes:
Bold – denotes an exceedance of the ANZECC LDW trigger values.
All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics.
n/r – not required to be tested during this monitoring period.
copper trigger values range from 0.4 mg/L for sheep, up to 5 mg/L for poultry
'ND' indicates where E. coli were not detected.

Semi-Volatile and Volatile Organic Compounds

During the April 2020 comprehensive monitoring round, water samples taken from all monitoring bores were analysed for typical SVOCs (72 compounds) and VOCs (65 compounds). The full laboratory report is included in Appendix C. All compounds detected were at concentrations below the DWSNZ MAV and so the **results comply with the resource consent conditions**.

2.5 Groundwater Quality Down-Gradient of the Irrigation Area

The F-series boreholes intersect the shallow aquifer down-gradient of the area that was used to irrigate leachate from 2004 to October 2008. All leachate is now pumped to the Levin Wastewater Treatment Plant. The F1 borehole is located within the area where leachate from the new landfill was irrigated. F2 and F3 boreholes are in an area that was set aside for leachate irrigation but never used as such. It is expected that bores F2 and F3 would therefore be representative of background groundwater quality.

The results from the F series boreholes are presented in Table 2-6 and have been compared with the ANZECC LDW trigger values, as per the discharge consent 6010. The full laboratory report is included in Appendix C.

There was **one exceedance of the resource consent conditions** during the April 2020 monitoring round:

- Dissolved Boron in bore F1 was above the ANZECC LDW.

Table 2-6: Results from Monitoring Bores in the Irrigation Area for April 2020

Determinant	Units	ANZECC LDW	F1	F2	F3
Water level	mBGL	-	8.38	3.11	5.43
pH	-	6 to 9	7.6	7.2	7.8
Suspended Solids	mg/l	-	*2.5*	*3*	*3*
Phenol	mg/L	-	*0.025*	*0.025*	*0.025*
VFA	mg/L	-	*2.5*	*2.5*	*2.5*
TOC	mg/L	-	5.5	1.6	1.3
Alkalinity	mg CaCO3/L	-	131	53	53
Conductivity	mS/m	-	46.6	22.1	19.2
COD	mg/L	-	16	*7.5*	*7.5*
scBOD5	mg/L	-	*0.5*	*0.5*	*0.5*
E-Coli	CFU/100ml	100	*ND*	*ND*	*ND*
Chloride	mg/L	-	49.4	23.2	15.4
Nitrate-N	mg/L	90.3	1.01	0.33	1.11
Sulphate	mg/L	-	5.24	8.97	7.03
Ammoniacal-N	mg/L	-	*0.005*	*0.005*	*0.005*
Hardness	mg CaCO3/L	-	125	37	34
Calcium	mg/L	1000	18.3	6.01	5.18
Magnesium	mg/L	-	19.2	5.41	5.08
Potassium	mg/L	-	8.95	5.45	5.11
Sodium	mg/L	-	42.9	26.1	23.0
D.R. Phosphorus	mg/L	-	0.172	0.148	0.143
Dissolved Aluminium	mg/L	5	*0.001*	0.002	*0.001*
Dissolved Arsenic	mg/L	0.1	0.002	0.002	0.002
Dissolved Boron	mg/L	5	**345**	0.03	*0.015*

Determinant	Units	ANZECC LDW	F1	F2	F3
Dissolved Cadmium	mg/L	0.01	*0.0001*	*0.0001*	*0.0001*
Dissolved Chromium	mg/L	1	*0.0005*	*0.0005*	*0.0005*
Dissolved Copper	mg/L	0.4#	0.0030	0.0013	0.0005
Dissolved Iron	mg/L	-	*0.0025*	0.018	*0.0025*
Dissolved Lead	mg/L	0.1	*0.00025*	*0.00025*	*0.00025*
Dissolved Manganese	mg/L	-	0.0044	0.0360	*0.00025*
Dissolved Mercury	mg/L	0.002	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	1	*0.00025*	*0.00025*	*0.00025*
Dissolved Zinc	mg/L	20	*0.001*	0.002	*0.001*

Notes:
Bold – denotes an exceedance of the ANZECC LDW trigger values.
All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics.
n/r – not required to be tested during this monitoring period.
copper trigger values range from 0.4 mg/L for sheep, up to 5 mg/L for poultry
'ND' indicates where E. coli were not detected.

2.6 Leachate Effluent Results

Leachate effluent from the landfill is **not subject to any water quality consent conditions**. However, for comparison purposes, typical leachate characteristics for landfills published by the Waste Management Institute New Zealand (*Technical Guidelines for Disposal to Land*, August 2018, WasteMINZ) have been compared against the leachate quality monitoring results (Table 2-7). The full laboratory report is included in Appendix C. Table 2-7 shows that the concentrations of monitored parameters for leachate effluent samples collected in April 2020 were within the typical ranges to be expected for this type of landfill, except for Ammoniacal-N which was marginally above the typical range. This does not represent a non-compliance because leachate is not subject to any water quality consent conditions.

Table 2-7: Results from Leachate Effluent Monitoring for April 2020

Determinant	Units	Typical Leachate Characteristics*	Leachate
		(range)	Effluent
pH		5.9 - 8.5	7.9
Suspended Solids	mg/l	-	35
Phenol	mg/L	-	*0.25*
VFA	mg/L	-	*2.5*
TOC	mg/L	-	804
Alkalinity	mg CaCO3/L	-	6750
Conductivity	mS/m	308 – 27,900	1610
COD	mg/L	84 – 5,090	2330
scBOD5	mg/L	-	98
E-Coli	CFU/100mL	-	24
Chloride	mg/L	45 – 2,584	1210
Nitrate-N	mg/L	-	0.25
Sulphate	mg/L	-	54.8
Ammonia-N	mg/L	3.4 – 1,440	**1450**
Hardness	mg CaCO3/L	-	522
Calcium	mg/L	-	106
Magnesium	mg/L	-	62.3
Potassium	mg/L	-	648
Sodium	mg/L	50 – 4,000**	993
D.R. Phosphorus	mg/L	-	13.0
Dissolved Aluminium	mg/L	-	0.586
Dissolved Arsenic	mg/L	-	0.388
Dissolved Boron	mg/L	0.54 – 20.1	5.69
Dissolved Cadmium	mg/L	-	*0.0010*
Dissolved Chromium	mg/L	-	0.709
Dissolved Copper	mg/L	-	0.0073
Dissolved Iron	mg/L	1.6 – 220	5.25
Dissolved Lead	mg/L	0.001 - 0.42	*0.0025*
Dissolved Manganese	mg/L	0.3 - 45***	1.04
Dissolved Mercury	mg/L	0.2 - 50	*0.0025*
Dissolved Nickel	mg/L	0.02 – 2.05**	0.125
Dissolved Zinc	mg/L	-	0.068

Notes:
* for Class 1-type landfills, Table 5-5, p82, Technical Guidelines for Disposal to Land, WasteMINZ August 2018 (same as Table 4.2 of the CAE Landfill Guidelines 2000, but corrections made to Table 5-5 in line with Table 4.2).
**Data taken from Table 5-4, p81 of the same guideline, for parameters for which no differences in concentrations between the phases of landfill development could be observed
***Data taken from Table 5-4, p81 of the same guideline, for parameters during the methanogenic phase.

Note that in terms of the revised resource consent conditions, monthly sampling of leachate in accordance with the comprehensive suite of parameters is to occur for a period of two years.

2.7 Tatana Property Drain

A drain is located on the Tatana property (see Site Plan in Appendix A). Since July 2015 HDC has agreed to sample surface water from the drain for a selection of parameters that were set by HRC. Four sampling points were selected to represent the top of the drain (SW1), middle of the drain (SW2 and SW3) and lower drain (SW4).

The revised consent conditions have now reduced the extent of sampling to one location. This is known as 'TD1' and it is the same sampling location as for the previous 'SW1'.

Results from the April 2020 sampling round are presented in Table 2-8 and have been compared with the ANZECC AE[1] 95% trigger values as per the revised resource consent conditions.

Table 2-8: Tatana Drain Monitoring Results for April 2020

Determinant	Units	ANZECC AE (95%)	TD1 (formerly SW1)
pH	-	-	7.1
Suspended Solids	mg/l	-	284
Phenol	mg/L	-	*0.025*
VFA	mg/L	-	6
TOC	mg/L	-	23.8
Alkalinity	mg CaCO3/L	-	151
Conductivity	mS/m	-	55.7
COD	mg/L	-	75
scBOD5	mg/L	2	*3*
E-Coli	CFU/100ml	-	140
Chloride	mg/L	-	69.3
Nitrate-N	mg/L	0.16	*0.005*
Sulphate	mg/L	-	6.71
Ammoniacal-N	mg/L	2.1	**4.61**
Hardness	mg CaCO3/L	-	115
Calcium	mg/L	-	21.1
Magnesium	mg/L	-	15.0
Potassium	mg/L	-	15.5
Sodium	mg/L	-	51.3
D.R. Phosphorus	mg/L	-	0.024
Dissolved Aluminium	mg/L	0.055	0.009
Dissolved Arsenic	mg/L	0.024	0.001
Dissolved Boron	mg/L	-	0.18
Dissolved Cadmium	mg/L	0.0002	*0.0001*
Dissolved Chromium	mg/L	-	*0.0005*
Dissolved Copper	mg/L	0.0014	*0.00025*
Dissolved Iron	mg/L	-	1.26
Dissolved Lead	mg/L	0.0034	*0.00025*
Dissolved Manganese	mg/L	1.9	0.200
Dissolved Mercury	mg/L	0.0006	*0.00025*
Dissolved Nickel	mg/L	0.011	0.0009
Dissolved Zinc	mg/L	0.008	*0.001*

Notes:
Bold – denotes an exceedance of the ANZECC AE 95% protection level trigger values.
All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics.

[1]Australian and New Zealand Guidelines for Fresh and Marine Water Quality - Aquatic Ecosystems (AE), Australian and New Zealand Environment and Conservation Council (ANZECC), Canberra, Australia, 2000

There was **one exceedance of the resource consent conditions** in samples from the Tatana Drain property at TD1 during the April 2020 sampling round for:

- Ammoniacal-N was above the ANZECC AE 95% trigger value.

2.8 Hokio Stream

Surface water grab samples are obtained from Hokio Stream at sites HS1, HS2 and HS3 (refer to Appendix A) to investigate whether groundwater containing leachate is having an adverse environmental effect on the stream. Site HS1 is situated up-stream of the old landfill, HS2 is situated alongside the old landfill and up-stream of the Tatana Property Drain discharge, and HS3 is located approximately 50m down-stream of the landfill site property boundary and the Tatana Property Drain discharge. Samples from these monitoring locations on Hokio Stream are analysed for indicator parameters every six months (as shown in Appendix B).

Results from the April 2020 sampling round are presented in Table 2-9 and have been compared with the ANZECC AE 95% trigger values as per the revised resource consent conditions.

Monitoring for scBOD5 and soluble mercury concentrations, and a new monitoring location 'HS1A' located further upstream from HS1, have now all been added as per the revised Resource Consent conditions.

The revised conditions are in the process of being implemented and monitoring of these additional parameters and at the new location commenced during the April 2020 monitoring round.

Table 2-9: Hokio Stream Monitoring Results for April 2020

Determinant	Units	ANZECC AE (95%)	Consent Trigger Values (Table C1)	HS1A (new)	HS1	HS2	HS3
pH	-	-	-	7.8	7.7	7.7	7.6
Suspended Solids	mg/l	-	-	23	39	24	21
Phenol	mg/L	0.320	-	*0.025*	*0.025*	*0.025*	*0.025*
VFA	mg/L	-	-	*2.5*	*2.5*	*2.5*	*2.5*
TOC	mg/L	-	-	8.1	7.9	7.6	7.8
Alkalinity	mg CaCO3/L	-	-	61	61	65	65
Conductivity	mS/m	-	-	26.2	26.4	27.9	27.8
COD	mg/L	-	-	24	28	21	23
scBOD5	mg/L	2	Monthly Ave. 2	*0.5*	*0.5*	*0.5*	*0.5*
E-Coli	CFU/100 ml	-	-	320	830	790	410
Chloride	mg/L	-	-	26.6	26.6	28.0	28.3
Nitrate-N	mg/L	0.16	0.16	0.04	0.04	0.08	0.09
Sulphate	mg/L	-	-	18.1	17.9	17.3	17.5
Ammoniacal-N	mg/L	2.1	Max. 2.1 Ave. 0.400	0.03	0.05	0.14	0.09
Hardness	mg CaCO3/L	-	-	69	71	74	73
Calcium	mg/L	-	-	14.7	15.1	15.9	15.8
Magnesium	mg/L	-	-	7.85	8.03	8.35	8.20
Potassium	mg/L	-	-	3.27	3.51	3.62	3.64
Sodium	mg/L	-	-	22.6	23.3	24.3	23.8
D.R. Phosphorus	mg/L	-	-	0.018	0.019	*0.020*	0.024
Dissolved Aluminium	mg/L	0.055	Med. 0.055	0.011	0.008	0.007	0.005
Dissolved Arsenic	mg/L	0.024	Med. 0.024	*0.0005*	*0.0005*	*0.0005*	*0.0005*

Determinant	Units	ANZECC AE (95%)	Consent Trigger Values (Table C1)	HS1A (new)	HS1	HS2	HS3
Dissolved Boron	mg/L	0.370	-	0.06	0.07	0.07	0.07
Dissolved Cadmium	mg/L	0.0002	Med. 0.0002	*0.0001*	*0.0001*	*0.0001*	*0.0001*
Dissolved Chromium (VI)	mg/L	0.001	-	*0.0005*	*0.0005*	*0.0005*	*0.0005*
Dissolved Copper	mg/L	0.0014	Med. 0.0014	0.0008	0.0009	**0.0016**	**0.0030**
Dissolved Iron	mg/L	-	-	0.019	0.011	0.010	0.021
Dissolved Lead	mg/L	0.0034	Med. 0.0034	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Manganese	mg/L	1.9	-	0.0385	0.0339	0.0420	0.0406
Dissolved Mercury	mg/L	0.0006	Med. 0.0006	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	0.011	Med. 0.011	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Zinc	mg/L	0.008	Med. 0.008	*0.001*	*0.001*	*0.001*	*0.001*

Notes:
Bold – denotes an exceedance of the ANZECC AE 95% protection level trigger values.
All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics.

There were **two exceedances of the resource consent conditions** in samples from the Tatana Drain property at TD1 during the April 2020 sampling round for:

- Dissolved copper in samples from HS2 and HS3.

3. Discussion

3.1 Sampling Quality Control and Assurance

The landfill extends over a significant area and there are many sampling locations. However, it is important that the length of the sampling period is kept as brief as possible because a sampling period that is too long may make comparisons of results between rounds less valid. This current monitoring round was carried out over an 8-day period between 1 and 8 April 2020. This is a significant improvement over the timespan of previous quarterly monitoring rounds. The length of the monitoring period (8 days to obtain all the April 2020 samples) has progressively shortened since the October and July 2019 rounds when it took over 11 days and 20 days respectively to obtain all the samples. This monitoring period is very close to the recommended period (i.e. obtaining all samples within 7 days) and therefore the results can be interpreted with greater certainty.

3.2 Background Groundwater Quality

Water quality from the natural background water up-gradient from the landfill site is not subject to any consent conditions.

Results since 2010 from the background bores indicate that low pH values are representative of background water quality in the shallow sand aquifer (G1S). The deeper gravel aquifer (G1D) has pH levels that are slightly higher, but which occasionally dip below the DWSNZ lower guideline of 7.

The E. coli count at the G1S bore (16 CFU/100m)) was above the zero-tolerance level prescribed in the DWSNZ MAV. The aluminium concentration at this bore (0.137mg/L) was marginally above the DWSNZ MAV value of 0.1mg/L. The current results were within the historical result ranges recorded at this bore.

Iron concentrations have fluctuated considerably at both the G1S and G1D bores since monitoring began and are occasionally above the DWSNZ GV. During the April 2020 sampling round, iron concentrations at G1S and G1D exceeded the DWSNZ GV of 0.2mg/L but were within the historical results ranges recorded at this bore. Elevated iron concentrations in groundwater are likely to be related to hydrogeological conditions found at the site and this phenomenon is common in groundwater in this area.

The monitoring results suggest that the quality of background groundwater may be being impacted by local ground conditions and/or activities up-gradient of the landfill. Background bore G1S consistently records elevated concentrations of a range of parameters and therefore may not be suitable to use for

reference background water quality in the future. The suitability of G1S as a background bore will be further assessed prior to issue of the next annual compliance report (for 2019/2020).

3.3 Shallow Aquifer Groundwater Quality

3.3.1 Hydraulically Up-gradient from the Old Landfill

Sampling results from the April 2020 monitoring round show that water quality in the shallow monitoring bores hydraulically up-gradient from the old landfill complies with the discharge consent conditions, except for E. coli at bore D6 (240 CFU/100ml). Scrutiny of the E. coli results during the next monitoring round is recommended to confirm if this result is an anomaly.

Previous quarterly and annual reports noted that nitrate nitrogen concentrations have been consistently elevated in bores D1 and D6 when compared to background (G1S) and bore D4, as shown in Figure 3-1. The concentration of nitrate nitrogen appeared to be steadily increasing until around October 2018 when the concentration began to fall. This recent decreasing trend has persisted throughout the 2019 quarterly monitoring rounds. However, nitrate nitrogen concentrations during the April 2020 monitoring rose to 16.9mg/L from 11.1mg/L during the Jan 2020 monitoring round. There was no nitrate nitrogen result for bore D1 as sampling was not carried out due to insufficient water in the bore.

Bores D1 and D6 are located down gradient of the new landfill, with bore D1 located hydraulically up-gradient of the leachate effluent pond and bore D6 located down gradient of the leachate pond. Other leachate indicators such as boron, chloride and ammoniacal nitrogen concentrations at D6 are all consistent with background concentrations and the historical record.

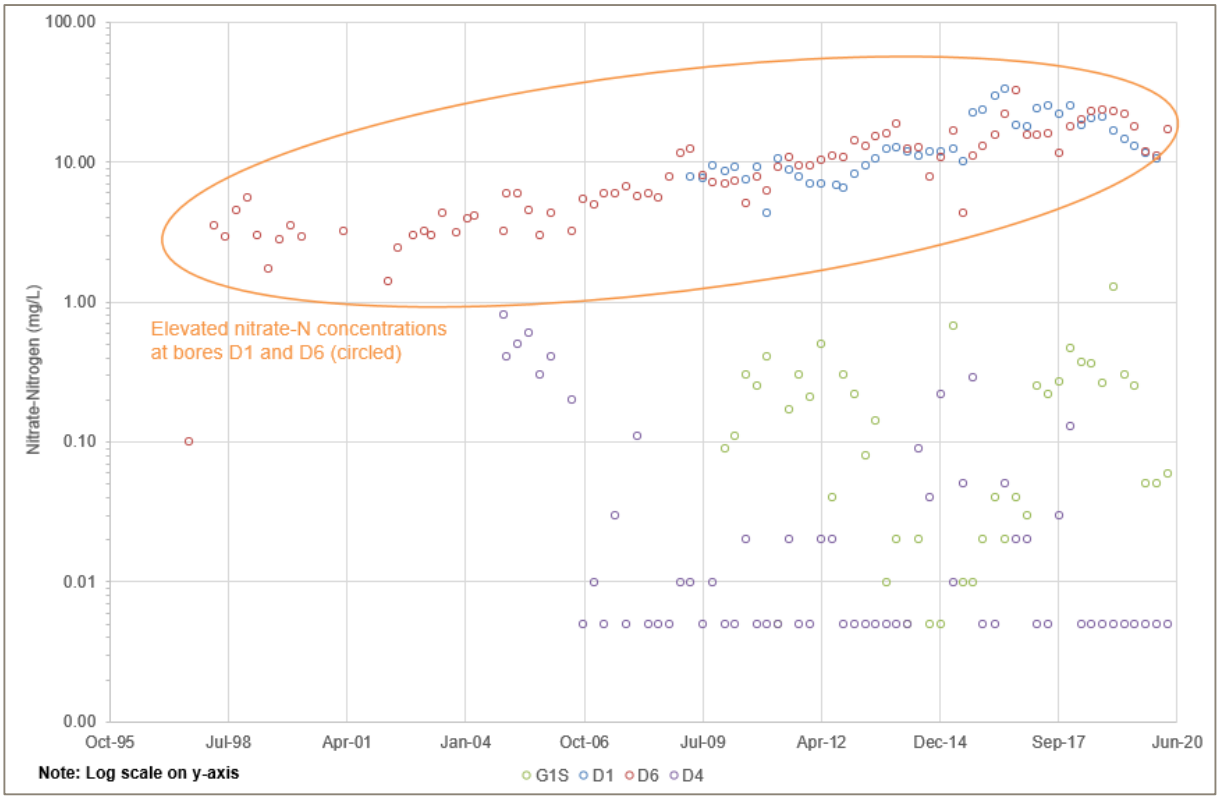


Figure 3-1: Nitrate Nitrogen Concentrations in the D-Series Bores

In previous quarterly reports it was recommended that further investigations be carried out to identify the possible cause (or causes) of the elevated levels of nitrate nitrogen in bores D1 and D6.

Such investigations should include regular monitoring of groundwater levels to be undertaken in all the bores monitored for the 2019-2020 monitoring period so that groundwater flow and the depth of the

unsaturated zone can be assessed. This will enable more conclusions to be drawn as to the source of the elevated nitrate nitrogen concentrations and conductivity values.

3.3.2 Irrigation Area

Sampling results from all shallow bores located hydraulically down-gradient of the irrigation area[2] (F series bores) are consistent with historical results and comply with the discharge consent conditions.

Historical trends with respect to the leachate indicators chloride, boron and ammoniacal nitrogen concentrations in the F-series bores are generally stable and do not show any indications of increasing trends, with the exception for the boron concentration at F1 (345mg/L). Boron concentrations at F1 have consistently been low, or sometimes below the laboratory detection limit. Continued scrutiny of the boron concentration during the next monitoring round is recommended to confirm if this result is anomalous.

3.3.3 Hydraulically Down-gradient from the Old Landfill

During the April 2020 sampling round there were no exceedances of the resource consent conditions for monitored parameter concentrations in samples from the shallow bores.

Bores C1 and G2S are located down gradient of the old landfill to the east. These bores have consistently recorded low concentrations of ammoniacal nitrogen, with G2S often recording concentrations below the detection limit. These bores are likely to be located beyond the eastern edge of the leachate plume.

Bores B1, B2, B3 and C2 all appear to be located and screened within the leachate plume and consistently show significantly elevated concentrations of ammoniacal nitrogen. Historical results for all four bores are plotted in Figure 3-2 below. It is noted that the concentration of ammoniacal nitrogen in bore C2 has been increasing since 2009, while the concentration in B1 has fallen. It is possible that the leachate plume flow direction has "shifted", as a result of flow in one area (or direction) being slower than in others, resulting in a time lag for flow to pass some of the bores. This may have resulted in a different spatial distribution of results from that being observed five years ago. The regular monitoring of the groundwater levels in the bores over the 2019-2020 monitoring period will allow further conclusions to be drawn in the next annual report.

[2] Irrigation of leachate within this area ceased in October 2008

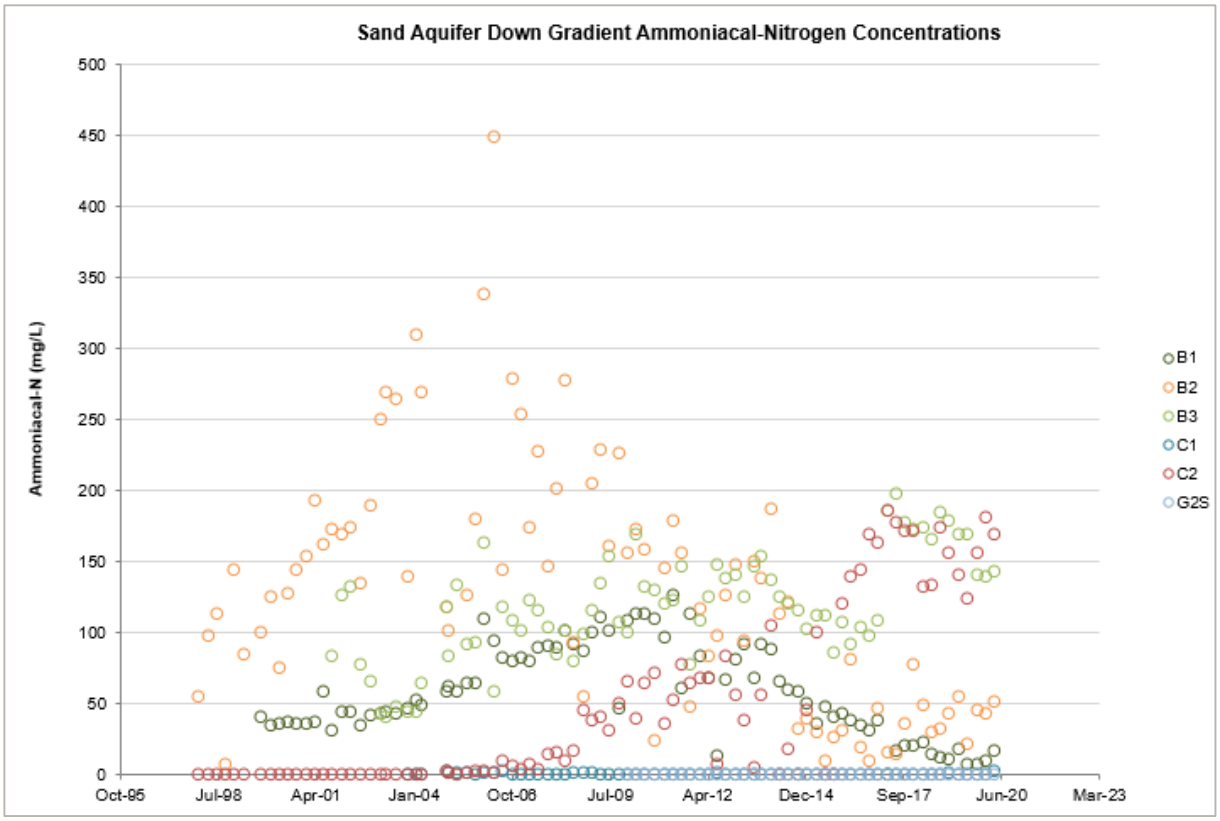


Figure 3-2: Ammoniacal Nitrogen Concentrations in Shallow Bores Screened in the Leachate Plume

Other key leachate indicators, boron, conductivity and chloride are also all elevated in concentrations within the bores that are located and screened in the leachate plume, as would be expected.

During the April 2020 comprehensive monitoring round, water samples taken from all monitoring sites were analysed for typical SVOCs (72 compounds) and VOCs (65 compounds), as per the discharge consent 6010. All compounds detected were at concentrations below the DWSNZ MAV and so the results comply with the resource consent conditions.

The leachate plume appears to have a confined radius northward and is not extending to the north-west or the north-east. The leachate plume width was estimated to be 300-500m in 2014.

3.4 Deep Aquifer Groundwater Quality

The concentration of manganese exceeded the DWSNZ MAV at C2DD within the deep gravel aquifer, in the April 2020 monitoring round. However, it is noted that the manganese concentration at C2DD (0.583mg/L) was consistent with historical results and is representative of background groundwater quality in the area.

3.5 Leachate Effluent

Monitoring results from the leachate effluent samples are not required to meet either the ANZECC LDW trigger values or DWSNZ standards. Apart from the ammoniacal-N concentration which was marginally above the typical range for leachate composition, results from the April 2020 monitoring round were all within the typical composition ranges for Class 1 landfills published in the WasteMINZ[3].

[3] Technical Guidelines for Disposal to Land, WasteMINZ, 2018

3.6 Tatana Property Drain

Under the revised resource consent conditions approved in December 2019, monitoring location 'SW1' is now re-designated as 'TD1', and sampling at locations 'SW2', 'SW3' and 'SW4' has been discontinued.

Under the revised conditions, the Tatana Property drain samples are now assessed against the ANZECC AE 95% trigger values.

During this April 2020 monitoring period, there was one exceedance of the resource consent conditions in samples from the Tatana Drain property at TD1 where the ammoniacal-N concentration exceeded the ANZECC AE 95% value.

3.7 Hokio Stream

Under the revised resource consent conditions, a new monitoring location (HS1A), located upstream of HS1, was added to the Hokio Stream monitoring locations.

Under the revised conditions, the Hokio Stream samples are now assessed against the ANZECC AE 95% trigger values.

During this April 2020 monitoring period, there were two exceedances of the resource consent conditions in samples from the Hokio Stream where the dissolved copper concentration marginally exceeded the ANZECC AE 95% trigger values at each of HS2 and HS3.

3.8 Consent Compliance

Discharge permit 6010 states that quarterly and annual monitoring results should comply with the ANZECC LDW trigger values in the shallow groundwater aquifer (sand aquifer) and surface water bodies. Samples from the deep groundwater (gravel aquifer) should comply with the DWSNZ. Should any parameters exceed these standards, the permit holder shall report to the Regional Council as soon as practicable on the significance of the results and, where the change can be attributed to the influence of landfill leachate, consult with the Regional Council to determine if further investigations or remedial measures are required.

Shallow aquifer

There was **one exceedance** of the resource consent conditions during the April 2020 sampling round for samples obtained from the shallow aquifer:

- E. coli count in D6 exceeded the ANZECC LDW.

Deeper gravel aquifer

There was **one exceedance** of the resource consent conditions in samples from the deep gravel aquifer during the April 2020 sampling round:

- Manganese concentration in bore C2DD exceeded the DWSNZ MAV.

Irrigation area

There was **one exceedance** of the resource consent conditions during the April 2020 sampling round for samples obtained from the irrigation area:

- Boron concentration in F1 exceeded the ANZECC LDW

Tatana Property drain

There was **one exceedance** of the resource consent conditions during the April 2020 sampling round for samples obtained from the Hokio Stream sampling location at TD1:

- Ammoniacal-N exceeded the ANZECC AE 95% trigger value

Hokio stream

There were **two exceedances** of the resource consent conditions during the April 2020 sampling round for samples obtained from the Hokio Stream:

- Dissolved copper concentrations in HS2 and HS3 exceeded the ANZECC AE 95% trigger value.

4. Conclusions

Monitoring results obtained in the April 2020 sampling round suggest that the groundwater at the background monitoring sites is being impacted by local ground conditions and/or activities up-gradient of the landfill.

During the April 2020 monitoring period there were six exceedances of the resource consent conditions, as summarised in the following paragraphs.

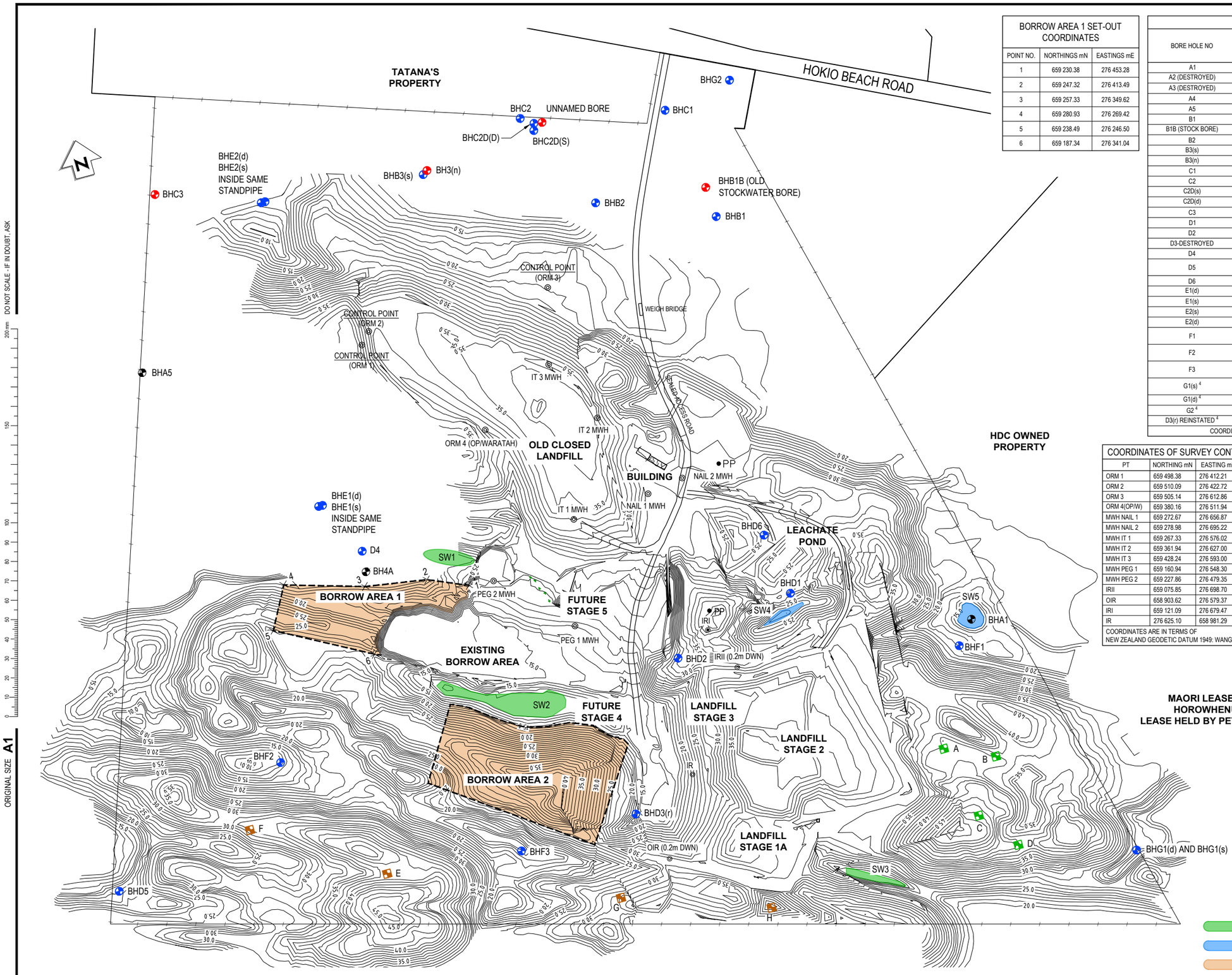
The deep-water bore C2DD located immediately down-gradient hydraulically of the old unlined landfill showed a manganese concentration above the DWSNZ MAV. The concentration of manganese at this bore is consistent with historical results and is representative of typical ground water quality in the area.

There were two exceedances of consent limits found in samples from surface water monitoring at the Hokio Stream; these were for dissolved copper concentrations at mid-stream (HS2) and downstream (HS3) of the old landfill, with these all showing values marginally above the ANZECC AE 95% trigger values. Additionally, there was one exceedance of consent limits in samples from surface water monitoring at the Tatana Property drain (TD1) where the ammoniacal-N concentration exceeded the ANZECC AE 95% trigger values.

Two exceedances of consent limits were significant: these were the E. coli count at shallow bore D6 and the dissolved boron concentration at irrigation area F1. These exceedances appear to be anomalous when compared to historical data and closer scrutiny of results for samples from this shallow bore is recommended during the next monitoring round.

Appendices

Appendix A Site Plans



BORROW AREA 1 SET-OUT COORDINATES		
POINT NO.	NORTHINGS mN	EASTINGS mE
1	659 230.38	276 453.28
2	659 247.32	276 413.49
3	659 257.33	276 349.62
4	659 280.93	276 269.42
5	659 238.49	276 246.50
6	659 187.34	276 341.04

BORE LOCATIONS AND DETAILS						
BORE HOLE NO	NORTHING mN	EASTING mE	R.L. (m)	DEPTH OF WELL (m)	PIEZOMETER DIAMETER (mm)	FUNCTION
A1	659 060.15	276 944.89	12.95			SHALLOW AQUIFER
A2 (DESTROYED)						SHALLOW AQUIFER
A3 (DESTROYED)						SHALLOW AQUIFER
A4	659 271.67	276 354.72	10.10			SHALLOW AQUIFER
A5	659 530.47	276 185.91	9.62			SHALLOW AQUIFER
B1	659 561.81	276 797.35	9.04	4.3	40	SHALLOW AQUIFER
B1B (STOCK BORE)	659 530.08	276 799.91	9.28	10		
B2	659 576.32	276 683.50	9.42	3.5	50	SHALLOW AQUIFER
B3(s)	659 651.19	276 519.52	7.76	2.83	50	SHALLOW AQUIFER
B3(n)	659 654.26	276 524.38	7.49	2.33	32	DEEP AQUIFER
C1	659 649.64	276 777.83	7.47	3.60	50	SHALLOW AQUIFER
C2	659 680.80	276 631.22	7.50	2.81	32	SHALLOW AQUIFER
C2D(s)	659 671.19	276 641.63	10.13	12.88	32	SHALLOW AQUIFER
C2D(d)	659 671.19	276 641.63	10.11	18.85	32	DEEP AQUIFER
C3	659 704.29	276.246.89	7.22	2.8	32	SHALLOW AQUIFER
D1	659 134.97	276 771.65	27.46	23.69	50	EARLY DETECTION
D2	659 101.02	276 642.06	32.12	29.46	50	EARLY DETECTION
D3-DESTROYED						
D4	659 293.20	276 356.60	20.50	17.0		SHALLOW AQUIFER
D5	659 020.80	276 022.40	17.8	18		SHALLOW AQUIFER BACKGROUND
D6	659 200.31	276 761.08	26.41	16.07	50	EARLY DETECTION
E1(d)	659 349.54	276 329.48	20.91	37.80	32	SHALLOW AQUIFER
E1(s)	659 349.54	276 329.48	20.91	20.05	32	DEEP AQUIFER
E2(s)	659 667.30	276 354.69	13.15	15.24	32	SHALLOW AQUIFER
E2(d)	659 667.30	276 354.69	13.15	28.66	32	DEEP AQUIFER
F1	659 037.10	276 925.50	18.90	15.0	50	SHALLOW AQUIFER LEACHATE IRRIGATION
F2	659 105.00	276 218.00	13.50	10.2	50	SHALLOW AQUIFER LEACHATE IRRIGATION
F3	658 951.7	276 434.0	16.70	10.5	50	SHALLOW AQUIFER LEACHATE IRRIGATION
G1(s) [4]	658 786	277 046	24	15	50	SHALLOW AQUIFER BACKGROUND
G1(d) [4]	658 786	277 046	24	31.5	50	DEEP AQUIFER BACKGROUND
G2 [4]	659 673	276 835	8	4	50	SHALLOW AQUIFER
D3(r) REINSTATED [4]	658 953	276 552	18	10	50	EARLY DETECTION
COORDINATES ARE IN TERMS OF NEW ZEALAND GEODETIC DATUM 1949: WANGANUI CIRCUIT						

COORDINATES OF SURVEY CONTROL MARKS			
PT	NORTHING mN	EASTING mE	RL
ORM 1	659 498.38	276 412.21	38.94
ORM 2	659 510.09	276 422.72	34.98
ORM 3	659 505.14	276 612.86	21.10
ORM 4(OP/W)	659 380.16	276 511.94	30.92
MWH NAIL 1	659 272.67	276 656.87	27.61
MWH NAIL 2	659 278.98	276 695.22	28.40
MWH IT 1	659 267.33	276 576.02	30.03
MWH IT 2	659 361.94	276 627.00	33.70
MWH IT 3	659 428.24	276 593.00	32.74
MWH PEG 1	659 160.94	276 548.30	32.99
MWH PEG 2	659 227.86	276 479.35	30.49
IRII	659 075.85	276 698.70	30.04
OIR	658 903.62	276 579.37	30.35
IRI	659 121.09	276 679.47	40.00
IR	276 625.10	658 981.29	21.30
COORDINATES ARE IN TERMS OF NEW ZEALAND GEODETIC DATUM 1949: WANGANUI CIRCUIT			

SOIL MONITORING LOCATIONS	CO-ORDINATES		LEVEL (m)
	NORTHING mN	EASTING mE	
PEG A	658 938.80	276 882.30	39.2
PEG B	658 917.00	276 932.10	39.5
PEG C	658 862.70	276 899.00	46.1
PEG D	658 822.90	276 930.40	40.4
PEG E	658 965.50	276 294.00	36.6
PEG F	659 046.20	276 169.10	32.9
PEG G	658 878.00	276 520.20	32.6
PEG H	658 827.40	276 667.60	23.5

NOTES:

1. LEVELS ARE TOP OF STANDPIPE. WHERE THERE IS NO STANDPIPE, LEVELS ARE TOP OF PVC PIPE.
2. BHA2, BHA3 AND BHD3 HAVE BEEN LOST DUE TO SITE WORKS.
3. "A" SERIES BORE HOLES ARE AUGER HOLES ONLY AND MAY NOT BE ABLE TO BE LOCATED.
4. BORES INSTALLED IN AUG 2009. DETAILS ARE APPROXIMATE.
5. CONTOUR INTERVALS: 5m MAJOR, 1m MINOR

LEGEND

- MONITOR BORES CURRENTLY SAMPLED (FROM JAN 2010)
- BORES NOT SAMPLED
- SHALLOW HANDAUGER STANDPIPES NOT ABLE TO BE LOCATED
- SOIL SAMPLING LOCATION PEG - MONITORED
- SOIL SAMPLING LOCATION PEG - NOT MONITORED
- EXISTING STORMWATER SOAKAGE AREA
- PROPOSED STORMWATER SOAKAGE AREA
- PROPOSED BORROW AREAS

NOT FOR CONSTRUCTION

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A1

REV	REVISIONS	DRN	CHK	APP	DATE
A	FOR INFORMATION	BCJ	PSL	PSL	26.08.19

SURVEYED	MWH	
DESIGNED	N/A	-
DRAWN	Brent James	08.2019
CAD REVIEW	Brent James	26.08.19
APPROVED	Phil Landmark	26.08.19
PROF REGISTRATION:		

Stantec

Client:

HOROWHENUA DISTRICT COUNCIL
LEVIN LANDFILL

MONITORING BORES, SOIL SAMPLING LOCATIONS & BORROW AREAS
SITE PLAN, LOCATION AND DETAILS

Status Stamp: **FOR INFORMATION ONLY**

Date Stamp: **26.08.19**

Scales: 1:2000 (A1) 1:4000 (A3)

Drawing No.: 310101088-19-001-G001

Rev.: A

26/08/2019 9:35 a.m.

pw:\\asiavpwint05.mwhglobal.com:AP_PROJECTS\Documents\New Zealand Clients\Horowhenua District Council\80500724 - Levin Landfill Volumes\2019\General\310101088-19-001-G001

Hokio Stream ("HS") and Tatana's Property Drain ("SW") Monitoring Locations

Appendix B Sampling Schedule

LEVIN LANDFILL - SUMMARY OF SURFACE AND GROUNDWATER MONITORING REQUIREMENTS (April 2020 - January 2023).

(The testing regime is based on Consent Conditions following the completion of the 2015 Resource Consent Review process).

Reports Due		Sampling Month	Table A (Condition 3, DP 6010)					Table B (Condition 3, DP 6010)																				Table C (Condition 3, DP 6010)						
			Deep Aquifer Bores					Shallow Aquifer Bores																	Irrigation Bores				Hokio Stream[4]				Tatana Drain	Leachate Pond[5]	
Annual	Quarterly		C2dd	E1d	E2d	G1d	Xd1[1]	C1	C2	C2ds	D4	B1	B2	B3s	E1s	E2s	D1[2]	D2[2]	D3r[2]	D6[2]	G1s	G2s	Xs1[1]	Xs2[1]	D5[3]	F1[3]	F2[3]	F3[3]	HS1	HS1A	HS2	HS3	TD1		
	May-20	**Apr-20**	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	Monthly Comprehensive for 2 Years	Monthly Comprehensive for 2 Years	Monthly Comprehensive for 2 Years	Monthly Comprehensive for 2 Years	C	Monthly Comprehensive for 2	A
Sep-20	**Aug-20**	**Jul-20**	I	I + SW	I	I	C	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	C	C	I	I	I	I + SW					I		
	Nov-20	**Oct-20**	I	I + SW	I	I	C	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	C	C	I	I	I	I + SW					C		A
	Feb-21	**Jan-21**	I	I + SW	I	I	C	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	C	C	I	I	I	I + SW					I		
	May-21	**Apr-21**	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A					C		A
Sep-21	**Aug-21**	**Jul-21**	I	I + SW	I	I	C	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	C	C	I	I	I	I + SW					I		
	Nov-21	**Oct-21**	I	I + SW	I	I	C	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	C	C	I	I	I	I + SW					C		A
	Feb-22	**Jan-22**	I	I + SW	I	I	C	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	C	C	I	I	I	I + SW					I		
	May-22	**Apr-22**	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	Discontinue after 2 years	C	C	C	C	C + A	
Sep-22	**Aug-22**	**Jul-22**	I	I + SW	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW		I	I	I	I	I	
	Nov-22	**Oct-22**	I	I + SW	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW		C	C	C	C	C	
	Feb-23	**Jan-23**	I	I + SW	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW		I	I	I	I	I	
			Measure groundwater level and sample all bores for CH_4, CO_2 and O_2 each time that groundwater is sampled (Condition 4a of DP 6011)																																

Notes:

(1) Bores to be developed by Consent Holder
(2) See table below
(3) If irrigation re-commences then the annual sampling is to change from comprehensive + 3 times indicator to bi-annual comprehensive + indicator (Clause D of Condition 3, DP 6010) .
(4) See table below
(5) See table below
C Comprehensive list (see below)
I Indicator list (see below)
A Pesticide and SVOC analysis
SW Add sodium and iron analysis (for stormwater consent 102559)

A reduction in sampling frequency at any **groundwater monitoring point** is conditional on (Clauses A - D of Condition 3, DP 6010):

A. Completion of the initial monitoring program;
B. Good consistency of groundwater sample analysis results, or a clearly identified reason for inconsistent results that excludes the contaminant source being landfill operations, stored waste or leachate;
C. No decline in groundwater quality as determined from indicator parameter trends over a period of four consecutive sampling rounds;
D. If a well being monitored on a conditional frequency becomes non-compliant with condition C, the monitoring frequency for that well should return to the initial monitoring frequency until conditions B and C are again being fulfilled.

(2) If site management planning indicates any **early detection monitoring well** is likely to become buried or otherwise destroyed within the following year as a result of normal operations (Clauses E - H, Condition 3, DP 6010):

E. This must be communicated to the regional council;
F. A replacement well is to be constructed in a position agreed upon with Horizons Regional Council
G. The replacement well should be installed in a position suitable to act as a early detection well and be classed as an early detection well;
H. The replacement well should be constructed as a nested well (or two separate wells) with screens positioned in both shallow and deep aquifers.

(4) A reduction in sampling frequency at the **Hokio Stream monitoring locations (HS1A, HS2 and HS3)** is conditional on (Clauses I - L, Condition 3 of DP 6010):

I. No signficant increases in the concentrations between monitoring sites HS1A and HS3, for parameters exceeding the trigger values contained in Table C1 at Site HS3.
J. A statistical analysis approach is to be used to determine if there is a significant increase in contaminant levels between HS1A and HS3.
K. Following the 24 month monitoring period, there shall be no significant increases in concentrations between monitoring sites HS1A and HS3.
L. If the Hokio Stream monitoring locations are being sampled on a conditional frequency and do not meet condition K, the monitoring frequency for all three monitoring locations (HS1A, HS2 and HS3) shall return to the base case intensive monitoring until conditions J and K are again being fulfilled.

(5) A reduction in sampling frequency at the **leachate pond outlet** is conditional on (Clauses M - P, Condition 3, DP 6010):

M. Completion of the initial 2 year monitoring program;
N. Good consistency of water sample analysis results, or a clearly identified reason for inconsistent results;
O. No decline in water quality over a period of four consecutive sampling rounds;
P. If the leachate pond outlet is being sampled on a conditional frequency and becomes non-compliant with condition O, the monitoring frequency should return to the base case intensive monitoring until conditions N and O are again being fulfilled.

COMPREHENSIVE PARAMETER LIST (Table E of Condition 3, DP 6010)

Characterising parameters	pH
	electrical conductivity (EC)
	alkalinity
	total hardness
	suspended solids
Oxygen demand	COD and $scBOD_5$
Nutrients*	NO3-N, NH4-N, DRP and SO_4
Metals*	Al, As, Cd, Cr, Cu, Fe, Mg, Mn, Ni, Pb, Zn and Hg
Other elements	B, Ca, Cl, K and Na
Organics	Total organic carbon, total phenols, volatile acids
Biological	E. coli

* Analyses performed for nutrients and metals are for dissolved rather than total concentrations

INDICATOR PARAMETER LIST (Table F, Condition 3, DP 6010)

Characterising parameters	pH
	electrical conductivity (EC)
Oxygen demand	COD and $scBOD_5$
Nutrients*	NO3-N and NH4-N
Metals*	AL, Mn, Ni, Pb and Hg
Other elements	B and Cl
Biological[+]	E. coli

* Analyses performed for nutrients and metals are for dissolved rather than total concentrations

[+] E. coli added from April 2019 sampling onwards

Appendix C Analytical Results

Eurofins ELS Limited

Analytical Report

Downer EDI Levin - Landfill
P O Box 642
LEVIN 5540
Attention: Bruce Marshall

Report Number: 20/17363
Issue: 1
29 April 2020

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-01	Levin C2dd		06/04/2020 00:00	06/04/2020 15:54	0

Notes: 179221-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.7		06/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	< 6	g/m³	06/04/2020	Marylou Cabral KTP
0040	Total (NP) Organic Carbon	4.2	g/m³	09/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	194	g CaCO3/m³	06/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	52.5	mS/m	06/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	< 15	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	06/04/2020	Gordon McArthur KTP
0602	Chloride	40.5	g/m³	07/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	07/04/2020	Shanel Kumar KTP
0607	Sulphate	0.03	g/m³	07/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	0.33	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	168	g CaCO3/m³	07/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	43.8	g/m³	07/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	0.024	g/m³	07/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	14.3	g/m³	07/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	39.4	g/m³	07/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.667	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	< 0.002	g/m³	07/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.003	g/m³	07/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.07	g/m³	07/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	07/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	07/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.583	g/m³	07/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	6.32	g/m³	07/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	07/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	06/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		07/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-01	Levin C2dd		06/04/2020 00:00	06/04/2020 15:54	0

Notes: 179221-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-011 Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012 Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013 Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014 Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015 Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016 Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017 Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018 Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019 p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020 p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022 Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023 Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024 Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025 Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027 Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028 Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029 Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030 Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031 d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033 Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034 Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035 Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038 Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039 Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041 Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043 Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044 Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046 Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047 Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049 Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051 Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057 Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060 Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062 Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064 Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-01	Levin C2dd		06/04/2020 00:00	06/04/2020 15:54	0

Notes: 179221-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
SVOC-066	2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072	Bis(2-ethylhexyl)adipate	0.0001	mg/L	08/04/2020	Joanna Yang KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-003	Benzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-007	Naphthalene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-010	o-Xylene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	08/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-01	Levin C2dd		06/04/2020 00:00	06/04/2020 15:54	0

Notes: 179221-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-02	Levin E1d		06/04/2020 00:00	07/04/2020 09:30	0

Notes: 179222-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.7		07/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	< 5	g/m³	07/04/2020	Marylou Cabral KTP
0040	Total (NP) Organic Carbon	3.1	g/m³	09/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	155	g CaCO3/m³	07/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	45.5	mS/m	07/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	< 15	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	38.7	g/m³	07/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	07/04/2020	Shanel Kumar KTP
0607	Sulphate	< 0.02	g/m³	09/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.20	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	131	g CaCO3/m³	07/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	31.8	g/m³	07/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	0.030	g/m³	07/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	12.4	g/m³	07/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	36.5	g/m³	07/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.411	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	< 0.002	g/m³	07/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.007	g/m³	07/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.06	g/m³	07/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	07/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	07/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.248	g/m³	07/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	5.03	g/m³	07/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	07/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	07/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-02	Levin E1d		06/04/2020 00:00	07/04/2020 09:30	0

Notes: 179222-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		07/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014	Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022	Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023	Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024	Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025	Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027	Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028	Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029	Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030	Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031	d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032	Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033	Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034	Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035	Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037	Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038	Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039	Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040	Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041	Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042	Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043	Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044	Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045	Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046	Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047	Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048	Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049	Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050	Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051	Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-02	Levin E1d		06/04/2020 00:00	07/04/2020 09:30	0

Notes: 179222-0 Levin Landfill Sample

Test		Result	Units	Test Date	Signatory
SVOC-052	benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053	Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054	Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055	Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057	Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058	Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059	Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060	Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061	Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062	Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063	Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064	Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066	2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072	Bis(2-ethylhexyl)adipate	0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-003	Benzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-007	Naphthalene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-010	o-Xylene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-02	Levin E1d		06/04/2020 00:00	07/04/2020 09:30	0

Notes: 179222-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	08/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-03	Levin E2d		06/04/2020 00:00	07/04/2020 09:30	0

Notes: 179223-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.7		07/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	14	g/m³	07/04/2020	Marylou Cabral KTP
0040	Total (NP) Organic Carbon	2.1	g/m³	09/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	76	g CaCO3/m³	07/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	35.4	mS/m	07/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	< 15	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	47.8	g/m³	07/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	07/04/2020	Shanel Kumar KTP
0607	Sulphate	12.4	g/m³	07/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	0.30	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	83	g CaCO3/m³	07/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	23.1	g/m³	07/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	0.046	g/m³	07/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	6.14	g/m³	07/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	30.2	g/m³	07/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.198	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	< 0.002	g/m³	07/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.001	g/m³	07/04/2020	Shanel Kumar KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-03	Levin E2d		06/04/2020 00:00	07/04/2020 09:30	0

Notes: 179223-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
6707	Boron - Dissolved	< 0.03	g/m³	07/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	07/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	07/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.234	g/m³	07/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	07/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	5.67	g/m³	07/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	07/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	07/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		07/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014	Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022	Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023	Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024	Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025	Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027	Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028	Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029	Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030	Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031	d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032	Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033	Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034	Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035	Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037	Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038	Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-03	Levin E2d		06/04/2020 00:00	07/04/2020 09:30	0

Notes: 179223-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-039 Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041 Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043 Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044 Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046 Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047 Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049 Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051 Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057 Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060 Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062 Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064 Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072 Bis(2-ethylhexyl)adipate	0.0001	mg/L	08/04/2020	Joanna Yang KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-003 Benzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-007 Naphthalene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-010 o-Xylene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-013 sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-014 Styrene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-015 tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-016 Toluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-017 Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Joanna Yang KTP
VOC-018 1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-019 1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-020 1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-021 1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-022 1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-023 1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-03	Levin E2d		06/04/2020 00:00	07/04/2020 09:30	0

Notes: 179223-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	08/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-04	Levin G1D		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179224-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.7		02/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	< 5	g/m³	02/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	2.0	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	59	g CaCO3/m³	02/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	28.3	mS/m	02/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	< 15	g/m³	03/04/2020	Gordon McArthur KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-04	Levin G1D		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179224-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	02/04/2020	Marylou Cabral KTP
0602	Chloride	31.5	g/m³	03/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	03/04/2020	Amit Kumar KTP
0607	Sulphate	20.1	g/m³	03/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.10	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	50	g CaCO3/m³	03/04/2020	Amit Kumar KTP
1810	Calcium - Dissolved	7.83	g/m³	03/04/2020	Amit Kumar KTP
1819	Iron - Dissolved	0.440	g/m³	03/04/2020	Amit Kumar KTP
1822	Magnesium - Dissolved	7.51	g/m³	03/04/2020	Amit Kumar KTP
1834	Sodium - Dissolved	32.0	g/m³	03/04/2020	Amit Kumar KTP
2088	Dissolved Reactive Phosphorus	0.030	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	0.002	g/m³	03/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.003	g/m³	03/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.04	g/m³	03/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	03/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	03/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0703	g/m³	03/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	6.27	g/m³	03/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	03/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	02/04/2020	Juana Tamayo KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		03/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-022	Procymidone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-023	Propanil	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-04	Levin G1D		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179224-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-024 Endosulfan I	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-025 Alachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-026 Aldicarb	<0.1	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-027 Atrazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-072 Bis(2-ethylhexyl)adipate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-003 Benzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-007 Naphthalene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-04	Levin G1D		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179224-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-009	n-Propylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-010	o-Xylene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	03/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	03/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	03/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	03/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-04	Levin G1D		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179224-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-062	Bromodichloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-06	Levin C1		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179226-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	6.7		08/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	40	g/m³	08/04/2020	Jennifer Mont KTP
0040	Total (NP) Organic Carbon	16.6	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	249	g CaCO3/m³	08/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	127	mS/m	08/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	54	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	217	g/m³	08/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	08/04/2020	Amit Kumar KTP
0607	Sulphate	32.6	g/m³	08/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	2.91	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	306	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	52.2	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	2.53	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	42.6	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	122	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.011	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.009	g/m³	14/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	< 0.001	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	0.57	g/m³	09/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	< 0.001	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	0.0008	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	0.410	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	0.0012	g/m³	09/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	16.7	g/m³	09/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	< 0.002	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	08/04/2020	Maria Norris KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Lizzie Addis Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Lizzie Addis Transcribed by
P1859	Sample Filtration	Completed		08/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-06	Levin C1		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179226-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-012 Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013 Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014 Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015 Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016 Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017 Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018 Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019 p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020 p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022 Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023 Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024 Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025 Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027 Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028 Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029 Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030 Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031 d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033 Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034 Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035 Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038 Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039 Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041 Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043 Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044 Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046 Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047 Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049 Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051 Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057 Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060 Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062 Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064 Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-06	Levin C1		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179226-0 Levin Landfill Sample

Test		Result	Units	Test Date	Signatory
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072	Bis(2-ethylhexyl)adipate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-003	Benzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-007	Naphthalene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-010	o-Xylene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	< 0.010	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-06	Levin C1		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179226-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-08	Levin C2ds		08/04/2020 00:00	08/04/2020 14:33	0

Notes: 179228-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.0		08/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	52	g/m³	08/04/2020	Marylou Cabral KTP
0040	Total (NP) Organic Carbon	32.0	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	716	g CaCO3/m³	08/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	170	mS/m	08/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	89	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 6	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	125	g/m³	11/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	11/04/2020	Amit Kumar KTP
0607	Sulphate	< 0.02	g/m³	11/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	1.79	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	589	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	134	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	22.5	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	61.7	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	115	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.122	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	< 0.002	g/m³	14/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.003	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	0.87	g/m³	09/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	< 0.001	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	2.75	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	14/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	0.0029	g/m³	14/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	16.7	g/m³	09/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	< 0.002	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	08/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Lizzie Addis Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Lizzie Addis Transcribed by
P1859	Sample Filtration	Completed		09/04/2020	Robyn Madge .

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-08	Levin C2ds		08/04/2020 00:00	08/04/2020 14:33	0

Notes: 179228-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-001 2,3-Diuron	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-002 a-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-003 a-chlordane	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-004 Aldrin	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-005 b-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-006 cis-Permethrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-007 Dieldrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-008 Endosulfan II	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-009 Endosulfan Sulfate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-010 Endrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-011 Endrin Aldehyde	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-012 Endrin Ketone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-013 Gamma-Chlordane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-014 Heptachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-015 Heptachlor Epoxide	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-016 Hexachlorobenzene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-017 Lindane (g-BHC)	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-018 Methoxychlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-019 p,p'-DDD	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-020 p,p'DDE	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-022 Procymidone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-023 Propanil	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-024 Endosulfan I	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-025 Alachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-027 Atrazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	0.004	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k)	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-08	Levin C2ds		08/04/2020 00:00	08/04/2020 14:33	0

Notes: 179228-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
	fluoranthrene				
SVOC-055	Benzo(g,h,i)perylene	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-057	Chrysene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-058	Dibenz(a,h)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-059	Fluoranthene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-060	Fluorene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-061	Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-062	Naphthalene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-063	Phenanthrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-064	Pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-066	2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-072	Bis(2-ethylhexyl)adipate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-003	Benzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-007	Naphthalene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-010	o-Xylene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-08	Levin C2ds		08/04/2020 00:00	08/04/2020 14:33	0

Notes: 179228-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	<0.005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-09	Levin D4		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179229-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.1		08/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	5	g/m³	08/04/2020	Jennifer Mont KTP
0040	Total (NP) Organic Carbon	2.4	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	55	g CaCO3/m³	08/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	31.3	mS/m	08/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	< 15	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	44.6	g/m³	08/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	08/04/2020	Amit Kumar KTP
0607	Sulphate	12.5	g/m³	08/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.21	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	62	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	11.0	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	1.51	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	8.39	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	31.7	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.016	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	< 0.002	g/m³	14/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.004	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	0.04	g/m³	09/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	< 0.001	g/m³	09/04/2020	Sharon van Soest KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-09	Levin D4		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179229-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
6713	Copper - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	0.189	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	6.62	g/m³	09/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	< 0.002	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	08/04/2020	Maria Norris KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Lizzie Addis Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Lizzie Addis Transcribed by
P1859	Sample Filtration	Completed		08/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014	Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022	Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023	Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024	Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025	Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027	Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028	Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029	Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030	Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031	d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032	Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033	Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034	Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035	Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037	Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038	Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039	Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040	Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041	Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042	Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043	Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-09	Levin D4		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179229-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-044 Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046 Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047 Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049 Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051 Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057 Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060 Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062 Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064 Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072 Bis(2-ethylhexyl)adipate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-003 Benzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-007 Naphthalene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-010 o-Xylene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-013 sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-014 Styrene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-015 tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-016 Toluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-017 Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-018 1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-019 1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-020 1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-021 1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-022 1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-023 1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-024 1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-025 1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-026 1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-027 1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-028 1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-09	Levin D4		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179229-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	< 0.010	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-10	Levin B1		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179230-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	6.9		09/04/2020	Jennifer Mont KTP
0002	Suspended Solids - Total	< 6	g/m³	09/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	22.8	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	624	g CaCO3/m³	09/04/2020	Jennifer Mont KTP
0055	Conductivity at 25°C	276	mS/m	09/04/2020	Jennifer Mont KTP
0081	Chemical Oxygen Demand	60	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	506	g/m³	09/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	1.50	g/m³	09/04/2020	Amit Kumar KTP
0607	Sulphate	2.85	g/m³	09/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	16.8	g/m³	11/04/2020	Athena Cao

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-10	Levin B1		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179230-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
1642	Total Hardness	670	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	122	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	0.032	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	88.9	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	257	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.105	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.005	g/m³	09/04/2020	Sharon van Soest KTP
6703	Arsenic - Dissolved	0.001	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	1.20	g/m³	09/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	< 0.001	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	0.0094	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	17.5	g/m³	14/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	0.0045	g/m³	09/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	29.9	g/m³	14/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	0.005	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	09/04/2020	Maria Norris KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Sunita Raju Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Sunita Raju Transcribed by
P1859	Sample Filtration	Completed		09/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-022	Procymidone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-023	Propanil	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-024	Endosulfan I	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-025	Alachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-027	Atrazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-028	Bromacil	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-029	Carbofuran	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-030	Cyanazine	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-031	d-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-10	Levin B1		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179230-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-032 Metalaxyl-M	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-072 Bis(2-ethylhexyl)adipate	0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-003 Benzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-007 Naphthalene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-010 o-Xylene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-013 sec-Butylbenzene	0.0007	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-014 Styrene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-015 tert-Butylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-016 Toluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-017 Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-10	Levin B1		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179230-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	0.0006	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-11	Levin B2		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179231-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	6.9		09/04/2020	Jennifer Mont KTP
0002	Suspended Solids - Total	9	g/m³	09/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	31.7	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	723	g CaCO3/m³	09/04/2020	Jennifer Mont KTP
0055	Conductivity at 25°C	209	mS/m	09/04/2020	Jennifer Mont KTP
0081	Chemical Oxygen Demand	81	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	141	g/m³	09/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	21.8	g/m³	09/04/2020	Amit Kumar KTP
0607	Sulphate	8.85	g/m³	09/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	51.6	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	546	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	117	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	0.722	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	61.6	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	115	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.021	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.009	g/m³	09/04/2020	Sharon van Soest KTP
6703	Arsenic - Dissolved	0.006	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	1.69	g/m³	14/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	0.001	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	0.0031	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	4.33	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	0.0030	g/m³	09/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	57.6	g/m³	14/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	0.004	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	09/04/2020	Maria Norris KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Sunita Raju Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Sunita Raju Transcribed by
P1859	Sample Filtration	Completed		09/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-11	Levin B2		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179231-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-020 p,p'DDE	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-022 Procymidone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-023 Propanil	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-024 Endosulfan I	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-025 Alachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-027 Atrazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-072 Bis(2-ethylhexyl)adipate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-001 1,2,4-Trimethylbenzene	0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-003 Benzene	0.0011	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-11	Levin B2		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179231-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-005	Isopropylbenzene	0.0006	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-007	Naphthalene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-010	o-Xylene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-013	sec-Butylbenzene	0.0007	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-014	Styrene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-016	Toluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	0.0007	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	0.0006	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	0.0008	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	0.0098	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-11	Levin B2		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179231-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-12	Levin B3s		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179232-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.1		11/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	74	g/m³	09/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	70.6	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	1,180	g CaCO3/m³	11/04/2020	Jennifer Mont KTP
0055	Conductivity at 25°C	288	mS/m	11/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	213	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 6	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	194	g/m³	09/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	< 0.10	g/m³	09/04/2020	Amit Kumar KTP
0607	Sulphate	< 0.02	g/m³	09/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	143	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	509	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	89.7	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	1.03	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	69.2	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	152	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.031	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.007	g/m³	09/04/2020	Sharon van Soest KTP
6703	Arsenic - Dissolved	0.035	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	1.40	g/m³	09/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	0.005	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	0.0007	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	4.84	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	0.0136	g/m³	09/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	91.5	g/m³	14/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	09/04/2020	Maria Norris KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Sunita Raju Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Sunita Raju Transcribed by
P1859	Sample Filtration	Completed		09/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-12	Levin B3s		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179232-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-009 Endosulfan Sulfate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-010 Endrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-011 Endrin Aldehyde	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-012 Endrin Ketone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-013 Gamma-Chlordane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-014 Heptachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-015 Heptachlor Epoxide	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-016 Hexachlorobenzene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-017 Lindane (g-BHC)	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-018 Methoxychlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-019 p,p'-DDD	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-020 p,p'DDE	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-022 Procymidone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-023 Propanil	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-024 Endosulfan I	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-025 Alachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-027 Atrazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	0.011	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-12	Levin B3s		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179232-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
SVOC-063	Phenanthrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-064	Pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-066	2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-072	Bis(2-ethylhexyl)adipate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-001	1,2,4-Trimethylbenzene	0.0008	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-002	1,3,5-Trimethylbenzene	0.0007	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-003	Benzene	0.0015	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-005	Isopropylbenzene	0.0008	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-007	Naphthalene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-010	o-Xylene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-013	sec-Butylbenzene	0.0007	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-014	Styrene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-016	Toluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	0.0009	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-12	Levin B3s		08/04/2020 00:00	09/04/2020 09:27	0

Notes: 179232-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	0.0008	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	0.0011	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-13	Levin E1s		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179233-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.2		08/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	7	g/m³	08/04/2020	Jennifer Mont KTP
0040	Total (NP) Organic Carbon	5.2	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	68	g CaCO3/m³	08/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	27.1	mS/m	08/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	< 15	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	28.7	g/m³	09/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	09/04/2020	Amit Kumar KTP
0607	Sulphate	9.10	g/m³	09/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.17	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	59	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	11.0	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	4.65	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	7.62	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	28.9	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.053	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.006	g/m³	14/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.002	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	0.03	g/m³	09/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	< 0.001	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	0.0006	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	0.243	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	6.22	g/m³	09/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	< 0.002	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	08/04/2020	Maria Norris KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-13	Levin E1s		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179233-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Lizzie Addis Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Lizzie Addis Transcribed by
P1859	Sample Filtration	Completed		08/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014	Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022	Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023	Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024	Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025	Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027	Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028	Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029	Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030	Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031	d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032	Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033	Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034	Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035	Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037	Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038	Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039	Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040	Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041	Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042	Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043	Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044	Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045	Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046	Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047	Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048	Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049	Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050	Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051	Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-13	Levin E1s		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179233-0 Levin Landfill Sample

Test		Result	Units	Test Date	Signatory
SVOC-052	benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053	Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054	Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055	Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057	Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058	Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059	Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060	Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061	Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062	Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063	Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064	Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066	2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072	Bis(2-ethylhexyl)adipate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-003	Benzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-007	Naphthalene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-010	o-Xylene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-13	Levin E1s		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179233-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	< 0.010	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-14	Levin E2s		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179234-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.6		08/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	< 5	g/m³	08/04/2020	Jennifer Mont KTP
0040	Total (NP) Organic Carbon	2.9	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	146	g CaCO3/m³	08/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	44.9	mS/m	08/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	< 15	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	40.7	g/m³	09/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	09/04/2020	Amit Kumar KTP
0607	Sulphate	< 0.02	g/m³	09/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.25	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	119	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	26.0	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	0.047	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	13.0	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	41.2	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.621	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.004	g/m³	09/04/2020	Sharon van Soest KTP
6703	Arsenic - Dissolved	0.001	g/m³	09/04/2020	Sharon van Soest KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-14	Levin E2s		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179234-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
6707	Boron - Dissolved	0.05	g/m³	09/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	< 0.001	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	0.386	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	6.46	g/m³	09/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	0.003	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	08/04/2020	Maria Norris KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Lizzie Addis Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Lizzie Addis Transcribed by
P1859	Sample Filtration	Completed		08/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014	Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022	Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023	Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024	Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025	Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027	Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028	Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029	Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030	Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031	d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032	Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033	Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034	Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035	Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037	Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038	Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039	Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040	Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-14	Levin E2s		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179234-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-041 Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043 Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044 Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046 Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047 Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049 Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051 Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057 Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060 Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062 Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064 Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072 Bis(2-ethylhexyl)adipate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-003 Benzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-007 Naphthalene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-010 o-Xylene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-013 sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-014 Styrene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-015 tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-016 Toluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-017 Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-018 1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-019 1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-020 1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-021 1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-022 1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-023 1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-024 1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-025 1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-14	Levin E2s		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179234-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	< 0.010	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-16	Levin D2		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179236-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	6.3		08/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	17	g/m³	08/04/2020	Jennifer Mont KTP
0040	Total (NP) Organic Carbon	13.2	g/m³	09/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	109	g CaCO3/m³	08/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	33.6	mS/m	08/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	31	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 3	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	32.8	g/m³	08/04/2020	Amit Kumar KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-16	Levin D2		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179236-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0605	Nitrate - Nitrogen	< 0.01	g/m³	08/04/2020	Amit Kumar KTP
0607	Sulphate	< 0.02	g/m³	08/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.49	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	87	g CaCO3/m³	09/04/2020	Amit Kumar KTP
1810	Calcium - Dissolved	15.4	g/m³	09/04/2020	Amit Kumar KTP
1819	Iron - Dissolved	15.0	g/m³	09/04/2020	Amit Kumar KTP
1822	Magnesium - Dissolved	11.8	g/m³	09/04/2020	Amit Kumar KTP
1834	Sodium - Dissolved	32.6	g/m³	09/04/2020	Amit Kumar KTP
2088	Dissolved Reactive Phosphorus	0.038	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.014	g/m³	08/04/2020	Sharon van Soest KTP
6703	Arsenic - Dissolved	0.001	g/m³	08/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	0.04	g/m³	08/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	08/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	0.001	g/m³	08/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	< 0.0005	g/m³	08/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	08/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	0.306	g/m³	08/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	08/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	08/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	7.10	g/m³	08/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	0.005	g/m³	08/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	07/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		08/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014	Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022	Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023	Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024	Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025	Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-16	Levin D2		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179236-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-027 Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028 Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029 Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030 Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031 d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033 Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034 Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035 Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038 Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039 Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041 Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043 Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044 Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046 Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047 Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049 Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051 Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057 Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060 Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062 Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064 Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072 Bis(2-ethylhexyl)adipate	0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-003 Benzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-007 Naphthalene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-010 o-Xylene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-16	Levin D2		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179236-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	08/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-16	Levin D2		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179236-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-17	Levin D3r		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179237-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.0		08/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	< 6	g/m³	08/04/2020	Jennifer Mont KTP
0040	Total (NP) Organic Carbon	3.1	g/m³	09/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	56	g CaCO3/m³	08/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	21.4	mS/m	08/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	< 15	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	21.7	g/m³	08/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	0.18	g/m³	08/04/2020	Amit Kumar KTP
0607	Sulphate	6.96	g/m³	08/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.18	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	34	g CaCO3/m³	09/04/2020	Amit Kumar KTP
1810	Calcium - Dissolved	6.81	g/m³	09/04/2020	Amit Kumar KTP
1819	Iron - Dissolved	2.86	g/m³	09/04/2020	Amit Kumar KTP
1822	Magnesium - Dissolved	4.19	g/m³	09/04/2020	Amit Kumar KTP
1834	Sodium - Dissolved	27.3	g/m³	09/04/2020	Amit Kumar KTP
2088	Dissolved Reactive Phosphorus	0.015	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	< 0.002	g/m³	08/04/2020	Sharon van Soest KTP
6703	Arsenic - Dissolved	0.011	g/m³	08/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	< 0.03	g/m³	08/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	08/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	< 0.001	g/m³	08/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	< 0.0005	g/m³	08/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	08/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	0.176	g/m³	08/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	08/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	08/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	4.90	g/m³	08/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	< 0.002	g/m³	08/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	07/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		08/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-002	a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003	a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004	Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005	b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007	Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008	Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010	Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-17	Levin D3r		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179237-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-013 Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014 Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015 Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016 Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017 Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018 Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019 p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020 p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022 Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023 Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024 Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025 Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027 Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028 Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029 Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030 Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031 d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033 Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034 Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035 Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038 Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039 Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041 Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043 Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044 Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046 Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047 Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049 Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051 Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057 Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060 Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062 Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064 Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-17	Levin D3r		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179237-0 Levin Landfill Sample

Test		Result	Units	Test Date	Signatory
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072	Bis(2-ethylhexyl)adipate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-003	Benzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-007	Naphthalene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-010	o-Xylene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	08/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-17	Levin D3r		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179237-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-18	Levin D6		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179238-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.1		08/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	< 5	g/m³	08/04/2020	Jennifer Mont KTP
0040	Total (NP) Organic Carbon	1.0	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	73	g CaCO3/m³	08/04/2020	Marylou Cabral KTP
0055	Conductivity at 25°C	37.2	mS/m	08/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	< 15	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	19.8	g/m³	09/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	16.9	g/m³	09/04/2020	Amit Kumar KTP
0607	Sulphate	4.34	g/m³	09/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	< 0.01	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	95	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	18.0	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	< 0.005	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	12.3	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	33.9	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.101	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.003	g/m³	09/04/2020	Sharon van Soest KTP
6703	Arsenic - Dissolved	0.001	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	0.05	g/m³	09/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	< 0.001	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	0.0057	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	0.0009	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	8.16	g/m³	09/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	0.004	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	240	cfu/100mL	08/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Lizzie Addis Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Lizzie Addis Transcribed by
P1859	Sample Filtration	Completed		08/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-18	Levin D6		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179238-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-002 a-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-003 a-chlordane	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-004 Aldrin	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-005 b-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-006 cis-Permethrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-007 Dieldrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-008 Endosulfan II	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-009 Endosulfan Sulfate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-010 Endrin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-011 Endrin Aldehyde	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-012 Endrin Ketone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-013 Gamma-Chlordane	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-014 Heptachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-015 Heptachlor Epoxide	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-016 Hexachlorobenzene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-017 Lindane (g-BHC)	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-018 Methoxychlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-019 p,p'-DDD	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-020 p,p'DDE	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-022 Procymidone	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-023 Propanil	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-024 Endosulfan I	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-025 Alachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-027 Atrazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-028 Bromacil	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-029 Carbofuran	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-030 Cyanazine	<0.005	mg/L	08/04/2020	Joanna Yang KTP
SVOC-031 d-BHC	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-033 Metolachlor	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-034 Metribuzin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-035 Molinate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-038 Pendimethalin	<0.002	mg/L	08/04/2020	Joanna Yang KTP
SVOC-039 Propazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-041 Simazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-043 Trifluralin	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-044 Hexazinone	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-046 Diazinon	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-047 Dimethoate	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-049 Acenapthene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-051 Anthracene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	08/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-18	Levin D6		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179238-0 Levin Landfill Sample

Test		Result	Units	Test Date	Signatory
SVOC-055	Benzo(g,h,i)perylene	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-057	Chrysene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-058	Dibenz(a,h)anthracene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-059	Fluoranthene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-060	Fluorene	< 0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-061	Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-062	Naphthalene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-063	Phenanthrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-064	Pyrene	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-066	2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
SVOC-072	Bis(2-ethylhexyl)adipate	<0.0001	mg/L	08/04/2020	Joanna Yang KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-003	Benzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-007	Naphthalene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-010	o-Xylene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-18	Levin D6		07/04/2020 00:00	08/04/2020 09:41	0

Notes: 179238-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	< 0.010	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-19	Levin G1S		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179239-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	6.9		02/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	< 5	g/m³	02/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	38.4	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	58	g CaCO3/m³	02/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	65.9	mS/m	02/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	99	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	02/04/2020	Marylou Cabral KTP
0602	Chloride	130	g/m³	03/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	0.06	g/m³	03/04/2020	Amit Kumar KTP
0607	Sulphate	33.8	g/m³	03/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.04	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	59	g CaCO3/m³	03/04/2020	Amit Kumar KTP
1810	Calcium - Dissolved	11.1	g/m³	03/04/2020	Amit Kumar KTP
1819	Iron - Dissolved	3.49	g/m³	03/04/2020	Amit Kumar KTP
1822	Magnesium - Dissolved	7.61	g/m³	03/04/2020	Amit Kumar KTP
1834	Sodium - Dissolved	94.2	g/m³	03/04/2020	Amit Kumar KTP
2088	Dissolved Reactive Phosphorus	0.038	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	0.137	g/m³	03/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.002	g/m³	03/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	< 0.03	g/m³	03/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	03/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	0.001	g/m³	03/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0086	g/m³	03/04/2020	Shanel Kumar KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-19	Levin G1S		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179239-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
6718	Lead - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0635	g/m³	03/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	0.0016	g/m³	03/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	5.93	g/m³	03/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	0.003	g/m³	03/04/2020	Shanel Kumar KTP
M0104	E. coli	16	cfu/100mL	02/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		03/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-022	Procymidone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-023	Propanil	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-024	Endosulfan I	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-025	Alachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-026	Aldicarb	<0.1	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-027	Atrazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-028	Bromacil	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-029	Carbofuran	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-030	Cyanazine	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-031	d-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-032	Metalaxyl-M	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-033	Metolachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-034	Metribuzin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-035	Molinate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-037	Oxadiazon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-038	Pendimethalin	<0.002	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-039	Propazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-040	Pyriproxyfen	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-041	Simazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-19	Levin G1S		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179239-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-042 Terbuthylazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-072 Bis(2-ethylhexyl)adipate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-003 Benzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-007 Naphthalene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-010 o-Xylene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-013 sec-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-014 Styrene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-015 tert-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-016 Toluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-017 Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	03/04/2020	Joanna Yang KTP
VOC-018 1,1,1,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-019 1,1,1-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-020 1,1,2,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-021 1,1,2-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-022 1,1-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-023 1,1-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-024 1,1-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-025 1,2,3-Trichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-026 1,2-Dibromo-3-chloropropane	<0.001	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-19	Levin G1S		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179239-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	03/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	03/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	03/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-20	Levin G2s		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179240-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.0		02/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	8	g/m³	02/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	15.6	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	427	g CaCO3/m³	02/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	190	mS/m	02/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	53	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	02/04/2020	Marylou Cabral KTP
0602	Chloride	323	g/m³	03/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	03/04/2020	Amit Kumar KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-20	Levin G2s		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179240-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0607	Sulphate	5.86	g/m³	03/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	0.02	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	304	g CaCO3/m³	03/04/2020	Amit Kumar KTP
1810	Calcium - Dissolved	61.0	g/m³	03/04/2020	Amit Kumar KTP
1819	Iron - Dissolved	0.032	g/m³	03/04/2020	Amit Kumar KTP
1822	Magnesium - Dissolved	36.8	g/m³	03/04/2020	Amit Kumar KTP
1834	Sodium - Dissolved	272	g/m³	03/04/2020	Amit Kumar KTP
2088	Dissolved Reactive Phosphorus	0.018	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	0.003	g/m³	03/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	< 0.001	g/m³	03/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	1.21	g/m³	03/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	03/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	03/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0010	g/m³	03/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.215	g/m³	03/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	0.0046	g/m³	03/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	25.5	g/m³	03/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	0.006	g/m³	03/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	02/04/2020	Juana Tamayo KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		03/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-022	Procymidone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-023	Propanil	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-024	Endosulfan I	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-025	Alachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-026	Aldicarb	<0.1	mg/L	03/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-20	Levin G2s		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179240-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-027 Atrazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-072 Bis(2-ethylhexyl)adipate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-003 Benzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-007 Naphthalene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-010 o-Xylene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-20	Levin G2s		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179240-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-013	sec-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	03/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	03/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	03/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	03/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-20	Levin G2s		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179240-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-065	Dibromochloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-21	Levin D5		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179241-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.4		02/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	< 5	g/m³	02/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	2.0	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	63	g CaCO3/m³	02/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	29.9	mS/m	02/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	< 15	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	02/04/2020	Marylou Cabral KTP
0602	Chloride	29.1	g/m³	03/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	1.18	g/m³	03/04/2020	Amit Kumar KTP
0607	Sulphate	21.0	g/m³	03/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	< 0.01	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	64	g CaCO3/m³	03/04/2020	Amit Kumar KTP
1810	Calcium - Dissolved	11.1	g/m³	03/04/2020	Amit Kumar KTP
1819	Iron - Dissolved	0.070	g/m³	03/04/2020	Amit Kumar KTP
1822	Magnesium - Dissolved	8.86	g/m³	03/04/2020	Amit Kumar KTP
1834	Sodium - Dissolved	32.5	g/m³	03/04/2020	Amit Kumar KTP
2088	Dissolved Reactive Phosphorus	0.096	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	< 0.002	g/m³	03/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.001	g/m³	03/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.04	g/m³	03/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	03/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	03/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0009	g/m³	03/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0193	g/m³	03/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	7.83	g/m³	03/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	03/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	02/04/2020	Juana Tamayo KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		03/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-21	Levin D5		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179241-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-013 Gamma-Chlordane	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-014 Heptachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-015 Heptachlor Epoxide	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-016 Hexachlorobenzene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-017 Lindane (g-BHC)	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-018 Methoxychlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-019 p,p'-DDD	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-020 p,p'DDE	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-022 Procymidone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-023 Propanil	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-024 Endosulfan I	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-025 Alachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-026 Aldicarb	<0.1	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-027 Atrazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-21	Levin D5		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179241-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-072	Bis(2-ethylhexyl)adipate	0.0006	mg/L	03/04/2020	Dr Alan Stanley KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-003	Benzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-007	Naphthalene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-010	o-Xylene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	03/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	03/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	03/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	03/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-21	Levin D5		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179241-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-22	Levin F1		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179242-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.6		02/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	< 5	g/m³	02/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	5.5	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	131	g CaCO3/m³	02/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	46.6	mS/m	02/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	16	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	02/04/2020	Marylou Cabral KTP
0602	Chloride	49.4	g/m³	03/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	1.01	g/m³	03/04/2020	Amit Kumar KTP
0607	Sulphate	5.24	g/m³	03/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	< 0.01	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	125	g CaCO3/m³	03/04/2020	Amit Kumar KTP
1810	Calcium - Dissolved	18.3	g/m³	03/04/2020	Amit Kumar KTP
1819	Iron - Dissolved	< 0.005	g/m³	03/04/2020	Amit Kumar KTP
1822	Magnesium - Dissolved	19.2	g/m³	03/04/2020	Amit Kumar KTP
1834	Sodium - Dissolved	42.9	g/m³	03/04/2020	Amit Kumar KTP
2088	Dissolved Reactive Phosphorus	0.172	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	< 0.002	g/m³	03/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.002	g/m³	03/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	345	g/m³	03/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	03/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	03/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0030	g/m³	03/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0044	g/m³	03/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	03/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	8.95	g/m³	03/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	03/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	02/04/2020	Juana Tamayo KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-22	Levin F1		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179242-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory by
P1859	Sample Filtration	Completed		03/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-022	Procymidone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-023	Propanil	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-024	Endosulfan I	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-025	Alachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-026	Aldicarb	<0.1	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-027	Atrazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-028	Bromacil	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-029	Carbofuran	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-030	Cyanazine	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-031	d-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-032	Metalaxyl-M	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-033	Metolachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-034	Metribuzin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-035	Molinate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-037	Oxadiazon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-038	Pendimethalin	<0.002	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-039	Propazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-040	Pyriproxyfen	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-041	Simazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-042	Terbuthylazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-043	Trifluralin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-044	Hexazinone	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-045	Chlorpyrifos	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-046	Diazinon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-047	Dimethoate	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-048	Pirimiphos methyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-049	Acenapthene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-050	Acenaphthylene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-051	Anthracene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-22	Levin F1		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179242-0 Levin Landfill Sample

Test		Result	Units	Test Date	Signatory
SVOC-052	benz(a)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-053	Benzo(a)pyrene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-054	Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-055	Benzo(g,h,i)perylene	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-057	Chrysene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-058	Dibenz(a,h)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-059	Fluoranthene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-060	Fluorene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-061	Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-062	Naphthalene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-063	Phenanthrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-064	Pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-066	2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-067	2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-072	Bis(2-ethylhexyl)adipate	0.0006	mg/L	03/04/2020	Dr Alan Stanley KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-003	Benzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-007	Naphthalene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-010	o-Xylene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	03/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	03/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-22	Levin F1		02/04/2020 00:00	02/04/2020 16:13	0

Notes: 179242-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-037	Chloromethane	<0.006	mg/L	03/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	03/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-23	Levin F2		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179243-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.2		03/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	< 6	g/m³	03/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	1.6	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	53	g CaCO3/m³	03/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	22.1	mS/m	03/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	< 15	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	03/04/2020	Marylou Cabral KTP
0602	Chloride	23.2	g/m³	04/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	0.33	g/m³	04/04/2020	Shanel Kumar KTP
0607	Sulphate	8.97	g/m³	04/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	< 0.01	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	37	g CaCO3/m³	04/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	6.01	g/m³	04/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	0.018	g/m³	04/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	5.41	g/m³	04/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	26.1	g/m³	04/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.148	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	0.002	g/m³	04/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.002	g/m³	04/04/2020	Shanel Kumar KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-23	Levin F2		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179243-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
6707	Boron - Dissolved	0.03	g/m³	04/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	04/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0013	g/m³	04/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0360	g/m³	04/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	5.45	g/m³	04/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	0.002	g/m³	04/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	03/04/2020	Juana Tamayo KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		04/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-022	Procymidone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-023	Propanil	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-024	Endosulfan I	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-025	Alachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-026	Aldicarb	<0.1	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-027	Atrazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-028	Bromacil	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-029	Carbofuran	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-030	Cyanazine	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-031	d-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-032	Metalaxyl-M	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-033	Metolachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-034	Metribuzin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-035	Molinate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-037	Oxadiazon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-23	Levin F2		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179243-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-038 Pendimethalin	<0.002	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-072 Bis(2-ethylhexyl)adipate	0.0003	mg/L	03/04/2020	Dr Alan Stanley KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-003 Benzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-007 Naphthalene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-008 n-Butylbenezene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-009 n-Propylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-010 o-Xylene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-011 p-Isopropyltoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-013 sec-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-014 Styrene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-015 tert-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-016 Toluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-017 Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	03/04/2020	Joanna Yang KTP
VOC-018 1,1,1,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-019 1,1,1-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-020 1,1,2,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-021 1,1,2-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-022 1,1-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-23	Levin F2		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179243-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	03/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	03/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	03/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-24	Levin F3		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179244-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.8		03/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	< 6	g/m³	03/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	1.3	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	53	g CaCO3/m³	03/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	19.2	mS/m	03/04/2020	Gordon McArthur KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-24	Levin F3		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179244-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0081	Chemical Oxygen Demand	< 15	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	03/04/2020	Marylou Cabral KTP
0602	Chloride	15.4	g/m³	04/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	1.11	g/m³	04/04/2020	Shanel Kumar KTP
0607	Sulphate	7.03	g/m³	04/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	< 0.01	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	34	g CaCO3/m³	04/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	5.18	g/m³	04/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	< 0.005	g/m³	04/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	5.08	g/m³	04/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	23.0	g/m³	04/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.143	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	< 0.002	g/m³	04/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.002	g/m³	04/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	< 0.03	g/m³	04/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	04/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	5.11	g/m³	04/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	04/04/2020	Shanel Kumar KTP
M0104	E. coli	< 4	cfu/100mL	03/04/2020	Juana Tamayo KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		04/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-022	Procymidone	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-24	Levin F3		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179244-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-023 Propanil	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-024 Endosulfan I	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-025 Alachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-026 Aldicarb	<0.1	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-027 Atrazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
SVOC-072 Bis(2-ethylhexyl)adipate	0.0001	mg/L	03/04/2020	Dr Alan Stanley KTP
VOC-001 1,2,4-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-002 1,3,5-Trimethylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-003 Benzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-007 Naphthalene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-24	Levin F3		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179244-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-008	n-Butylbenezene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-010	o-Xylene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-014	Styrene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-016	Toluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	03/04/2020	Joanna Yang KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-032	Allyl chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	03/04/2020	Joanna Yang KTP
VOC-034	Bromomethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-036	Chloroethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-037	Chloromethane	<0.006	mg/L	03/04/2020	Joanna Yang KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-040	Dibromomethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	03/04/2020	Joanna Yang KTP
VOC-042	Dichloromethane	<0.005	mg/L	03/04/2020	Joanna Yang KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	03/04/2020	Joanna Yang KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-047	Trichloroethene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-057	Bromobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-24	Levin F3		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179244-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-061	Carbon disulphide	<0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-063	Bromoform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-064	Chloroform	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	03/04/2020	Joanna Yang KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-27	Levin TD1		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179247-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.1		03/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	284	g/m³	03/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	23.8	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	151	g CaCO3/m³	03/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	55.7	mS/m	03/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	75	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 6	g/m³	03/04/2020	Marylou Cabral KTP
0602	Chloride	69.3	g/m³	04/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	< 0.01	g/m³	04/04/2020	Shanel Kumar KTP
0607	Sulphate	6.71	g/m³	04/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	4.61	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	115	g CaCO3/m³	04/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	21.1	g/m³	04/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	1.26	g/m³	04/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	15.0	g/m³	04/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	51.3	g/m³	04/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.024	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	0.009	g/m³	04/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.001	g/m³	04/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.18	g/m³	04/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	04/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.200	g/m³	04/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	0.0009	g/m³	04/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	15.5	g/m³	04/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	04/04/2020	Shanel Kumar KTP
M0104	E. coli	140	cfu/100mL	03/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	6 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		04/04/2020	Robyn Madge .

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-28	Levin Leachate Pond		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179249-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.9		08/04/2020	Marylou Cabral KTP
0002	Suspended Solids - Total	35	g/m³	08/04/2020	Jennifer Mont KTP
0040	Total (NP) Organic Carbon	804	g/m³	09/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	6,750	g CaCO3/m³	09/04/2020	Gordon McArthur KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-28	Levin Leachate Pond		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179249-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0055	Conductivity at 25°C	1,610	mS/m	08/04/2020	Marylou Cabral KTP
0081	Chemical Oxygen Demand	2,330	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	98	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	1,210	g/m³	08/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	0.25	g/m³	08/04/2020	Amit Kumar KTP
0607	Sulphate	54.8	g/m³	08/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	1,450	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	522	g CaCO3/m³	09/04/2020	Amit Kumar KTP
1810	Calcium - Dissolved	106	g/m³	09/04/2020	Amit Kumar KTP
1819	Iron - Dissolved	5.25	g/m³	09/04/2020	Amit Kumar KTP
1822	Magnesium - Dissolved	62.3	g/m³	09/04/2020	Amit Kumar KTP
1834	Sodium - Dissolved	993	g/m³	09/04/2020	Amit Kumar KTP
2088	Dissolved Reactive Phosphorus	13.0	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.586	g/m³	08/04/2020	Sharon van Soest KTP
6703	Arsenic - Dissolved	0.388	g/m³	08/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	5.69	g/m³	08/04/2020	Sharon van Soest KTP
6708	Cadmium - Dissolved	< 0.0020	g/m³	08/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	0.709	g/m³	08/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	0.0073	g/m³	08/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0050	g/m³	08/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	1.04	g/m³	08/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0050	g/m³	08/04/2020	Sharon van Soest KTP
6724	Nickel - Dissolved	0.125	g/m³	08/04/2020	Sharon van Soest KTP
6726	Potassium - Dissolved	648	g/m³	08/04/2020	Sharon van Soest KTP
6738	Zinc - Dissolved	0.068	g/m³	08/04/2020	Sharon van Soest KTP
M0104	E. coli	24	cfu/100mL	07/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.50	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		08/04/2020	Freddie Badraun .
SVOC-001	2,3-Diuron	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-013	Gamma-Chlordane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-014	Heptachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-015	Heptachlor Epoxide	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-016	Hexachlorobenzene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-017	Lindane (g-BHC)	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-018	Methoxychlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-019	p,p'-DDD	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-020	p,p'DDE	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-021	p,p'-DDT	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-28	Levin Leachate Pond		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179249-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-022 Procymidone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-023 Propanil	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-024 Endosulfan I	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-025 Alachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-027 Atrazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	0.030	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	0.0004	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	0.0005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	0.0025	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-068 2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-069 2,4-Dichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-070 2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-072 Bis(2-ethylhexyl)adipate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-001 1,2,4-Trimethylbenzene	< 0.0020	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-002 1,3,5-Trimethylbenzene	< 0.0020	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-003 Benzene	0.0025	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-005 Isopropylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-007 Naphthalene	0.0030	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-28	Levin Leachate Pond		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179249-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-010	o-Xylene	0.0144	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-014	Styrene	0.0098	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-015	tert-Butylbenzene	< 0.0010	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-016	Toluene	0.0052	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-017	Total p,m Xylene, Ethylbenzene	0.0154	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	<0.005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	0.0018	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-28	Levin Leachate Pond		01/04/2020 00:00	07/04/2020 14:28	0

Notes: 179249-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-29	Levin HS1		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179250-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.7		03/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	39	g/m³	03/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	7.9	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	61	g CaCO3/m³	03/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	26.4	mS/m	03/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	28	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	03/04/2020	Marylou Cabral KTP
0602	Chloride	26.6	g/m³	04/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	0.04	g/m³	04/04/2020	Shanel Kumar KTP
0607	Sulphate	17.9	g/m³	04/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	0.05	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	71	g CaCO3/m³	04/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	15.1	g/m³	04/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	0.011	g/m³	04/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	8.03	g/m³	04/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	23.3	g/m³	04/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.019	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	0.008	g/m³	04/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.07	g/m³	04/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	04/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0009	g/m³	04/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0339	g/m³	04/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	3.51	g/m³	04/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	04/04/2020	Shanel Kumar KTP
M0104	E. coli	830	cfu/100mL	03/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		04/04/2020	Robyn Madge .

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-30	Levin HS3		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179252-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.6		03/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	21	g/m³	03/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	7.8	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	65	g CaCO3/m³	03/04/2020	Gordon McArthur KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-30	Levin HS3		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179252-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0055	Conductivity at 25°C	27.8	mS/m	03/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	23	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	03/04/2020	Marylou Cabral KTP
0602	Chloride	28.3	g/m³	04/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	0.09	g/m³	04/04/2020	Shanel Kumar KTP
0607	Sulphate	17.5	g/m³	04/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	0.09	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	73	g CaCO3/m³	04/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	15.8	g/m³	04/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	0.021	g/m³	04/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	8.20	g/m³	04/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	23.8	g/m³	04/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.024	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	0.005	g/m³	04/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.07	g/m³	04/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	04/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0030	g/m³	04/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0406	g/m³	04/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	3.64	g/m³	04/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	04/04/2020	Shanel Kumar KTP
M0104	E. coli	410	cfu/100mL	03/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		04/04/2020	Robyn Madge .

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-31	Levin HS2		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179254-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.7		03/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	24	g/m³	03/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	7.6	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	65	g CaCO3/m³	03/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	27.9	mS/m	03/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	21	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	03/04/2020	Marylou Cabral KTP
0602	Chloride	28.0	g/m³	04/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	0.08	g/m³	04/04/2020	Shanel Kumar KTP
0607	Sulphate	17.3	g/m³	04/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	0.14	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	74	g CaCO3/m³	04/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	15.9	g/m³	04/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	0.010	g/m³	04/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	8.35	g/m³	04/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	24.3	g/m³	04/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.020	g/m³	04/04/2020	Divina Lagazon KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-31	Levin HS2		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179254-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
6701	Aluminium - Dissolved	0.007	g/m³	04/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.07	g/m³	04/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	04/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0016	g/m³	04/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0420	g/m³	04/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	3.62	g/m³	04/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	04/04/2020	Shanel Kumar KTP
M0104	E. coli	790	cfu/100mL	03/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		04/04/2020	Robyn Madge .

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-32	Levin HS1A		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179256-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.8		03/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	23	g/m³	03/04/2020	Gordon McArthur KTP
0040	Total (NP) Organic Carbon	8.1	g/m³	04/04/2020	Amit Kumar KTP
0052	Alkalinity - Total	61	g CaCO3/m³	03/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	26.2	mS/m	03/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	24	g/m³	03/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 1	g/m³	03/04/2020	Marylou Cabral KTP
0602	Chloride	26.6	g/m³	04/04/2020	Shanel Kumar KTP
0605	Nitrate - Nitrogen	0.04	g/m³	04/04/2020	Shanel Kumar KTP
0607	Sulphate	18.1	g/m³	04/04/2020	Shanel Kumar KTP
0760	Ammonia Nitrogen	0.03	g/m³	04/04/2020	Divina Lagazon KTP
1642	Total Hardness	69	g CaCO3/m³	04/04/2020	Shanel Kumar KTP
1810	Calcium - Dissolved	14.7	g/m³	04/04/2020	Shanel Kumar KTP
1819	Iron - Dissolved	0.019	g/m³	04/04/2020	Shanel Kumar KTP
1822	Magnesium - Dissolved	7.85	g/m³	04/04/2020	Shanel Kumar KTP
1834	Sodium - Dissolved	22.6	g/m³	04/04/2020	Shanel Kumar KTP
2088	Dissolved Reactive Phosphorus	0.018	g/m³	04/04/2020	Divina Lagazon KTP
6701	Aluminium - Dissolved	0.011	g/m³	04/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6707	Boron - Dissolved	0.06	g/m³	04/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	04/04/2020	Shanel Kumar KTP
6711	Chromium - Dissolved	< 0.001	g/m³	04/04/2020	Shanel Kumar KTP
6713	Copper - Dissolved	0.0008	g/m³	04/04/2020	Shanel Kumar KTP
6718	Lead - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6721	Manganese - Dissolved	0.0385	g/m³	04/04/2020	Shanel Kumar KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	< 0.0005	g/m³	04/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	3.27	g/m³	04/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	< 0.002	g/m³	04/04/2020	Shanel Kumar KTP
M0104	E. coli	320	cfu/100mL	03/04/2020	Yuemei Yu KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/17363-32	Levin HS1A		03/04/2020 00:00	03/04/2020 14:32	0

Notes: 179256-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Prashilla Singh Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Prashilla Singh Transcribed by
P1859	Sample Filtration	Completed		04/04/2020	Robyn Madge .

Comments:

* Not an accredited test.

Sampled by customer using ELS approved containers.

Test Methodology:

Test	Methodology	Detection Limit
pH	Dedicated pH meter following APHA Online Edition Method 4500 H.	0.1
Suspended Solids - Total	APHA Online Edition Method 2540 D	3 g/m³
Total (NP) Organic Carbon	Total Non-Purgeable Organic Carbon using TOC analyser. APHA Online Edition 5310 B.	0.1 g/m³
Alkalinity - Total	APHA Online Edition Method 2320 B	1 g CaCO3/m³
Conductivity at 25°C	APHA Online Edition Method 2510 B.	0.1 mS/m
Chemical Oxygen Demand	APHA Online Edition Method 5220 D.	15 g/m³
BOD5 - Soluble Carbonaceous	APHA Online Edition Method 5210 B. The sample is filtered through Whatman GFC and treated with nitrification inhibitor.	1 g/m³
Chloride	Ion Chromatography following APHA 4110B.	0.02 g/m³
Nitrate - Nitrogen	Ion Chromatography following APHA 4110B.	0.01 g/m³
Sulphate	Ion Chromatography following APHA 4110B.	0.02 g/m³
Ammonia Nitrogen	Flow Injection Autoanalyser following APHA Online Edition Method 4500 NH3-H.	0.01 g/m³
Total Hardness	ICP-OES following APHA Online Edition Method 3120 B (modified).	1 g CaCO3/m³
Calcium - Dissolved	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.01 g/m³
Iron - Dissolved	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.005 g/m³
Magnesium - Dissolved	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.01 g/m³
Sodium - Dissolved	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.02 g/m³
Dissolved Reactive Phosphorus	Flow Injection Autoanalyser following APHA Online Edition Method 4500-P G.	0.005 g/m³
Aluminium - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m³
Arsenic - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m³
Boron - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.03 g/m³
Cadmium - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0002 g/m³
Chromium - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m³
Copper - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Lead - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Manganese - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Mercury - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Nickel - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Potassium - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified)	0.01 g/m³
Zinc - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m³
E. coli	APHA 9222I:Online Edition	1 cfu/100mL
Volatile Fatty Acids	Performed by Eurofins Melbourne following APHA 22nd Edition Method 5560C. Results are reported as acetic acid equivalent.	5 g/m³
Total Halogenated Phenolics	Analyses at Eurofins Melbourne following Method USEPA 8270 Phenols.	0.01 g/m³
Sample Filtration	Sample filtered through 0.45 micron filter following APHA Online Edition Method 3030B.	n/a
2,3-Diuron	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
a-BHC	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L

Test	Methodology	Detection Limit
a-chlordane	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Aldrin	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
b-BHC	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
cis-Permethrin	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Dieldrin	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Endosulfan II	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.005 mg/L
Endosulfan Sulfate	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Endrin	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Endrin Aldehyde	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Endrin Ketone	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Gamma-Chlordane	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Heptachlor	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Heptachlor Epoxide	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Hexachlorobenzene	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Lindane (g-BHC)	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Methoxychlor	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
p,p'-DDD	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
p,p'DDE	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
p,p'-DDT	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Procymidone	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Propanil	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Endosulfan I	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Alachlor	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Aldicarb	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.1 mg/L
Atrazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Bromacil	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.005 mg/L
Carbofuran	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Cyanazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.005 mg/L
d-BHC	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Metalaxyl-M	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Metolachlor	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Metribuzin	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Molinate	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Oxadiazon	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Pendimethalin	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.002 mg/L
Propazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Pyriproxyfen	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Simazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Terbuthylazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Trifluralin	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Hexazinone	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Chlorpyrifos	Organophosphorous Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Diazinon	Organophosphorous Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Dimethoate	Organophosphorous Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Pirimiphos methyl	Organophosphorous Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Acenapthene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Acenaphthylene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.001 mg/L
Anthracene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.001 mg/L
benz(a)anthracene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Benzo(a)pyrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Total Benzo(b) and Benzo(k) fluoranthrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.001 mg/L

Test	Methodology	Detection Limit
Benzo(g,h,i)perylene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.001 mg/L
Chrysene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Dibenz(a,h)anthracene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Fluoranthene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Fluorene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Indeno(1,2,3-cd)pyrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Naphthalene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Phenanthrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Pyrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
2,2',3,4,4',5'-Hexachlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 138.	0.001 mg/L
2,2',4,5,5'-Pentachlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 101.	0.0001 mg/L
2,4,4'-Trichlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 28.	0.0001 mg/L
2,4-Dichlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 7.	0.0001 mg/L
2,2',3,4,4',5',6-Heptachlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 183.	0.0001 mg/L
Bis(2-ethylhexyl)adipate	Phthalate Plasticiser compound analysed by in-house method using GC-MS	0.0001 mg/L
1,2,4-Trimethylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,3,5-Trimethylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Benzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Isopropylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Naphthalene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
n-Butylbenezene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
n-Propylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
o-Xylene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
p-Isopropyltoluene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
sec-Butylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Styrene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
tert-Butylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Toluene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Total p,m Xylene, Ethylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0015 mg/L
1,1,1,2-Tetrachloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1,1-Trichloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1,2,2-Tetrachloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1,2-Trichloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1-Dichloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1-Dichloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1-Dichloropropene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2,3-Trichloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2-Dibromo-3-chloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.001 mg/L
1,2-Dibromoethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0002 mg/L
1,2-Dichloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2-Dichloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on	0.0005 mg/L

Test	Methodology	Detection Limit
	USEPA Method 8260.	
1,3-Dichloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
2,2-Dichloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Allyl chloride	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Bromochloromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0012 mg/L
Bromomethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.001 mg/L
Carbon tetrachloride	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260. Also known as Tetrachloromethane.	0.0005 mg/L
Chloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.001 mg/L
Chloromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.006 mg/L
cis-1,2-Dichloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
cis-1,3-Dichloropropene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Dibromomethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Dichlorodifluoromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.001 mg/L
Dichloromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.005 mg/L
Hexachlorobutadiene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0002 mg/L
Tetrachloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
trans-1,2-Dichloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
trans-1,3-Dichloropropene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Trichloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Trichlorofluoromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Vinyl Chloride	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2,3-Trichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2,4-Trichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2-Dichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,3-Dichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,4-Dichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
2-Chlorotoluene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L

Test	Methodology	Detection Limit
4-Chlorotoluene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Bromobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Chlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,3,5-Trichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
4-Methyl-2-Pentanone	VOC Other Volatile Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Carbon disulphide	VOC Other Volatile Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Bromodichloromethane	VOC Trihalomethane analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Bromoform	VOC Trihalomethane analysed by GCMS following an in house method based on USEPA Method 8260. Also known as Tribromomethane.	0.0005 mg/L
Chloroform	VOC Trihalomethane analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Dibromochloromethane	VOC Trihalomethane analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L

Unless otherwise stated, all tests are performed in Wellington.

The laboratory is not responsible for the information provided by the customer which can affect the validity of the results.

"<" means that no analyte was found in the sample at the level of detection shown. Detection limits are based on a clean matrix and may vary according to individual sample.

g/m3 is the equivalent to mg/L and ppm.

Samples will be retained for a period of time, in suitable conditions appropriate to the analyses requested.

Report Released By
Rob Deacon

This laboratory is accredited by International Accreditation New Zealand and its reports are recognised in all countries affiliated to the International Laboratory Accreditation Co-operation Mutual Recognition Arrangement (ILAC-MRA). The tests reported have been performed in accordance with our terms of accreditation, with the exception of tests marked "not IANZ", which are outside the scope of this laboratory's accreditation.

eurofins | ELS

Eurofins ELS Limited

Analytical Report

Downer EDI Levin - Landfill
P O Box 642
LEVIN 5540
Attention: Bruce Marshall

Report Number: 20/19100
Issue: 1
21 April 2020

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/19100-01	Levin C2		08/04/2020 00:00	08/04/2020 14:34	0

Notes: 180570-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
0001	pH	7.2		08/04/2020	Gordon McArthur KTP
0002	Suspended Solids - Total	516	g/m³	08/04/2020	Marylou Cabral KTP
0040	Total (NP) Organic Carbon	45.6	g/m³	10/04/2020	Sharon van Soest KTP
0052	Alkalinity - Total	818	g CaCO3/m³	08/04/2020	Gordon McArthur KTP
0055	Conductivity at 25°C	346	mS/m	08/04/2020	Gordon McArthur KTP
0081	Chemical Oxygen Demand	127	g/m³	09/04/2020	Gordon McArthur KTP
0180	BOD5 - Soluble Carbonaceous	< 6	g/m³	09/04/2020	Marylou Cabral KTP
0602	Chloride	492	g/m³	09/04/2020	Amit Kumar KTP
0605	Nitrate - Nitrogen	0.08	g/m³	09/04/2020	Amit Kumar KTP
0607	Sulphate	42.3	g/m³	09/04/2020	Amit Kumar KTP
0760	Ammonia Nitrogen	169	g/m³	11/04/2020	Athena Cao
1642	Total Hardness	277	g CaCO3/m³	11/04/2020	Shuyu Zhao KTP
1810	Calcium - Dissolved	54.7	g/m³	11/04/2020	Shuyu Zhao KTP
1819	Iron - Dissolved	0.158	g/m³	11/04/2020	Shuyu Zhao KTP
1822	Magnesium - Dissolved	34.0	g/m³	11/04/2020	Shuyu Zhao KTP
1834	Sodium - Dissolved	291	g/m³	11/04/2020	Shuyu Zhao KTP
2088	Dissolved Reactive Phosphorus	0.013	g/m³	11/04/2020	Athena Cao
6701	Aluminium - Dissolved	0.041	g/m³	14/04/2020	Shanel Kumar KTP
6703	Arsenic - Dissolved	0.002	g/m³	09/04/2020	Sharon van Soest KTP
6707	Boron - Dissolved	2.24	g/m³	14/04/2020	Shanel Kumar KTP
6708	Cadmium - Dissolved	< 0.0002	g/m³	09/04/2020	Sharon van Soest KTP
6711	Chromium - Dissolved	0.002	g/m³	09/04/2020	Sharon van Soest KTP
6713	Copper - Dissolved	0.0017	g/m³	09/04/2020	Sharon van Soest KTP
6718	Lead - Dissolved	< 0.0005	g/m³	09/04/2020	Sharon van Soest KTP
6721	Manganese - Dissolved	0.0650	g/m³	09/04/2020	Sharon van Soest KTP
6722	Mercury - Dissolved	< 0.0005	g/m³	14/04/2020	Shanel Kumar KTP
6724	Nickel - Dissolved	0.0017	g/m³	14/04/2020	Shanel Kumar KTP
6726	Potassium - Dissolved	91.5	g/m³	14/04/2020	Shanel Kumar KTP
6738	Zinc - Dissolved	0.009	g/m³	09/04/2020	Sharon van Soest KTP
M0104	E. coli	< 4	cfu/100mL	08/04/2020	Yuemei Yu KTP
MO-5001	Volatile Fatty Acids	< 5 *	g/m³		Lizzie Addis Transcribed by
MO-5002	Total Halogenated Phenolics	< 0.05	g/m³		Lizzie Addis Transcribed by
P1859	Sample Filtration	Completed		09/04/2020	Robyn Madge .
SVOC-001	2,3-Diuron	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-002	a-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-003	a-chlordane	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-004	Aldrin	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-005	b-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-006	cis-Permethrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-007	Dieldrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-008	Endosulfan II	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-009	Endosulfan Sulfate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-010	Endrin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-011	Endrin Aldehyde	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-012	Endrin Ketone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/19100-01	Levin C2		08/04/2020 00:00	08/04/2020 14:34	0

Notes: 180570-0 Levin Landfill Sample

Test	Result	Units	Test Date	Signatory
SVOC-013 Gamma-Chlordane	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-014 Heptachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-015 Heptachlor Epoxide	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-016 Hexachlorobenzene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-017 Lindane (g-BHC)	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-018 Methoxychlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-019 p,p'-DDD	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-020 p,p'DDE	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-021 p,p'-DDT	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-022 Procymidone	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-023 Propanil	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-024 Endosulfan I	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-025 Alachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-027 Atrazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-028 Bromacil	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-029 Carbofuran	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-030 Cyanazine	<0.005	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-031 d-BHC	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-032 Metalaxyl-M	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-033 Metolachlor	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-034 Metribuzin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-035 Molinate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-037 Oxadiazon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-038 Pendimethalin	<0.002	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-039 Propazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-040 Pyriproxyfen	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-041 Simazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-042 Terbuthylazine	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-043 Trifluralin	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-044 Hexazinone	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-045 Chlorpyrifos	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-046 Diazinon	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-047 Dimethoate	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-048 Pirimiphos methyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-049 Acenapthene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-050 Acenaphthylene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-051 Anthracene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-052 benz(a)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-053 Benzo(a)pyrene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-054 Total Benzo(b) and Benzo(k) fluoranthrene	< 0.0010	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-055 Benzo(g,h,i)perylene	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-057 Chrysene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-058 Dibenz(a,h)anthracene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-059 Fluoranthene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-060 Fluorene	< 0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-061 Indeno(1,2,3-cd)pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-062 Naphthalene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-063 Phenanthrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-064 Pyrene	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-066 2,2',3,4,4',5'-Hexachlorobiphenyl	<0.001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-067 2,2',4,5,5'-Pentachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/19100-01	Levin C2		08/04/2020 00:00	08/04/2020 14:34	0

Notes: 180570-0 Levin Landfill Sample

Test		Result	Units	Test Date	Signatory
SVOC-068	2,4,4'-Trichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-069	2,4-Dichlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-070	2,2',3,4,4',5',6-Heptachlorobiphenyl	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
SVOC-072	Bis(2-ethylhexyl)adipate	<0.0001	mg/L	09/04/2020	Dr Alan Stanley KTP
VOC-001	1,2,4-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-002	1,3,5-Trimethylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-003	Benzene	0.0011	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-005	Isopropylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-007	Naphthalene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-008	n-Butylbenezene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-009	n-Propylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-010	o-Xylene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-011	p-Isopropyltoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-013	sec-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-014	Styrene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-015	tert-Butylbenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-016	Toluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-017	Total p,m Xylene, Ethylbenzene	<0.0015	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-018	1,1,1,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-019	1,1,1-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-020	1,1,2,2-Tetrachloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-021	1,1,2-Trichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-022	1,1-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-023	1,1-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-024	1,1-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-025	1,2,3-Trichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-026	1,2-Dibromo-3-chloropropane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-027	1,2-Dibromoethane	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-028	1,2-Dichloroethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-029	1,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-030	1,3-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-031	2,2-Dichloropropane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-032	Allyl chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-033	Bromochloromethane	<0.0012	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-034	Bromomethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-035	Carbon tetrachloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-036	Chloroethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-037	Chloromethane	<0.006	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-038	cis-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-039	cis-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-040	Dibromomethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-041	Dichlorodifluoromethane	<0.001	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-042	Dichloromethane	<0.005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-043	Hexachlorobutadiene	<0.0002	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-044	Tetrachloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-045	trans-1,2-Dichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-046	trans-1,3-Dichloropropene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-047	Trichloroethene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-048	Trichlorofluoromethane	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-049	Vinyl Chloride	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-050	1,2,3-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-051	1,2,4-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Sample	Site	Map Ref.	Date Sampled	Date Received	Order No.
20/19100-01	Levin C2		08/04/2020 00:00	08/04/2020 14:34	0

Notes: 180570-0 Levin Landfill Sample

	Test	Result	Units	Test Date	Signatory
VOC-052	1,2-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-053	1,3-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-054	1,4-Dichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-055	2-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-056	4-Chlorotoluene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-057	Bromobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-058	Chlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-059	1,3,5-Trichlorobenzene	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-060	4-Methyl-2-Pentanone	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-061	Carbon disulphide	<0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-062	Bromodichloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-063	Bromoform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-064	Chloroform	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP
VOC-065	Dibromochloromethane	< 0.0005	mg/L	08/04/2020	Dr Alan Stanley KTP

Comments:

* Not an accredited test.

Sampled by customer using ELS approved containers.

Test Methodology:

Test	Methodology	Detection Limit
pH	Dedicated pH meter following APHA Online Edition Method 4500 H.	0.1
Suspended Solids - Total	APHA Online Edition Method 2540 D	3 g/m³
Total (NP) Organic Carbon	Total Non-Purgeable Organic Carbon using TOC analyser. APHA Online Edition 5310 B.	0.1 g/m³
Alkalinity - Total	APHA Online Edition Method 2320 B	1 g CaCO3/m³
Conductivity at 25°C	APHA Online Edition Method 2510 B.	0.1 mS/m
Chemical Oxygen Demand	APHA Online Edition Method 5220 D.	15 g/m³
BOD5 - Soluble Carbonaceous	APHA Online Edition Method 5210 B. The sample is filtered through Whatman GFC and treated with nitrification inhibitor.	1 g/m³
Chloride	Ion Chromatography following APHA 4110B.	0.02 g/m³
Nitrate - Nitrogen	Ion Chromatography following APHA 4110B.	0.01 g/m³
Sulphate	Ion Chromatography following APHA 4110B.	0.02 g/m³
Ammonia Nitrogen	Flow Injection Autoanalyser following APHA Online Edition Method 4500 NH3-H.	0.01 g/m³
Total Hardness	ICP-OES following APHA Online Edition Method 3120 B (modified).	1 g CaCO3/m³
Calcium - Dissolved	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.01 g/m³
Iron - Dissolved	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.005 g/m³
Magnesium - Dissolved	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.01 g/m³
Sodium - Dissolved	ICP-OES following APHA Online Edition Method 3120 B (modified).	0.02 g/m³
Dissolved Reactive Phosphorus	Flow Injection Autoanalyser following APHA Online Edition Method 4500-P G.	0.005 g/m³
Aluminium - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m³
Arsenic - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m³
Boron - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.03 g/m³
Cadmium - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0002 g/m³
Chromium - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.001 g/m³
Copper - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Lead - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Manganese - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Mercury - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³
Nickel - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.0005 g/m³

Test	Methodology	Detection Limit
Potassium - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified)	0.01 g/m³
Zinc - Dissolved	ICP-MS following APHA Online Edition method 3125 (modified).	0.002 g/m³
E. coli	APHA 9222I:Online Edition	1 cfu/100mL
Volatile Fatty Acids	Performed by Eurofins Melbourne following APHA 22nd Edition Method 5560C. Results are reported as acetic acid equivalent.	5 g/m³
Total Halogenated Phenolics	Analyses at Eurofins Melbourne following Method USEPA 8270 Phenols.	0.01 g/m³
Sample Filtration	Sample filtered through 0.45 micron filter following APHA Online Edition Method 3030B.	n/a
2,3-Diuron	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
a-BHC	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
a-chlordane	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Aldrin	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
b-BHC	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
cis-Permethrin	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Dieldrin	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Endosulfan II	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.005 mg/L
Endosulfan Sulfate	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Endrin	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Endrin Aldehyde	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Endrin Ketone	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Gamma-Chlordane	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Heptachlor	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Heptachlor Epoxide	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Hexachlorobenzene	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Lindane (g-BHC)	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Methoxychlor	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
p,p'-DDD	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
p,p'DDE	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
p,p'-DDT	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Procymidone	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Propanil	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Endosulfan I	Organochlorine Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Alachlor	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Aldicarb	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.1 mg/L
Atrazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Bromacil	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.005 mg/L
Carbofuran	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Cyanazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.005 mg/L
d-BHC	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Metalaxyl-M	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Metolachlor	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Metribuzin	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Molinate	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Oxadiazon	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Pendimethalin	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.002 mg/L
Propazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Pyriproxyfen	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Simazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Terbuthylazine	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Trifluralin	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Hexazinone	Organonitrogen Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Chlorpyrifos	Organophosphorous Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Diazinon	Organophosphorous Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L

Test	Methodology	Detection Limit
Dimethoate	Organophosphorous Pesticide compound analysed by in-house method using GC-MS	0.001 mg/L
Pirimiphos methyl	Organophosphorous Pesticide compound analysed by in-house method using GC-MS	0.0001 mg/L
Acenapthene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Acenaphthylene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.001 mg/L
Anthracene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.001 mg/L
benz(a)anthracene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Benzo(a)pyrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Total Benzo(b) and Benzo(k) fluoranthrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.001 mg/L
Benzo(g,h,i)perylene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.001 mg/L
Chrysene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Dibenz(a,h)anthracene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Fluoranthene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Fluorene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Indeno(1,2,3-cd)pyrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Naphthalene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Phenanthrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
Pyrene	Polyaromatic Hydrocarbon compound analysed by in-house method using GC-MS	0.0001 mg/L
2,2',3,4,4',5'-Hexachlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 138.	0.001 mg/L
2,2',4,5,5'-Pentachlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 101.	0.0001 mg/L
2,4,4'-Trichlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 28.	0.0001 mg/L
2,4-Dichlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 7.	0.0001 mg/L
2,2',3,4,4',5',6-Heptachlorobiphenyl	Polychlorinated biphenyl compound analysed by in-house method using GC-MS. Also known as PCB 183.	0.0001 mg/L
Bis(2-ethylhexyl)adipate	Phthalate Plasticiser compound analysed by in-house method using GC-MS	0.0001 mg/L
1,2,4-Trimethylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,3,5-Trimethylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Benzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Isopropylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Naphthalene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
n-Butylbenezene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
n-Propylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
o-Xylene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
p-Isopropyltoluene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
sec-Butylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Styrene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
tert-Butylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Toluene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Total p,m Xylene, Ethylbenzene	VOC Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0015 mg/L
1,1,1,2-Tetrachloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1,1-Trichloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1,2,2-Tetrachloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1,2-Trichloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1-Dichloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1-Dichloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,1-Dichloropropene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2,3-Trichloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on	0.0005 mg/L

Test	Methodology	Detection Limit
	USEPA Method 8260.	
1,2-Dibromo-3-chloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.001 mg/L
1,2-Dibromoethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0002 mg/L
1,2-Dichloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2-Dichloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,3-Dichloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
2,2-Dichloropropane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Allyl chloride	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Bromochloromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0012 mg/L
Bromomethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.001 mg/L
Carbon tetrachloride	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260. Also known as Tetrachloromethane.	0.0005 mg/L
Chloroethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.001 mg/L
Chloromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.006 mg/L
cis-1,2-Dichloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
cis-1,3-Dichloropropene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Dibromomethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Dichlorodifluoromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.001 mg/L
Dichloromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.005 mg/L
Hexachlorobutadiene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0002 mg/L
Tetrachloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
trans-1,2-Dichloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
trans-1,3-Dichloropropene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Trichloroethene	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Trichlorofluoromethane	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Vinyl Chloride	VOC Halogenated Alkanes and Alkenes Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2,3-Trichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,2,4-Trichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L

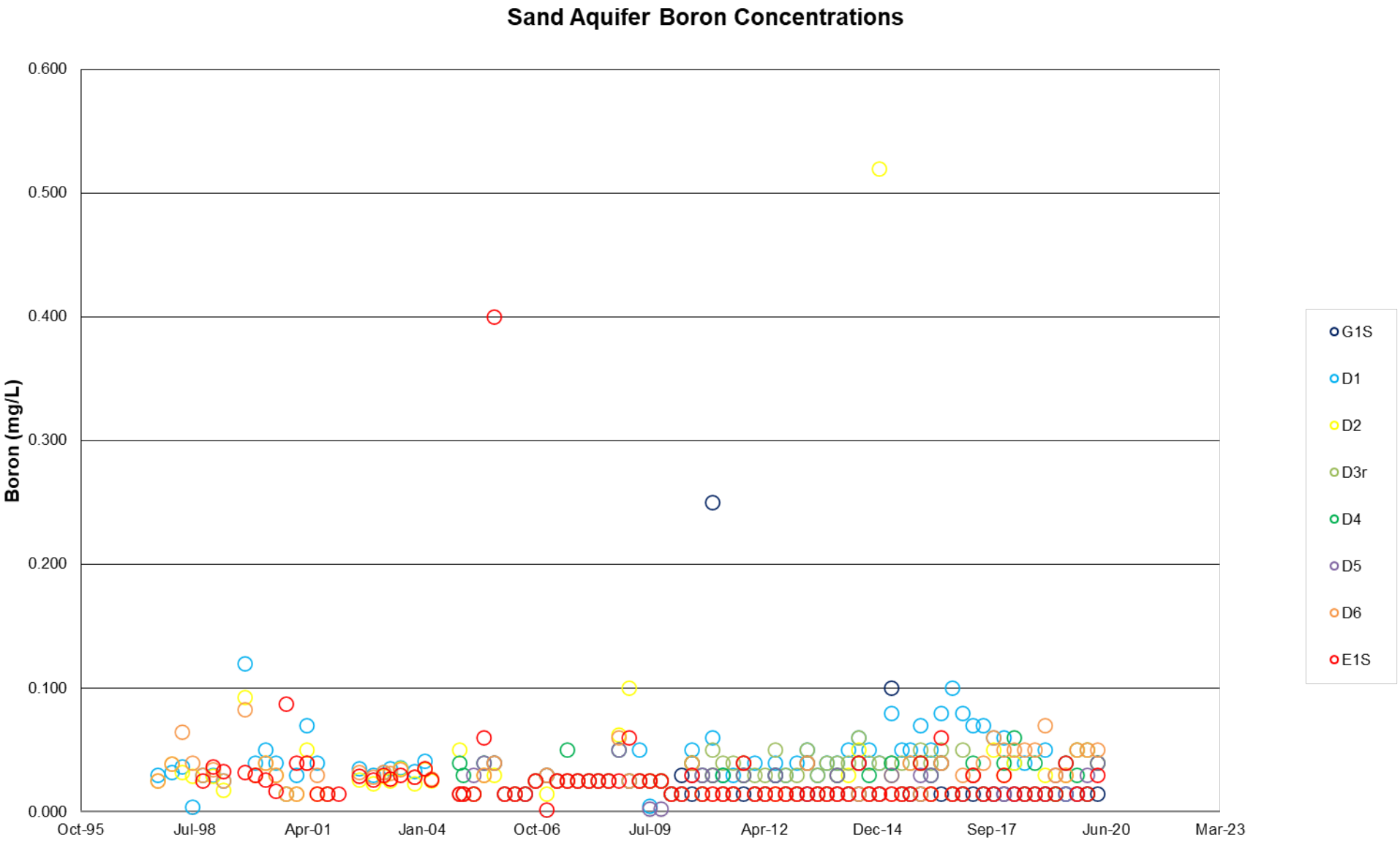
Test	Methodology	Detection Limit
1,2-Dichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,3-Dichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,4-Dichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
2-Chlorotoluene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
4-Chlorotoluene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Bromobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Chlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
1,3,5-Trichlorobenzene	VOC Halogenated Aromatic Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
4-Methyl-2-Pentanone	VOC Other Volatile Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Carbon disulphide	VOC Other Volatile Compound analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Bromodichloromethane	VOC Trihalomethane analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Bromoform	VOC Trihalomethane analysed by GCMS following an in house method based on USEPA Method 8260. Also known as Tribromomethane.	0.0005 mg/L
Chloroform	VOC Trihalomethane analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L
Dibromochloromethane	VOC Trihalomethane analysed by GCMS following an in house method based on USEPA Method 8260.	0.0005 mg/L

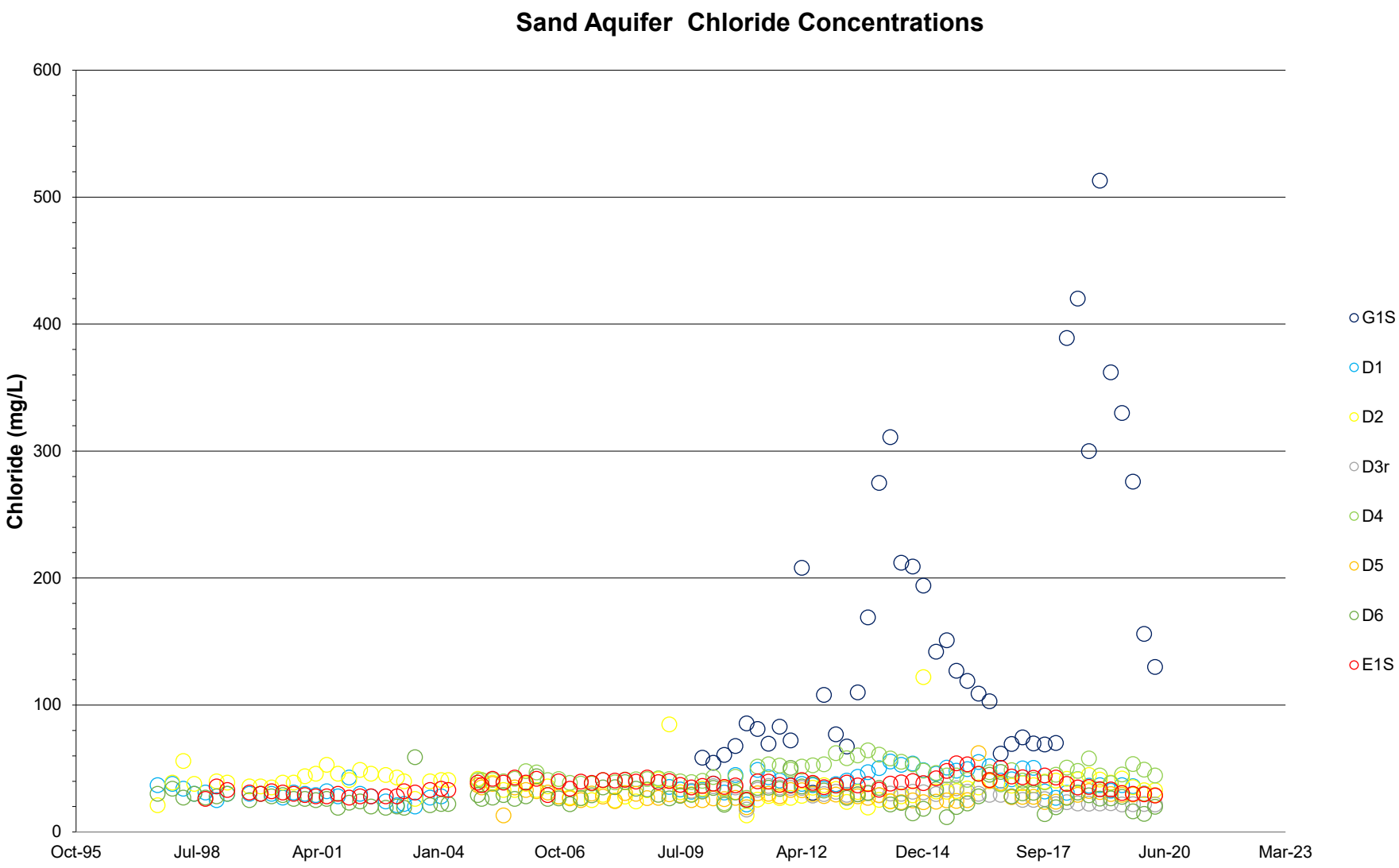
Unless otherwise stated, all tests are performed in Wellington.
The laboratory is not responsible for the information provided by the customer which can affect the validity of the results.
"<" means that no analyte was found in the sample at the level of detection shown. Detection limits are based on a clean matrix and may vary according to individual sample.
g/m3 is the equivalent to mg/L and ppm.
Samples will be retained for a period of time, in suitable conditions appropriate to the analyses requested.

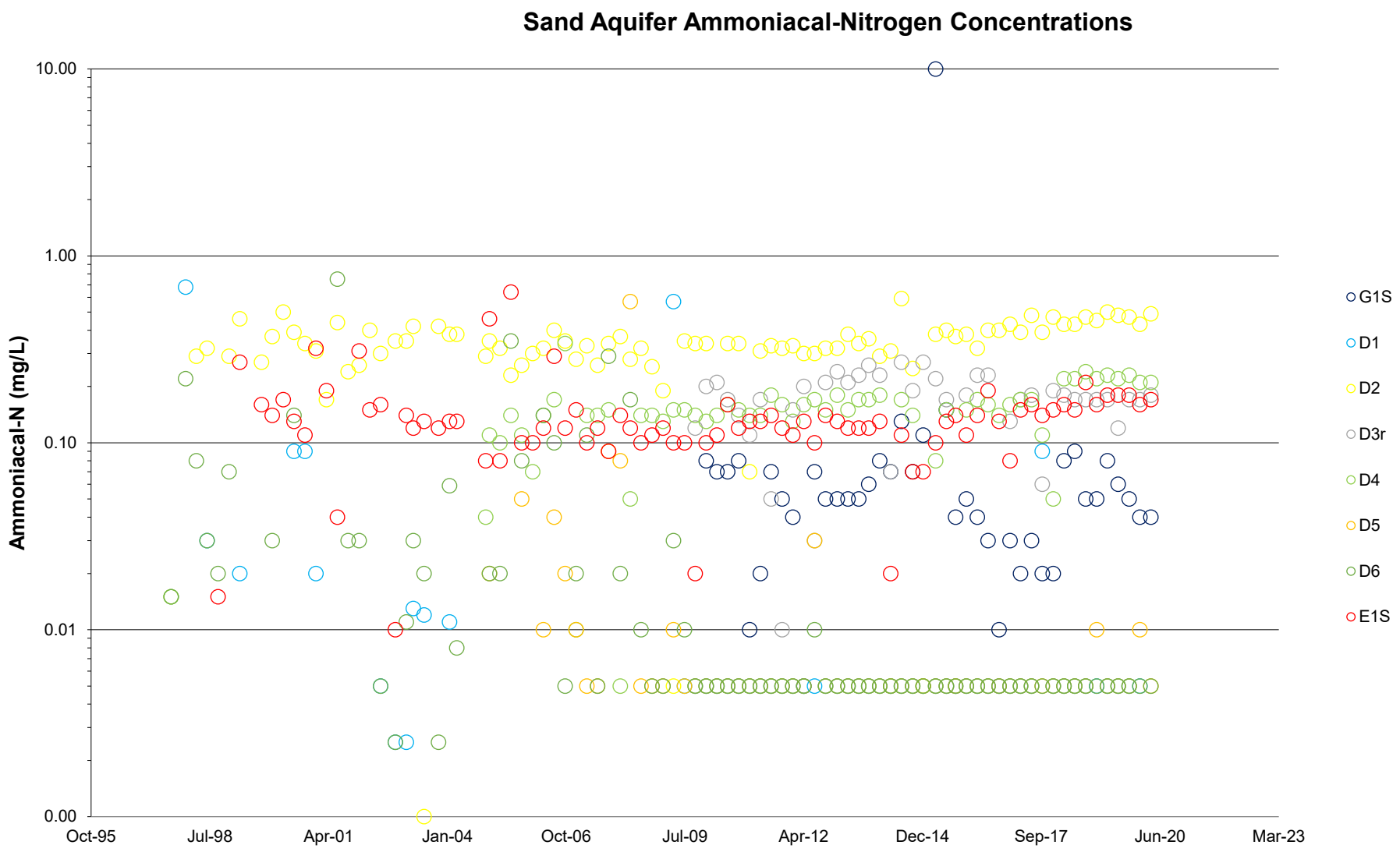
Report Released By
Rob Deacon

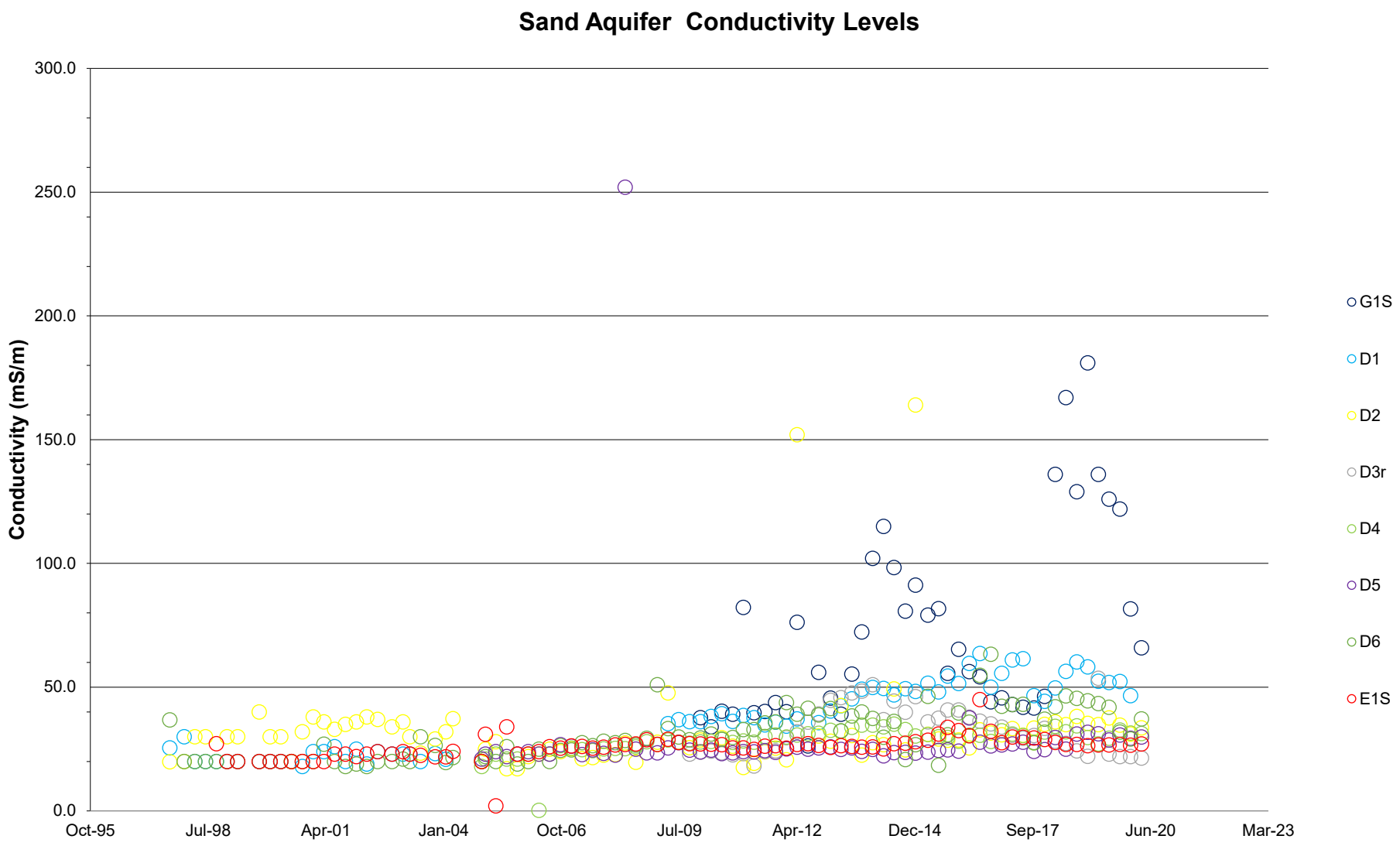
This laboratory is accredited by International Accreditation New Zealand and its reports are recognised in all countries affiliated to the International Laboratory Accreditation Co-operation Mutual Recognition Arrangement (ILAC-MRA). The tests reported have been performed in accordance with our terms of accreditation, with the exception of tests marked "not IANZ", which are outside the scope of this laboratory's accreditation.

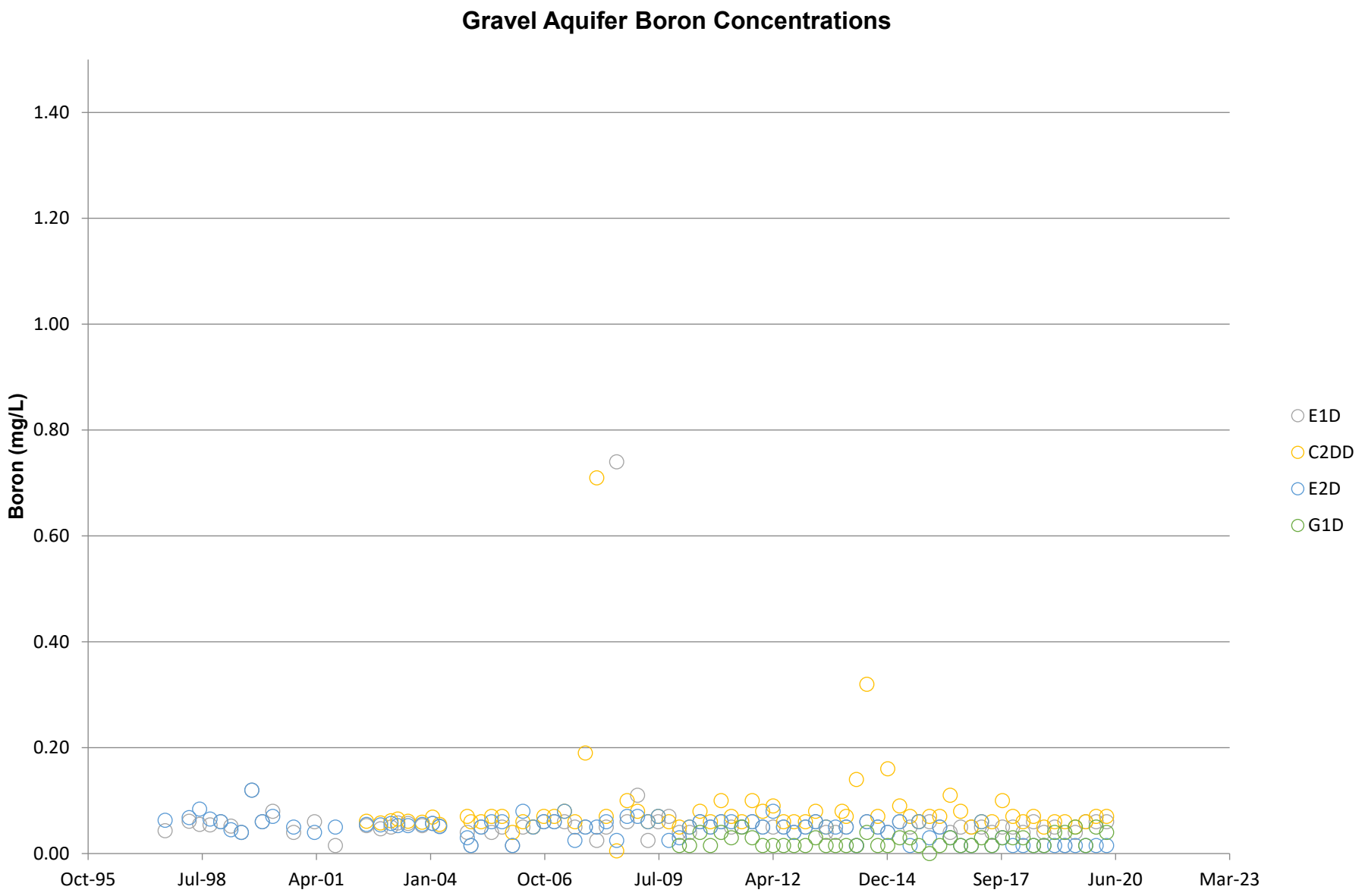
Appendix D Historical Result Graphs

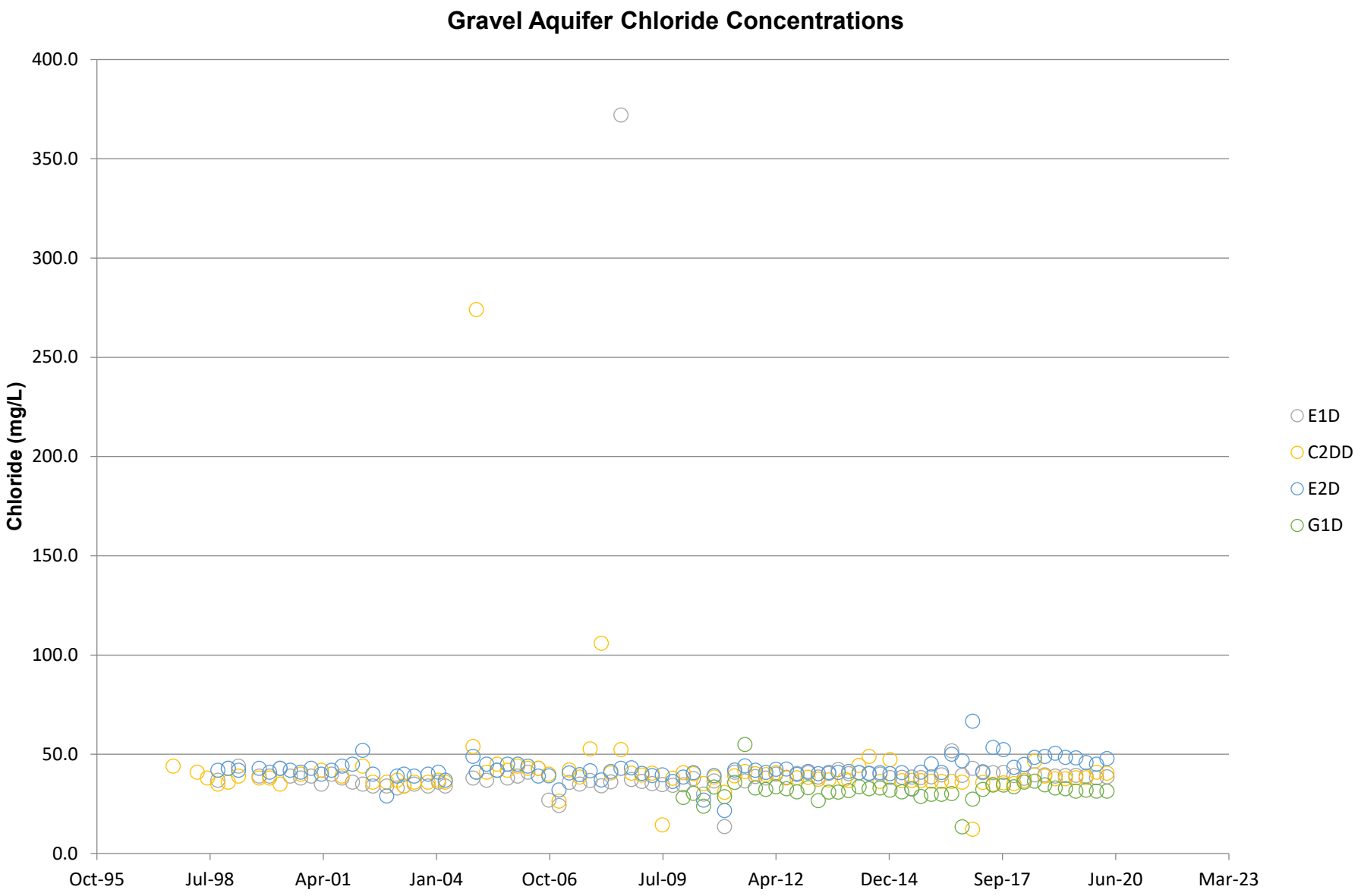

Sand Aquifer Boron Concentrations
Boron (mg/L)
0.600
0.500
0.400
0.300
0.200
0.100
0.000
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
G1S
D1
D2
D3r
D4
D5
D6
E1S

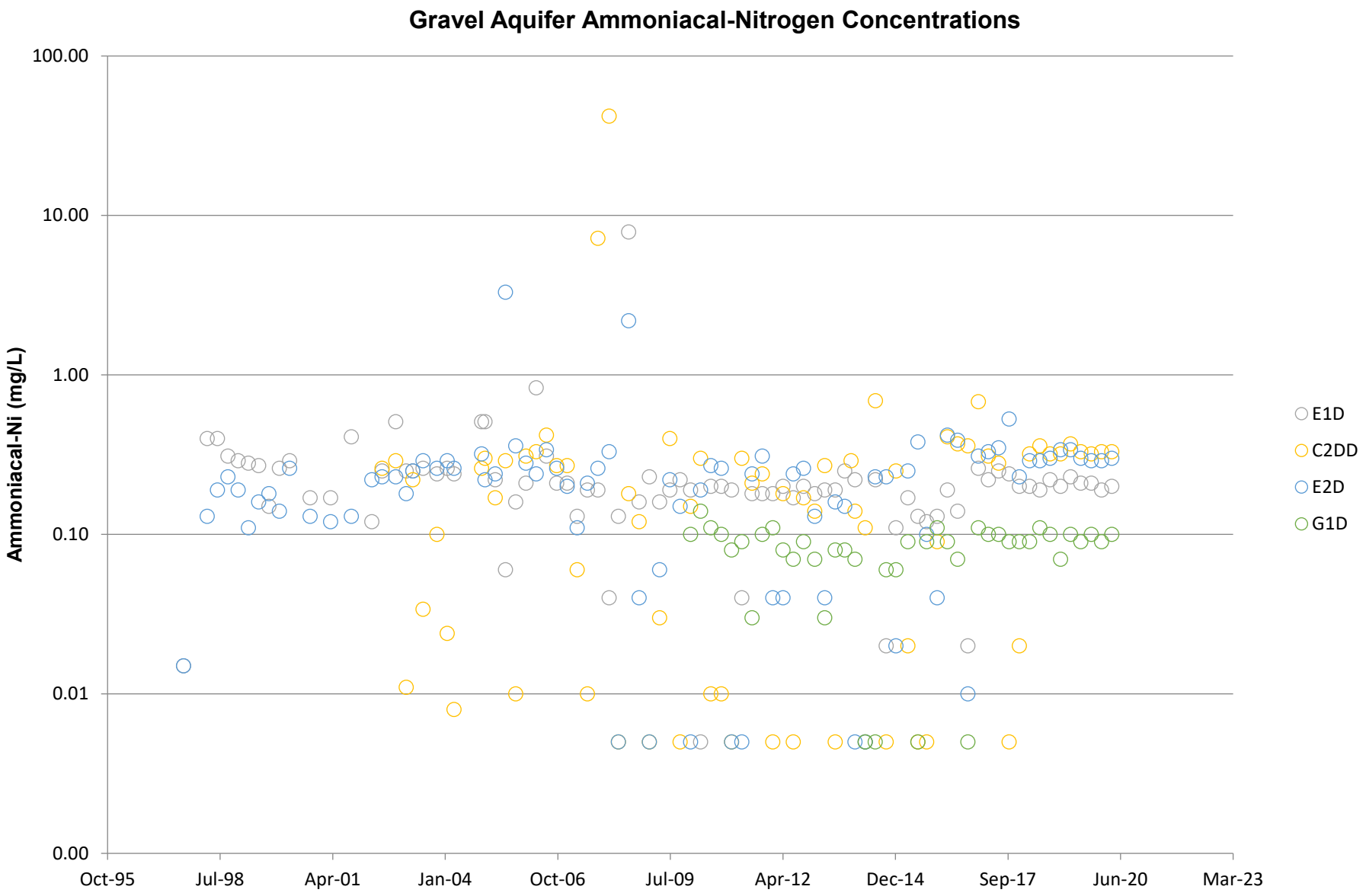

Sand Aquifer Chloride Concentrations
Chloride (mg/L)
600
500
400
300
200
100
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
G1S
D1
D2
D3r
D4
D5
D6
E1S

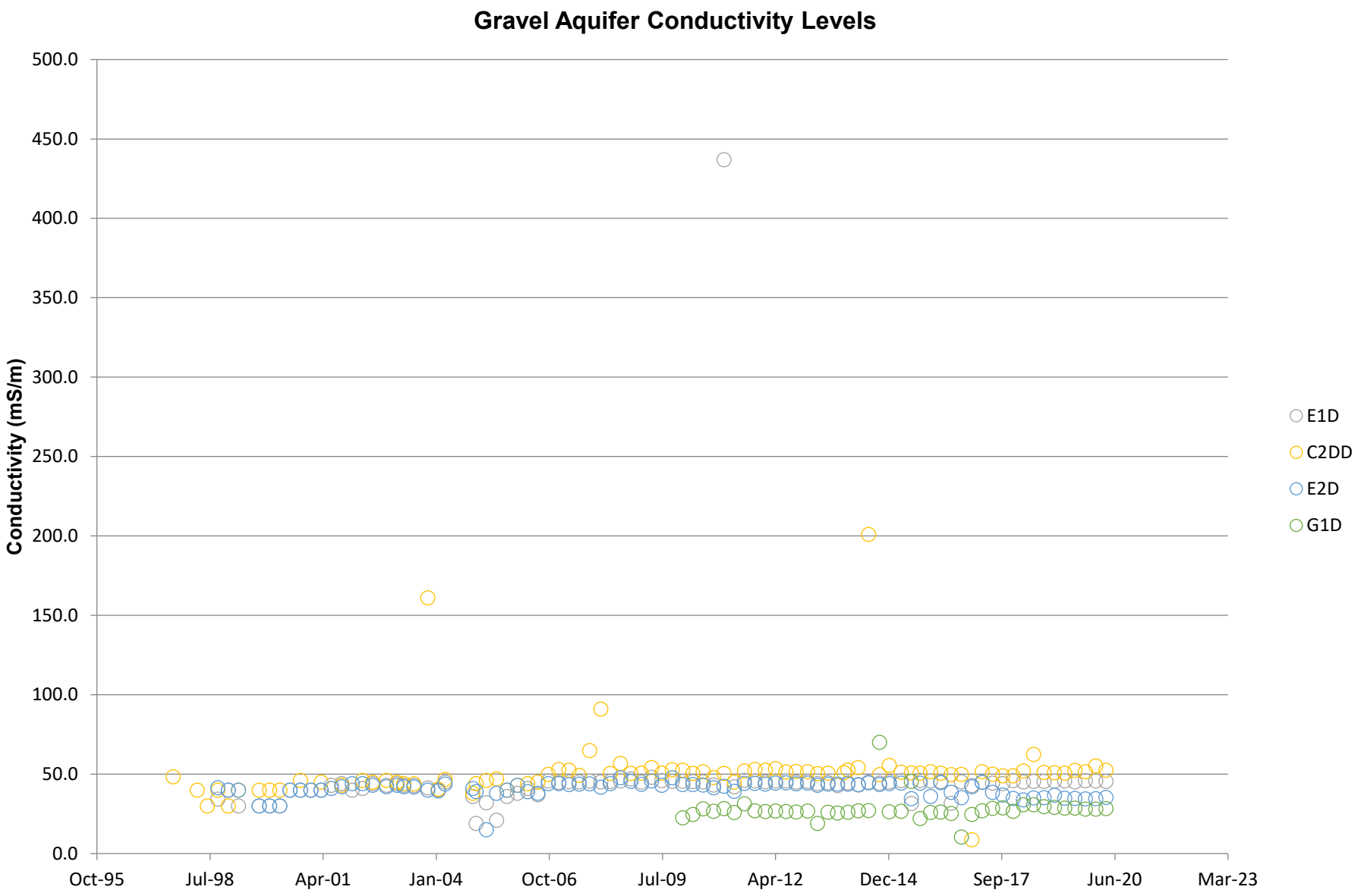

Sand Aquifer Ammoniacal-Nitrogen Concentrations
Ammoniacal-N (mg/L)
10.00
1.00
0.10
0.01
0.00
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
G1S
D1
D2
D3r
D4
D5
D6
E1S

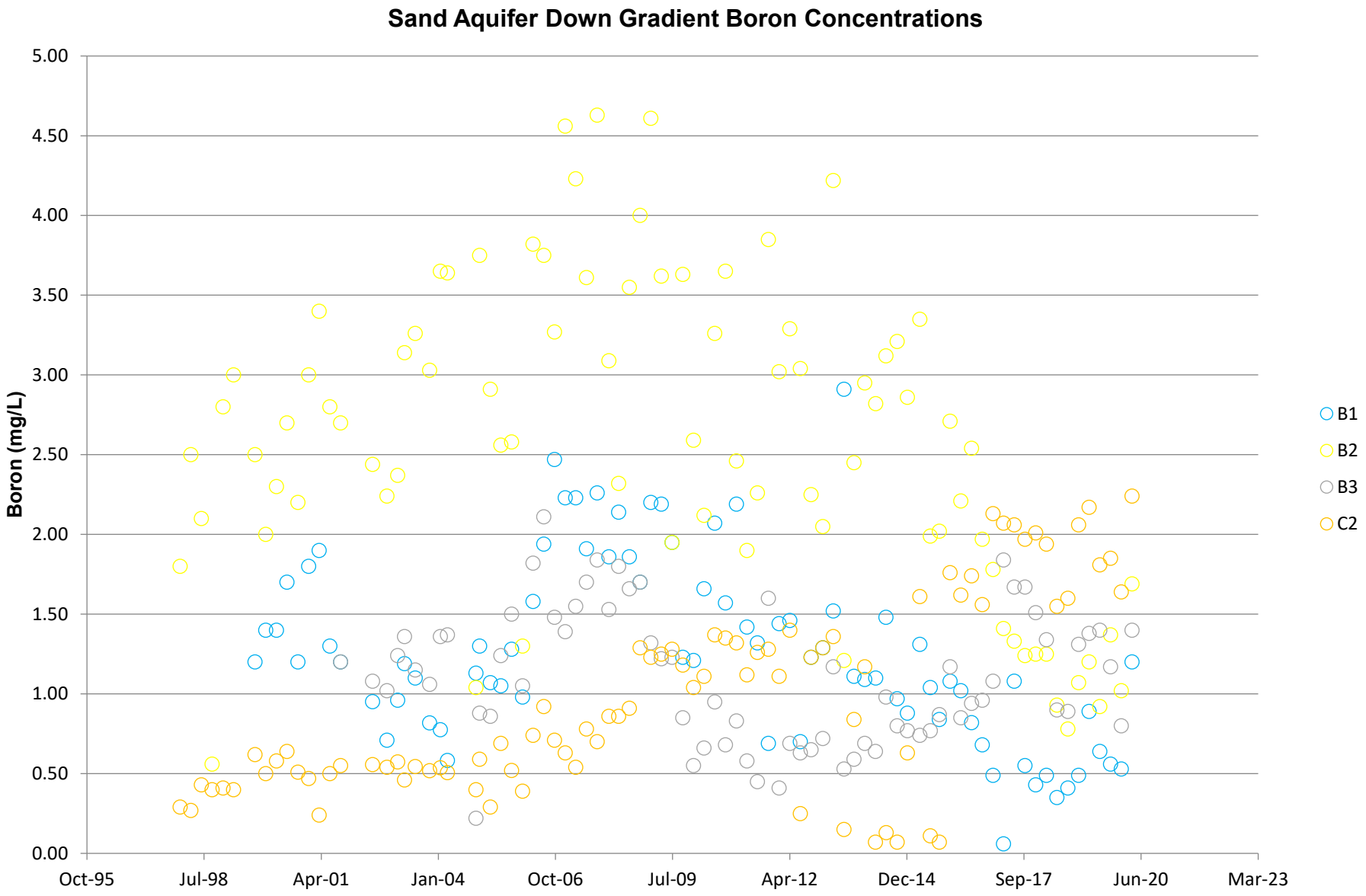

Sand Aquifer Conductivity Levels
Conductivity (mS/m)
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
G1S
D1
D2
D3r
D4
D5
D6
E1S

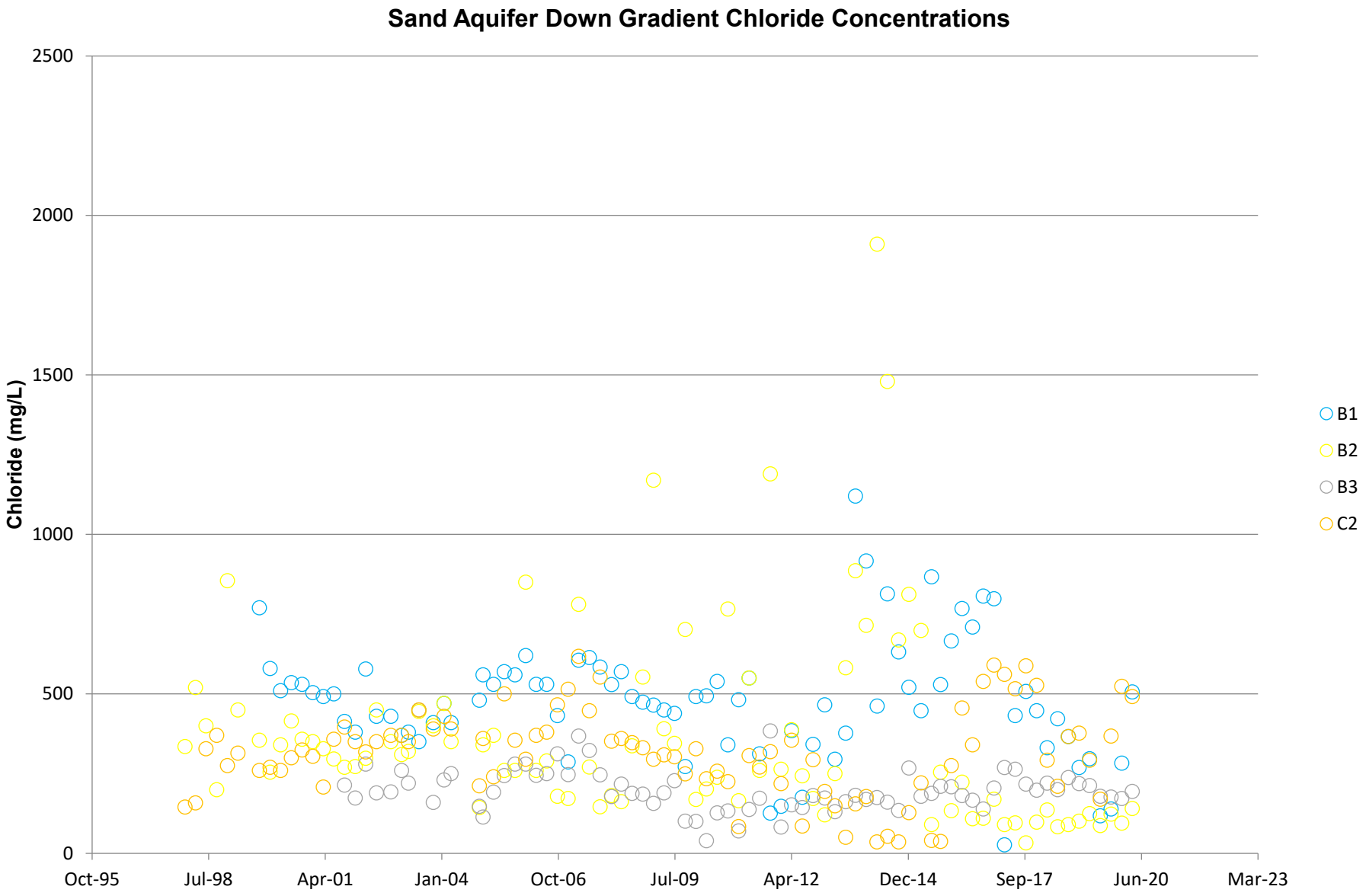

Gravel Aquifer Boron Concentrations
Boron (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
E1D
C2DD
E2D
G1D

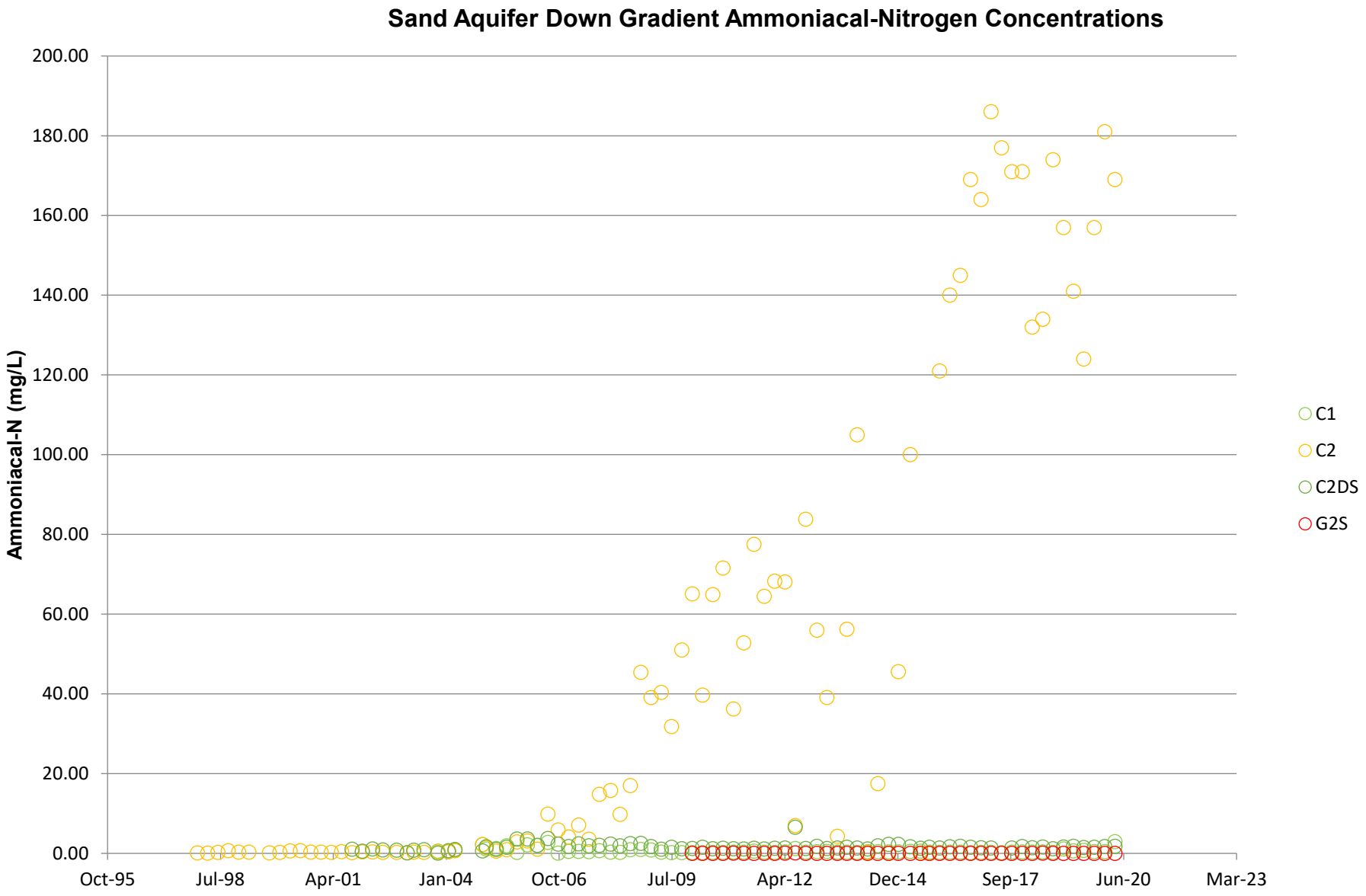

Gravel Aquifer Chloride Concentrations
Chloride (mg/L)
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
E1D
C2DD
E2D
G1D

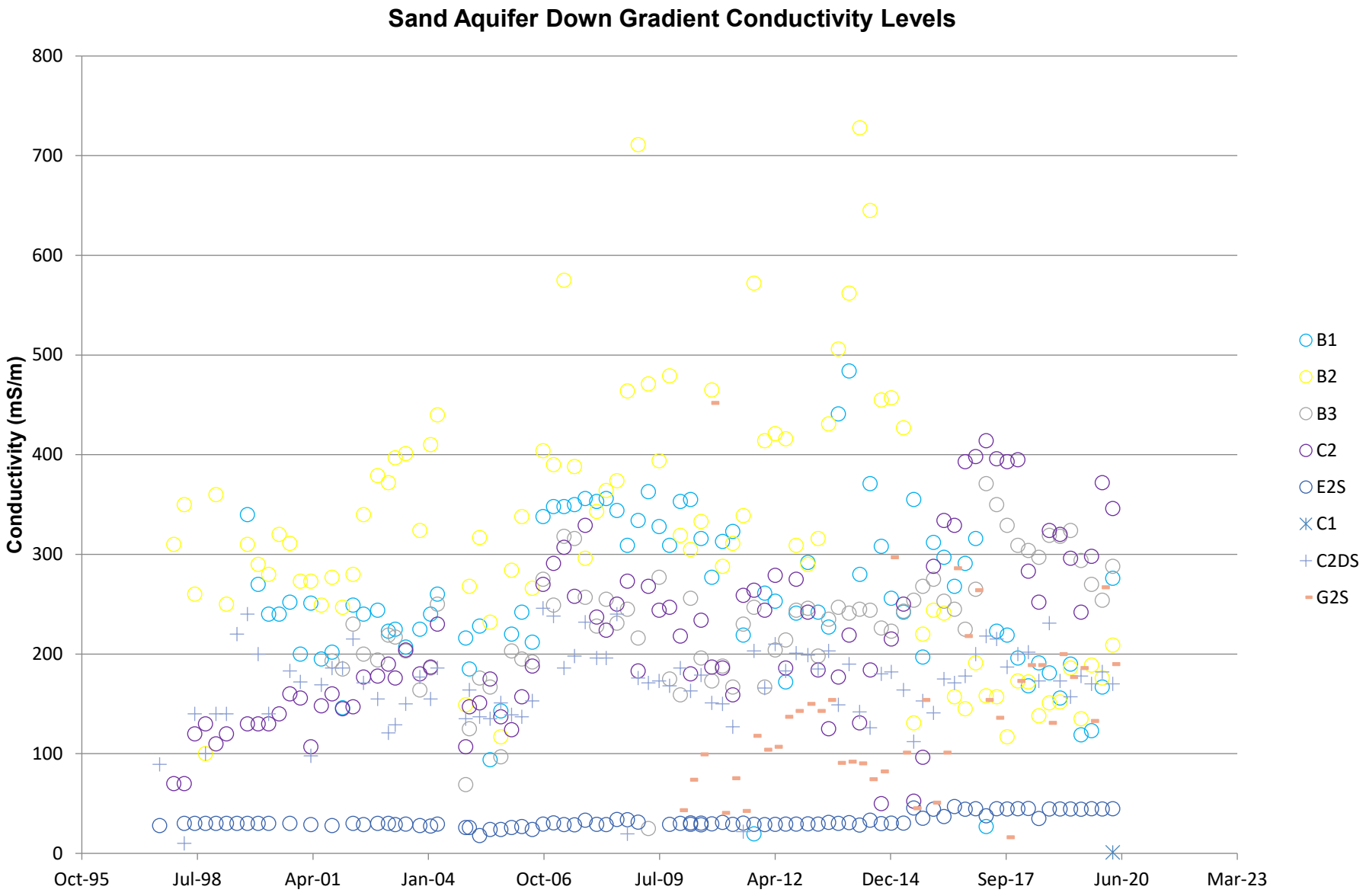

Gravel Aquifer Ammoniacal-Nitrogen Concentrations
Ammoniacal-Ni (mg/L)
100.00
10.00
1.00
0.10
0.01
0.00
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
E1D
C2DD
E2D
G1D

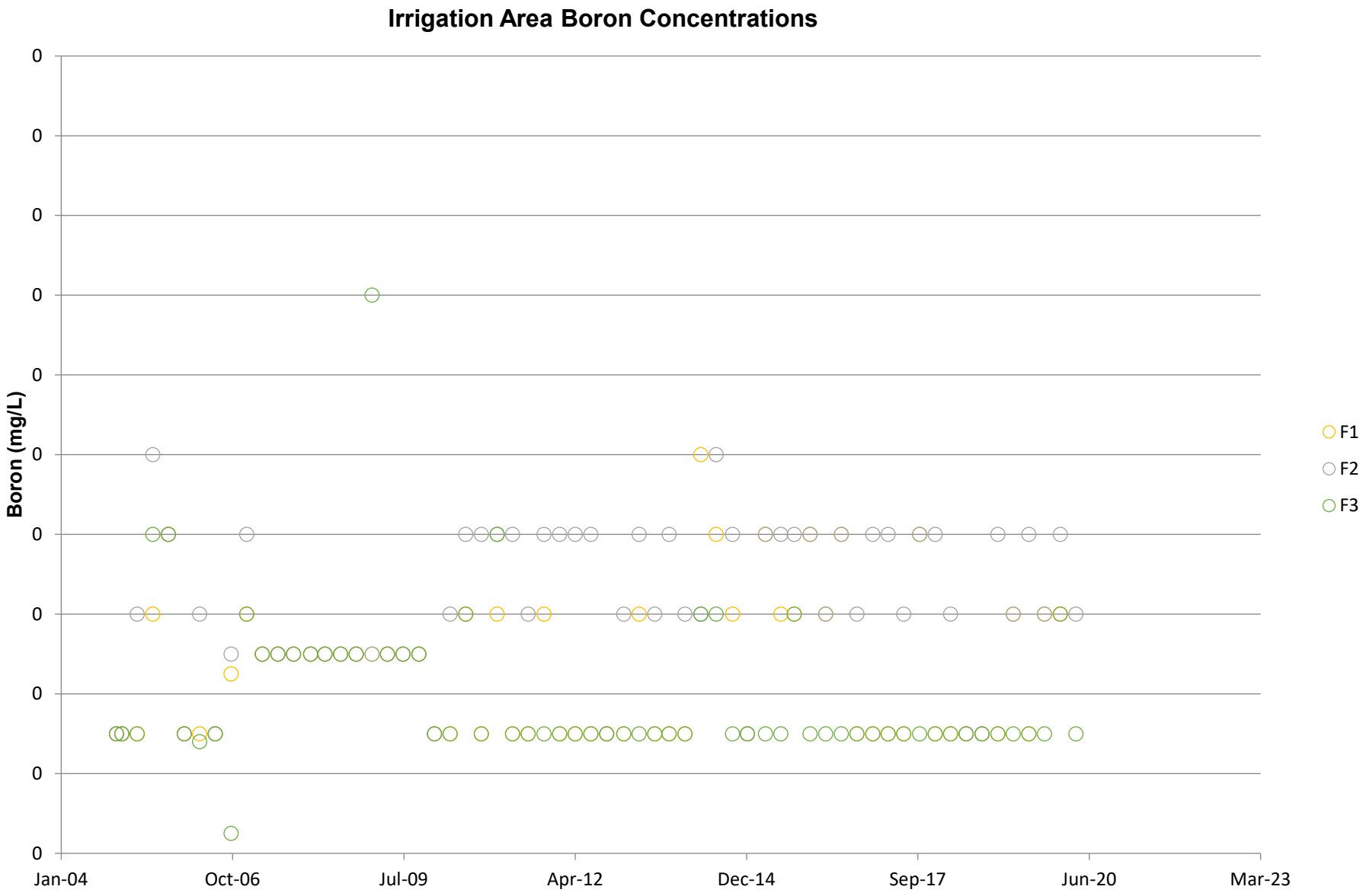

Gravel Aquifer Conductivity Levels
Conductivity (mS/m)
500.0
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
E1D
C2DD
E2D
G1D

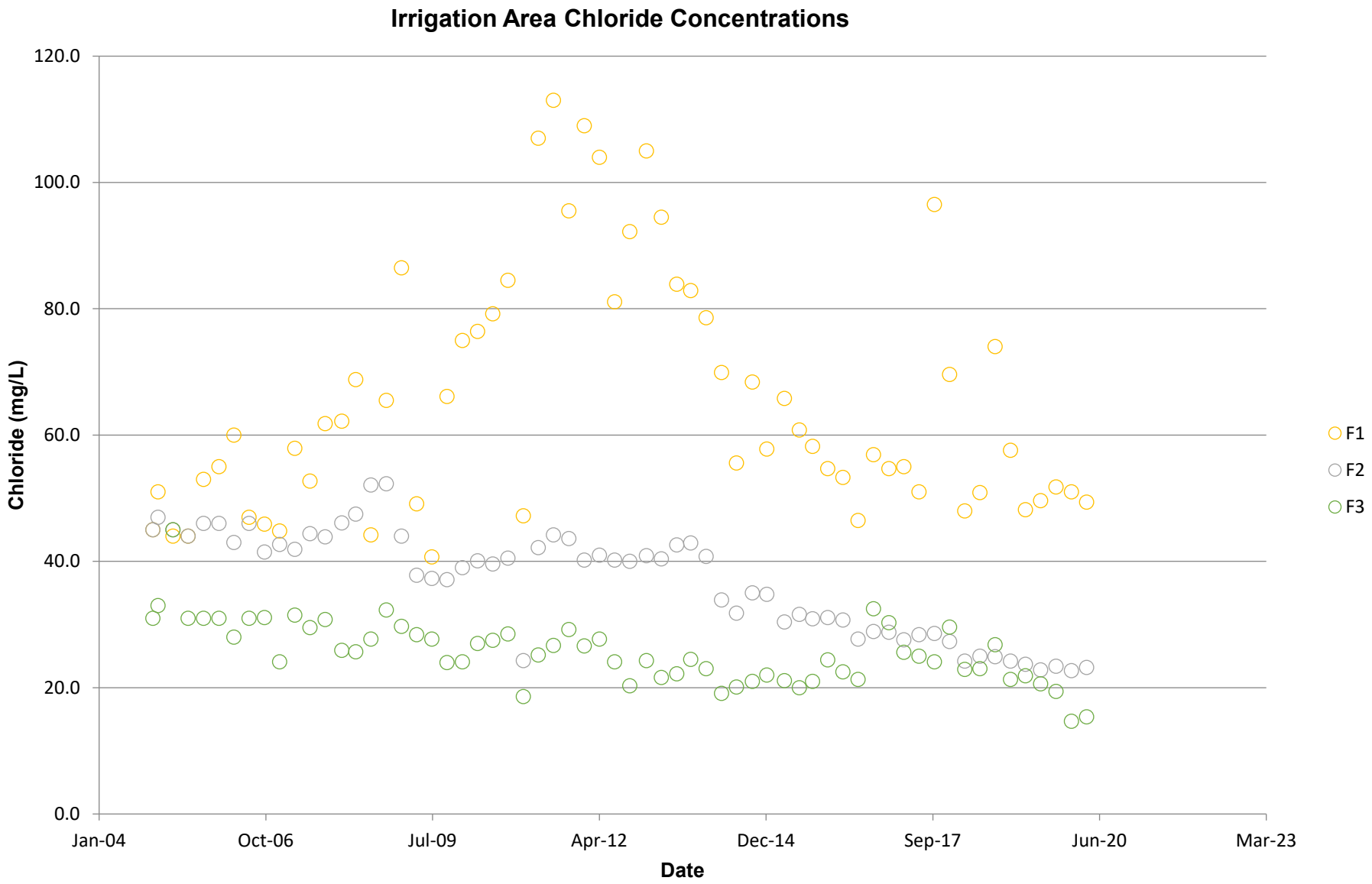

Sand Aquifer Down Gradient Boron Concentrations
Boron (mg/L)
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
B1
B2
B3
C2

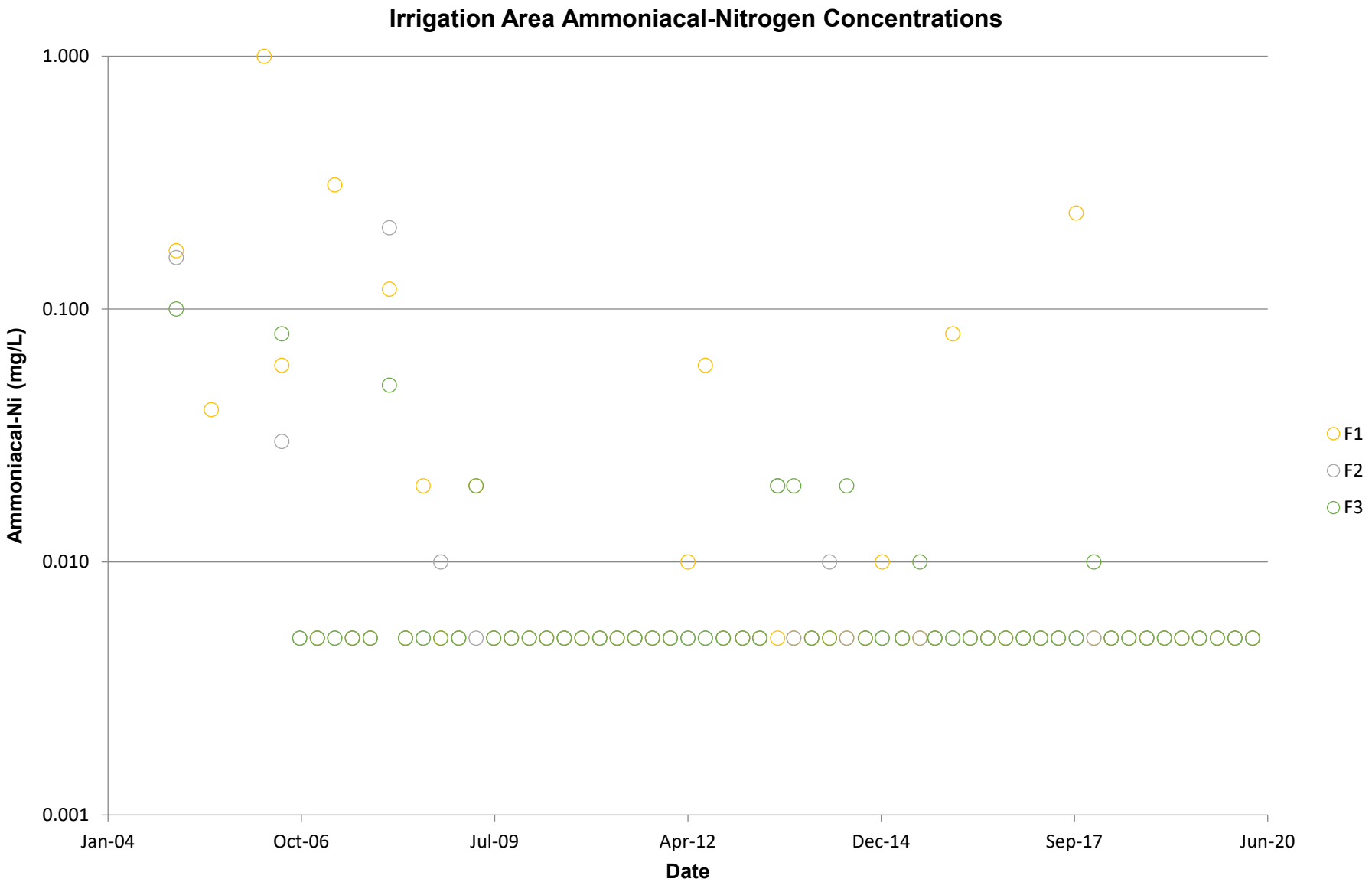

Sand Aquifer Down Gradient Chloride Concentrations
Chloride (mg/L)
2500
2000
1500
1000
500
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
B1
B2
B3
C2

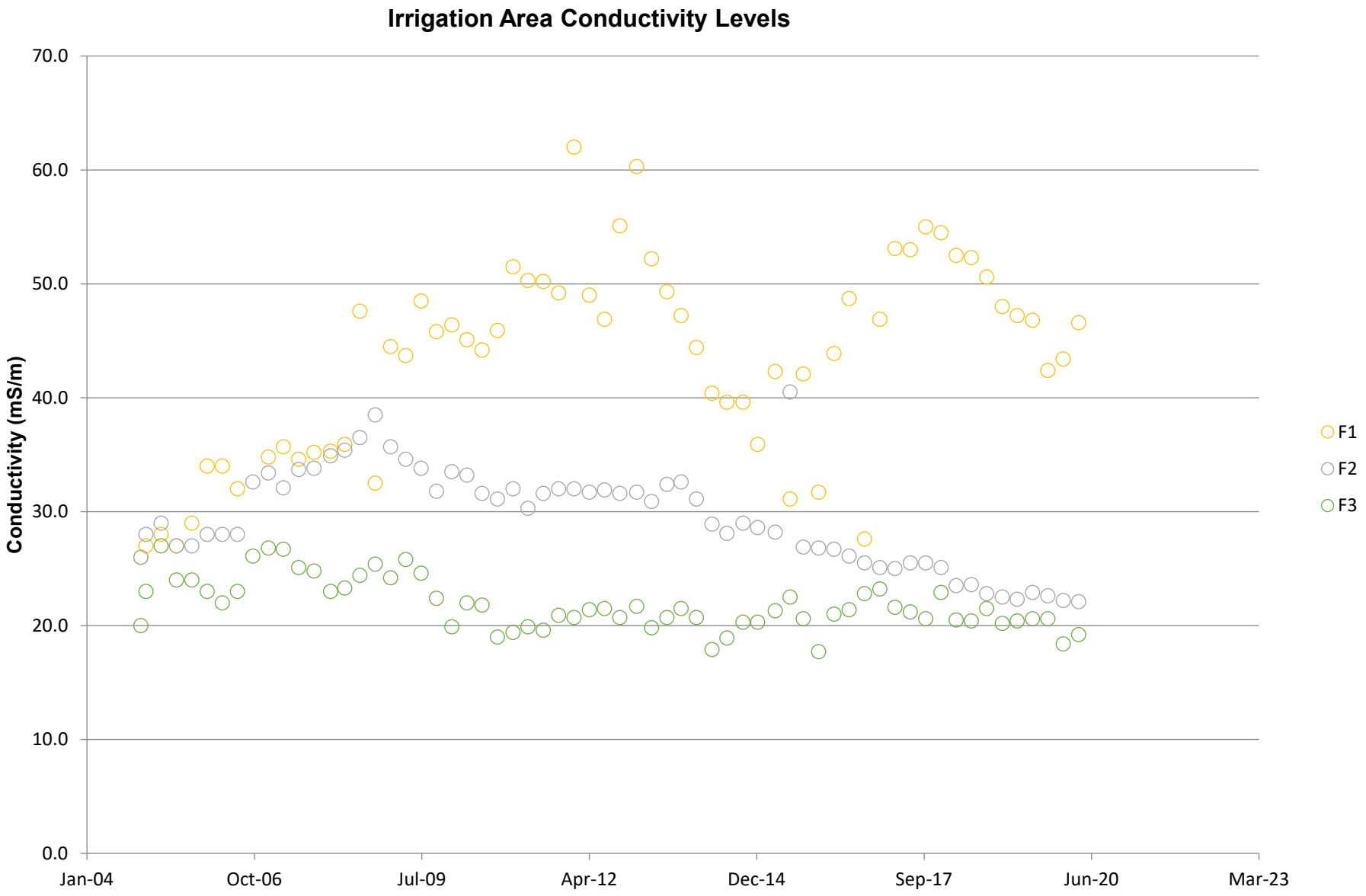

Sand Aquifer Down Gradient Ammoniacal-Nitrogen Concentrations
Ammoniacal-N (mg/L)
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
C1
C2
C2DS
G2S

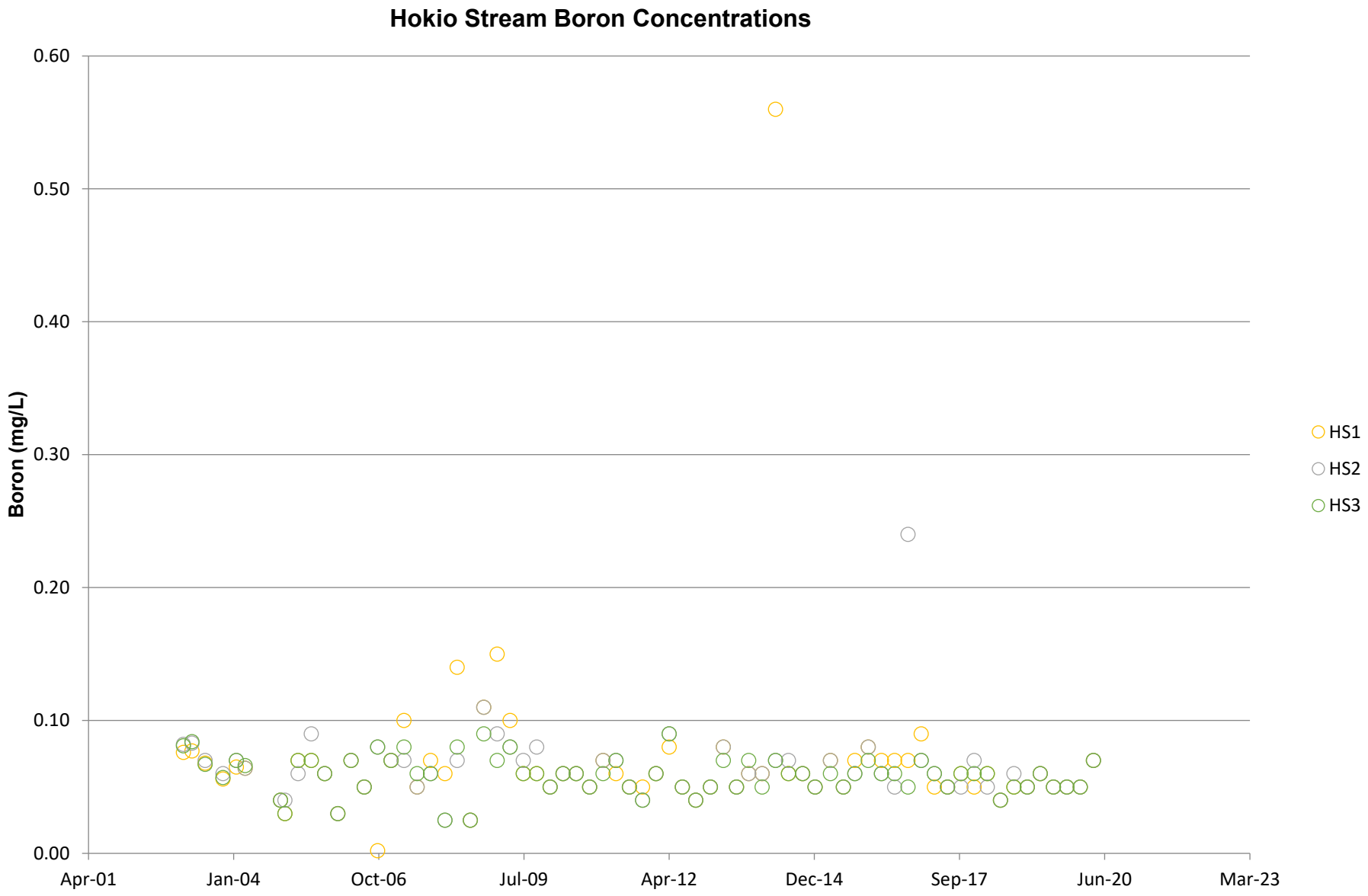

Sand Aquifer Down Gradient Conductivity Levels
Conductivity (mS/m)
800
700
600
500
400
300
200
100
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
B1
B2
B3
C2
E2S
C1
C2DS
G2S

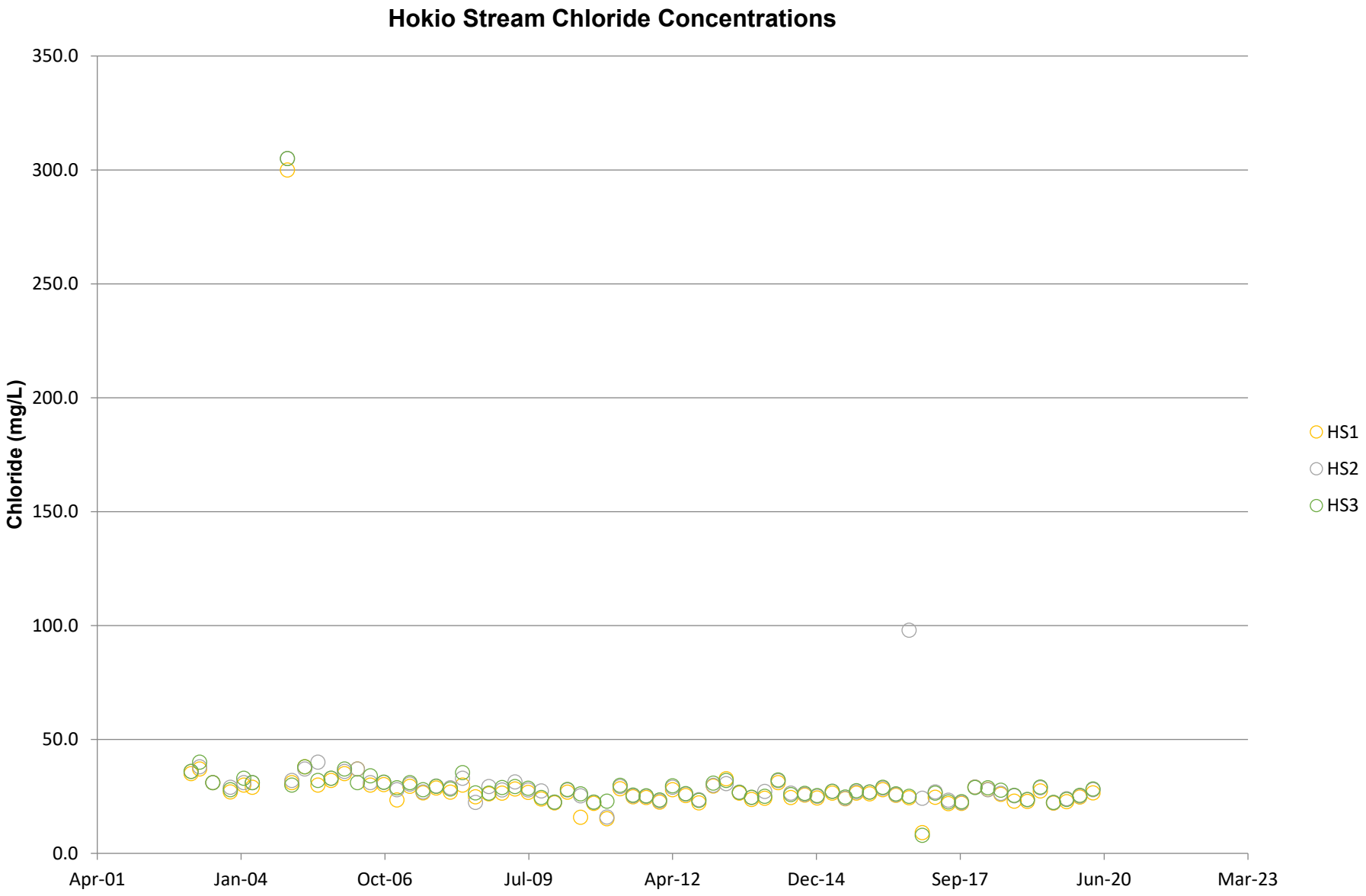

Irrigation Area Boron Concentrations
Boron (mg/L)
0
0
0
0
0
0
0
0
0
0
0
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
F1
F2
F3

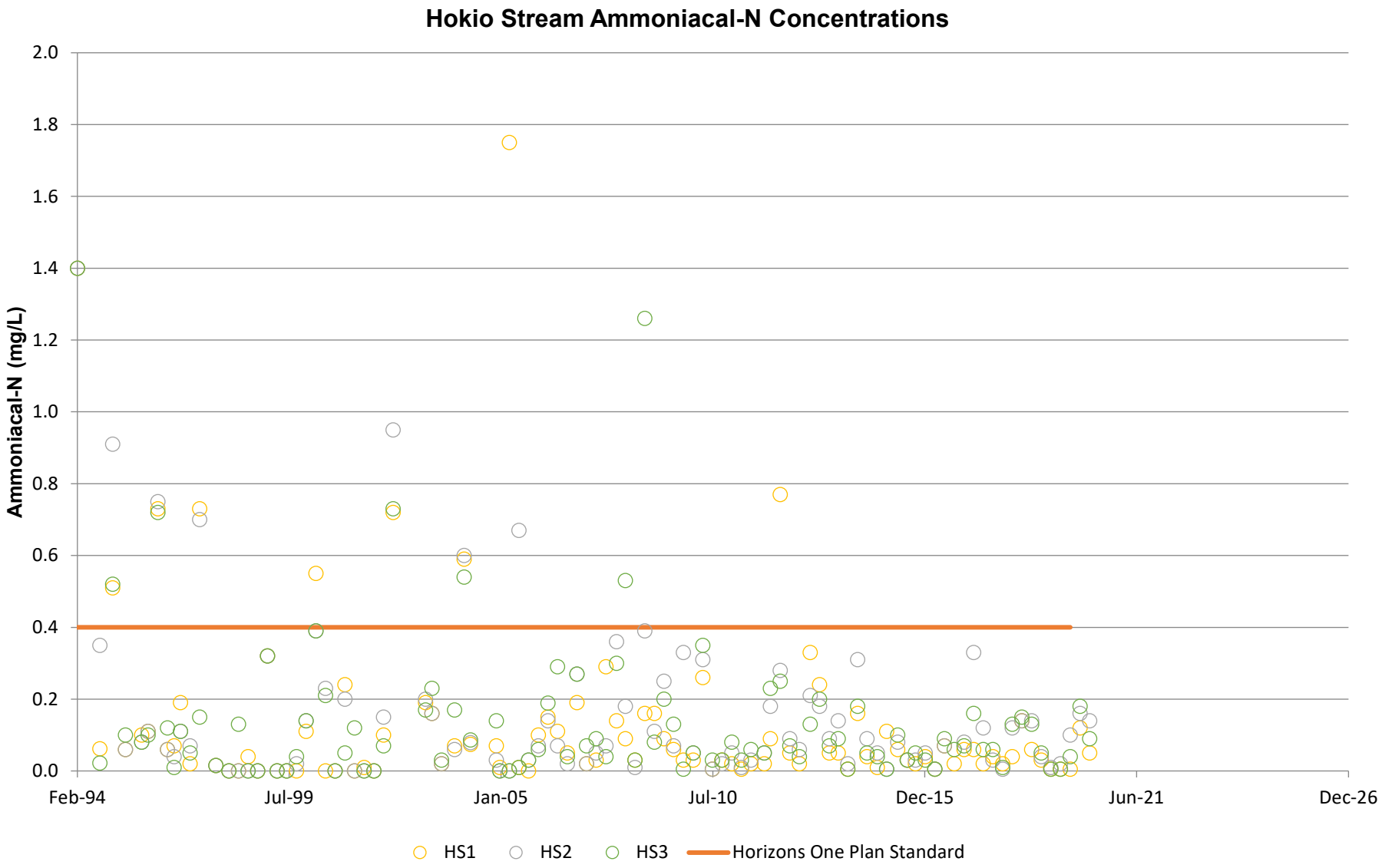

Irrigation Area Chloride Concentrations
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Chloride (mg/L)
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Date
F1
F2
F3

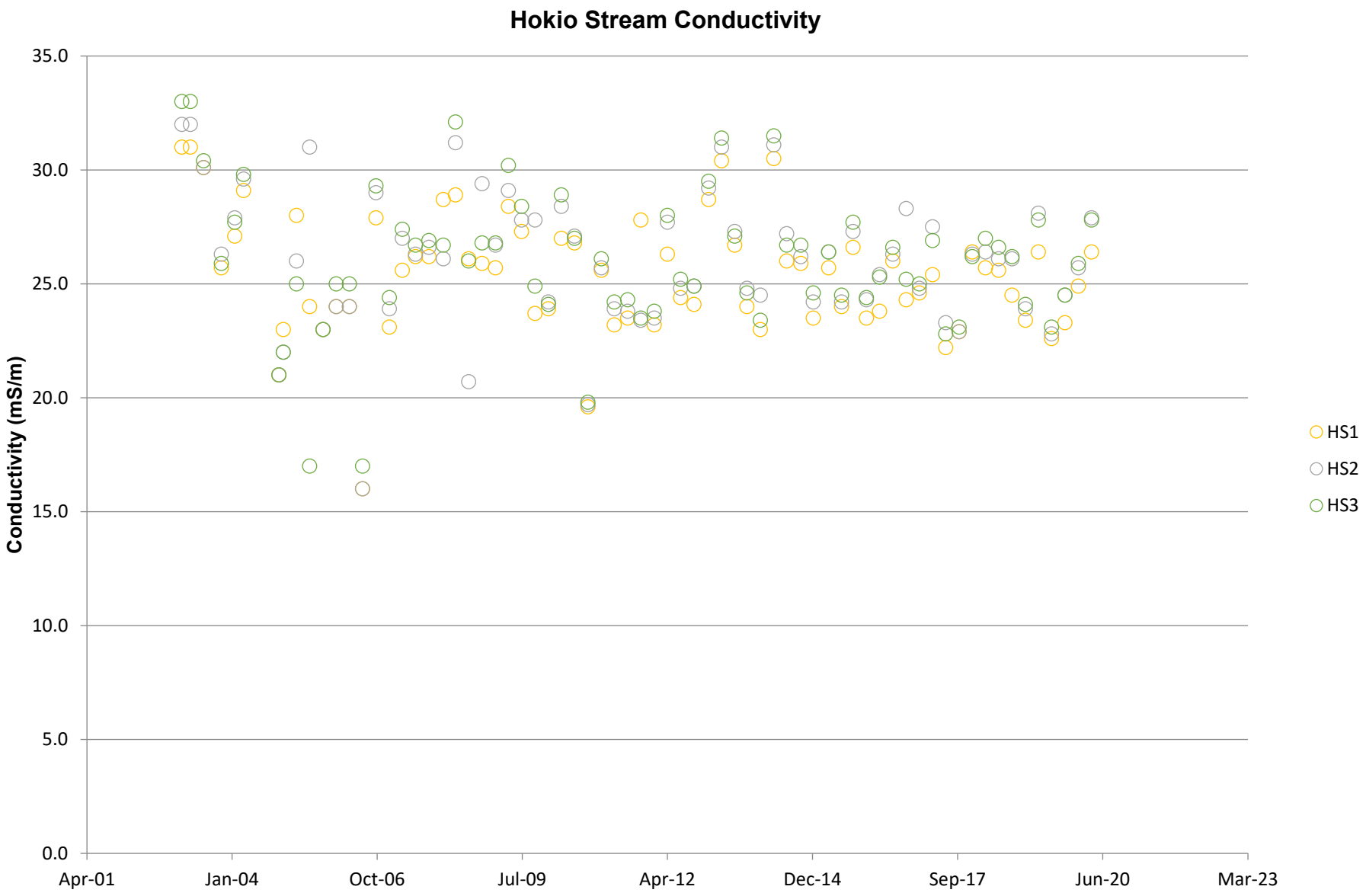

Irrigation Area Ammoniacal-Nitrogen Concentrations
1.000
0.100
0.010
0.001
Ammoniacal-Ni (mg/L)
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Date
F1
F2
F3


Irrigation Area Conductivity Levels
Conductivity (mS/m)
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
F1
F2
F3


Hokio Stream Boron Concentrations
Boron (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
HS1
HS2
HS3


Hokio Stream Chloride Concentrations
Chloride (mg/L)
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
HS1
HS2
HS3


Hokio Stream Ammoniacal-N Concentrations
Ammoniacal-N (mg/L)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Feb-94
Jul-99
Jan-05
Jul-10
Dec-15
Jun-21
Dec-26
HS1
HS2
HS3
Horizons One Plan Standard


Hokio Stream Conductivity
Conductivity (mS/m)
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
HS1
HS2
HS3

Palmerston North

118 Fitzherbert Avenue, Palmerston North 4410
PO Box 13-052, Armagh
Christchurch 8141
Tel +64 6 357 4034

Please visit **www.stantec.com** to learn more about how Stantec design with community in mind.

Stantec