









PLATE 14 Area 2 Borehole 4





PLATE 15 Area 3 Testpit 1













PLATE 18 Tin can located in Area 3a Testpit 9

















PLATE 22 Area 3a Testpit 7, 10 and11 located around golf hole



Appendix E 26 Pages

Electro-Magnetic Assessment Reports

Geophysical Investigation using EM61 to Locate Buried Drums at CFA Training Grounds, Fiskville, Victoria. GBG Australia 9 October 2012, Ref 1471_REV Report_2

Geophysical Investigation using EM61 to Locate Buried Drums at CFA Training Grounds, Fiskville, Victoria. GBG Australia 19 September 2012, Ref 1487_A2_Letter

Geophysical Investigation using EM61 to Locate Buried Drums at CFA Training Grounds, Fiskville, Victoria. GBG Australia 4 April 2013, GBGA Ref:1556





18 Fennell Street, North Parramatta, NSW. 2151. Tel: 9890 2122. Fax: 9890 2922. E-Mail: <u>andrew.b@gbgoz.com.au</u>.

A.B.N. 77 009 550 869.

9 October 2012

GBGA Ref: 1471_REV Report_2

Attention: Ms. Lauren Ryan Senior Environmental Scientist Cardno Lane Piper Building 2, 154 Highbury Road Burwood, Victoria 3125

SUBJECT: GEOPHYSICAL INVESTIGATION USING EM61 TO LOCATE BURIED DRUMS AT CFA TRAINING GROUNDS, FISKVILLE, VICTORIA.

GBG Australia carried out a non-destructive investigation using time-domain electromagnetic induction (TEM) on the grounds of the CFA Training College in Fiskville, Victoria. The data was collected over two days on the 6th & 7th August 2011.

The objective of the investigation was to locate possible buried drums in three sections of the training site as part of remediation efforts on the site.

The following report outlines the methodology of the investigation and discusses the results.

BACKGROUND

The CFA Training College Fiskville is a training site for the Country Fire Authority (CFA), a volunteer fire and emergency service that services regional Victoria. The site is used to train CFA staff & volunteers utilising in a wide range of emergency response scenarios. The site has been in operation for approximately forty (40) years.

There is concern that over the course of operations, drums of flammable liquid were buried on site. The cleanup of the site is lead by Cardno Lane Piper (the client) and as part of the investigation, GBG Australia was contracted to locate drums possibly buried on site.

The three sites investigated area is described below.

 Drum_Burial_Area 1 – Approximately 7,050m². Two-thirds of the site is a grove of planted trees in rows approximately two (2) metres apart, a third of the site is an open field, at the time of the investigation this was mown grass. The EM survey was undertaken parallel to these rows. Some surface scrap and training facilities are found in the open grass field.

- Drum_Burial_Area 2 Approximately 2,520m², site consists of a grove of planted mixed trees arranged in non-linear rows approximately two (2) to five (5) metres apart, the site surrounded on three sites by roadway and on one by administration buildings/carpark.
- Drum_Burial_Area 3 Approximately 1,750m², this site is a section of the golf course and it consists of an open field of grass, which at the time of the investigation was mown. Two concrete structures are located just outside the survey area. These structures are believed to be the anchors of a former radio tower.

Figure 1 below is an aerial image of the site outlining the investigation areas.



Figure 1. Aerial image of the three survey site: Drum_Burial_Area 1 (highlighted in red), Drum_Burial_Area 1 (highlighted in yellow) and Drum_Burial_Area 1 (highlighted in orange). Image courtesy of Google Earth (16 Aug 2012).

DATA COLLECTION

Data was collected using a time-domain electromagnetic induction (TEM) system. For more information about the TEM method, please refer to Appendix A.

The survey was undertaken using an EM61-MK2 with 1m x 0.5m sensor coils (Figure 2) that transmits a primary electromagnetic field and records up to four time-gates of secondary electromagnetic field in millivolts (mV). The sensor was mounted on a cart and pulled by

hand at walking pace in lines one (1) metre apart to ensure full coverage of the site. The sensor was configured to record five (5) readings every second.

Spatial position of the TEM data was recorded by an attached Differential Global Positioning System (DGPS) receiver with each reading having associated positional information with an accuracy of less than 1m. Both the TEM and DGPS data were combined and recorded using the EM61MK2 collection software on a field recorder by the field geophysicist.



Figure 2. EM61-MK2 set up as as a cart.

DATA PROCESSING & ANALYSIS

Processing and analysis of collected data was undertaken in a number of steps:

- 1. Raw data was converted from binary format to ascii format.
- 2. The Converted data was combined with GPS data, analysed and corrected for any errors.
- 3. GPS corrected data was then gridded.
- 4. Parts of gridded the data were blanked out to so as clip areas not surveyed.
- 5. Colour range and scale were altered to better highlight detected anomalies.

The first two steps were undertaken in the Geonics program DAT61MK2, while the last three steps were undertaken in Golden Software's program Surfer. The result of these steps was a colour contour image which shows changes in conductivity over the entire area.

RESULTS & DISCUSSION

The results of the investigation have been provided in the drawings GBGA1471-A1, GBGA1471-A2 & GBGA1471-A3. Drawings GBGA1471-A1 & GBGA1471-A3 contain two (2) aerial images of the surveyed area overlaid onto a colour contour map of the collected data. Due to the poor quality of the aerial image of Drum_Burial_Area 2, GBGA1471-A3 was not overlaid onto an aerial image. All drawings are geo-referenced using GDA UTM Zone 55 datum.

On the drawings, the image on the left is the gridded response of the D3 component which shows the responses of the deeper objects, while the image on the right is the gridded response of the Top (Differential) component (background variations removed) and hence shows only anomalies.

From these drawings, a number of areas of high conductivity responses can be found spread through the sites. These areas of high conductivity are interpreted as possible locations of buried drums. Comparison of these high conductivity responses with the standard response curve from a 55 Gallon Steel drum suggest that these anomalies are between 500mm and 1,000mm below the surface.

The findings from each area are as follows:

Drum Burial Area 1

High responses found in the area were correlated with the presence of monitoring wells, a military helicopter used for training (Figure 3), a road sign (Figure 4), drums (Figure 5) and reinforced concrete pipes (Figure 6).



Figure 3. Military helicopter located on site Drum_Burial_Area 1.



Figure 4. Road sign located on site Drum_Burial_Area 1.



Figure 5. Drums located on site Drum_Burial_Area 1.



Figure 6. Reinforced concrete pipes located on site Drum_Burial_Area 1.

A total of twenty five (25) anomalies were found and are listed below as targets in Table 1. Targets 1 - 5 are found in the top portion of the area, targets 4 & 5 in the bottom-middle portion of the area and targets 7 - 25 are found towards the bottom-east of the area.

ID	Easting	Northing	ID	Easting	Northing
1	254738.22	5826167.66	14	254836.20	5826109.31
2	254743.46	5826149.54	15	254833.93	5826108.75
3	254769.03	5826153.57	16	254829.08	5826100.24
4	254764.34	5826163.36	17	254833.11	5826096.54
5	254778.21	5826106.51	18	254840.54	5826105.49
6	254793.47	5826106.51	19	254839.09	5826112.42
7	254815.30	5826109.37	20	254841.03	5826112.58
8	254820.11	5826108.53	21	254845.21	5826099.21
9	254823.60	5826108.37	22	254848.11	5826096.47
10	254823.60	5826110.36	23	254839.90	5826108.55
11	254825.76	5826110.36	24	254836.63	5826097.33
12	254821.78	5826102.55	25	254834.32	5826101.43
13	254836.39	5826105.34			

Table 1. Identified anomalies in site Drum_Burial_Area 1.

The area of high response found under the road is believed to be related to the construction of the road.

Due to the relatively high amount of scrap metal found in the surface, it is possible that targets in the eastern portion of the area are detected scrap metal. In particular target 10 may be scrap metal related to the helicopter.

Drum Burial Area 2

Due to errors with the GPS, a large portion of the area could not be gridded. As a result only approximately 60% of the results of the site could be displayed.

The most likely cause of this is the higher density of tree cover in the site preventing the GPS from maintaining a consistent lock on differential GPS (OMNISTAR) satellites. Figure 7 below displays the recorded GPS points, areas where GPS was not recorded (GPS drop outs) due to the presence of high density tree cover.



Figure 7. Recorded GPS points in site Drum_Burial_Area 2. Note large areas lacking GPS due to drop outs.

Within this area, a total of seven (7) anomalies were found and are listed below as targets in Table 2. Targets 1 and 2 are found in the northern portion of the area, while targets 3, 4, 5, 6 & 7 are in the southern portion of the area.

ID	Easting	Northing
1	254839.45	5826007.79
2	254836.59	5826007.79
3	254819.83	5826001.86
4	254811.24	5825966.71
5	254804.50	5825970.59
6	254790.20	5825971.00
7	254779.36	5825971.00

Table 2. Identified anomalies in site Drum_Burial_Area 2.

Due to their close proximity with the car park, it is possible that targets in the bottom portion of the area are related to car park construction.

Drum Burial Area 3

A total of seven (7) anomalies were found and are listed below as targets in Table 3. All targets are found towards the northern portion of the area. Due to the close proximity of concrete anchors of the former radio tower (Figure 8), it is possible that targets 3, 4, 5, 6 & 7 are scrap metal.



Figure 8. Former radio tower anchor located adjacent to site Drum_Burial_Area 3.

ID	Easting	Northing
1	254940.93	5825919.20
2	254937.21	5825914.55
3	254921.41	5825917.92
4	254917.69	5825919.83
5	254916.12	5825921.06
6	254915.48	5825915.01
7	254904.15	5825924.02

Table 3. Identified anomalies in site Drum_Burial_Area 3.

CONCLUSIONS

- An EM61 survey was conducted in three (3) sites in the grounds CFA Training College, Fiskville. The purpose of which was to locate any buried drums.
- The sites were surveyed over the course of two (2) days.
- Site Drum_Burial_Area 1 was found to contain twenty five (25) anomalies, the location and GPS coordinates of these anomalies can be found in this report and on drawing GBGA1471_A1.pdf.
- Site Drum_Burial_Area 2 was found to contain seven (7) anomalies, the location and GPS coordinates of these anomalies can be found in this report and on drawing GBGA1471_A2.pdf.
- Site Drum_Burial_Area 3 was found to contain seven (7) anomalies, the location and GPS coordinates of these anomalies can be found in this report and on drawing GBGA1471_A3.pdf.
- Portions of site Drum_Burial_Area 2 were unable to be gridded due to GPS drop outs caused by heavy vegetation cover.

I hope that this provides you with the information required. If you require clarification on any points arising from this investigation please contact me on (02) 9890 2122.

For and on behalf of GBG AUSTRALIA PTY LTD

ANDREW BUCHEL Geophysicist – B.Sc. (Hons)

APPENDIX A: TEM METHOD

Theory

Time Domain Electro-Magnetic (TEM) surveying uses the principle of electromagnetic induction to measure changes in the electrical conductivity of the subsurface. Time-Domain Electro-Magnetics (TEM) is sensitive to variations in the electrical conductivity of the subsurface. This is influenced by bulk variations in the subsurface porosity and permeability, and degree of saturation, as well as discrete variations due to buried metallic objects.

A primary electric current is passed through a transmitting coil and a produces a primary magnetic field in the space surrounding the coil including the subsurface. When the current is switched off, the magnetic field induces a turbulent electric current (eddy currents) in the ground and in nearby buried conductors. These currents decay with time and cause a decaying secondary magnetic field at the surface. Measurement of the rate of decay of the secondary magnetic field provides variation of conductivity with depth and a means of detecting buried conductive bodies.



Figures. A) Collecting TEM data with the EM61and B) Sample of processed data.

Limitations

- 1) The response from the drum measured by EM61 is classified as an anomaly only if the signal from the drum is more than background signal.
- 2) Noise (background and instrumental) can act as a dampener and therefore limits data resolution and depth of data acquisition.
- 3) Any significant contract at the surface will mark response from greater depths and hence limit resolution of data.
- 4) External metallic objects like radios, generators, power transmission lines, transportation infrastructure, and electromagnetic devices can affect the input signal.
- 5) Highly conductive soils can limit the effective penetration of these instruments.
- 6) While determining the size and depth of the drum, orientation is not taken into account; therefore the drum can be horizontal, vertical or inclined.
- 7) The depth of drum is determined using depth vs. intensity graphs and is an approximation.

			Area 1		
ID	Easting	Northing	Size (Diameter)	Depth cm	Chance of Drum?
1	254738.22	5826167.66	2m	80	High
2	254743.46	5826149.54	1m	95	High
3	254769.03	5826153.57	1m	90	High
4	254764.34	5826163.37	1m	110	High
5	254778.21	5826106.51	1m	55	Moderate
6	254793.47	5826106.51	1m	55	Moderate
7	254815.30	5826109.37	1m	50	Low
8	254820.11	5826108.53	2m	55	Low
9	254823.60	5826108.37	2m	<45	Low
10	254823.60	5826110.36	2m	<45	Low
11	254825.76	5826110.36	2m	<45	Low
12	254821.78	5826102.55	2m	65	Moderate
13	254836.39	5826105.34	2m	<45	Low
14	254836.20	5826109.32	2m	55	Moderate
15	254833.93	5826108.75	1m	65	Low
16	254829.08	5826100.24	1m	60	Moderate
17	254833.11	5826096.54	1m	55	Moderate
18	254840.54	5826105.49	2m	<45	Low
19	254839.09	5826112.42	2m	<45	Low
20	254841.03	5826112.58	2m	<45	Low
21	254845.21	5826099.21	1m	55	Moderate
22	254848.11	5826096.47	1m	60	Moderate
23	254839.90	5826108.55	1m	65	Low
24	254836.63	5826097.33	2m	<45	Low
25	254834.32	5826101.43	1m	<45	Low

Area 2						
ID	Easting	Northing	Size (Diameter)	Depth cm	Chance of Drum?	
1	254839.45	5826007.79	1m	85	Moderate	
2	254836.59	5826007.79	1m	80	Moderate	
3	254819.83	5826001.86	2m	105	Moderate	
4	254811.24	5825966.71	1m	125	Moderate	
5	254804.50	5825970.59	1m	100	Moderate	
6	254790.20	5825971.00	1m	95	Moderate	
7	254779.36	5825971.00	1m	120	Moderate	

			Area 3		
ID	Easting	Northing	Size (Diameter)	Depth cm	Chance of Drum?
1	254940.93	5825919.20	1m	170	Moderate
2	254937.21	5825914.55	1m	175	Moderate
3	254921.41	5825917.92	1m	180	Moderate
4	254917.69	5825919.83	1m	170	Moderate
5	254916.12	5825921.06	1m	190	Moderate
6	254915.48	5825915.01	1m	165	Moderate
7	254904.15	5825924.02	2m	120	Moderate









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A.B.N. 77 009 550 869.

19th September 2012

Attention: Mr. Danny McDonald Cardno Lane Piper Building 2, 154 Highbury Road Burwood, Victoria 3125 GBGA Ref: 1487_A2_Letter

GEOPHYSICAL INVESTIGATION USING EM TO LOCATE BURIED DRUMS AT CFA TRAINING GROUNDS, FISKVILLE, VICTORIA.

Dear Mr. McDonald,

Cardno Lane Piper commissioned GBG Australia to undertake an electromagnetic (EM) investigation in Drum_Burial_Area_2. The area was previously surveyed by GBG Australia, however due to errors in the gridding process related to GPS dropouts the area was resurveyed. The following letter outlines the results of the survey.

EQUIPMENT

The instrument used during the survey was the GSSI EMP-400, a multi-channel Frequency-Domain Electromagnetic (FDEM) system. The three frequencies chosen for the survey were 3,000MHz, 6,000MHz and 10,000MHz, these frequencies were chosen to ensure depth of penetration was achieved and correspond to approximately six (6) meters, three (3) meters and one (1) meter respectively. DGPS data is recorded and combined with data in real time to ensure accuracy in the survey process.

RESULTS

The results of the EM investigation have been provided in drawing GBGA1487_A2.pdf. The results of the investigation have identified no additional targets related to potential buried drums.

If you require clarification on any points arising from this investigation, please do not hesitate to contact me on (02) 9890 2122.

Sincerely,

A T AL A PT LT

A E EL

Geophysicist



DRUM BURIAL - AREA 2 (REVISITED)

GBC



18 Fennell Street, North Parramatta, NSW. 2151. Tel: 9890 2122. Fax: 9890 2922. E-Mail: <u>andrew.b@gbgoz.com.au</u>.

A.B.N. 77 009 550 869.

4th April 2013

GBGA Ref: 1556

Attention: Mr. Danny McDonald Associate Environmental Geoscientist Cardno Lane Piper Building 2, 154 Highbury Road Burwood, Victoria 3125

SUBJECT: GEOPHYSICALINVESTIGATION OF POSSIBLE DRUM BURIAL AT THE CFA TRAINING COLLEGE, FISKVILLE, VICTORIA.

GBG Australia carried out a non-destructive investigation using time-domain electromagnetic induction (TEM) on the grounds of the CFA Training College in Fiskville, Victoria, on Wednesday 27th March 2013.

The objective of the investigation was to locate possible buried drums in a section of the college grounds known as the "golf course" as part of remediation efforts on the site.

The following report outlines the methodology of the investigation and discusses the results.

SITE LOCATION AND CONDITIONS

The area surveyed is located directly south of Drum Burial Area 3 (surveyed previously, see *GBGA1471_A3.pdf* and *GBGA1471_Rev Report_2.pdf* for results). The area is approximately 3,000m² and has been designated 'Drum Burial Area 3a'. Figure 1 below is an aerial image of the site outlining the investigation area.



Figure 1. Aerial image of the survey site Drum Burial Area 3a (highlighted in green). Also shown is the location of Drum Burial Area 3 (highlighted in gray hatch) Image courtesy of Google Earth (16 Aug 2012).

The area predominately consists of an open grass field. Features of the area includes:

- A large concrete cable anchor (see Figure 2a below).
- A drainage ditch runs across part of the site (see Figure 2b below).
- A large patch of sand centred on the golf flag. Two grass mounts are located on its perimeter (see Figure 2c below).
- Raised section of grass serving as a golf tee (see Figure 2d below).



Figure 2. Major features of the Drum Burial Area 3a including: a) concrete cable anchor, b) drainage ditch, c) golf hole & surrounding mounds and d) raised golf tee.

DATA COLLECTION

Data was collected using a time-domain electromagnetic induction (TEM) system. For more information about the TEM method, please refer to Appendix A.

The survey was undertaken using an EM61-MK2 with 1m x 0.5m sensor coils (Figure 2) that transmits a primary electromagnetic field and records up to four time-gates of secondary electromagnetic field in millivolts (mV). The sensor was mounted on a cart and pulled by hand at walking pace in lines one (1) metre apart to ensure full coverage of the site. The sensor was configured to record five (5) readings every second.

Spatial position of the TEM data was recorded by an attached Differential Global Positioning System (DGPS) receiver with each reading having associated positional information with an accuracy of less than 1m. Both the TEM and DGPS data were combined and recorded using the EM61MK2 collection software on a field recorder by the field geophysicist.



Figure 2. EM61-MK2 set up as as a cart.

DATA PROCESSING & ANALYSIS

Processing and analysis of collected data was undertaken in a number of steps:

- 1. Raw data was converted from binary format to ascii format.
- 2. The Converted data was combined with GPS data, analysed and corrected for any errors.
- 3. GPS corrected data was then gridded.
- 4. Parts of the gridded data were blanked out so as to clip areas not surveyed.
- 5. Colour range and scale were altered to better highlight detected anomalies.

The first two steps were undertaken in the Geonics program DAT61MK2, while the last three steps were undertaken in the Golden Software program Surfer. The result of these steps was a colour contour image which shows changes in conductivity over the entire area.

RESULTS & DISCUSSION

The results of the investigation have been provided in the drawing GBGA1556-A3a. The drawing contains two (2) aerial images of the surveyed area overlaid with two (2) colour contour maps of the collected data. The drawing is geo-referenced using GDA94 UTM Zone 55 datum.

The image on the right is the gridded response of the D3 component which shows the responses of the deeper objects, while the image on the right is the gridded response of the Top (Differential) component (background variations removed) and hence shows only anomalies. A number targets (labelled 1 to 15) were identified throughout the area.

Most targets identified are discrete anomalies (nearest anomaly greater than five (5) meters away). Due to the higher responses compared to the background, most targets represent potential buried drums. Comparison of these high conductivity responses from Channel D3 with the standard response curve from a 55 Gallon Steel drum suggest that these anomalies are between 1.5m and 2m below the surface. The standard response curve can be seen in Appendix B, it should be noted that these depths assume the target anomaly is a 55 gallon steel drum buried in a vertical position.

Target 15 is a large, abnormally high response and is typically indicative of surface metal. As such it is believed that this target is the result of scrap metal on or near the surface.

An area of concentrated high conductivity anomalies can be found in the eastern end of the survey area. Targets 7, 9, 10, 11, 13, 14 are found within this area. Based on previous work on site, the concentrated nature of these anomalies suggests the presence of a large amount of buried metallic material, potentially drums.

The location of each target, the estimated depth, size and likelihood of drum is summed up in Table 1 below.

ID	Easting	Northing	Size (Diameter)	Approx. Depth mm	Chance of Drum?
1	254899.91	5825883.99	1m	1800-2000	Moderate
2	254900.98	5825887.50	1m	1800-2000	Moderate
3	254905.86	5825891.01	1m	1800-2000	Low
4	254914.54	5825881.25	2m	1800-2000	Moderate
5	254927.35	5825869.36	2m	1800-2000	Moderate
6	254932.22	5825880.18	2m	1800-2000	Moderate
7	254940.15	5825874.55	3m	1500-1800	High
8	254941.52	5825866.32	2m	1800-2000	Moderate
9	254942.89	5825872.11	3m	1500-1800	High
10	254946.40	5825875.61	3m	<1500	High
11	254948.53	5825873.78	3m	<1500	High
12	254952.80	5825862.20	1m	1800-2000	Low
13	254952.95	5825874.24	2m	1500-1800	High
14	254954.78	5825871.19	3m	1500-1800	High

Table 1. Target Location Characteristics

15	254958.89	5825883.39	5m	<1500	Low
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CONCLUSIONS

- An EM61 survey was conducted on site Drum Burial Area 3a, located on the "golf course" at CFA Training College, Fiskville. The purpose of which was to locate any buried drums.
- The site was found to contain fifteen (15) anomalies consistent with potential buried drums. The location and GPS coordinates of these anomalies can be found in this report and on drawing GBGA1556_A3a.pdf.
- A concentrated area of anomalies was found in the eastern section of the survey area. This concentrated area could represent an area of buried metallic material, including possible buried drums.

I hope that this provides you with the information required. If you require clarification on any points arising from this investigation please contact me on (02) 9890 2122.

For and on behalf of GBG AUSTRALIA PTY LTD

ANDREW BUCHEL Geophysicist – B.Sc. (Hons)

APPENDIX A: TEM METHOD

Theory

Time Domain Electro-Magnetic (TEM) surveying uses the principle of electromagnetic induction to measure changes in the electrical conductivity of the subsurface. Time-Domain Electro-Magnetics (TEM) is sensitive to variations in the electrical conductivity of the subsurface. This is influenced by bulk variations in the subsurface porosity and permeability, and degree of saturation, as well as discrete variations due to buried metallic objects.

A primary electric current is passed through a transmitting coil and a produces a primary magnetic field in the space surrounding the coil including the subsurface. When the current is switched off, the magnetic field induces a turbulent electric current (eddy currents) in the ground and in nearby buried conductors. These currents decay with time and cause a decaying secondary magnetic field at the surface. Measurement of the rate of decay of the secondary magnetic field provides variation of conductivity with depth and a means of detecting buried conductive bodies.



Figures. A) Collecting TEM data with the EM61and B) Sample of processed data.

Limitations

- 1) The response from the drum measured by EM61 is classified as an anomaly only if the signal from the drum is more than background signal.
- 2) Noise (background and instrumental) can act as a dampener and therefore limits data resolution and depth of data acquisition.
- 3) Any significant contact at the surface will mark response from greater depths and hence limit resolution of data.
- 4) External metallic objects like radios, generators, power transmission lines, transportation infrastructure, and electromagnetic devices can affect the input signal.
- 5) Highly conductive soils can limit the effective penetration of these instruments.
- 6) While determining the size and depth of the drum, orientation is not taken into account; therefore the drum can be horizontal, vertical or inclined.
- The depth of drum is determined using depth vs. intensity graphs and is an approximation, these depths are only valid if the target anomaly is a 55 gallon steel drum buried vertically.


APPENDIX B: Standard Response Curve for a 55 Gallon Steel Drum



Appendix F 217 Pages

Laboratory Reports & Chain of Custody Records

Chain of Custody Records EM1210519 EM1223327 EM1303970 376257 Data Quality Validation Report





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Revision 2 Approved 3 May 2011

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In accordance with your acceptance of our standard or customised Terms of Agreement between Cardno Lane Piper Pty Ltd and Service or Equipment Providers

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Revision 2 Approved 3 May 2011

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Sheet 5 of 3

Name: Maria Delos Reyes Phone: 03 9888 0100 Fax: 03 9808 3511	Mobile: 0424	278497		Sample Mal	rix	ample preservation		Analysis
Address: Building 2, 154 Highbury Rd, Burwo	ood, Vic, 3125	12.51						
Email: maria.	delosreyes@c	ardno.com.au						
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Revision 2 Approved 3 May 2011

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Please supply results electronically in spreadsheet and ESDAFAIles Turn around time: (24 hour/48 hour/5 days)

In accordance with your acceptance of our standard or customised Terms of Agreement

between Cardno Lane Piper Pty Ltd and Service or Equipment Providers

Revision 2 Approved 3 May 2011

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Raymond Thai

From: Sent: To: Subject: Sarah Hodgson Wednesday, 12 September 2012 11:01 AM Samples Melbourne Cardno Lane Piper: 212163.1 COC with Analysis

Hello,

Please find attached COC for samples received yesterday, and for some more coming today, from Cardno Lane Piper on HOLD.

Please let me know if there are any issues with these samples.

Regards,

How was your customer experience? Please send us your feedback

Sarah Hodgson

PROJECT MANAGER

ALS | Environmental Address 4 Westall Road Springvale VIC 3171 www.alsglobal.com

PHONE +61 3 8549 9600 FAX +61 3 8549 9601

Winner of the inaugural CARE Award 2011 - Sustainable Technology & Innovation: Reduction in Sample Volumes - Improving quality, safety, efficiency and sustainability in environmental practices



www.alsglobal.com

From: Maria De los Reyes (Cardno LP) [mailto:Maria.DelosReyes@cardno.com.au] Sent: Wednesday, 12 September 2012 10:50 AM To: Sarah Hodgson Subject: 212163.1 COC with Analysis

Hi Sarah,

I sent an Esky to ALS yesterday, with all the samples on HOLD. Here are the COCs with the analysis.

There is also another ESKY coming in today from the same project. The COC will be attached to this email and you should also have a hard copy of it.

Thanks

Regards

Maria De los Reyes ENVIRONMENTAL SCIENTIST CARDNO LANE PIPER



Phone +61 3 9888 0100 Fax +61 3 9808 3511 Direct +61 3 9831 6139 Address Bldg 2, 154 Highbury Road, Burwood, Victoria 3125 Australia Email <u>Maria.DelosReyes@cardno.com.au</u> Web <u>www.lanepiper.com.au</u> This email and its attachments may contain confidential and/or privileged information for the sole use of the intended recipient(s). All electronically supplied data must be checked against an applicable hardcopy version which shall be the only document which Cardno warrants accuracy. If you are not the intended recipient, any use, distribution or copying of the information contained in this email and its attachments is strictly prohibited. If you have received this email in error, please email the sender by replying to this message and immediately delete and destroy any copies of this email and any attachments. The views or opinions expressed are the author's own and may not reflect the views or opinions of Cardno.

ALS Group: Click here to report this email as spam.

RE: Your Reference : 212163 1. Deliverables for ALSE Workorder : EM1210519

Maria De los Reyes (Cardno LP) Sent:Sunday, 30 September 2012 1:44 PM To: crem@alsglobal.com

Hi Sarah,

Once again my apoligies, but we also need to rename these samples as the following.

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Regards

Maria

From: alse.melbourne.aus@als.com.au [alse.melbourne.aus@als.com.au]
Sent: Tuesday, 18 September 2012 7:31 PM
To: Maria De los Reyes (Cardno LP)
Subject: Your Reference : 212163 1. Deliverables for ALSE Workorder : EM1210519

This e-mail has been automatically generated. -- PLEASE DO NOT REPLY --

ALS acknowledges the risks associated with supplying electronic media reports based on client requirements. This type of format has the ability to embed viruses within the code and, as such, ALS has introduced a three tier layer of protection throughout their company resources. However, ALS cannot guarantee any attachment is virus free and will not be held liable for any disruption to business. It is highly recommended that all attachments received are scanned prior to opening.

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Revision 3 Approved 3 Jan 2013

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Raymond Thai

From: Sent: To: Cc: Subject: Carol Walsh Friday, 19 April 2013 9:19 AM Samples Melbourne Peter Ravlic ISSUES: EM1303970 - FISKVILLE - LANECON

Please see responses below from Maria at Cardno about issues with EM1303970.

See my queries to her below and her responses to these queries.

Kind Regards

Carol Walsh

Senior Client Services Officer ALS | Environmental Division

4 Westall Rd Springvale, VIC. 3171 Australia

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From: Maria De los Reyes (Cardno LP) [mailto:Maria.DelosReyes@cardno.com.au] Sent: Friday, 19 April 2013 9:13 AM To: Carol Walsh Subject: RE: EM1303970 - FISKVILLE - LANECON

Hi Carol,

In regards to your email.

- Please just not samples was not received on COC, it should be ok as an analysis was not requested for these samples,
- 2. Yea please keep them on hold.
- 3. QC07 and QC08 should be 12/04/13
- 4. And yes that should be correct.

Thanks Carol.

hain

Has analysis already begun, and if so when will we expect results so I can update my PM.

Regards

Maria De los Reyes ENVIRONMENTAL SCIENTIST CARDNO LANE PIPER



Shaping the Future

Phone +61 3 9888 0100 Fax +61 3 9808 3511 Direct +61 3 9831 6139 Address Bldg 2, 154 Highbury Road, Burwood, Victoria 3125 Australia Email Maria.DelosReyes@cardno.com.au Web www.cardno.com Web www.lanepiper.com.au

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From: Carol Walsh [mailto:Carol.Walsh@alsglobal.com] Sent: Thursday, 18 April 2013 3:31 PM To: Maria De los Reyes (Cardno LP) Cc: Samples Melbourne Subject: FW: EM1303970 - FISKVILLE - LANECON

Hi Maria

There were few issues with this attached work order - EM1303970.

Please review items below and respond at your earliest convenience.

1. Did not receive samples for TP-A3a-09/0.6 and TP-A3a-15/0.1 (indicated on the COC)

2. Received extra samples labelled as, TP-A3a-02/0.4, TP-A1-30/0.9, TP-A3a-7/0.6 and TP-A1-34/0.6. These have been added to the COC as sample 92,93,94, 95 and are currently on hold. Please advise if any analysis is required on these samples.

3.Sampling dates for sample 83 (QC07/120412)and 84 (QC08/120413) on the jars were 11/04/13. On COC it was 12/04/13. Please confirm sampling date.

4. Sample 19, jar was labelled as TP-A1-35/0.1. But lid was labelled as TP-A1-35/0.5. As we received correctly labelled (both lid and jar) sample for sample 18, which was TP-A1-35/0.1 assumed lid ID as the correct ID for sample number 19.

Kind Regards

Carol Walsh

Senior Client Services Officer ALS | Environmental Division

4 Westall Rd Springvale, VIC. 3171 Australia

How was your customer experience? Please send us your feedback

いて 5 of 2:11 84 2 Report: 376257 me = SPACI Time COURIER Analysis 18/4/13 T Chan X 12/54/13 X X 4 Þ \$ S-G-13 2072 201 Date 10H Date: son man >Sampler name: (print and signature) MARCIA DEUCS RAUED): Time Received by (Counier/Lab): (print and signature) STELAW (εr) EFIMER tony w Sample preservation Received by: (print and signature) Received by: (print and signature) M X 4 CE BRICK? + N+30 Sample Matrix artic × X me 205 24 18/04/13 8 1817 +2 victs Amber w/v+/10 Date Time CCVCC/ 100415 K2-101- Ambez -101/14 islay [12 2 101 13 Sampling CI/HO/II Date Please circle P P P mat with いやい Sel JAM SULLJAR Container Turn around time: (24 hour/48 hour/3 days/5 days) Þ Solu Please supply results electronically in spreadsheet and ESDAT files. Phone: 03 9888 0100 Fax: 03 9808 3511 Mobile: 0424278497 Site: Fiskville Laboratory ID 13A Address: Building 2, 154 Highbury Rd, Burwood, Vic, 3125 -aboratory (name, phone, fax no & contact person) PM Email: Maria.delosreyes@cardno.com.au TP - 430 -16/1.84 2 78-430-1610.9 DE LOS SEGES 79- 930-1610.54 Chain of Custody 514021 120413 SI NOUL (S 120413 VIDO II elinquished by (Sampler): (print and signature) SUPO-CI TP - A30- 16 / 0.1 CD Cardno 110413 1 110413 and signature) 40:33 1,041 PM Name: Danny Mcddonald Project Number: 212163.3 linquished by: (print and signature) Sample ID 0003-1 QC07 Q COS D C C C acel nquished by: (print 1000 0 C C C 0000 2006 MARIA T

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Eric Chau Metals Team Leader Melbourne Inorganics Nancy Wang Senior Semivolatile Instrument Chemist Melbourne Organics	Wetals Team Leader Metals Team Leader Melbourne Inorganics Nancy Wang Senior Semivolatile Instrument Chemist Melbourne Organics	Eric Chau Metals Team Leader Melbourne Inorganics Word RECOONISED Nancy Wang Senior Semivolatile Instrument Chemist Melbourne Organics ACREDITATION Melbourne Organics Part of the ALS Laboratory Group	Eric Chau Metals Team Leader Melbourne Inorganics Wond Reconnist Melbourne Organics Moncy Wang Senior Semivolatile Instrument Chemist Melbourne Organics Moncy Wang Senior Semivolatile Instrument Chemist Melbourne Organics Accentration Instrument Chemist Melbourne Organics Part of the ALS Laboratory Instrument Chemist Melbourne Organics 14.463-889 9600 Fxx: Instrument Chemist Melbourne Organics	NATA	Accredited for compliance with ISO/IEC 17025.	carried out in compliance with proci Signatories	edures specified in 21 CFR Part 11 <i>Position</i>		Accreditation Category
AVAGENTATION		Environmental Division Melbourne Part of the ALS Laboratory Group	Environmental Division Melbourne Part of the ALS Laboratory Group 4 Westalik Springvale VIC Australia 3171 Tel. +61-3-849 9601 Fax. +61-35849 Fax. +61-			Eric Chau Nancy Wang	Metals Team Leader Senior Semivolatile Ins	strument Chemist	Melbourne Inorganics Melbourne Organics

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General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. LOR = Limit of reporting Key:

 A = This result is computed from individual analyte detections at or above the level of reporting

- EP075: EM1210519-011 Particular sample required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly.
- EP075: 'Sum of PAH' is the sum of the USEPA 16 priority PAHs

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Analytical Results

Sub-Matrix: SOIL		Clie	nt sample ID	TPA1.1/1.0	TPA1.2/0.5	TPA1.3/0.8	TPA1.4/1.0	TPA1.5/1.5
	Clie	ent samplin	ig date / time	07-SEP-2012 15:00				
Compound	CAS Number	LOR	Unit	EM1210519-006	EM1210519-008	EM1210519-011	EM1210519-013	EM1210519-017
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	-	1.0	%	23.4	19.9	24.8	24.1	23.2
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	
Barium	7440-39-3	10	mg/kg	20	<10	50	230	
Beryllium	7440-41-7	~	mg/kg	£	<u>۲</u>	4	2	
Cadmium	7440-43-9	~	mg/kg	⊽	<u>۲</u>	4	4	
Chromium	7440-47-3	2	mg/kg	60	39	58	63	
Cobalt	7440-48-4	2	mg/kg	4	<2	8	94	
Copper	7440-50-8	5	mg/kg	6	<5	6	11	
Lead	7439-92-1	5	mg/kg	14	12	62	10	
Manganese	7439-96-5	5	mg/kg	13	12	58	396	
Nickel	7440-02-0	2	mg/kg	10	4	15	50	
Vanadium	7440-62-2	5	mg/kg	98	148	106	73	
Zinc	7440-66-6	5	mg/kg	9	<5	17	10	
Lead	7439-92-1	5	mg/kg					10
EG035T: Total Recoverable Mercury by FIN	AS AS							
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	
EP074A: Monocyclic Aromatic Hydrocarbor	ns							
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
meta- & para-Xylene 108-	38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	-
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
p-lsopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<2	<5	<5	<5	
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	<5	<5	
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<2 ~5	<5	<5	<5	

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Sub-Matrix: SOIL		Clie	nt sample ID	TPA1.1/1.0	TPA1.2/0.5	TPA1.3/0.8	TPA1.4/1.0	TPA1.5/1.5
	Clie	ent samplin	g date / time	07-SEP-2012 15:00				
Compound	CAS Number	LOR	Unit	EM1210519-006	EM1210519-008	EM1210519-011	EM1210519-013	EM1210519-017
EP074B: Oxygenated Compounds - Continue	q							
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	<5	<5	
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	1
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	1
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	<5	<5	
Chloromethane	74-87-3	2	mg/kg	<5	<5	<5	<5	
Vinyl chloride	75-01-4	5	mg/kg	<5	<5	<5	<5	
Bromomethane	74-83-9	2	mg/kg	<5	<5	<5	<5	
Chloroethane	75-00-3	5	mg/kg	<5	<5	<5	<5	
Trichlorofluoromethane	75-69-4	2	mg/kg	<5	<5	<5	<5	
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	-
lodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	-
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	-
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	-
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	1
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	1
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	1
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	-
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	1
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	

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	Cli	ent samplin	g date / time	07-SEP-2012 15:00				
Compound	CAS Number	LOR	Unit	EM1210519-006	EM1210519-008	EM1210519-011	EM1210519-013	EM1210519-017
EP074E: Halogenated Aliphatic Compounds	- Continued							
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	
EP075A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	ł
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<1.0	<1.0	<3.0	<1.0	
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Pentachlorophenol	87-86-5	-	mg/kg	4	~	ŝ	<۲	
EP075B: Polynuclear Aromatic Hydrocarbon	IS							
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-
2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	1



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	Clien	t sampling	date / time	07-SEP-2012 15:00				
Compound CAS N	umber	LOR	Unit	EM1210519-006	EM1210519-008	EM1210519-011	EM1210519-013	EM1210519-017
EP075B: Polynuclear Aromatic Hydrocarbons - Co	ntinued							
N-2-Fluorenyl Acetamide	3-96-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Benz(a)anthracene	6-55-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Chrysene 21	8-01-9	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Benzo(b) & 205-99-2 20	7-08-9	. 	mg/kg	2	Ÿ	33	Ÿ	
Benzo(k)fluoranthene								
7.12-Dimethylbenz(a)anthracene	7-97-6	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Benzo(a)pyrene	0-32-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
3-Methylcholanthrene	6-49-5	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Indeno(1.2.3.cd)pyrene 19	3-39-5	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Dibenz(a.h)anthracene	3-70-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Benzo(g.h.i)perylene 19	1-24-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Sum of PAHs		0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
EP075C: Phthalate Esters								
Dimethyl phthalate 13	1-11-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Diethyl phthalate	4-66-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Di-n-butyl phthalate	4-74-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Butyl benzyl phthalate	5-68-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
bis(2-ethylhexyl) phthalate	7-81-7	5.0	mg/kg	<5.0	<5.0	<15.0	<5.0	-
Di-n-octylphthalate 11	7-84-0	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
EP075D: Nitrosamines								
N-Nitrosomethylethylamine 1058	5-95-6	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-
N-Nitrosodiethylamine	5-18-5	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
N-Nitrosopyrrolidine 93	0-55-2	1.0	mg/kg	<1.0	<1.0	<3.0	<1.0	
N-Nitrosomorpholine	9-89-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
N-Nitrosodi-n-propylamine 62	1-64-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
N-Nitrosopiperidine 10	0-75-4	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
N-Nitrosodibutylamine 92	4-16-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
N-Nitrosodiphenyl & 86-30-6 12	2-39-4	1.0	mg/kg	<1.0	<1.0	<3.0	<1.0	
Diphenylamine								
Methapyrilene	1-80-5	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
EP075E: Nitroaromatics and Ketones								
2-Picoline 10	9-06-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Acetophenone	8-86-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Nitrobenzene	8-95-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Isophorone 7	8-59-1	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2.6-Dinitrotoluene	6-20-2	1.0	mg/kg	<1.0	<1.0	<3.0	<1.0	

A Campbell Brothers Limited Company

rage	: 7 of 12
Work Order	: EM1210519
Client	: CARDNO LANE PIPER PTY LTD
Project	: 212163 1



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ent san	CI		Sub-Matrix: SOIL
			Analytical Results

ub-Matrix: SOIL		Clien	it sample ID	TPA1.1/1.0	TPA1.2/0.5	TPA1.3/0.8	TPA1.4/1.0	TPA1.5/1.5
	Cli	ent sampling	g date / time	07-SEP-2012 15:00				
Compound	CAS Number	LOR	Unit	EM1210519-006	EM1210519-008	EM1210519-011	EM1210519-013	EM1210519-017
EP075E: Nitroaromatics and Ketones - Contin	ned							
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg	<1.0	<1.0	<3.0	<1.0	
1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Azobenzene	103-33-3	~	mg/kg	₹	Ŷ	Ŷ	7	
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	<2.5	<7.5	<2.5	
Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	<1.0	<1.0	<3.0	<1.0	
EP075H: Anilines and Benzidines								
Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
2-Nitroaniline	88-74-4	1.0	mg/kg	<1.0	<1.0	<3.0	<1.0	
3-Nitroaniline	99-09-2	1.0	mg/kg	<1.0	<1.0	<3.0	<1.0	
Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	
Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	

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sub-Matrix: SOIL		Client sample ID	TPA1.1/1.0	TPA1.2/0.5	TPA1.3/0.8	TPA1.4/1.0	TPA1.5/1.5	
	Client sar	mpling date / time	07-SEP-2012 15:00	_				
Compound CAS Num	iber LOF	R Unit	EM1210519-006	EM1210519-008	EM1210519-011	EM1210519-013	EM1210519-017	
EP075H: Anilines and Benzidines - Continued								_
3.3"-Dichlorobenzidine 91-9	94-1 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		
EP075I: Organochlorine Pesticides								
alpha-BHC 319-8	34-6 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		
beta-BHC 319-8	35-7 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
gamma-BHC 58-8	39-9 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
delta-BHC 319-8	86-8 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Heptachlor 76-4	4-8 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Aldrin 309-0	0-2 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Heptachlor epoxide 1024-5	57-3 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
alpha-Endosulfan 959-9	38-8 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
4.4'-DDE 72-5	5-9 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Dieldrin 60-5	57-1 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Endrin 72-2	20-8 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
beta-Endosulfan 33213-6	35-9 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
4.4 ⁻ -DDD 72-5	64-8 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Endosulfan sulfate 1031-0	7-8 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-	_
4.4'-DDT 50-2	29-3 1.0	mg/kg	<1.0	<1.0	<3.0	<1.0		_
EP075J: Organophosphorus Pesticides								
Dichlorvos 62-7	3-7 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	1	
Dimethoate 60-5	61-5 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Diazinon 333-4	1-5 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Chlorpyrifos-methyl 5598-1	3-0 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
Malathion 121-7	5-5 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-	_
Fenthion 55-3	8-9 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-	_
Chlorpyrifos 2921-8	8-2 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-	_
Pirimphos-ethyl 23505-4	1-1 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-	_
Chlorfenvinphos 470-9	90-6 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-	_
Prothiofos 34643-4	6-4 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5	-	_
Ethion 563-1	2-2 0.5	mg/kg	<0.5	<0.5	<1.5	<0.5		_
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	10	mg/kg	<10	<10	<10	<10	<10	
C10 - C14 Fraction	50	mg/kg	<50	<50	<50	<50	<50	_
C15 - C28 Fraction	100	mg/kg	<100	<100	<100	<100	<100	
C29 - C36 Fraction	100	mg/kg	<100	<100	<100	<100	<100	
C10 - C36 Fraction (sum)	50	mg/kg	<50	<50	<50	<50	<50	
EP080/071: Total Recoverable Hydrocarbons - NEPM	1 2010 Draf	J.						_

A Campbell Brothers Limited Company

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Sub-Matrix: SOIL		Clie	ent sample ID	TPA1.1/1.0	TPA1.2/0.5	TPA1.3/0.8	TPA1.4/1.0	TPA1.5/1.5
	Cli	ent samplir	ng date / time	07-SEP-2012 15:00				
Compound	CAS Number	LOR	Unit	EM1210519-006	EM1210519-008	EM1210519-011	EM1210519-013	EM1210519-017
EP080/071: Total Recoverable Hydrocarb	oons - NEPM 2010	0 Draft - C	continued					
C6 - C10 Fraction		10	mg/kg	<10	<10	<10	<10	<10
C6 - C10 Fraction minus BTEX (F1)		10	mg/kg					<10
>C10 - C16 Fraction		50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction		100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction		100	mg/kg	<100	<100	<100	<100	<100
>C10 - C40 Fraction (sum)		50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEX								
Benzene	71-43-2	0.2	mg/kg					<0.2
Toluene	108-88-3	0.5	mg/kg		-	-		<0.5
Ethylbenzene	100-41-4	0.5	mg/kg					<0.5
meta- & para-Xylene 10	08-38-3 106-42-3	0.5	mg/kg		-			<0.5
ortho-Xylene	95-47-6	0.5	mg/kg					<0.5
EP080: BTEXN								
Total Xylenes	1330-20-7	0.5	mg/kg		-	-	-	<0.5
Sum of BTEX		0.2	mg/kg					<0.2
Naphthalene	91-20-3	-	mg/kg		-	1	-	-
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	78.4	84.8	81.8	80.0	ł
Toluene-D8	2037-26-5	0.1	%	72.4	89.1	89.6	87.0	
4-Bromofluorobenzene	460-00-4	0.1	%	78.9	96.4	93.5	85.9	
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.1	%	78.7	78.6	76.5	56.0	I
Phenol-d6	13127-88-3	0.1	%	79.9	77.6	77.8	54.3	I
2-Chlorophenol-D4	93951-73-6	0.1	%	78.0	77.8	78.2	55.5	I
2.4.6-Tribromophenol	118-79-6	0.1	%	104	86.3	78.3	54.2	
EP075T: Base/Neutral Extractable Surrog	gates							
Nitrobenzene-D5	4165-60-0	0.1	%	77.2	75.9	72.9	55.1	
1.2-Dichlorobenzene-D4	2199-69-1	0.1	%	65.7	67.4	68.7	49.7	
2-Fluorobiphenyl	321-60-8	0.1	%	81.2	77.8	76.1	56.6	
Anthracene-d10	1719-06-8	0.1	%	106	87.8	85.6	64.3	
4-Terphenyl-d14	1718-51-0	0.1	%	104	86.5	81.1	62.6	
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	81.9	88.5	85.4	83.5	82.8
Toluene-D8	2037-26-5	0.1	%	72.4	79.7	80.2	78.0	90.8
4-Bromofluorobenzene	460-00-4	0.1	%	76.0	83.8	82.7	83.0	106



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SOIL
Sub-Matrix:

Sub-Matrix: SOIL		Clie	ent sample ID	TPA1.12/0.5	TPA1.13/1.0	TPA2.1/1.5	BH2A/0.5	QC01/07092012
	CI	ient samplir	ng date / time	07-SEP-2012 15:00				
Compound	CAS Number	LOR	Unit	EM1210519-018	EM1210519-022	EM1210519-026	EM1210519-027	EM1210519-030
EA055: Moisture Content								
Moisture Content (dried @ 103°C)		1.0	%	19.4	20.1	27.8	28.9	22.2
EG005T: Total Metals by ICP-AES								
Lead	7439-92-1	5	mg/kg	21	12	12	12	18
EP080/071: Total Petroleum Hydrocarbon	IS							
C6 - C9 Fraction		10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction		50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction		100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction		100	mg/kg	<100	<100	<100	<100	<100
C10 - C36 Fraction (sum)		50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarb	ons - NEPM 201	0 Draft						
C6 - C10 Fraction	1	10	mg/kg	<10	<10	<10	<10	<10
C6 - C10 Fraction minus BTEX (F1)		10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction		50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction		100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction		100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)		50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEX								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene 10	38-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP080: BTEXN								
Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of BTEX		0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	91-20-3	٦	mg/kg	<1	~	4	4	<1
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	76.8	72.5	79.9	92.0	71.6
Toluene-D8	2037-26-5	0.1	%	81.1	78.3	87.3	99.7	78.4
4-Bromofluorobenzene	460-00-4	0.1	%	95.4	89.7	9.66	115	87.6





o-Matrix:	SOIL	
Sut	Sub-Matrix:	

Sub-Matrix: SOIL		Clie	nt sample ID	QC02/07092012	 	-	
	Cli	ent samplin	g date / time	07-SEP-2012 15:00	 		
Compound	CAS Number	LOR	Unit	EM1210519-031	 		
EA055: Moisture Content							
Moisture Content (dried @ 103°C)		1.0	%	24.0	 		
EG005T: Total Metals by ICP-AES							
Lead	7439-92-1	5	mg/kg	15	 		
EP080/071: Total Petroleum Hydrocarbon	ls						
C6 - C9 Fraction		10	mg/kg	<10	 		
C10 - C14 Fraction		50	mg/kg	<50	 		
C15 - C28 Fraction		100	mg/kg	<100	 	-	
C29 - C36 Fraction		100	mg/kg	<100	 		
C10 - C36 Fraction (sum)		50	mg/kg	<50	 	-	
EP080/071: Total Recoverable Hydrocarb	ons - NEPM 201	0 Draft					
C6 - C10 Fraction		10	mg/kg	<10	 		
C6 - C10 Fraction minus BTEX (F1)		10	mg/kg	<10	 		
>C10 - C16 Fraction		50	mg/kg	<50	 		
>C16 - C34 Fraction		100	mg/kg	<100	 	-	
>C34 - C40 Fraction		100	mg/kg	<100	 		
C10 - C40 Fraction (sum)		50	mg/kg	<50	 		
EP080: BTEX					•		
Benzene	71-43-2	0.2	mg/kg	<0.2	 		
Toluene	108-88-3	0.5	mg/kg	<0.5	 		
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	 		
meta- & para-Xylene 10	08-38-3 106-42-3	0.5	mg/kg	<0.5	 		
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	 		
EP080: BTEXN							
Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	 		
^A Sum of BTEX		0.2	mg/kg	<0.2	 		
Naphthalene	91-20-3	1	mg/kg	~	 		
EP080S: TPH(V)/BTEX Surrogates							
1.2-Dichloroethane-D4	17060-07-0	0.1	%	70.4	 		
Toluene-D8	2037-26-5	0.1	%	76.9	 		
4-Bromofluorobenzene	460-00-4	0.1	%	87.1	 		





Surrogate Control Limits

)				
Sub-Matrix: SOIL		Recovery I	-imits (%)	
Compound	CAS Number	Том	High	
EP074S: VOC Surrogates				
1.2-Dichloroethane-D4	17060-07-0	62	122	
Toluene-D8	2037-26-5	64	120	
4-Bromofluorobenzene	460-00-4	66	124	
EP075S: Acid Extractable Surrogates				
2-Fluorophenol	367-12-4	41	126	
Phenol-d6	13127-88-3	12.2	122	
2-Chlorophenol-D4	93951-73-6	14.2	127	
2.4.6-Tribromophenol	118-79-6	12.4	133	
EP075T: Base/Neutral Extractable Surrogates				
Nitrobenzene-D5	4165-60-0	12.4	128	
1.2-Dichlorobenzene-D4	2199-69-1	11.6	108	
2-Fluorobiphenyl	321-60-8	18.7	127	
Anthracene-d10	1719-06-8	28.5	142	
4-Terphenyl-d14	1718-51-0	25.8	138	
EP080S: TPH(V)/BTEX Surrogates				
1.2-Dichloroethane-D4	17060-07-0	57	129	
Toluene-D8	2037-26-5	58	120	
4-Bromofluorobenzene	460-00-4	56	126	


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Clerk Carbon LANE PRER FY LTD Laboratory S Environmental Division MeBourne Contact : is WMAIA DE LOS REYES Contact : Smath Hodgson Contact : is WMAIA DE LOS REYES Contact : Smath Hodgson Dir WOOD VC. AUSTRALLA 3125 Email : smath Hodgson : smath Hodgson Email : imanta delos reyes @lane/per com au : if indo 38880100 : smath Hodgson@alsenviro.com File : if i 03 98880100 Email : smath Hodgson@alsenviro.com Prefice : : if i 03 98880100 : if i 03 98880100 : if i 03 98880100 Prefice : : : if i 03 98880100 : if i 03 9889100 : if i 03 9889100 Prefice : : : : : : : : : : : : : : : : : : :	Work Order	: EM1210519		Page	: 1 of 19	
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Project :2121631 OC Level INEM 1999 Schedule B(3) and ALS OCS3 requirement Site : Fiskville : Instville : Instville : Instville Site : Fiskville : Instville : Instville : Instruction Site : Instville : Instruction : Instruction : Instruction : Instruction Grode number : Instruction : Instruction : Instruction : Instruction : Instruction : Instruction Condernumber : Instruction : Instructin : In	E-mail Telephone Facsimile	: maria.delosreyes@lanepi : +61 03 98880100 : +61 03 98083511	iper.com.au	E-mail Telephone Facsimile	: sarah.hodgson@alsen : 03 8549 9652 : 03 8549 9626	viro.com
Octoor Traxue Concounter Insumption 10-SEP-2012 Sampler MDLR Issue Date 18-SEP-2012 Corden number ME44112 No. of samples received 34 Outen number ME44112 No. of samples received 34 Date number ME40000 Me1000000000000000000000000000000000000	Project	: 212163 1 Eistering		QC Level	: NEPM 1999 Schedule	B(3) and ALS QCS3 requirement
Oute number Mo. of samples received :34 Oute number ME/441/12 No. of samples analysed :11 This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approverelease. No. of samples analysed :11 This Quality Control Report contains the following information: Isomotion and taboratory buplicate (DUP) Report; Recovery and Acceptance Limits No. of samples of this report have been checked and approverelease. No. of samples of this report have been checked and approverelease. In this Quality Control Report; Recovery and Acceptance Limits Isomotion: Isomotion: Isomotion: In this and Laboratory Duplicate (DUP) Report; Recovery and Acceptance Limits Isomotion: Isomotion: Isomotion: In this control Report; Recovery and Acceptance Limits Isomotion: Isomotion: Isomotion: Isomotion: In this reference (RPD) and Acceptance Limits Isomotion: Isomotion: Isomotion: Isomotion: Isomotion: In this reference (INS) Report; Recovery and Acceptance Limits Isomotion: Isomotion: <t< td=""><td>Site C-O-C number Sampler</td><td>: FISKVIIIE : : MDLR</td><td></td><td>Date Samples Received Issue Date</td><td>: 10-SEP-2012 : 18-SEP-2012</td><td></td></t<>	Site C-O-C number Sampler	: FISKVIIIE : : MDLR		Date Samples Received Issue Date	: 10-SEP-2012 : 18-SEP-2012	
This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approver release. This Quality Control Report contains the following information: • Laboratory Duplicate (DUP) Report, Relative Percentage Difference (RPD) and Acceptance Limits • Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits • Matrix Spike (MS) Report; Recovery and Acceptance Limits • Matrix Report; Recovery and Acceptance Limits • Matrix Report Report Report; Recovery and Acceptance Limits	Quote number	: : ME/441/12		No. of samples received No. of samples analysed	34 11	
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Eric Chau Metals Team Leader Melbourne Inorganics Nancy Wang Senior Semivolatile Instrument Chemist Melbourne Organics	VATA	NATA Accredited Laboratory 825 Accredited for compliance with ISO/IEC 17025.	Signatories This document has been electronic carried out in compliance with procedure Signatories	cally signed by the auth ss specified in 21 CFR Part 11 <i>Position</i>	orized signatories indica .	ited below. Electronic signing has ccreditation Category
			Eric Chau Nancy Wang	Metals Team Leader Senior Semivolatile Ins	M strument Chemist M	lelbourne Inorganics lelbourne Organics

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General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot RPD = Relative Percentage Difference LOR = Limit of reporting # = Indicates failed QC Key:



Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR:-No Limit; Result between 10 and 20 times LOR:- 0% - 50%; Result > 20 times LOR:- 0% - 20%.

Sub-Matrix: SOIL						Laboratory	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EA055: Moisture Con	tent (QC Lot: 2497419)								
EM1210439-026	Anonymous	EA055-103: Moisture Content (dried @ 103°C)		1.0	%	15.4	16.3	5.4	0% - 50%
EM1210519-008	TPA1.2/0.5	EA055-103: Moisture Content (dried @ 103°C)		1.0	%	19.9	15.7	23.6	0% - 50%
EG005T: Total Metals	by ICP-AES (QC Lot: 2498	8206)							
EM1210519-006	TPA1.1/1.0	EG005T: Beryllium	7440-41-7	-	mg/kg	-	-	0.0	No Limit
		EG005T: Cadmium	7440-43-9	-	mg/kg	۲,	2	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	20	30	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	60	72	18.4	0% - 20%
		EG005T: Cobalt	7440-48-4	2	mg/kg	4	4	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	10	12	16.7	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	0	10	14.9	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	14	16	7.3	No Limit
		EG005T: Manganese	7439-96-5	2	mg/kg	13	15	16.6	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	98	110	11.1	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	9	7	17.8	No Limit
EM1210624-003	Anonymous	EG005T: Beryllium	7440-41-7	-	mg/kg	Ŷ	2	0.0	No Limit
		EG005T: Cadmium	7440-43-9	-	mg/kg	Ŷ	Ŷ	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	06	06	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	32	28	14.2	0% - 20%
		EG005T: Cobalt	7440-48-4	2	mg/kg	25	19	27.3	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	75	76	0.0	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	82	86	4.5	0% - 20%
		EG005T: Lead	7439-92-1	5	mg/kg	28	27	4.9	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	520	430	18.8	0% - 20%
		EG005T: Vanadium	7440-62-2	5	mg/kg	29	24	20.6	No Limit
		EG005T: Zinc	7440-66-6	2	mg/kg	139	140	0.0	0% - 20%
EG035T: Total Recov	verable Mercury by FIMS (0	QC Lot: 2498207)							
EM1210519-006	TPA1.1/1.0	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM1210624-003	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic	Aromatic Hydrocarbons (C	QC Lot: 2496929)							
EM1210519-006	TPA1.1/1.0	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: SOIL <i>Laboratory sample ID Client sample ID Me</i> EP074A: Monocyclic Aromatic Hydrocarbons (QC L EM1210519-006 TPA1.1/1.0 EP EV1210519-006 TPA1.1/1.0 EP EP074B: Oxygenated Compounds (QC Lot: 2496929) EP074D: Funigants (QC Lot: 2496929) EM1210519-006 EP074D: Funigants (QC Lot: 2496929) EP EP074E: Halogenated TPA1.1/1.0 EP EP074E: Halogenated TPA1.1/1.0 EP EP074E: Halogenated Conpounds CC Lot: 2496929) EP074E: Halogenated TPA1.1/1.0 EP EP074E: Halogenated TPA1.1/1.0 EP	Method: Compound C Lot: 2496929) - continued EP074: meta- & para-Xylene EP074: ortho-Xylene EP074: ortho-Xylene EP074: lsopropylbenzene EP074: n-Propylbenzene EP074: 1.3.5-Trimethylbenzene EP074: p-lsopropyltoluene EP074: p-lsopropyltoluene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: 2-Butanone (MEK) EP074: 2-Butanone (MEK)	CAS Number L 108-38-3 108-38-3 106-42-5 98-92-8 98-82-8 100-42-5 100-42-5 98-82-8 103-65-1 103-65-1 103-65-1 103-65-6 98-96-6 98-97-6 99-87-6 104-51-8	A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Unit mg/kg mg/kg mg/kg mg/kg mg/kg	Laboratory L Original Result	Duplicate (DUP) Report Duplicate Result	t BDJ (%)	
EP074A: Monocyclic Aromatic Hydrocarbons (QC Ld Edoratory sample ID Main Laboratory sample ID Client sample ID Main EP074A: Monocyclic Aromatic Hydrocarbons (QC Ld Edorator) EP EP EM1210519-006 TPA1.1/1.0 EP EP EP074B: Oxygenated Compounds (QC Lot: 2496929) EP EP EP074B: Oxygenated Compounds (QC Lot: 2496929) EP EP EM1210519-006 TPA1.1/1.0 EP EP EP074E: Halogenated AD EP EP EP074E: Halogenated AD EP EP <th>Method: Compound C Lot: 2496929) - continued EP074: meta- & para-Xylene EP074: styrene EP074: styrene EP074: lsopropylbenzene EP074: n-Propylbenzene EP074: 1.3.5-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 2-Butylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 2-Butanone (MEK)</th> <th>CAS Number L 108-38-3 106-42-3 106-42-5 95-47-6 98-82-8 103-65-1 103-65-1 108-67-8 95-63-6 98-06-6 98-06-6 99-87-6 104-51-8</th> <th>A C C C C C C C C C C C C C C C C C C C</th> <th>Unit mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg</th> <th>Original Result</th> <th>Duplicate Result</th> <th>(%) uaa</th> <th></th>	Method: Compound C Lot: 2496929) - continued EP074: meta- & para-Xylene EP074: styrene EP074: styrene EP074: lsopropylbenzene EP074: n-Propylbenzene EP074: 1.3.5-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 2-Butylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 2-Butanone (MEK)	CAS Number L 108-38-3 106-42-3 106-42-5 95-47-6 98-82-8 103-65-1 103-65-1 108-67-8 95-63-6 98-06-6 98-06-6 99-87-6 104-51-8	A C C C C C C C C C C C C C C C C C C C	Unit mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Original Result	Duplicate Result	(%) u aa	
EM1210519-006 TPA1.1/1.0 Mat EM1210519-006 TPA1.1/1.0 EP EM1210519-006 TPA1.1/1.0 EP EP074B: Oxygenated Compounds (QC Lot: 2496929) EP EP074C: Sulfonated Compounds (QC Lot: 2496929) EP EP074D: Funigants (QC Lot: 2496929) EP EN1210519-006 TPA1.1/1.0 EP EP074D: Funigants (QC Lot: 2496929) EP EP074D: Funigants (QC Lot: 24969	Method: Compound EP074: meta- & para-Xylene EP074: Styrene EP074: styrene EP074: lsopropylbenzene EP074: n-Propylbenzene EP074: 1.3.5-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: p-lsopropyltoluene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: 2-Butylbenzene EP074: Vinyl Acetate EP074: Vinyl Acetate EP074: Vinyl Acetate EP074: 2-Butanone (MEK) EP074: 1-Methyl-2-pentanone (MIBK)	108-38-3 108-38-3 106-42-3 106-42-5 100-42-5 95-47-6 98-82-8 103-65-1 103-65-1 103-65-1 135-98-8 95-63-6 98-06-6 99-87-6 104-51-8 104-51-8	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/kg mg/kg mg/kg mg/kg mg/kg	Original Result	Duplicate Result		Decomposite in the 10/1
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EP074B: Oxygenated Compounds (QC Lot: 2496929 EP EP EM1210519-006 TPA1.1/1.0 EP EP074D: Sulfonated Compounds (QC Lot: 2496929 EP074D: Sulfonated Compounds (QC Lot: 2496929) EP074D: Sulfonated Compounds (QC Lot: 2496929) EP074D: Sulfonated Compounds (QC Lot: 2496929) EP074D: Fumigants (QC Lot: 2496929) EP EM1210519-006 TPA1.1/1.0 EP	EP074: Isopropylbenzene EP074: Isopropylbenzene EP074: 1.3.5-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: N-Butylbenzene EP074: Vinyl Acetate EP074: Vinyl Acetate EP074: 2-Butanone (MEK) EP074: 4-Methyl-2-pentanone (MIBK)	98-82-8 103-65-1 108-67-8 135-98-8 95-63-6 98-06-6 99-87-6 104-51-8	۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳	mg/kg mg/kg mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 2496929 EP EP EM1210519-006 TPA1.1/1.0 EP EP EP EP EP074C: Sulfonated Compounds (QC Lot: 2496929) EP EP EP EP074C: Sulfonated Compounds (QC Lot: 2496929) EP074C: Sulfonated Compounds (QC Lot: 2496929) EM1210519-006 TPA1.1/1.0 EP	EP074: n-Propylbenzene EP074: 1.3.5-Timethylbenzene EP074: 1.3.5-Timethylbenzene EP074: 1.2.4-Trimethylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: N-Butylbenzene EP074: Vinyl Acetate EP074: Vinyl Acetate EP074: Vinyl Acetate EP074: 2-Butanone (MEK)	103-65-1 108-67-8 105-69-8 95-63-6 98-06-6 99-87-6 104-51-8	2000 2000 2000 2000 2000 2000 2000 200	mg/kg mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 2496929 EP1210519-006 TPA1.1/1.0 EP EP074B: Oxygenated Compounds (QC Lot: 2496929) EP074C: Sulfonated Compounds (QC Lot: 2496929) EP074D: Fumigants (QC Lot: 2496929) EP EP074E: Halogenated TPA1.1/1.0 EP EP074E: Halogenated TPA1.1/1.0 EP EP074E: Halogenated TPA1.1/1.0 EP	EP074: 1.3.5-Trimethylbenzene EP074: sec-Butylbenzene EP074: 1.2.4-Trimethylbenzene EP074: tert-Butylbenzene EP074: n-Butylbenzene EP074: n-Butylbenzene EP074: Vinyl Acetate EP074: Vinyl Acetate EP074: 4-Methyl-2-pentanone (MIBK)	108-67-8 135-98-8 95-63-6 98-06-6 99-87-6 104-51-8	۳ ۲ ۲ ۲ ۲ ۲ 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	mg/kg mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 2496929) EP074B: Oxygenated Compounds (QC Lot: 2496929) EP074C: Sulfonated TPA1.1/1.0 EP EP074C: Sulfonated Compounds (QC Lot: 2496929) EP074D: Fumigants Control (QC Lot: 2496929) EP EP074D: Fumigants (QC Lot: 2496929) EP EP074E: Halogenated TPA1.1/1.0 EP EN1210519-006 TPA1.1/1.0 EP	EP074: sec-Butylbenzene EP074: 1.2.4-Trimethylbenzene EP074: tert-Butylbenzene EP074: p-Isopropyltoluene EP074: n-Butylbenzene (10074: Vinyl Acetate EP074: Vinyl Acetate EP074: 14-Methyl-2-pentanone (MIBK)	135-98-8 95-63-6 98-06-6 99-87-6 104-51-8	n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 2496929 EP1210519-006 TPA1.1/1.0 EP EP1210519-006 TPA1.1/1.0 EP EP074C: Sulfonated Compounds (QC Lot: 2496929) EP074D: Fumigants Cold: 2496929) EP EP074D: Fumigants (QC Lot: 2496929) EP EN1210519-006 TPA1.1/1.0 EP EP074E: Halogenated Aliphatic Compounds (QC Lot	EP074: 1.2.4-Trimethylbenzene EP074: tert-Butylbenzene EP074: p-Isopropyltoluene EP074: n-Butylbenzene EP074: Vinyl Acetate EP074: Vinyl Acetate EP074: 1-Methyl-2-pentanone (MIBK)	95-63-6 98-06-6 99-87-6 104-51-8	۳ 0 0 5 0 5 0 5 7		<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds QC Lot: 2496929 EP EM1210519-006 TPA1.1/1.0 EP	EP074: tert-Butlylbenzene EP074: p-lsopropyltoluene EP074: n-Butlylbenzene 929) EP074: Vinyl Acetate EP074: Vinyl Acetate EP074: 1-Methyl-2-pentanone (MIBK)	98-06-6 99-87-6 104-51-8	0.5 0.5 0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 2496929 EM1210519-006 TPA1.1/1.0 EP EM1210519-006 TPA1.1/1.0 EP EP074C: Sulfonated Compounds (QC Lot: 2496929) EP074D: Fumigants (QC Lot: 2496929) EP EP074D: Fumigants (QC Lot) EP EP074E: Halogenated Aliphatic Compounds (QC Lot)	EP074: p-Isopropyltoluene EP074: n-Butylbenzene 929) EP074: Vinyl Acetate EP074: 2-Butanone (MEK) EP074: 4-Methyl-2-pentanone (MIBK)	99-87-6 104-51-8	0.5 0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 2496929 EM1210519-006 TPA1.1/1.0 EP EM1210519-006 TPA1.1/1.0 EP EP074C: Sulfonated Compounds (QC Lot: 2496929) EM1210519-006 TPA1.1/1.0 EP EP074D: Fumigants (QC Lot: 2496929) EP EM1210519-006 TPA1.1/1.0 EP EP074E: Halogenated Alphatic Compounds CL EM1210519-006 TPA1.1/1.0 EP	EP074: n-Butylbenzene 1929) EP074: Vinyl Acetate EP074: 2-Butanone (MEK) EP074: 4-Methyl-2-pentanone (MIBK)	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenated Compounds (QC Lot: 2496929) EM1210519-006 TPA1.1/1.0 EP EP074C: Sulfonated Compounds (QC Lot: 2496929) EP074D: Fumigants CA Lot: 2496929) EP EM1210519-006 TPA1.1/1.0 EP	929) EP074: Vinyl Acetate EP074: 2-Butanone (MEK) EP074: 4-Methyl-2-pentanone (MIBK)		Ľ	mg/kg	<0.5	<0.5	0.0	No Limit
EM1210519-006 TPA1.1/1.0 EP EP P EP EP074C: Sulfonated Compounds<(QC Lot: 2496929)	EP074: Vinyl Acetate EP074: 2-Butanone (MEK) EP074: 4-Methyl-2-pentanone (MIBK)		Ľ					
EP074C: Sulfonated Compounds QC Lot: 2496929) EM1210519-006 TPA1.1/1.0 EP	EP074: 2-Butanone (MEK) EP074: 4-Methyl-2-pentanone (MIBK)	108-05-4	2	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 2496929) EM1210519-006 TPA1.1/1.0 EP	EP074: 4-Methyl-2-pentanone (MIBK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 2496929) EM1210519-006 TPA1.1/1.0 EP		108-10-1	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated Compounds (QC Lot: 2496929) EM1210519-006 TPA1.1/1.0 EP EP074D: Fumigants (QC Lot: 2496929) EP EM1210519-006 TPA1.1/1.0 EP EP074E: Halogenated Aliphatic Compounds (QC Lo EP	EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EM1210519-006 TPA1.1/1.0 EP EP074D: Fumigants (QC Lot: 2496929) EP EM1210519-006 TPA1.1/1.0 EP EM1210519-006 TPA1.1/1.0 EP EM1210519-006 TPA1.1/1.0 EP EM1210519-006 TPA1.1/1.0 EP EP EP EP	(29)							
EP074D: Fumigants (QC Lot: 2496929) EM1210519-006 TPA1.1/1.0 EP EP EP EP EP074E: Halogenated Aliphatic Compounds (QC Lo EM1210519-006 EC	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1210519-006 TPA1.1/1.0 EP EP EP EP EP074E: Halogenated Aliphatic Compounds (QC Lo EM1210519-006 ED								
EP EP EP074E: Halogenated Aliphatic Compounds (QC Lo EM1210519-006	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP EP EP074E: Halogenated Aliphatic Compounds (QC Lo EM1210519-006	EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP EP074E: Halogenated Aliphatic Compounds (QC Lo EM1210519-006 TPA1111 0	EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lo EM1210519-006 TP41111 0	EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lo EM1210519-006 TPA1 1/1 0	EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1210519-006 TPA1 1/1 0 EE	: Lot: 2496929)							
	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ED	EP074: lodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
E	EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
	EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
E	EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Ē	EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
	EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
L L L	EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Ē	EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
E	EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ED	EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
E	EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
E	EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Page Work Order Client Project	: 5 of 19 : EM1210519 : CARDNO LANE PIPER P1 : 212163 1	TY LTD							ALS ALS
Sub-Matrix: SOIL						Laboratory D	uplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	AS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074E: Halogenated	d Aliphatic Compounds (Q	C Lot: 2496929) - continued							
EM1210519-006	TPA1.1/1.0	EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated	d Aromatic Compounds (Q	(C Lot: 2496929)							
EM1210519-006	TPA1.1/1.0	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalometh	ianes (QC Lot: 2496929)								
EM1210519-006	TPA1.1/1.0	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075A: Phenolic Co	ompounds (QC Lot: 249854	40)							
EM1210519-006	TPA1.1/1.0	EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	-	mg/kg	Ý	¥	0.0	No Limit
EP075B: Polynuclear	· Aromatic Hydrocarbons ((QC Lot: 2498540)							

Sub-Matrix: SOIL Laboratory sample ID Client si EP075B: Polynuclear Aroma EM1210519-006 TPA1.1	לטאט LANE מודבת ד 163 1	ату цтр							(SIR)
Laboratory sample ID Client s. EP075B: Polynuclear Aromat EM1210519-006 TPA1.1						Laboratory I	Juplicate (DUP) Report		
EP075B: Polynuclear Aromat EM1210519-006 TPA1.1	ample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EM1210519-006 TPA1.1	tic Hydrocarbons	(QC Lot: 2498540) - continued							
	/1.0	EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Sum of PAHs		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(b) & Benzo(k)fluoranthene	205-99-2	-	mg/kg	Ž	ŕ	0.0	No Limit
			207-08-9						
EP075C: Phthalate Esters (C	PC Lot: 2498540)								
EM1210519-006 TPA1.1	/1.0	EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	<5.0	<5.0	0.0	No Limit
EP075D: Nitrosamines (QC I	Lot: 2498540)								
EM1210519-006 TPA1.1	/1.0	EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	<1.0	<1.0	0.0	No Limit

Control Control <t< th=""><th>Page Work Order Client Project</th><th>: 7 of 19 : EM1210519 : CARDNO LANE PIPER P1 : 212163 1</th><th>ү LTD</th><th></th><th></th><th></th><th></th><th></th><th></th><th>ALS</th></t<>	Page Work Order Client Project	: 7 of 19 : EM1210519 : CARDNO LANE PIPER P1 : 212163 1	ү LTD							ALS
	Sub-Matrix: SOIL						Laboratory	Duplicate (DUP) Report		
Endots (uncloamentations) En	Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
Ent/10:60:00 FM / 10 EPG M throad proving & Erg M throad Proverg M throad Proving & Erg M throad Proverg M throad Proving & E	EP075D: Nitrosamine	es (QC Lot: 2498540) - con	tinued							
EPASTE: Nitron notice and Advance (CCL of 2: 100%) CF	EM1210519-006	TPA1.1/1.0	EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EN101065005 IPA1.110 EPT07.2460106 000463 0.5 mpgag 0.65 0.05 0.00 0.001107 F177.25760106 EPT07.34601060 0.953 0.5 mpgag 0.63 0.63 0.00 0.001107 F177.25760106 EPT07.34601060 0.953 0.5 mpgag 0.63 0.63 0.00 0.001107 F177.25760106 EPT07.34401060 0.9543 0.5 mpgag 0.63 0.63 0.00 0.001107 F177.24401050 EPT07.34401060 0.9343 0.5 mpgag 0.63 0.63 0.00 0.001107 F177.24401050 EPT07.34401050 0.8414 0.63 0.63 0.63 0.00 0.001107 EPT07.24401050 EPT07.24401050 0.8414 0.63	EP075E: Nitroaromat	iics and Ketones (QC Lot: 2	2498540)							
FPUS Antonenone EPUS Anton	EM1210519-006	TPA1.1/1.0	EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Form EP075 Hale			EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
First international i			EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
First Statistical EV3C 1 Majntame EV3C 1 M			EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Image: section of the section sectin section section section section section section s			EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Image: Net of the sector of the sec			EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP31:5 EP31:5 Component Com			EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
FP015 FP015 <t< td=""><td></td><td></td><td>EP075: 1.3.5-Trinitrobenzene</td><td>99-35-4</td><td>0.5</td><td>mg/kg</td><td><0.5</td><td><0.5</td><td>0.0</td><td>No Limit</td></t<>			EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Form EPGYS: Animologienei Q247: Q Q Q Q Q Q D Dol Initial For S: Formation EPGYS: Formation 2386:045 0.5 mg/g 0.05 0.05 0.00 No Limit EPGYS: Formation EPGYS: Formation 0.01-15 0.5 mg/g 0.05 0.05 0.00 No Limit EPGYS: Formation EPGYS: Formation 0.01-15 0.5 mg/g 0.05 0.05 0.00 No Limit EPGYS: Formation 0.01-15 0.5 mg/g 0.05 0.05 0.00 No Limit EPGYS: Formation 0.01-15 0.5 mg/g 0.1 0.1 0.0 No Limit EPGYS: Formation 0.01-14 0.5 mg/g 0.1 0.0 No Limit EPGYS: Formation 0.01-14 0.5 mg/g 0.05 0.00 No Limit EPGYS: Formation 0.01-14 0.5 mg/g 0.5 0.05 0.00 No Limit EPGYS: Formation </td <td></td> <td></td> <td>EP075: Phenacetin</td> <td>62-44-2</td> <td>0.5</td> <td>mg/kg</td> <td><0.5</td> <td><0.5</td> <td>0.0</td> <td>No Limit</td>			EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
FUTCS: Functionic formation EVECS: Functionic formation Constrained Constraine			EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Image: section is approximate the sectin section is approximate the section is approximate the section is			EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
FP075 Chenthydninozoberaene 00117 0.5 $m909$ 0.5 0.05 0.00 No lunn FP075 Chenthydninozoberaene 001233 1.0 $m909$ 0.05 0.00 No lunn FP075 Achterene 003233 1.0 $m909$ 0.01 0.00 No lunn FP075 Achterene 003232 1.0 $m909$ 0.01 0.00 No lunn FP075 Achterene 003232 1.0 $m909$ 0.05 0.00 No lunn FP075 Achterene 003232 0.5 $m909$ 0.05 0.00 No lunn FP075 Achterene 003523 0.5 $m909$ 0.05 0.00 No lunn FP075 Achterene 111444 0.5 $m909$ 0.05 0.00 No lunn FP075 Achterene 101444 0.5 $m909$ 0.05 0.00 No lunn FP075 Achterene 101444 0.5 $m909$ 0.05 0.00 No lunn			EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
$ \begin{array}{ $			EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075 Achience E0075 Achience <			EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: E4.DimtroducemeE06-20210mg/mg<10<100.0No.LimtEP075: E4.Dimtroduceme $121:14.2$ 10 mg/mg<10			EP075: Azobenzene	103-33-3	-	mg/kg	Ý	Ÿ	0.0	No Limit
EP075: 3.4 DintroduceCall to mg/gCall to mg/g<			EP075: 2.6-Dinitrotoluene	606-20-2	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EP075F Hallothors CL 04: 238340 EP075 Els(2-chlorethy) ether 111414 0.5 mg/m 0.5 0.0 No Limit EN075 Els(2-chlorethy) methane 111914 0.5 mg/m 0.5 0.0 No Limit EV075 Els(2-chlorethy) methane 111914 0.5 mg/m 0.5 0.0 No Limit EV075 Els(2-chlorethory) methane 111914 0.5 mg/m 0.5 0.0 No Limit EV075 - Chlorothy pteny (ether 7005-72-3 0.5 mg/m 0.5 0.0 No Limit EV075 - Chlorothy pteny (ether 7005-72-3 0.5 mg/m 0.5 0.0 No Limit EV075 - Chlorothy pteny (ether 7005-72-3 0.5 mg/m 0.5 0.0 No Limit EV075 - Chlorothy pteny (ether 7005-72-3 0.5 mg/m 0.5 0.0 No Limit EV075 - Chlorothy pteny (ether 7005-72-3 0.5 mg/m 0.5 0.0 No Limit EV075 - Chlorothy pteny (ether 7005-7 0.5 Mg/m 0.5			EP075: 2.4-Dinitrotoluene	121-14-2	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
$ \left \begin{array}{cccc} \mbox{Ematrix} E$	EP075F: Haloethers	(QC Lot: 2498540)								
EP075: Bis/C-chlocopendory) methane119-140.5mg/kg <0.5 <0.5 0.0No limitEP075: Achoropheny pheny terier <0.5 <0.5 <0.5 <0.5 <0.0 No limitEP075: Achoropheny pheny terier <0.5 <0.5 <0.5 <0.5 <0.0 No limitEP075: Achoropheny pheny terier <0.5 <0.5 <0.5 <0.0 No limitEP075: Achoropheny pheny terier <0.5 <0.5 <0.5 <0.5 <0.0 No limitEP075: Achoropheny pheny terier <0.5 <0.5 <0.5 <0.5 <0.0 No limitEP075: Achorophene <0.5 <0.5 <0.5 <0.5 <0.5 <0.0 No limitEP075: Achorophene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachorophene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachorophene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachorophene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachorophene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachorophene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachorophene <0.5 <0.5 <0.5 <0.5 $<$	EM1210519-006	TPA1.1/1.0	EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: Chlorinated HydrocarbonsEP075: 4.Chlorophenyl phenyl ether7005: 72.30.5 mg/ng < 0.5 < 0.5 0.0No LimitEP075: Chlorinated HydrocarbonsTPA1.11.0EP075: 4.Bromophenyl phenyl ether $101-56.3$ 0.5 mg/ng < 0.5 < 0.5 0.0 No LimitEP075: Chlorinated HydrocarbonsTPA1.11.0EP075: 1.3.Dichlorobenzene $541-73.1$ 0.5 mg/ng < 0.5 < 0.5 0.0 No LimitEP075: 1.4.Dichlorobenzene $547-72.1$ 0.5 mg/ng < 0.5 < 0.5 0.0 No LimitEP075: 1.4.Dichlorobenzene $57-72.1$ 0.5 mg/ng < 0.5 < 0.5 0.0 No LimitEP075: 1.4.Dichlorobenzene $87-72.1$ 0.5 mg/ng < 0.5 < 0.5 0.0 No LimitEP075: 1.4.Dichlorobenzene $87-72.1$ 0.5 mg/ng < 0.5 < 0.5 0.0 No LimitEP075: 1.4.Dichlorobenzene $87-72.1$ 0.5 mg/ng < 0.5 0.0 No LimitEP075: Hexachlorobutalene $87-72.1$ 0.5 mg/ng < 0.5 0.0 No LimitEP075: Hexachlorobutalene $87-72.1$ 0.5 mg/ng < 0.5 0.0 No LimitEP075: Hexachlorobutalene $87-72.1$ 0.5 mg/ng < 0.5 0.0 No LimitEP075: Hexachlorobutalene $87-74.1$ 0.5 mg/ng < 0.5 0.0 No LimitEP075: Hexachlorobutalene $87-8.2$ 0.5 0.0 </td <td></td> <td></td> <td>EP075: Bis(2-chloroethoxy) methane</td> <td>111-91-1</td> <td>0.5</td> <td>mg/kg</td> <td><0.5</td> <td><0.5</td> <td>0.0</td> <td>No Limit</td>			EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: L01orinated HydrocarbonsEP075: L150molobenzene101-55.30.5mg/g <0.5 <0.5 <0.0 No LimitEP075: L20Ehlorobenzene541-73-10.5mg/g <0.5 <0.5 <0.0 No LimitEP075: L2.DEhlorobenzene541-73-10.5mg/g <0.5 <0.5 <0.0 No LimitEP075: L2.DEhlorobenzene541-73-10.5mg/g <0.5 <0.5 <0.0 No LimitEP075: L2.DEhlorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.0 No LimitEP075: L2.DEhlorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.0 <0.1 EP075: L2.DEhlorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.0 <0.1 EP075: L2.ATrichorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.0 <0.1 EP075: Hexachlorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachlorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachlorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachlorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075: Hexachlorobenzene <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 EP075:			EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP0753: Chlorinated Hydrocarbons (QC Lot: 243640) Molecarbons (Ac Lot: 243640) Molecarbons (Ac Lot: 243640) Molecarbons (Ac Lot: 243640) Molecarbon (Ac Lot: 2436400) Molecarbon			EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP015:1-006 TPA.1/1.0 EP075:1-3-Dichlorobenzene 54.7-3-1 0.5 mg/kg <0.5 0.0 No Limit EP075:1-3-Dichlorobenzene 106-467 0.5 mg/kg <0.5	EP075G: Chlorinated	Hydrocarbons (QC Lot: 24	198540)							
EP075: 1.4-Dichlorobenzene106-46.70.5 mg/kg <0.5 <0.5 0.0No LimitEP075: 1.2-Dichlorobenzene 97.50 0.5 mg/kg <0.5 <0.5 0.0No LimitEP075: 1.2-Dichlorobenzene 97.72 0.5 mg/kg <0.5 <0.5 0.0No LimitEP075: 1.2-Tichlorobenzene 87.72 0.5 mg/kg <0.5 <0.5 0.0No LimitEP075: 1.2-Tichlorobenzene 87.72 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachloropropylene 87.72 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachloropropylene $88.71.7$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachloropropylene $88.71.7$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachloropropenzene $88.71.7$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachloropropenzene $88.71.7$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachloropropenzene $88.71.7$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachloropropenzene $88.71.7$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachloropropenzene $88.71.7$ 0.5 $0.50.50.0No LimitEP075: Hexachloropropenzene118.74.11.00.50.5$	EM1210519-006	TPA1.1/1.0	EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: 1.2-Dichlorobenzene $95-50-1$ 0.5 mg/kg <0.5 <0.0 0.0 Mo LimitEP075: Hexachloroethane $67-72-1$ 0.5 mg/kg <0.5 <0.0 0.0 $No Limit$ EP075: Hexachloroethane $67-72-1$ 0.5 mg/kg <0.5 <0.5 0.0 $No Limit$ EP075: Hexachloroenzene $120-82-1$ 0.5 mg/kg <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $120-82-1$ 0.5 mg/kg <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $87-83-3$ 0.5 mg/kg <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $87-83-3$ 0.5 mg/kg <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $87-83-3$ 0.5 mg/kg <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(18-3+7-1)$ 1.0 mg/kg <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(18-3+7-1)$ $1.17-7$ <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(18-7)-1/1-7$ <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(18-7)-1/1-7$ <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(18-7)-1/1-7$ <0.5 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(18-7)-1/1-1/1-1/1-1/1-1/1-1/1-1/1-1/1-1/1-1/$			EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: Hexchloroethane $67-72-1$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: 12.4-Tichlorobenzene $120-82-1$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexchlorophone $120-82-1$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexchlorobutadiene $188-71-7$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexchlorobutadiene $87-68-3$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexchlorobutadiene $87-68-3$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexchlorobutadiene $87-68-3$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexchlorobutadiene $87-68-3$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexchlorobutadiene $87-68-3$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexchlorobutadiene $77-47-4$ 2.5 mg/kg <0.5 0.0 No LimitEP075: Hexchlorosoflopentadiene $77-47-4$ 2.5 mg/kg <0.5 0.0 No LimitEP075: Hexchlorosoflopentadiene $77-47-4$ 2.5 0.0 0.0 No LimitEP075: Hexchlorosoflopentadiene $77-47-4$ 2.5 0.5 0.0 No LimitEP075: Hexchlorosoflopentadiene $77-47-4$ 2.5 0.5 0.0 No LimitEP075			EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
$ \begin{array}{l lllllllllllllllllllllllllllllllllll$			EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: Hexachloropropylene188.71-70.5mg/kg <0.5 <0.5 <0.0 No LimitEP075: Hexachlorobutadiene $87.68-3$ 0.5 mg/kg <0.5 <0.5 <0.0 No LimitEP075: Pentachlorobenzene $87.68-3$ 0.5 mg/kg <0.5 <0.5 <0.0 No LimitEP075: Pentachlorobenzene $<0.8-3-5$ 0.5 mg/kg <0.5 <0.5 <0.0 No LimitEP075: Pentachlorobenzene $<0.8-3-5$ 0.5 mg/kg <0.5 <0.5 <0.0 No LimitEP075: Hexachlorobenzene $<0.8-3-5$ 0.5 mg/kg <0.5 <0.5 <0.0 No LimitEP075: Hexachlorobenzene $<0.8-3-5$ 0.5 mg/kg <0.5 <0.0 <0.0 No LimitEP075: Hexachlorobenzene $<0.8-3-5$ 0.5 mg/kg <0.5 <0.0 <0.0 <0.0 EP075: Hexachlorobenzene $<0.8-3-5$ 0.5 mg/kg <0.5 <0.0 <0.0 <0.0 Interstol $<0.8-3$ <0.6 <0.6 <0.6 <0.6 <0.0 <0.0 Interstol $<0.8-3$ <0.6 <0.6 <0.6 <0.6 <0.6 <0.6 Interstol $<0.8-3$ <0.6 <0.6 <0.6 <0.6 <0.6 <0.6 Interstol $<0.8-3$ $<0.8-3$ <0.6 <0.6 <0.6 <0.6 <0.6 Interstol $<0.8-3$ $<0.8-3$ $<0.8-3$ $<0.8-3$ $<0.8-3$ $<0.9-3$ <td< td=""><td></td><td></td><td>EP075: 1.2.4-Trichlorobenzene</td><td>120-82-1</td><td>0.5</td><td>mg/kg</td><td><0.5</td><td><0.5</td><td>0.0</td><td>No Limit</td></td<>			EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: Hexachlorobutatione $87.68-3$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Pentachlorobenzene $608-93-5$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachlorobenzene $608-93-5$ 0.5 mg/kg <0.5 <0.5 0.0 No LimitEP075: Hexachlorobenzene $118-74-1$ 1.0 mg/kg <1.0 <1.0 $No Limit$ EP075: Hexachlorobenzene $(H2)$ $118-74-1$ 1.0 mg/kg <1.0 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(H2)$ $118-74-1$ 1.0 mg/kg <1.0 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(H2)$ $118-74-1$ 1.0 mg/kg <1.0 <0.5 0.0 $No Limit$ EP075: Hexachlorobenzene $(H2)$ $118-74-1$ 2.5 mg/kg <1.0 0.0 0.0 $No Limit$ EP075: Hexachlorobenzene $(H2)$ $(H2)$ $(H2)$ $(H2)$ $(H2)$ $(H2)$ $(H2)$ $(H2)$ $(H2)$ EP075: Hexachlorobenzene $(H2)$			EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
FP075: Fentachlorobenzene 608-93-5 0.5 mg/kg <0.5 0.0 No Limit EP075: Hexachlorobenzene (HZB) 118-74-1 1.0 mg/kg <1.0			EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075: Hexachlorobenzene (HCB) 118-74-1 1.0 mg/kg <1.0 o.0 No Limit EP075: Hexachlorobenzene (HCB) 77.47-4 2.5 mg/kg <1.0			EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075H: Antilites and Barzidines EP075: Hexachlorocyclopentadiene 77.47-4 2.5 mg/kg <2.5 <0.0 No Limit EP075H: Antilites and Barzidines (QC Lot: 2498540) 0.5 mg/kg <2.5			EP075: Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EP075H: Anilines and Benzidines (QC Lot: 2498540) EP075: Aniline 62-53-3 0.5 mg/kg <0.5 0.0 No Limit EM1210519-006 TPA1.1/1.0 EP075: Aniline 106-47-8 0.5 mg/kg <0.5			EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	<2.5	0.0	No Limit
EM1210519-006 TPA1.1/1.0 EP075: Aniline 62-53-3 0.5 mg/kg <0.5 0.0 No Limit EP075: 4-Chloroaniline 106-47-8 0.5 mg/kg <0.5	EP075H: Anilines and	d Benzidines(QC Lot: 2498	3540)							
EP075: 4-Chloroaniline 106-47-8 0.5 mg/kg <0.5 0.0 No Limit	EM1210519-006	TPA1.1/1.0	EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Page Work Order Client Project	: 8 of 19 : EM1210519 : CARDNO LANE PIPER P1 : 212163 1	TY LTD							ALS
Sub-Matrix: SOIL						Laboratory	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075H: Anilines ar	nd Benzidines (QC Lot: 2498	8540) - continued							
EM1210519-006	TPA1.1/1.0	EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3.3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EP075I: Organochlo	rine Pesticides (QC Lot: 24	98540)							
EM1210519-006	TPA1.1/1.0	EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4'-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4'-DDD	72-54-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDT	50-29-3	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EP075J: Organopho	sphorus Pesticides (QC Lo	ıt: 2498540)							
EM1210519-006	TPA1.1/1.0	EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Pe	troleum Hydrocarbons (QC	: Lot: 2496863)							
EB1223999-001	Anonymous	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
EM1210519-031	QC02/07092012	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Pe	troleum Hydrocarbons (QC	: Lot: 2496928)							
EM1210519-006	TPA1.1/1.0	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit

Alignet Control Mode (First PR) TVL 10 Alignet (First PR) TVL 10 Aligne (First PR) TVL 10 Alignet (First P	⊃age Nork Order	: 9 of 19 : EM1210519								
Distribution: 501. Distrib	Client Project	CARDNO LANE PIPER P 212163 1	TY LTD							(SIR)
Construction Construction<	Sub-Matrix: SOIL						Laboratory L	Juplicate (DUP) Repor		
Elementation Elemenation Elementation Elementation </th <th>Laboratory sample ID</th> <th>Client sample ID</th> <th>Method: Compound</th> <th>CAS Number</th> <th>LOR</th> <th>Unit</th> <th>Original Result</th> <th>Duplicate Result</th> <th>RPD (%)</th> <th>Recovery Limits (%)</th>	Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
Efficient Normality Condition Cold Cold </td <td>EP080/071: Total Pe</td> <td>troleum Hydrocarbons (QC</td> <td>) Lot: 2496928) - continued</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	EP080/071: Total Pe	troleum Hydrocarbons (QC) Lot: 2496928) - continued							
Endont1. for Particulum Mynochona (or End Selection Endont1. for Particulum Selection Endont2. Endont2. Endont2. <thendont2.< th=""> Endont2. Endont2.</thendont2.<>	EM1210635-012	Anonymous	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
ENTOREDUE Inv.1.1.0 ENTOREDUE ENTOREDUE <t< td=""><td>EP080/071: Total Pe</td><td>troleum Hydrocarbons (QC</td><td>: Lot: 2498562)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	EP080/071: Total Pe	troleum Hydrocarbons (QC	: Lot: 2498562)							
Entration Entration <t< td=""><td>EM1210519-006</td><td>TPA1.1/1.0</td><td>EP071: C15 - C28 Fraction</td><td></td><td>100</td><td>mg/kg</td><td><100</td><td><100</td><td>0.0</td><td>No Limit</td></t<>	EM1210519-006	TPA1.1/1.0	EP071: C15 - C28 Fraction		100	mg/kg	<100	<100	0.0	No Limit
EN1100Hall En01100-Collenation E			EP071: C29 - C36 Fraction		100	mg/kg	<100	<100	0.0	No Limit
Human Bull Conformation Environment Environ			EP071: C10 - C14 Fraction		50	mg/kg	<50	<50	0.0	No Limit
EN210F30311 C02307030312 EPITY C4: C45 Fability EPITY C4:			EP071: C10 - C36 Fraction (sum)		50	mg/kg	<50	<50	0.0	No Limit
FUNCTOR EPOINT Case Case Francism Total Total Color Doubling ENDOTY Tech EPOINT Case Case Francism 50 mogg 50 100 No Lindi ENDOTY Tech EPOINT Case Case Francism 50 mogg 50 100 No Lindi ENDOTY Tech ENDOTY Case Case Francism 10 mogg 50 100 No Lindi ENDOTY Tech ENDOTY Case Case Francism 10 mogg 50 100 No Lindi ENDOTY Tech ENDOTY Case Case Francism 10 mogg 50 100 No Lindi ENDOTY Tech ENDOTY Case Case Francism 10 mogg 50 100 No Lindi ENDOTY Tech ENDOTY Case Case Francism 10 mogg 50 100 No Lindi ENDOTY Tech ENDOTY Case Case Francism 10 mogg 50 100 No Lindi ENDOTY France ENDOTY Case Case Francism 10 mogg 50 100 No Lindi ENDOTY Frant ENDOTY Ca	EM1210519-031	QC02/07092012	EP071: C15 - C28 Fraction		100	mg/kg	<100	<100	0.0	No Limit
Final Networks by forcations - NEM SY10 Drift (CI: CI: CI: Finaleni (CI: CI: CI: CI: CI: CI: CI: CI: CI: CI:			EP071: C29 - C36 Fraction		100	mg/kg	<100	<100	0.0	No Limit
ENT2060011 EPRIN Concentration EPRIN Conconcentration			EP071: C10 - C14 Fraction		50	mg/kg	<50	<50	0.0	No Limit
Endotification in the interval of the i			EP071: C10 - C36 Fraction (sum)	-	50	mg/kg	<50	<50	0.0	No Limit
E012306001 Amontonia FENDIX of Conference Conference 10 mg/ga 11 11 000 No lunk E0102015750012 EP000 CG - CO France 10 mg/ga <10	EP080/071: Total Re	coverable Hydrocarbons - N	NEPM 2010 Draft (QC Lot: 2496863)							
EN1/10(5):9.011 CO207/08/012 EPBBC (5: C) (7 Fraction I <thi< th=""> I</thi<>	EB1223999-001	Anonymous	EP080: C6 - C10 Fraction		10	mg/kg	11	11	0.0	No Limit
E0930/11 Tatal Recoverable Hydrocentons - NEW Col Col C 300 Dimit E0300/11 Tatal Recoverable Hydrocentons - NEW Col C - C 10 Factoria In 0 mg/s r	EM1210519-031	QC02/07092012	EP080: C6 - C10 Fraction		10	mg/kg	<10	<10	0.0	No Limit
EM11:0165:0000 TM1.11:0 EP000: 66.:016 Fradion 10 mg/kg <10 10 No.Imitation E9000:715:013 FP000: 66.:016 Fradion 10 mg/kg <10	EP080/071: Total Re	coverable Hydrocarbons - N	NEPM 2010 Draft (QC Lot: 2496928)							
EN11055012 Anonymous EP00: C.G. C (0 Findin) I	EM1210519-006	TPA1.1/1.0	EP080: C6 - C10 Fraction	-	10	mg/kg	<10	<10	0.0	No Limit
EP010.01:1:10.01 COLOR:243680 EP011::0:1:1:10.01 COLOR:243680 EP011::0:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:	EM1210635-012	Anonymous	EP080: C6 - C10 Fraction		10	mg/kg	<10	<10	0.0	No Limit
EM121051-006 TPA1:1/10 EP71::>C14.: C44. Faction 100 mg/g <100 r <100	EP080/071: Total Re	coverable Hydrocarbons - N	NEPM 2010 Draft (QC Lot: 2498562)							
EP071::::::::::::::::::::::::::::::::::::	EM1210519-006	TPA1.1/1.0	EP071: >C16 - C34 Fraction		100	mg/kg	<100	<100	0.0	No Limit
EM1210519-031 EP071: >C10 - C16 Fraction 50 mg/kg <50 C0 C0 No Limit EM1210519-031 EP071: >C10 - G16 Fraction EP071: >C10 - G16 Fraction 100 mg/kg <100			EP071: >C34 - C40 Fraction		100	mg/kg	<100	<100	0.0	No Limit
Image: mark teal (1) EP071:>C10.C40 Faction (aur) C D C			EP071: >C10 - C16 Fraction		50	mg/kg	<50	<50	0.0	No Limit
EM121051-031 C0207032012 EP071: 5C16-C34 Fraction 100 mg/kg <-100 C100 C100 C00 No Limit F071: 5C10-C16 Fraction F071: 5C10-C16 Fraction 50 mg/kg <-100			EP071: >C10 - C40 Fraction (sum)		50	mg/kg	<50	<50	0.0	No Limit
FP071:>C34C40 Faction 100 mgkg 6100 6100 0.0 Numtion FP071:>C510-C16 Faction EP071:>C10-C16 Faction 0 mgkg <50	EM1210519-031	QC02/07092012	EP071: >C16 - C34 Fraction		100	mg/kg	<100	<100	0.0	No Limit
EP01::::::::::::::::::::::::::::::::::::			EP071: >C34 - C40 Fraction		100	mg/kg	<100	<100	0.0	No Limit
EP03: B151X Call of the control of the co			EP071: >C10 - C16 Fraction		50	mg/kg	<50	<50	0.0	No Limit
EP080: ETEXN (AC Lot: 249663) Color: 249663 Color: 71432 D.2 mg/kg Nolumity EB1223999-001 Anonymous EP080: Environment 71432 0.2 mg/kg 0.0 Nolumity F080: Toluene 100-414 0.5 mg/kg <0.5			EP071: >C10 - C40 Fraction (sum)		50	mg/kg	<50	<50	0.0	No Limit
E123399-001 Anonymous EP080: Benzene 71432 0.2 mg/kg <0.2 0.0 No Limit EP080: Tollone EP080: Tollone 10843 0.5 mg/kg <0.5	EP080: BTEXN (QC	Lot: 2496863)								
EP080: Tollene EP080: Tollene 108:81-3 0.5 mg/kg <0.5 <0.5 0.0 No Limit EP080: Ethylbenzene 100:41-4 0.5 mg/kg <0.5	EB1223999-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
FO80: Ethylbenzele 100.414 0.5 mg/kg <0.5 0.0 No Limit PO80: meta-& para-Xylene 106.42.3 0.5 mg/kg <0.5			EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Fold Epo80: meta-& para-Xylee 108-38-3 0.5 mg/kg <0.5 0.0 No Limit F080: ortho-Xylee 106-42-3 0.5 mg/kg <0.5			EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Image: Field of the second of the s			EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1210519-031 EP080: ortho-Xylene 95-47-6 0.5 mg/kg <0.5 0.0 No Limit EM1210519-031 EP080: Naphthalene 91-20-3 1 mg/kg <0.5				106-42-3						
EM1210519-031 EP080: Naphthalene 91-20-3 1 mg/kg 445 360 21.1 0%-20% EM1210519-031 C020/7092012 EP080: Benzene 71-43-2 0.2 mg/kg <0.2			EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM1210519-031 C020/7092012 EP080: Benzene 71-43-2 0.2 mg/kg <0.2 0.0 No Limit EP080: Toluene 108-88-3 0.5 mg/kg <0.5			EP080: Naphthalene	91-20-3	-	mg/kg	445	360	21.1	0% - 20%
EP080: Toluene 108-88-3 0.5 mg/kg <0.5 0.0 No Limit EP080: Ethylbenzene 100-414 0.5 mg/kg <0.5	EM1210519-031	QC02/07092012	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP080: Ethylbenzene 100-414 0.5 mg/kg <0.5			EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080: meta- & para-Xylene 108-38-3 0.5 mg/kg <0.5			EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080: ortho-Xytene 95-47-6 0.5 mg/kg <0.5 0.0 No Limit			EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
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Sub-Matrix: SOIL						Laboratory D	uplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP080: BTEXN (QC L	-ot: 2496863) - continued								
EM1210519-031	QC02/07092012	EP080: Naphthalene	91-20-3	-	mg/kg	۲,	۰ ۲	0.0	No Limit

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Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	7CS	том	High
EG005T: Total Metals by ICP-AES (QCLot: 2498206)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	13.6 mg/kg	105	75	131
EG005T: Barium	7440-39-3	10	mg/kg	<10	139 mg/kg	101	77	127
EG005T: Beryllium	7440-41-7	÷	mg/kg	Ŷ	6.2 mg/kg	96.8	73	119
EG005T: Cadmium	7440-43-9	-	mg/kg	Ý	2.8 mg/kg	94.1	71	123
EG005T: Chromium	7440-47-3	7	mg/kg	~	60.9 mg/kg	99.6	79	125
EG005T: Cobalt	7440-48-4	7	mg/kg	~2	25.4 mg/kg	92.4	71	121
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.1 mg/kg	103	79	123
EG005T: Lead	7439-92-1	5	mg/kg	<5	54.9 mg/kg	99.1	77	125
EG005T: Manganese	7439-96-5	5	mg/kg	<5	137 mg/kg	96.0	76	126
EG005T: Nickel	7440-02-0	7	mg/kg	₽	55.1 mg/kg	98.2	78	128
EG005T: Vanadium	7440-62-2	5	mg/kg	<5	34.9 mg/kg	97.8	78	124
EG005T: Zinc	7440-66-6	5	mg/kg	<5	105 mg/kg	94.4	75	125
EG035T: Total Recoverable Mercury by FIMS (QCLot:	2498207)							
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	1.47 mg/kg	90.5	81	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot:)	2496929)							
EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	96.0	75	121
EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	88.3	76	124
EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	84.7	74	118
EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	84.5	75	121
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	85.2	64	120
EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	86.4	77	121
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	75.9	74	120
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	80.5	65	117
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	81.9	65	117
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	81.0	67	117
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	81.3	66	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	82.0	68	116
EP074: p-lsopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	79.5	64	117
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	73.4	59	115
EP074B: Oxygenated Compounds (QCLot: 2496929)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	66.2	40	138
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	74.7	61	143
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	80.2	63	137

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				Mathed Diade (MD)		1 chordent Control Children 1	C) Donord	
SUD-IMATIX: SOIL				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	SC2	Low	High
EP074B: Oxygenated Compounds(QCLot: 2496929)- cc	ontinued							
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	83.6	63	133
EP074C: Sulfonated Compounds (QCLot: 2496929)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	66.8	57	121
EP074D: Fumigants (QCLot: 2496929)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	# 48.0	51	130
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	82.7	73	121
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	# 51.5	59	109
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	# 50.4	52	110
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	82.7	68	120
EP074E: Halogenated Aliphatic Compounds (QCLot: 249	6929)							
EP074: Dichlorodifiuoromethane	75-71-8	£	mg/kg	<5	10 mg/kg	44.4	34	122
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	60.0	52	133
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	60.5	47	133
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	44.9	39	116
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	63.5	43	137
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	66.7	61	126
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	# 61.9	62	124
EP074: lodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	80.6	47	116
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	71.6	69	119
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	78.4	70	120
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	74.7	72	120
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	83.6	64	112
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	# 66.3	71	117
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	77.2	51	106
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	74.3	20	126
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	84.1	71	120
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	74.4	70	122
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	87.5	73	125
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	87.2	75	125
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	80.7	71	120
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	57.3	54	106
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	66.1	46	112
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	43.7	21.8	117
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	84.5	71	131
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	84.4	20	134
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	49.0	40	94
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	49.2	41	113
EP074F: Halogenated Aromatic Compounds (QCLot: 249	(6929)							

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Sub-Matrix: SOIL					Method Blank (MB)		Laboratory Control Spike ((LCS) Report	
					Report	Spike	Spike Recovery (%)	Recovery	/ Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	7CS	Том	High
EP074F: Halogenated	Aromatic Compounds (QCLot: 24969	329) - continued							
EP074: Chlorobenzene		108-90-7	0.5	mg/kg	<0.5	1 mg/kg	89.9	78	120
EP074: Bromobenzene		108-86-1	0.5	mg/kg	<0.5	1 mg/kg	72.2	68	116
EP074: 2-Chlorotoluene		95-49-8	0.5	mg/kg	<0.5	1 mg/kg	88.1	67	117
EP074: 4-Chlorotoluene		106-43-4	0.5	mg/kg	<0.5	1 mg/kg	84.2	67	115
EP074: 1.2.3-Trichlorobe	nzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	84.9	60	120
EP074G: Trihalometh	anes (QCLot: 2496929)								
EP074: Chloroform		67-66-3	0.5	mg/kg	<0.5	1 mg/kg	# 70.4	71	121
EP074: Bromodichlorom	ethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	60.6	60	108
EP074: Dibromochlorom	ethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	54.3	48	104
EP074: Bromoform		75-25-2	0.5	mg/kg	<0.5	1 mg/kg	48.8	40	106
EP075A: Phenolic Co	mpounds(QCLot: 2498540)								
EP075: Phenol		108-95-2	0.5	mg/kg	<0.5	2.5 mg/kg	83.2	38	138
EP075: 2-Chlorophenol		95-57-8	0.5	mg/kg	<0.5	2.5 mg/kg	82.4	39	129
EP075: 2-Methylphenol		95-48-7	0.5	mg/kg	<0.5	2.5 mg/kg	81.1	33	132
EP075: 3- & 4-Methylphe	nol	1319-77-3	0.5	mg/kg	<1.0	5 mg/kg	84.8	35	131
EP075: 2-Nitrophenol		88-75-5	0.5	mg/kg	<0.5	2.5 mg/kg	91.9	31	131
EP075: 2.4-Dimethylpher	lol	105-67-9	0.5	mg/kg	<0.5	2.5 mg/kg	66.4	10	135
EP075: 2.4-Dichlorophen	0	120-83-2	0.5	mg/kg	<0.5	2.5 mg/kg	83.8	35	133
EP075: 2.6-Dichlorophen	0	87-65-0	0.5	mg/kg	<0.5	2.5 mg/kg	89.9	36	132
EP075: 4-Chloro-3-Meth)	1phenol	59-50-7	0.5	mg/kg	<0.5	2.5 mg/kg	89.4	39	143
EP075: 2.4.6-Trichloroph	enol	88-06-2	0.5	mg/kg	<0.5	2.5 mg/kg	86.4	34	138
EP075: 2.4.5-Trichloroph	enol	95-95-4	0.5	mg/kg	<0.5	2.5 mg/kg	88.0	30.2	142
EP075: Pentachlorophen	ol	87-86-5	1.0	mg/kg	-1	2.5 mg/kg	84.5	14	136
EP075B: Polynuclear	Aromatic Hydrocarbons (QCLot: 2498	8540)							
EP075: Naphthalene		91-20-3	0.5	mg/kg	<0.5	2.5 mg/kg	82.8	39	128
EP075: 2-Methylnaphtha.	ene	91-57-6	0.5	mg/kg	<0.5	2.5 mg/kg	84.7	40	136
EP075: 2-Chloronaphtha	ene	91-58-7	0.5	mg/kg	<0.5	2.5 mg/kg	72.3	29.5	137
EP075: Acenaphthylene		208-96-8	0.5	mg/kg	<0.5	2.5 mg/kg	79.8	38	138
EP075: Acenaphthene		83-32-9	0.5	mg/kg	<0.5	2.5 mg/kg	85.0	45	133
EP075: Fluorene		86-73-7	0.5	mg/kg	<0.5	2.5 mg/kg	87.4	47	137
EP075: Phenanthrene		85-01-8	0.5	mg/kg	<0.5	2.5 mg/kg	97.8	45	133
EP075: Anthracene		120-12-7	0.5	mg/kg	<0.5	2.5 mg/kg	97.0	44	130
EP075: Fluoranthene		206-44-0	0.5	mg/kg	<0.5	2.5 mg/kg	99.2	46	138
EP075: Pyrene		129-00-0	0.5	mg/kg	<0.5	2.5 mg/kg	99.5	43	145
EP075: N-2-Fluorenyl Ac	etamide	53-96-3	0.5	mg/kg	<0.5	2.5 mg/kg	104	43	143
EP075: Benz(a)anthrace	le	56-55-3	0.5	mg/kg	<0.5	2.5 mg/kg	98.9	43	139
EP075: Chrysene		218-01-9	0.5	mg/kg	<0.5	2.5 mg/kg	102	42	140
EP075: Benzo(b) & Benz	o(k)fluoranthene	205-99-2	-	mg/kg	۸ ۲	5 mg/kg	106	43	139
		P-00-102						A Campbell Bro	thers Limited Company
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bub-Matrix: SOIL				Method Blank (MB) Report	Spike	Laboratory Control Spike (LC Spike Recovery (%)	S) Report Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	TCS	Low	High
EP075B: Polynuclear Aromatic Hydrocarbons (QC	Lot: 2498540) - continue:	p						
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	2.5 mg/kg	122	40	154
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2.5 mg/kg	94.9	38	138
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	2.5 mg/kg	112	46	162
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2.5 mg/kg	99.8	49	159
EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	2.5 mg/kg	101	49	157
EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	2.5 mg/kg	99.2	48	158
EP075: Sum of PAHs		0.5	mg/kg	<0.5				
EP075C: Phthalate Esters(QCLot: 2498540)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	2.5 mg/kg	90.2	40	142
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	2.5 mg/kg	96.9	48	140
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	2.5 mg/kg	122	38	169
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	2.5 mg/kg	103	42	140
EP075: bis(2-ethylhexyl) phthalate	117-81-7	0.5	mg/kg	<5.0	2.5 mg/kg	113	47	155
EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	2.5 mg/kg	107	47	137
EP075D: Nitrosamines(QCLot: 2498540)								
EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	2.5 mg/kg	79.3	16.2	136
EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	2.5 mg/kg	89.6	33	132
EP075: N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	<1.0	2.5 mg/kg	89.7	27.7	130
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	2.5 mg/kg	85.6	33	131
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	2.5 mg/kg	81.0	36	127
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	2.5 mg/kg	77.9	35	128
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	2.5 mg/kg	87.6	37	139
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6	0.5	mg/kg	<1.0	2.5 mg/kg	94.4	42	134
EP075: Methapvrilene	91-80-5	0.5	mg/kg	<0.5	2.5 mg/kg	131	24.4	143
EP075E: Nitroaromatics and Ketones (QCLot: 249	8540)							
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	2.5 mg/kg	59.8	10	138
EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	2.5 mg/kg	82.2	35	128
EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	2.5 mg/kg	83.7	36	127
EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	2.5 mg/kg	80.7	40	136
EP075: 2.6-Dinitrotoluene	606-20-2	0.5	mg/kg	<1.0	2.5 mg/kg	91.1	42	140
EP075: 2.4-Dinitrotoluene	121-14-2	0.5	mg/kg	<1.0	2.5 mg/kg	97.6	46	140
EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	2.5 mg/kg	58.2	10	84
EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	2.5 mg/kg	115	17.7	153
EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	2.5 mg/kg	83.4	37	125
EP075: Azobenzene	103-33-3	-	mg/kg	م 1	2.5 mg/kg	91.8	46	140
EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	2.5 mg/kg	65.8	12.6	151
EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	2.5 mg/kg	102	48	142
EP075. 4-Aminohinhenvl	92-67-1	с С	ma/ka	<0.5	2 5 ma/ka	2 V D	¢	97

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Page : 15 of 19 Work Order : EM1210519 Client : CARDNO LANE PIPER PTY LTD Project : 212163 1								ALS
Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
	-	-		керог	Spike	Spike Recovery (%)	Recovery	r Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	7CS	Гом	High
EP075E: Nitroaromatics and Ketones (QCLot: 2498540)	- continued							
EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	2.5 mg/kg	98.8	47	139
EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	2.5 mg/kg	84.4	45	133
EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	2.5 mg/kg	98.3	42	136
EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	2.5 mg/kg	98.9	41	141
EP075F: Haloethers(QCLot: 2498540)								
EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	2.5 mg/kg	82.3	36	146
EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	2.5 mg/kg	81.4	40	136
EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	2.5 mg/kg	89.3	46	136
EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	2.5 mg/kg	96.7	44	140
EP075G: Chlorinated Hydrocarbons (QCLot: 2498540)								
EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	2.5 mg/kg	78.5	35	122
EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	2.5 mg/kg	81.4	36	125
EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	2.5 mg/kg	85.8	37	123
EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	2.5 mg/kg	82.5	33	123
EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	2.5 mg/kg	75.8	36	132
EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	2.5 mg/kg	95.3	26.6	137
EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	2.5 mg/kg	83.8	40	130
EP075: Hexachlorocyclopentadiene	77-47-4	0.5	mg/kg	<2.5	2.5 mg/kg	98.2	17.3	141
EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	2.5 mg/kg	87.5	46	136
EP075: Hexachlorobenzene (HCB)	118-74-1	0.5	mg/kg	<1.0	5 mg/kg	94.9	40	142
EP075H: Anilines and Benzidines (QCLot: 2498540)								
EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	2.5 mg/kg	54.5	10	114
EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	2.5 mg/kg	46.7	10	103
EP075: 2-Nitroaniline	88-74-4	0.5	mg/kg	<1.0	2.5 mg/kg	88.8	40	142
EP075: 3-Nitroaniline	99-09-2	0.5	mg/kg	<1.0	2.5 mg/kg	81.2	23.3	125
EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	2.5 mg/kg	85.8	46	134
EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	2.5 mg/kg	93.4	38	132
EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	2.5 mg/kg	97.9	44	134
EP075: 3.3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	2.5 mg/kg	67.5	10	124
EP075I: Organochlorine Pesticides (QCLot: 2498540)								
EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	2.5 mg/kg	100	50	134
EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	2.5 mg/kg	103	47	135
EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	2.5 mg/kg	99.5	50	137
EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	2.5 mg/kg	117	48	136
EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	2.5 mg/kg	107	40	138
EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	2.5 mg/kg	100	44	140
EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	2.5 mg/kg	95.6	45	139
EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	2.5 mg/kg	106	46	142

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Sub-Matrix• SOII					Method Blank (MB)		Laboratory Control Spike (I	LCS) Report	
					Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	SD1	Том	High
EP075I: Organochlorin	ie Pesticides (QCLot: 2498540) - c	continued							
EP075: 4.4'-DDE		72-55-9	0.5	mg/kg	<0.5	2.5 mg/kg	102	20	130
EP075: Dieldrin		60-57-1	0.5	mg/kg	<0.5	2.5 mg/kg	105	47	139
EP075: Endrin		72-20-8	0.5	mg/kg	<0.5	2.5 mg/kg	105	42	142
EP075: beta-Endosulfan		33213-65-9	0.5	mg/kg	<0.5	2.5 mg/kg	97.7	47	141
EP075: 4.4`-DDD		72-54-8	0.5	mg/kg	<0.5	2.5 mg/kg	103	42	146
EP075: Endosulfan sulfate		1031-07-8	0.5	mg/kg	<0.5	2.5 mg/kg	123	41	141
EP075: 4.4 [°] -DDT		50-29-3	0.5	mg/kg	<1.0	2.5 mg/kg	124	19.6	148
EP075J: Organophosp	horus Pesticides (QCLot: 2498540	6							
EP075: Dichlorvos		62-73-7	0.5	mg/kg	<0.5	2.5 mg/kg	82.6	21.9	131
EP075: Dimethoate		60-51-5	0.5	mg/kg	<0.5	2.5 mg/kg	86.8	38	142
EP075: Diazinon		333-41-5	0.5	mg/kg	<0.5	2.5 mg/kg	99.3	36	133
EP075: Chlorpyrifos-meth)	y	5598-13-0	0.5	mg/kg	<0.5	2.5 mg/kg	98.0	35	143
EP075: Malathion		121-75-5	0.5	mg/kg	<0.5	2.5 mg/kg	100	35	143
EP075: Fenthion		55-38-9	0.5	mg/kg	<0.5	2.5 mg/kg	102	25.1	135
EP075: Chlorpyrifos		2921-88-2	0.5	mg/kg	<0.5	2.5 mg/kg	105	36	132
EP075: Pirimphos-ethyl		23505-41-1	0.5	mg/kg	<0.5	2.5 mg/kg	104	36	135
EP075: Chlorfenvinphos		470-90-6	0.5	mg/kg	<0.5	2.5 mg/kg	6.66	35	138
EP075: Prothiofos		34643-46-4	0.5	mg/kg	<0.5	2.5 mg/kg	98.3	37	135
EP075: Ethion		563-12-2	0.5	mg/kg	<0.5	2.5 mg/kg	99.3	38	137
EP080/071: Total Petro	vleum Hydrocarbons (QCLot: 2496	863)							
EP080: C6 - C9 Fraction			10	mg/kg	<10	36 mg/kg	97.7	20	133
EP080/071: Total Petro	eum Hydrocarbons (QCLot: 2496)	928)							
EP080: C6 - C9 Fraction		1	10	mg/kg	<10	36 mg/kg	94.5	20	133
EP080/071: Total Petro	eum Hydrocarbons (QCLot: 2498)	562)							
EP071: C10 - C14 Fraction		-	50	mg/kg	<50	544 mg/kg	91.3	55	123
EP071: C15 - C28 Fraction			100	mg/kg	<100	1981 mg/kg	107	72	134
EP071: C29 - C36 Fraction	E		100	mg/kg	<100	818 mg/kg	93.0	71	143
EP071: C10 - C36 Fractio	n (sum)		50	mg/kg	<50				
EP080/071: Total Reco	verable Hydrocarbons - NEPM 201	0 Draft (QCLot: 2/	496863)						
EP080: C6 - C10 Fraction			10	mg/kg	<10	45 mg/kg	93.8	20	130
EP080/071: Total Reco	verable Hydrocarbons - NEPM 201	0 Draft (QCLot: 2/	496928)						
EP080: C6 - C10 Fraction			10	mg/kg	<10	45 mg/kg	92.5	70	130
EP080/071: Total Reco	verable Hydrocarbons - NEPM 201	0 Draft (QCLot: 2/	498562)						
EP071: >C10 - C16 Fractic	uo	-	50	mg/kg	<50	870 mg/kg	101	69	123
EP071: >C16 - C34 Fractic	uo		100	mg/kg	<100	2495 mg/kg	96.2	71	134
EP071: >C34 - C40 Fractit	uo		100	mg/kg	<100	263 mg/kg	80.6	63	143
EP071: >C10 - C40 Fractit	on (sum)	!	100	mg/kg	<100				1
EP080: BTEXN (QCLo	t: 2496863)								
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Work Order	: EM1210519
Client	: CARDNO LANE PIPER PTY LTD
Project	212163 1

Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LC)	S) Report	
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	SD1	Том	High
EP080: BTEXN(QCLot: 2496863)- continued								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	97.3	72	126
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	100	73	129
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	93.3	72	126
EP080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4 mg/kg	100	70	138
	106-42-3							
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	106	73	131
EP080: Naphthalene	91-20-3	1	mg/kg	5	0.5 mg/kg	71.9	70	130

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	Order :		
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Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: SOIL

Sub-Matrix: SOIL					Matrix Spike (MS) Rep	oort	
				Spike	Spike Recovery (%)	Recovery	Limits (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SW	Том	High
EG005T: Total Metals	: by ICP-AES(QCLot: 2498206)						
EM1210519-008	TPA1.2/0.5	EG005T: Arsenic	7440-38-2	50 mg/kg	93.2	20	130
		EG005T: Barium	7440-39-3	50 mg/kg	98.0	20	130
		EG005T: Beryllium	7440-41-7	50 mg/kg	99.9	70	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	94.0	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	100	20	130
		EG005T: Copper	7440-50-8	50 mg/kg	102	20	130
		EG005T: Lead	7439-92-1	50 mg/kg	89.9	20	130
		EG005T: Manganese	7439-96-5	50 mg/kg	91.2	20	130
		EG005T: Nickel	7440-02-0	50 mg/kg	87.8	20	130
		EG005T: Vanadium	7440-62-2	50 mg/kg	94.5	70	130
		EG005T: Zinc	7440-66-6	50 mg/kg	90.0	20	130
EG035T: Total Recov	verable Mercury by FIMS (QCLot: 2498207)						
EM1210519-008	TPA1.2/0.5	EG035T: Mercury	7439-97-6	5.0 mg/kg	93.7	20	120
EP074A: Monocyclic	Aromatic Hydrocarbons (QCLot: 2496929)						
EM1210519-008	TPA1.2/0.5	EP074: Benzene	71-43-2	2 mg/kg	78.8	64	126
		EP074: Toluene	108-88-3	2 mg/kg	101	65	131
EP074E: Halogenated	1 Aliphatic Compounds (QCLot: 2496929)						
EM1210519-008	TPA1.2/0.5	EP074: 1.1-Dichloroethene	75-35-4	2 mg/kg	110	50	124
		EP074: Trichloroethene	79-01-6	2 mg/kg	91.6	60	122
EP074F: Halogenated	I Aromatic Compounds (QCLot: 2496929)						
EM1210519-008	TPA1.2/0.5	EP074: Chlorobenzene	108-90-7	2 mg/kg	98.8	69	129
EP075A: Phenolic Co	mpounds(QCLot: 2498540)						
EM1210519-008	TPA1.2/0.5	EP075: Phenol	108-95-2	5 mg/kg	86.4	23.7	119
		EP075: 2-Chlorophenol	95-57-8	5 mg/kg	76.0	31.1	116
		EP075: 2-Nitrophenol	88-75-5	5 mg/kg	71.7	16.4	115
		EP075: 4-Chloro-3-Methylphenol	59-50-7	5 mg/kg	86.2	22.3	122
		EP075: Pentachlorophenol	87-86-5	5 mg/kg	77.6	17.6	142
EP075B: Polynuclean	Aromatic Hydrocarbons (QCLot: 2498540)						
EM1210519-008	TPA1.2/0.5	EP075: Acenaphthene	83-32-9	5 mg/kg	85.2	25.4	122
		EP075: Pyrene	129-00-0	5 mg/kg	87.1	14.6	127
EP075D: Nitrosamine	s (QCLot: 2498540)						
EM1210519-008	TPA1.2/0.5	EP075: N-Nitrosodi-n-propylamine	621-64-7	5 mg/kg	76.8	17.8	110
EP075E: Nitroaromat	ics and Ketones(QCLot: 2498540)						

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Sub-Matrix: SOIL					Matrix Spike (MS) Repo	ort	
				Spike	Spike Recovery (%)	Recovery	Limits (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SW	том	High
EP075E: Nitroaromat	ics and Ketones(QCLot: 2498540)- contin	ned					
EM1210519-008	TPA1.2/0.5	EP075: 2.4-Dinitrotoluene	121-14-2	5 mg/kg	80.8	28.3	112
EP075G: Chlorinated	Hydrocarbons (QCLot: 2498540)						
EM1210519-008	TPA1.2/0.5	EP075: 1.4-Dichlorobenzene	106-46-7	5 mg/kg	81.8	23	112
		EP075: 1.2.4-Trichlorobenzene	120-82-1	5 mg/kg	77.6	12.9	111
EP080/071: Total Petr	roleum Hydrocarbons (QCLot: 2496863)						
EB1223999-002	Anonymous	EP080: C6 - C9 Fraction		28 mg/kg	109	49	127
EP080/071: Total Petr	roleum Hydrocarbons (QCLot: 2496928)						
EM1210519-008	TPA1.2/0.5	EP080: C6 - C9 Fraction		28 mg/kg	78.8	49	127
EP080/071: Total Petr	roleum Hydrocarbons (QCLot: 2498562)						
EM1210519-008	TPA1.2/0.5	EP071: C10 - C14 Fraction		544 mg/kg	95.6	54	123
		EP071: C15 - C28 Fraction	1	1981 mg/kg	109	74	134
		EP071: C29 - C36 Fraction		818 mg/kg	104	63	143
EP080/071: Total Rec	overable Hydrocarbons - NEPM 2010 Draft	(QCLot: 2496863)					
EB1223999-002	Anonymous	EP080: C6 - C10 Fraction		33 mg/kg	102	20	130
EP080/071: Total Rec	overable Hydrocarbons - NEPM 2010 Draft	(QCLot: 2496928)					
EM1210519-008	TPA1.2/0.5	EP080: C6 - C10 Fraction		33 mg/kg	76.5	20	130
EP080/071: Total Rec	overable Hydrocarbons - NEPM 2010 Draft	(QCLot: 2498562)					
EM1210519-008	TPA1.2/0.5	EP071: >C10 - C16 Fraction		870 mg/kg	103	54	123
		EP071: >C16 - C34 Fraction		2495 mg/kg	100	74	134
		EP071: >C34 - C40 Fraction		263 mg/kg	137	63	143
EP080: BTEXN (QCL	ot: 2496863)						
EB1223999-002	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	117	58	136
		EP080: Toluene	108-88-3	2 mg/kg	122	63	135

INTERPRETIVE OUNTROL REPORT INTERPRETIVE OUNTROL REPORT End End/10.19 Page 1.013 End End/10.10 Page 1.013 End End/10.10 Page 1.013 End End/10.10 Page 1.013 End End/10.10 End/10.10 End/10.10 End/10.10 End/	INTERPRETIVE QUALITY CONTROL REPORT Control INTERVISION Control INTERVISION Control INTERVISION Control Control INTERVISION Control Control Control INTERVISION Control Control <th< th=""><th></th><th>Division</th><th></th><th></th></th<>		Division		
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 Inis report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. Inis interpretive Quality Control Report contains the following information: Analysis Holding Time Compliance Outlity Control Parameter Frequency Compliance Brief Method Summaries Summary of Outliers 	Its report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. This interpretive Quality Control Report contains the following information: a Quality Control Parameter Frequency Compliance Brief Method Summaries brief Method Summaries a Summary of Outliers Environmenter I Dutision Method Summaries Part of the ALS Laboratory Group	tuote number	· : ME/441/12	No. of samples received No. of samples analysed	: 34 : 11
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Analysis Holding Time Compliance

dilutions and reruns. Information is also provided re the sample container (preservative) from which the analysis aliquot was taken. Elapsed period to analysis represents number of days from sampling where no extraction / digestion where this is present. For composite samples, sampling date is assumed to be that of the oldest sample contributing to the composite. Sample date for laboratory produced leachates is assumed as the completion date of the leaching process. Outliers for holding time are based on USEPA SW 846, APHA, AS and NEPM (1999). A listing of breaches is provided in the The following report summarises extraction / preparation and analysis times and compares with recommended holding times. Dates reported represent first date of extraction or analysis and precludes subsequent Summary of Outliers. Holding times for leachate methods (excluding elutriates) vary according to the analytes being determined on the resulting solution. For non-volatile analytes, the holding time compliance assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These soil holding times are: Organics (14 days); Mercury (28 days) & other metals (180 days). A recorded breach therefore does not guarantee a breach for all non-volatile parameters.

Matrix: SOIL					Evaluation:	× = Holding time	oreach; ✓ = Within	holding time.
Method		Sample Date	Extr	action / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content								
Soil Glass Jar - Unpreserved								
TPA1.1/1.0,	TPA1.2/0.5,	07-SEP-2012				13-SEP-2012	21-SEP-2012	>
TPA1.3/0.8,	TPA1.4/1.0,							
TPA1.5/1.5,	TPA1.12/0.5,							
TPA1.13/1.0,	TPA2.1/1.5,							
BH2A/0.5,	QC01/07092012,							
QC02/07092012								
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved								
TPA1.1/1.0,	TPA1.2/0.5,	07-SEP-2012	14-SEP-2012	06-MAR-2013	>	17-SEP-2012	06-MAR-2013	>
TPA1.3/0.8,	TPA1.4/1.0,							
TPA1.5/1.5,	TPA1.12/0.5,							
TPA1.13/1.0,	TPA2.1/1.5,							
BH2A/0.5,	QC01/07092012,							
QC02/07092012								
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved								
TPA1.1/1.0,	TPA1.2/0.5,	07-SEP-2012	14-SEP-2012	05-OCT-2012	>	14-SEP-2012	05-OCT-2012	>
TPA1.3/0.8,	TPA1.4/1.0							
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved								
TPA1.1/1.0,	TPA1.2/0.5,	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
TPA1.3/0.8,	TPA1.4/1.0							
EP074B: Oxygenated Compounds								
Soil Glass Jar - Unpreserved								
TPA1.1/1.0,	TPA1.2/0.5,	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
TPA1.3/0.8,	TPA1.4/1.0							
EP074C: Sulfonated Compounds								
Soil Glass Jar - Unpreserved								
TPA1.1/1.0,	TPA1.2/0.5,	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
TPA1.3/0.8,	TPA1.4/1.0							

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atrix: SOIL					Evaluation:	x = Holding time	oreach; ✓ = Within	holding time.
Aethod		Sample Date	Ext	action / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074D: Fumigants								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
EP074E: Halogenated Aliphatic Compounds							-	
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
EP074F: Halogenated Aromatic Compounds								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	ТРА1.2/0.5, ТРА1.4/1.0	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
EP074G: Trihalomethanes								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
EP075A: Phenolic Compounds								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	ТРА1.2/0.5, ТРА1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
EP075C: Phthalate Esters								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
EP075D: Nitrosamines								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
EP075E: Nitroaromatics and Ketones								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
EP075F: Haloethers								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
EP075G: Chlorinated Hydrocarbons								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	ТРА1.2/0.5, ТРА1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
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Matrix: SOIL					Evaluation:	<pre>x = Holding time</pre>	breach ; 🗸 = Within	holding time.
Method		Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075H: Anilines and Benzidines								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8.	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
EP075I: Organochlorine Pesticides				_				
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	>
EP075J: Organophosphorus Pesticides								
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0	07-SEP-2012	14-SEP-2012	21-SEP-2012	>	15-SEP-2012	24-OCT-2012	5
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved								
TPA1.1/1.0, TPA1.3/0.8, TPA1.5/1.5, BH2A/0.5, QC02/07092012	TPA1.2/0.5, TPA1.4/1.0, TPA2.1/1.5, QC01/07092012,	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
Soil Glass Jar - Unpreserved TPA1.1/1.0, TPA1.3/0.8, TPA1.5/1.5, TPA1.13/1.0, BP2A0.5, OCONTOPORT	TPA1.2/0.5, TPA1.4/1.0, TPA1.12/0.5, TPA2.1/1.5, QC01/07092012,	07-SEP-2012	17-SEP-2012	21-SEP-2012	>	17-SEP-2012	27-0CT-2012	>
EP080/071: Total Recoverable Hydrocarbons - NEP	M 2010 Draft							
Soil Glass Jar - Unpreserved								
TPA1.1/1.0, TPA1.3/0.8,	TPA1.2/0.5, TPA1.4/1.0,	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>
TPA1.2, TPA1.13, TPA1.13/10	I FA1. 12/0.5, TPA2 1/1 5							
BH2A/0.5, QC02/07092012	QC01/07092012,							
Soil Glass Jar - Unpreserved								
TPA1.1/1.0,	TPA1.2/0.5,	07-SEP-2012	17-SEP-2012	21-SEP-2012	>	17-SEP-2012	27-OCT-2012	>
TPA1.3/0.8,	TPA1.4/1.0,							
TPA1.5/1.5, TPA1 13/1 D	TPA1.12/0.5, TPA2.1/1.5							
BH2A/0.5,	QC01/07092012,							
QC02/07092012								

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Vlatrix: SOIL					Evaluation:	<pre>x = Holding time</pre>	breach;	holding time.	
Method		Sample Date	Ê	traction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP080: BTEX									
Soil Glass Jar - Unpreserved									
TPA1.5/1.5,	TPA1.12/0.5,	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>	
TPA1.13/1.0,	TPA2.1/1.5,								
BH2A/0.5,	QC01/07092012,								
QC02/07092012									
EP080: BTEXN									
Soil Glass Jar - Unpreserved									
TPA1.5/1.5,	TPA1.12/0.5,	07-SEP-2012	13-SEP-2012	21-SEP-2012	>	14-SEP-2012	21-SEP-2012	>	
TPA1.13/1.0,	TPA2.1/1.5,								
BH2A/0.5,	QC01/07092012,								
QC02/07092012									

Project





Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(where) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: SOIL

Evaluation: x = Quality Control frequency not within specification; <math>v' = Quality Control frequency within specification.

Quality Control Sample Type		ပိ	unt		Rate (%)		Quality Control Specification
Analytical Methods	Method	gC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	7	20	10.0	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Semivolatile Organic Compounds	EP075	-	4	25.0	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	7	20	10.0	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	7	20	10.0	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	7	15	13.3	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	4	26	15.4	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	-	7	14.3	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Laboratory Control Samples (LCS)							
Semivolatile Organic Compounds	EP075	-	4	25.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	-	20	5.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	-	20	5.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	-	15	6.7	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	7	26	7.7	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	~	7	14.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
Semivolatile Organic Compounds	EP075	-	4	25.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	-	20	5.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	-	20	5.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	-	15	6.7	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	7	26	7.7	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	-	7	14.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Matrix Spikes (MS)							
Semivolatile Organic Compounds	EP075	-	4	25.0	5.0	>	ALS QCS3 requirement
Total Mercury by FIMS	EG035T	-	20	5.0	5.0	>	ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	-	20	5.0	5.0	>	ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	-	15	6.7	5.0	>	ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	2	26	7.7	5.0	>	ALS QCS3 requirement
Volatile Organic Compounds	EP074	-	7	14.3	5.0	>	ALS QCS3 requirement

Brief Method Summaries



The analytical procedures used by the Environmental I developed procedures are employed in the absence of Certificate of Analysis. Sources from which ALS metho	Division have been develop documented standards or ds have been developed a	bed from establish by client request. re provided withir	ed internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house The following report provides brief descriptions of the analytical procedures employed for results reported in the the Method Descriptions.
Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2010 Draft) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Total Metals by ICP-AES	EG005T	SOIL	(APHA 21st ed., 3120; USEPA SW 846 - 6010) (ICPAES) Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (1999) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	AS 3550, APHA 21st ed., 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (1999) Schedule B(3)
TPH - Semivolatile Fraction	EP071	SOIL	(USEPA SW 846 - 8015A) Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C36. This method is compliant with NEPM (1999) Schedule B(3) (Method 506.1)
Volatile Organic Compounds	EP074	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 501)
Semivolatile Organic Compounds	EP075	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (1999) Schedule B(3) (Method 502)
TPH Volatiles/BTEX	EP080	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 501)
Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	(USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids (Option A - Concentrating)	ORG17A	SOIL	In-house, Mechanical agitation (tumbler). 20g of sample, Na2SO4 and surrogate are extracted with 150mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Tumbler Extraction of Solids (Option B - Non-concentrating)	ORG17B	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 20mL 1:1 DCM/Acetone by end over end tumble. The solvent is transferred directly to a GC vial for analysis.



Summary of Outliers

Outliers : Quality Control Samples

The following report highlights outliers flagged in the Quality Control (QC) Report. Surrogate recovery limits are static and based on USEPA SW846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). This report displays QC Outliers (breaches) only.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: SOIL							
Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP074D: Fumigants	2959776-005		2.2-Dichloropropane	594-20-7	48.0 %	51-130%	Recovery less than lower control limit
EP074D: Fumigants	2959776-005		cis-1.3-Dichloropropylen e	10061-01-5	51.5 %	59-109%	Recovery less than lower control limit
EP074D: Fumigants	2959776-005		trans-1.3-Dichloropropyle ne	10061-02-6	50.4 %	52-110%	Recovery less than lower control limit
EP074E: Halogenated Aliphatic Compounds	2959776-005		1.1-Dichloroethene	75-35-4	61.9 %	62-124%	Recovery less than lower control limit
EP074E: Halogenated Aliphatic Compounds	2959776-005		1.1-Dichloropropylene	563-58-6	66.3 %	71-117%	Recovery less than lower control limit
EP074G: Trihalomethanes	2959776-005		Chloroform	67-66-3	70.4 %	71-121%	Recovery less than lower control limit

- For all matrices, no Method Blank value outliers occur.
- For all matrices, no Duplicate outliers occur.
- For all matrices, no Matrix Spike outliers occur.

Regular Sample Surrogates

• For all regular sample matrices, no surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

This report displays Holding Time breaches only. Only the respective Extraction / Preparation and/or Analysis component is/are displayed.

No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

The following report highlights breaches in the Frequency of Quality Control Samples.

No Quality Control Sample Frequency Outliers exist.

ALS	Group			Environmental Prantecular Existing
Environmenta	l Division			
		CERTIFICA.	TE OF ANALYSIS	
Work Order	: ES1223327		Page	: 1 of 17
Client	CARDNO LANE PIPER P	РТУ ЦТВ	Laboratory	: Environmental Division Sydney
Contact	: SRIJEETA DE		Contact	: Sarah Hodgson
Address	: 154 HIGHBURY ROAD		Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
		(ALIA 3125		
Telenhone	: Srijeela.ue@lariepiper.co - +61 03 08880100	nn.au	Telenhone	ୁ ଥେଣା।୧୦୦୫୨୦୩/ଅଣ୍ଟମେ୪୩୦.୯୦୩୮ ୦୦୨ ହନ୍ୟର ହନନ୍ଦ
Facsimile	: +61 03 98083511		Facsimile	
Project	: 212163 3		QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number	:			
C-O-C number			Date Samples Received	: 28-SEP-2012
Sampler			Issue Date	: 04-OCT-2012
Site	: CFA FISKVILLE			
			No. of samples received	:23
Quote number	: MEBQ/115/12		No. of samples analysed	: 7
This report sup(ersedes any previous report(s) w	vith this reference. Results apply to	the sample(s) as submitted.	All pages of this report have been checked and approved for
This October of				
General (Analysis contains the following infort Comments	TIAILOTT.		
 Analytica Surrogatu 	il Results e Control Limits			
<	NATA Accredited Laboratory 825	Signatories This document has been elect	ronically signed by the auth	orized signatories indicated below. Electronic signing has been
ATA N	Accredited for compliance with	carried out in compliance with proce	dures specified in 21 CFR Part 11	
TIT	ISO/IEC 17025.	Signatories	Position	Accreditation Category
		Celine Conceicao	Senior Spectroscopist	Sydney Inorganics
WORLD RECOGNISED		Edwandy Fadjar	Organic Coordinator	Sydney Organics
ACCREDITATION		Evic. Oluar la		
		Address 277-289 Woodpark Road Smithfield NSW Au Environmental Division Svidney ARN 84 000 33	lstralia 2164 PHONE +61-2-8784 8555 Facsimi 6 020 Part of the AI S. Groun – A. Cambhell Brother	lie +61-2-8784 8500 se limited Commany
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Page	Work Order	Client	Project	



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. LOR = Limit of reporting Key:

A = This result is computed from individual analyte detections at or above the level of reporting

EP075: 'Sum of PAH' is the sum of the USEPA 16 priority PAHs

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Sub-Matrix: SOIL		Clier	nt sample ID	TPA1/8-0.5	TPA3/1-1.0	TPA3/1-0.5	TPA3/1-1.5	TPA3/5-0.5
	Cli	ent samplin	g date / time	26-SEP-2012 08:30	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00
Compound	CAS Number	LOR	Unit	ES1223327-003	ES1223327-013	ES1223327-014	ES1223327-015	ES1223327-016
EA055: Moisture Content								
Moisture Content (dried @ 103°C)		1.0	%	37.5	26.3	24.7	24.5	21.0
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	5	<5	<5
Barium	7440-39-3	10	mg/kg	80	30	30	40	50
Beryllium	7440-41-7	-	mg/kg	Ÿ	~	-	Ý	۲.
Cadmium	7440-43-9	-	mg/kg	Ŷ	7	4	Ý	~
Chromium	7440-47-3	2	mg/kg	52	22	52	22	24
Cobalt	7440-48-4	2	mg/kg	4	2	7	3	3
Copper	7440-50-8	2	mg/kg	8	5	7	9	6
Lead	7439-92-1	5	mg/kg	11	6	26	13	21
Manganese	7439-96-5	2	mg/kg	12	11	21	20	44
Nickel	7440-02-0	2	mg/kg	8	ß	15	S	9
Vanadium	7440-62-2	5	mg/kg	79	47	160	60	96
Zinc	7440-66-6	5	mg/kg	8	<5	ß	<5	6
EG035T: Total Recoverable Mercury by	FIMS					•		
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarl	bons							
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	08-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
p-lsopropyltoluene	99-87-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	2	mg/kg		<5	<5	<5	<5
2-Butanone (MEK)	78-93-3	5	mg/kg		<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	2	mg/kg		<5	<5	<5	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg		<5	<5	<5	<5



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ub-Matrix: SOIL		Clier	nt sample ID	TPA1/8-0.5	TPA3/1-1.0	TPA3/1-0.5	TPA3/1-1.5	TPA3/5-0.5
	Cli	ent samplin	g date / time	26-SEP-2012 08:30	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00
Sompound	CAS Number	LOR	Unit	ES1223327-003	ES1223327-013	ES1223327-014	ES1223327-015	ES1223327-016
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP074E: Halogenated Aliphatic Compounds	S							
Dichlorodifluoromethane	75-71-8	2	mg/kg		<5	<5	<5	<5
Chloromethane	74-87-3	5	mg/kg		<5	<5	<5	<5
Vinyl chloride	75-01-4	5	mg/kg		<5	<5	<5	<5
Bromomethane	74-83-9	5	mg/kg		<5	<5	<5	<5
Chloroethane	75-00-3	5	mg/kg		<5	<5	<5	<5
Trichlorofluoromethane	75-69-4	5	mg/kg		<5	<5	<5	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
lodomethane	74-88-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP074F: Halogenated Aromatic Compounds	S							



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Sub-Matrix: SOIL		Clier	it sample ID	TPA1/8-0.5	TPA3/1-1.0	TPA3/1-0.5	TPA3/1-1.5	TPA3/5-0.5
	Clie	nt samplin	g date / time	26-SEP-2012 08:30	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00
Compound	CAS Number	LOR	Unit	ES1223327-003	ES1223327-013	ES1223327-014	ES1223327-015	ES1223327-016
EP074F: Halogenated Aromatic Compounds	s - Continued							
Chlorobenzene	108-90-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Bromoform	75-25-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP075A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
2-Chlorophenol	95-57-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	88-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2.4-Dimethy Iphenol	105-67-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	87-86-5	1	mg/kg		<1	<1	4	<1
EP075B: Polynuclear Aromatic Hydrocarbon	JS							
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	91-58-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5

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ub-Matrix: SOIL		Clier	it sample ID	TPA1/8-0.5	TPA3/1-1.0	TPA3/1-0.5	TPA3/1-1.5	TPA3/5-0.5
	Clie	ent sampling	g date / time	26-SEP-2012 08:30	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00
Compound	CAS Number	LOR	Unit	ES1223327-003	ES1223327-013	ES1223327-014	ES1223327-015	ES1223327-016
EP075B: Polynuclear Aromatic Hydrd	ocarbons - Continued							
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Benzo(b) &	205-99-2 207-08-9	-	mg/kg		₽	⊽	Ŷ	۰ ۲
Benzo(k)fluoranthene								
7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
3-Methylcholanthrene	56-49-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Sum of PAHs		0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP075C: Phthalate Esters								
Dimethyl phthalate	131-11-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Diethyl phthalate	84-66-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Di-n-butyl phthalate	84-74-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Butyl benzyl phthalate	85-68-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0
Di-n-octylphthalate	117-84-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0
N-Nitrosomorpholine	59-89-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
N-Nitrosopiperidine	100-75-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
N-Nitrosodiphenyl &	86-30-6 122-39-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0
Diphenylamine								
Methapyrilene	91-80-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP075E: Nitroaromatics and Ketones								
2-Picoline	109-06-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Acetophenone	98-86-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Nitrobenzene	98-95-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Isophorone	78-59-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0
1-Naphthylamine	134-32-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5



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ub-Matrix: SOIL		Clier	nt sample ID	TPA1/8-0.5	TPA3/1-1.0	TPA3/1-0.5	TPA3/1-1.5	TPA3/5-0.5
	CI	ent samplin _i	g date / time	26-SEP-2012 08:30	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00
punoduo	CAS Number	LOR	Unit	ES1223327-003	ES1223327-013	ES1223327-014	ES1223327-015	ES1223327-016
EP075E: Nitroaromatics and Ketones - Co	ontinued							
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Azobenzene	103-33-3	-	mg/kg	-	۲,	₹ V	4	~
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
Phenacetin	62-44-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
4-Aminobiphenyl	92-67-1	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
Pentachloronitrobenzene	82-68-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Pronamide	23950-58-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
Chlorobenzilate	510-15-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Hexachloroethane	67-72-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Hexachloropropylene	1888-71-7	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	-	<2.5	<2.5	<2.5	<2.5
Pentachlorobenzene	608-93-5	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0
FP075H: Anilines and Benzidines								
Aniline	62-53-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
4-Chloroaniline	106-47-8	0.5	mg/kg	-	<0.5	<0.5	<0.5	<0.5
2-Nitroaniline	88-74-4	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0
3-Nitroaniline	99-09-2	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0
Dibenzofuran	132-64-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
4-Nitroaniline	100-01-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Carbazole	86-74-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
3.3 - Dichlorobenzidine	91-94-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP075I: Organochlorine Pesticides								



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Sub-Matrix: SOIL		Clie	nt sample ID	TPA1/8-0.5	TPA3/1-1.0	TPA3/1-0.5	TPA3/1-1.5	TPA3/5-0.5
	Cli	ent samplin	g date / time	26-SEP-2012 08:30	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00
Compound	CAS Number	LOR	Unit	ES1223327-003	ES1223327-013	ES1223327-014	ES1223327-015	ES1223327-016
EP075I: Organochlorine Pesticides - Contin	ued							
alpha-BHC	319-84-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
gamma-BHC	58-89-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
alpha-Endosulfan	959-98-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
4.4`-DDE	72-55-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Dieldrin	60-57-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
beta-Endosulfan	33213-65-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
4.4`-DDD	72-54-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
4.4`-DDT	50-29-3	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0
EP075J: Organophosphorus Pesticides								
Dichlorvos	62-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Dimethoate	60-51-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Diazinon	333-41-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Malathion	121-75-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Fenthion	55-38-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	2921-88-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Pirimphos-ethyl	23505-41-1	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Chlorfenvinphos	470-90-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Prothiofos	34643-46-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
Ethion	563-12-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction		10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction		50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction		100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction		100	mg/kg	<100	<100	<100	<100	<100
C10 - C36 Fraction (sum)		50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbor	ns - NEPM 2010) Draft						
C6 - C10 Fraction		10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	1	50	mg/kg	<50	<50	<50	<50	<50



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Analytical Results

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Sub-Matrix: SOIL		Clier	nt sample ID	TPA1/8-0.5	TPA3/1-1.0	TPA3/1-0.5	TPA3/1-1.5	TPA3/5-0.5
	Clie	nt sampling	g date / time	26-SEP-2012 08:30	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00	25-SEP-2012 15:00
Compound	AS Number	LOR	Unit	ES1223327-003	ES1223327-013	ES1223327-014	ES1223327-015	ES1223327-016
EP080/071: Total Recoverable Hydrocarbons -	NEPM 2010	Draft - Co	ontinued					
>C16 - C34 Fraction	1	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	-	100	mg/kg	<100	<100	<100	<100	<100
>C10 - C40 Fraction (sum)	1	50	mg/kg	<50	<50	<50	<50	<50
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%		80.1	80.7	79.7	82.1
Toluene-D8	2037-26-5	0.1	%		84.6	83.4	86.5	86.9
4-Bromofluorobenzene	460-00-4	0.1	%		71.9	69.6	70.8	71.1
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.1	%		108	101	121	97.4
Phenol-d6	13127-88-3	0.1	%		101	83.7	95.6	69.9
2-Chlorophenol-D4	33951-73-6	0.1	%		97.9	82.7	96.2	75.9
2.4.6-Tribromophenol	118-79-6	0.1	%		94.0	70.7	73.1	75.6
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.1	%		114	87.8	102	89.6
1.2-Dichlorobenzene-D4	2199-69-1	0.1	%		94.2	73.5	84.7	74.2
2-Fluorobiphenyl	321-60-8	0.1	%		119	91.9	107	95.3
Anthracene-d10	1719-06-8	0.1	%		119	100	115	102
4-Terphenyl-d14	1718-51-0	0.1	%		127	97.9	114	99.6
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	82.9	89.2	92.3	89.6	96.0
Toluene-D8	2037-26-5	0.1	%	86.3	94.9	100	99.4	102
4-Bromofluorobenzene	460-00-4	0.1	%	75.6	81.8	86.4	83.8	85.1




Sub-Matrix: SOIL		Cli	ent sample ID	TPA3/5-1.0	QC1			-
	CI	ent sampli	ng date / time	25-SEP-2012 15:00	26-SEP-2012 15:00			
Compound	CAS Number	LOR	Unit	ES1223327-017	ES1223327-019	ł	ł	ł
EA055: Moisture Content								
Moisture Content (dried @ 103°C)		1.0	%	25.2	32.5		1	I
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5		I	I
Barium	7440-39-3	10	mg/kg	40	70		1	-
Beryllium	7440-41-7	-	mg/kg	Ŷ	4		-	I
Cadmium	7440-43-9	-	mg/kg	¥	4		1	-
Chromium	7440-47-3	2	mg/kg	52	54		-	I
Cobalt	7440-48-4	2	mg/kg	4	4		ł	-
Copper	7440-50-8	5	mg/kg	6	8		-	
Lead	7439-92-1	5	mg/kg	16	12		1	-
Manganese	7439-96-5	5	mg/kg	12	11		ł	
Nickel	7440-02-0	2	mg/kg	8	6			
Vanadium	7440-62-2	5	mg/kg	77	95		1	-
Zinc	7440-66-6	5	mg/kg	7	8			
EG035T: Total Recoverable Mercury by F	SWI							
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1		-	ł
EP074A: Monocyclic Aromatic Hydrocarb	suoi							
Benzene	71-43-2	0.2	mg/kg	<0.2				
Toluene	108-88-3	0.5	mg/kg	<0.5				
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5				
meta- & para-Xylene 10	8-38-3 106-42-3	0.5	mg/kg	<0.5				
Styrene	100-42-5	0.5	mg/kg	<0.5			-	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5		-		I
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5				
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5				
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5				
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5				
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5				
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5				
p-IsopropyItoluene	99-87-6	0.5	mg/kg	<0.5				
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5				
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5				
2-Butanone (MEK)	78-93-3	5	mg/kg	<5				
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5				
2-Hexanone (MBK)	591-78-6	2ı	mg/kg	<5			-	





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Sub-Matrix: SOIL		Clien	it sample ID	TPA3/5-1.0	QC1		-	-
	Clie	nt sampling	y date ∕ time	25-SEP-2012 15:00	26-SEP-2012 15:00	-		
Compound	AS Number	LOR	Unit	ES1223327-017	ES1223327-019	1		1
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5		-	I	-
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	-	-	1	
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5		ł	I	
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5		-	I	
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1	-	ł	
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5			I	
EP074E: Halogenated Aliphatic Compounds							•	
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5		1	I	1
Chloromethane	74-87-3	5	mg/kg	<5			-	
Vinyl chloride	75-01-4	5	mg/kg	<5				
Bromomethane	74-83-9	5	mg/kg	<5				
Chloroethane	75-00-3	5	mg/kg	<5		-	-	
Trichlorofluoromethane	75-69-4	5	mg/kg	<5			I	
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5		-	I	
lodomethane	74-88-4	0.5	mg/kg	<0.5				
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5				
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5			ł	-
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5				
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5			I	
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5			ł	-
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5			-	
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5			I	
Trichloroethene	79-01-6	0.5	mg/kg	<0.5				
Dibromomethane	74-95-3	0.5	mg/kg	<0.5				
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5				
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5				
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	-	-		
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5				
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5				
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5				
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5			-	
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5				
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5				
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	-	-		
EP074F: Halogenated Aromatic Compounds								





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Sub-Matrix: SOIL		Clier	nt sample ID	TPA3/5-1.0	QC1	-		
	Cli	ent samplin	g date / time	25-SEP-2012 15:00	26-SEP-2012 15:00	-		
Compound	CAS Number	LOR	Unit	ES1223327-017	ES1223327-019	I	-	
EP074F: Halogenated Aromatic Compounds -	- Continued							
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5				
Bromobenzene	108-86-1	0.5	mg/kg	<0.5				
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1			
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1	-		
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	-	-		
EP074G: Trihalomethanes						•	•	
Chloroform	67-66-3	0.5	mg/kg	<0.5	-	-	-	
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	-	-		
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	-	-		
Bromoform	75-25-2	0.5	mg/kg	<0.5			-	
EP075A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5				
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	-	-		
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	1			
3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	-			
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	-	-		
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5				
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5			1	
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5				
4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5				
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5			1	
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	-	-		
Pentachlorophenol	87-86-5	-	mg/kg	<1		-		
EP075B: Polynuclear Aromatic Hydrocarbons	s							
Naphthalene	91-20-3	0.5	mg/kg	<0.5				
2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5				
2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5				
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5				
Acenaphthene	83-32-9	0.5	mg/kg	<0.5				
Fluorene	86-73-7	0.5	mg/kg	<0.5				
Phenanthrene	85-01-8	0.5	mg/kg	<0.5				
Anthracene	120-12-7	0.5	mg/kg	<0.5				
Fluoranthene	206-44-0	0.5	mg/kg	<0.5				
Pyrene	129-00-0	0.5	mg/kg	<0.5				
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5				
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5				





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		Clin	nt samula ID	TDA3/6 4 0	500			
oup-Matil IX. 301	G	ent sampling	g date / time	25-SEP-2012 15:00	26-SEP-2012 15:00			
Compound	CAS Number	LOR	Unit	ES1223327-017	ES1223327-019	 		
EP075B: Polynuclear Aromatic Hvd	Irocarbons - Continued							
Chrysene	218-01-9	0.5	mg/kg	<0.5		 	-	
Benzo(b) &	205-99-2 207-08-9	-	mg/kg	2		 		
Benzo(k)fluoranthene		L C	a li a	L. C				_
7.12-Dimethylbenz(a)anthracene	57-97-6	c.0	mg/kg	G.U>		 		
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1	 	I	_
3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5		 		_
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	I		I	
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	ł	 -	H	
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	-	 	H	
Sum of PAHs	-	0.5	mg/kg	<0.5	-	 	-	
EP075C: Phthalate Esters								
Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5		 	-	
Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	-	 	H	
Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	-		-	
Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	I	 	I	
bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	<5.0	-	 	-	
Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5		 		
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5		 		
N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5		 		
N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	<1.0		 		_
N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	I			_
N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	-	 		_
N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	I		I	_
N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	-	 	I	_
N-Nitrosodiphenyl &	86-30-6 122-39-4	1.0	mg/kg	<1.0		 	1	_
Diphenylamine		4	20/200	и ()				
Meriapymene	G-00-1 B	0.0	Ry/Rill	0.00				_
EP075E: Nitroaromatics and Keton	es							_
2-Picoline	109-06-8	0.5	mg/kg	<0.5		 	I	_
Acetophenone	98-86-2	0.5	mg/kg	<0.5	-	 		_
Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	-	 	-	_
Isophorone	78-59-1	0.5	mg/kg	<0.5		 		_
2.6-Dinitrotoluene	606-20-2	1.0	mg/kg	<1.0		 		_
2.4-Dinitrotoluene	121-14-2	1.0	mg/kg	<1.0		 		_
1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	-	 -	-	_





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ub-Matrix: SOIL		Clien	it sample ID	TPA3/5-1.0	QC1	-		
	Clie	ent sampling	a date ∕ time	25-SEP-2012 15:00	26-SEP-2012 15:00			
Compound	CAS Number	LOR	Unit	ES1223327-017	ES1223327-019	ł	ł	
EP075E: Nitroaromatics and Ketones - Cont	tinued							
4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5				
5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5				
Azobenzene	103-33-3	-	mg/kg	¥				
1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5				
Phenacetin	62-44-2	0.5	mg/kg	<0.5				
4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5				
Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5				
Pronamide	23950-58-5	0.5	mg/kg	<0.5				
Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5				
Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5				
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	-			
Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5				
4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5				
4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5				
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5				
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5				
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5				
Hexachloroethane	67-72-1	0.5	mg/kg	<0.5				
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5				
Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5				
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5				
Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5				
Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5				
Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	<1.0				
EP075H: Anilines and Benzidines								
Aniline	62-53-3	0.5	mg/kg	<0.5				
4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5				
2-Nitroaniline	88-74-4	1.0	mg/kg	<1.0				
3-Nitroaniline	99-09-2	1.0	mg/kg	<1.0				
Dibenzofuran	132-64-9	0.5	mg/kg	<0.5				
4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5				
Carbazole	86-74-8	0.5	mg/kg	<0.5				
3.3 Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5				
EP075I: Organochlorine Pesticides								





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ub-Matrix: SOIL		Clie	nt sample ID	TPA3/5-1.0	QC1	 		
	G	ient samplin	g date / time	25-SEP-2012 15:00	26-SEP-2012 15:00	 		
Jompound	CAS Number	LOR	Unit	ES1223327-017	ES1223327-019		-	
EP075I: Organochlorine Pesticides - Contin	ned							
alpha-BHC	319-84-6	0.5	mg/kg	<0.5		 		
beta-BHC	319-85-7	0.5	mg/kg	<0.5		 		
gamma-BHC	58-89-9	0.5	mg/kg	<0.5				
delta-BHC	319-86-8	0.5	mg/kg	<0.5		 		
Heptachlor	76-44-8	0.5	mg/kg	<0.5		 		
Aldrin	309-00-2	0.5	mg/kg	<0.5		 		
Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5		 -		
alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5		 		
4.4 [,] -DDE	72-55-9	0.5	mg/kg	<0.5		 		
Dieldrin	60-57-1	0.5	mg/kg	<0.5		 -		
Endrin	72-20-8	0.5	mg/kg	<0.5		 		
beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5		 		
4.4 [,] -DDD	72-54-8	0.5	mg/kg	<0.5				
Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5		 		
4.4`-DDT	50-29-3	1.0	mg/kg	<1.0				
EP075J: Organophosphorus Pesticides								
Dichlorvos	62-73-7	0.5	mg/kg	<0.5		 -		
Dimethoate	60-51-5	0.5	mg/kg	<0.5		 		
Diazinon	333-41-5	0.5	mg/kg	<0.5		 		
Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5		 		
Malathion	121-75-5	0.5	mg/kg	<0.5		 		
Fenthion	55-38-9	0.5	mg/kg	<0.5		 		
Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5		 		
Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5		 		
Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5		 		
Prothiofos	34643-46-4	0.5	mg/kg	<0.5		 		
Ethion	563-12-2	0.5	mg/kg	<0.5		 -		
≓P080/071: Total Petroleum Hydrocarbons	(0							
C6 - C9 Fraction		10	mg/kg	<10	<10	 		
C10 - C14 Fraction		50	mg/kg	<50	<50	 		
C15 - C28 Fraction		100	mg/kg	<100	<100	 		
C29 - C36 Fraction		100	mg/kg	<100	<100	 		
C10 - C36 Fraction (sum)		50	mg/kg	<50	<50	 		
EP080/071: Total Recoverable Hydrocarbo	ins - NEPM 201	0 Draft						
C6 - C10 Fraction		10	mg/kg	<10	<10	 		
>C10 - C16 Fraction		50	mg/kg	<50	<50	 		





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Sub-Matrix: SOIL		Clie	nt sample ID	TPA3/5-1.0	QC1		
	Cli	ent samplir	ig date / time	25-SEP-2012 15:00	26-SEP-2012 15:00	 	
Compound	CAS Number	LOR	Unit	ES1223327-017	ES1223327-019	 	
EP080/071: Total Recoverable Hydrocarbd	ons - NEPM 2010	0 Draft - C	ontinued				
>C16 - C34 Fraction	-	100	mg/kg	<100	<100	 	
>C34 - C40 Fraction		100	mg/kg	<100	<100	 	
^ >C10 - C40 Fraction (sum)		50	mg/kg	<50	<50	 	
EP074S: VOC Surrogates						•	
1.2-Dichloroethane-D4	17060-07-0	0.1	%	81.4		 	
Toluene-D8	2037-26-5	0.1	%	91.1		 	
4-Bromofluorobenzene	460-00-4	0.1	%	74.3		 	
EP075S: Acid Extractable Surrogates							
2-Fluorophenol	367-12-4	0.1	%	89.7		 	
Phenol-d6	13127-88-3	0.1	%	80.2		 	
2-Chlorophenol-D4	93951-73-6	0.1	%	76.0		 	
2.4.6-Tribromophenol	118-79-6	0.1	%	70.0		 	
EP075T: Base/Neutral Extractable Surrog	ates						
Nitrobenzene-D5	4165-60-0	0.1	%	93.7		 	
1.2-Dichlorobenzene-D4	2199-69-1	0.1	%	77.6		 	
2-Fluorobiphenyl	321-60-8	0.1	%	97.6		 	
Anthracene-d10	1719-06-8	0.1	%	105		 	
4-Terphenyl-d14	1718-51-0	0.1	%	105		 	
EP080S: TPH(V)/BTEX Surrogates							
1.2-Dichloroethane-D4	17060-07-0	0.1	%	96.2	91.9	 	
Toluene-D8	2037-26-5	0.1	%	105	104	 	
4-Bromofluorobenzene	460-00-4	0.1	%	88.8	87.3	 	

: 17 of 17	: ES1223327	: CARDNO LANE PIPER PTY LTD	: 212163 3
age	Vork Order	Client	roject



Number Low 060-07-0 70.1 060-07-0 70.1 037-26-5 66.3 460-00-4 60.3 367-12-4 10.0 367-12-4 10.0 367-12-4 10.0 367-12-4 10.0 3127-88-3 12.5 361-73-6 10.0 118-79-6 10.0 118-79-6 11.3 2199-69-1 11.3 2199-69-1 11.3 118-79-6 10.0 118-79-6 10.0 118-79-6 10.0 118-79-6 13.1 118-79-6 13.1 118-79-6 13.3 118-79-6 13.3 119-06-8 11.3 719-06-8 13.1 718-51-0 10.0 060-07-0 73.9 2037-26-5 73.9



Corder ES123327 It : CARDNO LANE PIPER PTY L tact : SRUEETA DE tact : SRUEETA DE ess : 154 HIGHBURY ROAD BURWOOD VIC, AUSTRALIA all : srijeeta de@lanepiper.com.at inie : srijeeta de@lanepiper.com.at phone : +61 03 98080100 simile : 212163 3 oct : 212163 3 Commber : -01	TD Page Labora Conta. Conta. Addres Addres . 3125	ane s a c t to ane s a c t to an	l of 20 Environmental Division Sydney Sarah Hodgson 277-289 Woodpark Road Smithfield NSW Australia 2164 arah.hodgson@alsenviro.com
it :: CARDNO LANE PIPER PTY L tact :: SRUJEETA DE ess :: 154 HIGHBURY ROAD ess :: 154 HIGHBURY ROAD ail :: srijeeta.de@lanepiper.com.at ail :: srijeeta.de@lanepiper.com.at ail :: +61 03 98880100 simile :: +61 03 98083511 ect :: 212163 3 ect :: CFA FISKVILLE Commber :	TD Labora Conta Addres . 3125 F-mail	ie e so tot	Environmental Division Sydney Sarah Hodgson 27-289 Woodpark Road Smithfield NSW Australia 2164 arah.hodgson@alsenviro.com
ail : srijeeta.de@lanepiper.com.au shone : +61 03 98880100 imile : +61 03 98083511 imile : 212163 3 ect : 212163 3 Commerce : CFA FISKVILLE	F-mail	e e	arah.hodgson@alsenviro.com
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pler :	Date S Issue D	amples Received	28-SEP-2012 04-OCT-2012
e number : MEBQ/115/12	No. of a	samples received samples analysed	13
 report supersedes any previous report(s) with ase. acuality Control Report contains the following informations Quality Control Report contains the following informations Quality Control Relative Percentage Method Blank (MB) and Laboratory Control Spike (LCS) For Matrix Spike (MS) Report; Recovery and Acceptance Lirr 	his reference. Results apply to the sample(in: Difference (RPD) and Acceptance Limits teport; Recovery and Acceptance Limits tts	s) as submitted. Al	pages of this report have been checked and approved
NATA Accredited Laboratory 825	<i>Signatories</i> This document has been electronically sign carried out in compliance with procedures specified <i>Signatories</i>	ed by the authoriz d in 21 CFR Part 11. <i>ttion</i>	d signatories indicated below. Electronic signing has be Accreditation Category
D RECOGNISED	Celine Conceicao Edwandy Fadjar Evie.Sidarta Inor	iior Spectroscopist anic Coordinator aanic Chemist	Sydney Inorganics Sydney Organics Sydney Inorganics

RIGHT SOLUTIONS RIGHT PARTNER

: 2 of 20	: ES1223327	: CARDNO LANE PIPER PTY LTD	: 212163 3
Page	Work Order	Client	Project



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot RPD = Relative Percentage Difference LOR = Limit of reporting # = Indicates failed QC Key:

3 of 20	ES1223327	CARDNO LANE PIPER PTY LTD	212163 3
	Work Order	Client :	Project :



Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit: Result between 10 and 20 times LOR:- 0% - 50%: Result > 20 times LOR:- 0% - 20%.

			L						
Sub-Matrix: SOIL						Laboratory D	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EA055: Moisture Con	tent (QC Lot: 2526238)								
ES1223188-002	Anonymous	EA055-103: Moisture Content (dried @ 103°C)		1.0	%	64.5	64.0	0.8	0% - 20%
ES1223327-017	TPA3/5-1.0	EA055-103: Moisture Content (dried @ 103°C)		1.0	%	25.2	23.3	7.9	0% - 20%
EG005T: Total Metals	by ICP-AES (QC Lot: 2524	172)							
ES1223103-040	Anonymous	EG005T: Beryllium	7440-41-7	-	mg/kg	4	۲ ۲	0.0	No Limit
		EG005T: Cadmium	7440-43-9	-	mg/kg	۰ ۲	ŕ	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	100	100	0.0	0% - 20%
		EG005T: Chromium	7440-47-3	2	mg/kg	80	თ	0.0	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	2	~2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	ю	2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	13	13	0.0	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	87	64	29.4	0% - 20%
		EG005T: Vanadium	7440-62-2	2	mg/kg	19	23	20.0	No Limit
		EG005T: Zinc	7440-66-6	S	mg/kg	19	13	35.2	No Limit
ES1223154-003	Anonymous	EG005T: Beryllium	7440-41-7	-	mg/kg	2	1	0.0	No Limit
		EG005T: Cadmium	7440-43-9	-	mg/kg	۰ ۲	ŕ	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	440	440	0.0	0% - 20%
		EG005T: Chromium	7440-47-3	2	mg/kg	4	4	0.0	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	4	4	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	12	10	13.6	No Limit
		EG005T: Arsenic	7440-38-2	2	mg/kg	13	12	10.3	No Limit
		EG005T: Copper	7440-50-8	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	85	87	2.9	0% - 20%
		EG005T: Vanadium	7440-62-2	5	mg/kg	10	11	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	S	<5	0.0	No Limit
EG035T: Total Recov	verable Mercury by FIMS(C	2C Lot: 2524771)							
ES122932-002	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES1223154-003	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic	Aromatic Hydrocarbons (C	2C Lot: 2523833)							
ES1223049-001	Anonymous	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			106-42-3	_					

⊃age Mork Order Slient ⊃roject	: 4 of 20 : ES1223327 : CARDNO LANE PIPER PT : 212163 3	ү LTD							SIS
Sub-Matrix: SOIL						Laboratory L	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074A: Monocyclid	Aromatic Hydrocarbons(d	2C Lot: 2523833) - continued							
ES1223049-001	Anonymous	EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-lsopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES1223049-010	Anonymous	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Sturene	100-42-5	0.5	ma/ka	<0.5	<0.5	0.0	No Limit
		EP074: ortho-Xvlene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074B: Oxygenate	d Compounds (QC Lot: 252	3833)							
ES1223049-001	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
ES1223049-010	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.0	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.0	No Limit
EP074C: Sulfonated	Compounds (QC Lot: 2523	833)							
ES1223049-001	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES1223049-010	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074D: Fumigants	(QC Lot: 2523833)								
ES1223049-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Page Work Order Client Project	: 5 of 20 : ES1223327 : CARDNO LANE PIPER PT : 212163 3	Ч LTD							ALS
Sub-Matrix: SOIL						Laboratory L	Juplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074D: Fumigants	(QC Lot: 2523833) - continu	bed					-		
ES1223049-001	Anonymous	EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES1223049-010	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074E: Halogenated	Aliphatic Compounds (QC	: Lot: 2523833)							
ES1223049-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: lodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	£	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
ES1223049-010	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: lodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Page Work Order Client Project	: 6 of 20 : ES1223327 : CARDNO LANE PIPER PT : 212163 3	Y LTD							ALS
Sub-Matrix: SOIL						Laboratory D	uplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074E: Halogenated	d Aliphatic Compounds (Qd	C Lot: 2523833) - continued							
ES1223049-010	Anonymous	EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	1.2	<0.5	79.8	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	2J	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.0	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.0	No Limit
EP074F: Halogenated	d Aromatic Compounds (Qd	C Lot: 2523833)							
ES1223049-001	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES1223049-010	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074G: Trihalometh	anes (QC Lot: 2523833)								
ES1223049-001	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES1223049-010	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Page Work Order Client Project	: 7 of 20 : ES1223327 : CARDNO LANE PIPER P : 212163 3	ТҮ ЦТД							ALS
Sub-Matrix: SOIL						Laboratory L	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074G: Trihalometh	anes (QC Lot: 2523833) -	continued							
ES1223049-010	Anonymous	EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075A: Phenolic Co	pmpounds (QC Lot: 25249	40)							
ES1223327-013	TPA3/1-1.0	EP075: Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3- & 4-Methylphenol	1319-77-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorophenol	87-86-5	-	mg/kg	۲ ۲	<1	0.0	No Limit
EP075B: Polynuclear	r Aromatic Hydrocarbons	(QC Lot: 2524940)							
ES1223327-013	TPA3/1-1.0	EP075: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Benzo(b) & Benzo(k)fluoranthene	205-99-2 207-08-9		mg/kg	7	$\overline{\mathbf{v}}$	0.0	No Limit
EP075C: Phthalate E	sters (QC Lot: 2524940)								
ES1223327-013	TPA3/1-1.0	EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			-	-			-		

Page Work Order Client Project	: 8 of 20 : ES1223327 : CARDNO LANE PIPER P : 212163 3	ΤΥ ΓΤΟ							SIS
Sub-Matrix: SOIL						Laboratory I	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075C: Phthalate E	sters (QC Lot: 2524940) -	continued							
ES1223327-013	TPA3/1-1.0	EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Di-n-octylphthalate	117-84-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: bis(2-ethylhexyl) phthalate	117-81-7	5.0	mg/kg	<5.0	<5.0	0.0	No Limit
EP075D: Nitrosamine	s (QC Lot: 2524940)								
ES1223327-013	TPA3/1-1.0	EP075: N-Nitrosomethylethylamine	10595-95-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodiethylamine	55-18-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: N-Nitrosopyrrolidine	930-55-2	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EP075E: Nitroaromat	ics and Ketones (QC Lot:	2524940)							
ES1223327-013	TPA3/1-1.0	EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Acetophenone	98-86-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Nitrobenzene	98-95-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Isophorone	78-59-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1-Naphthylamine	134-32-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroquinoline-N-oxide	56-57-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 5-Nitro-o-toluidine	99-55-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.3.5-Trinitrobenzene	99-35-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Phenacetin	62-44-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Aminobiphenyl	92-67-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachloronitrobenzene	82-68-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pronamide	23950-58-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethylaminoazobenzene	60-11-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorobenzilate	510-15-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Azobenzene	103-33-3	-	mg/kg	Ÿ	Ŷ	0.0	No Limit
		EP075: 2.6-Dinitrotoluene	606-20-2	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 2.4-Dinitrotoluene	121-14-2	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EP075F: Haloethers	(QC Lot: 2524940)								
ES1223327-013	TPA3/1-1.0	EP075: Bis(2-chloroethyl) ether	111-44-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Bis(2-chloroethoxy) methane	111-91-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chlorophenyl phenyl ether	7005-72-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Bromophenyl phenyl ether	101-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075G: Chlorinated	Hydrocarbons (QC Lot: 2	524940)							

Page Work Order Client Project	: 9 of 20 : ES1223327 : CARDNO LANE PIPER PT : 212163 3	Y LTD							ALS
Sub-Matrix: SOIL						Laboratory L	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075G: Chlorinated	Hydrocarbons (QC Lot: 25	24940) - continued							
ES1223327-013	TPA3/1-1.0	EP075: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloroethane	67-72-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachloropropylene	1888-71-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pentachlorobenzene	608-93-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Hexachlorobenzene (HCB)	118-74-1	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: Hexachlorocyclopentadiene	77-47-4	2.5	mg/kg	<2.5	<2.5	0.0	No Limit
EP075H: Anilines an	d Benzidines (QC Lot: 2524	(940)							
ES1223327-013	TPA3/1-1.0	EP075: Aniline	62-53-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Chloroaniline	106-47-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dibenzofuran	132-64-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4-Nitroaniline	100-01-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Carbazole	86-74-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 3.3'-Dichlorobenzidine	91-94-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 2-Nitroaniline	88-74-4	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075: 3-Nitroaniline	99-09-2	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EP075I: Organochlor	ine Pesticides (QC Lot: 252	24940)							
ES1223327-013	TPA3/1-1.0	EP075: alpha-BHC	319-84-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-BHC	319-85-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: gamma-BHC	58-89-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: delta-BHC	319-86-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor	76-44-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Aldrin	309-00-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Heptachlor epoxide	1024-57-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: alpha-Endosulfan	959-98-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDE	72-55-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dieldrin	60-57-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endrin	72-20-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: beta-Endosulfan	33213-65-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4`-DDD	72-54-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Endosulfan sulfate	1031-07-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: 4.4'-DDT	50-29-3	1.0	mg/kg	<1.0	<1.0	0.0	No Limit
EP075J: Organophos	sphorus Pesticides (QC Lot	t: 2524940)							
ES1223327-013	TPA3/1-1.0	EP075: Dichlorvos	62-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Dimethoate	60-51-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Diazinon	333-41-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos-methyl	5598-13-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Page Work Order	: 10 of 20 : ES1223327								
Client	CARDNO LANE PIPER PT	Y LTD							
Project	: 212163 3								(ALS)
Sub-Matrix: SOIL						Laboratory D	uplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP075J: Organophos	phorus Pesticides (QC Lot	: 2524940) - continued							
ES1223327-013	TPA3/1-1.0	EP075: Malathion	121-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Fenthion	55-38-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorpyrifos	2921-88-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Pirimphos-ethyl	23505-41-1	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Chlorfenvinphos	470-90-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Prothiofos	34643-46-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075: Ethion	563-12-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petr	roleum Hydrocarbons (QC I	Lot: 2523832)							
ES1223049-001	Anonymous	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
ES1223049-010	Anonymous	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petr	roleum Hydrocarbons (QC I	Lot: 2524752)							
ES1223010-042	Anonymous	EP071: C15 - C28 Fraction	-	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction		50	mg/kg	<50	<50	0.0	No Limit
ES1223013-011	Anonymous	EP071: C15 - C28 Fraction		100	mg/kg	120	120	0.0	No Limit
		EP071: C29 - C36 Fraction		100	mg/kg	150	130	12.9	No Limit
		EP071: C10 - C14 Fraction		50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Rec	overable Hydrocarbons - N	EPM 2010 Draft (QC Lot: 2523832)							
ES1223049-001	Anonymous	EP080: C6 - C10 Fraction		10	mg/kg	<10	<10	0.0	No Limit
ES1223049-010	Anonymous	EP080: C6 - C10 Fraction		10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Rec	overable Hydrocarbons - N	EPM 2010 Draft (QC Lot: 2524752)							
ES1223010-042	Anonymous	EP071: >C16 - C34 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction		50	mg/kg	<50	<50	0.0	No Limit
ES1223013-011	Anonymous	EP071: >C16 - C34 Fraction		100	mg/kg	200	180	5.8	No Limit
		EP071: >C34 - C40 Fraction	-	100	mg/kg	180	160	14.6	No Limit
		EP071: >C10 - C16 Fraction	1	50	mg/kg	<50	<50	0.0	No Limit

of 20	31223327	ARDNO LANE PIPER PTY LTD	2163 3
	. ES	: CA	: 21
Page	Work Order	Client	Project



Method Blank (MB) and Laboratory Control Spike (LCS) Report

parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS. L

Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	SDT	Том	High
EG005T: Total Metals by ICP-AES(QCLot: 2524772)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	118		
EG005T: Barium	7440-39-3	10	mg/kg	<10	143 mg/kg	113		-
EG005T: Beryllium	7440-41-7	£	mg/kg	₽	5.63 mg/kg	116		-
EG005T: Cadmium	7440-43-9	÷	mg/kg	₽	4.64 mg/kg	110		
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	105		
EG005T: Cobalt	7440-48-4	7	mg/kg	<2	16.0 mg/kg	111		
EG005T: Copper	7440-50-8	5	mg/kg	<5	32.0 mg/kg	113		-
EG005T: Lead	7439-92-1	5	mg/kg	<5	40.0 mg/kg	106		
EG005T: Manganese	7439-96-5	5	mg/kg	<5	130 mg/kg	110		
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.0 mg/kg	111		-
EG005T: Vanadium	7440-62-2	5	mg/kg	<5	29.6 mg/kg	118		
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	110		
EG035T: Total Recoverable Mercury by FIMS (QCLot: 252	24771)							
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	98.1		
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 252	23833)							
EP074: Benzene	71-43-2	0.5	mg/kg	<0.5	1 mg/kg	95.6	68	128
EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	98.3	65	133
EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	92.0	65	127
EP074: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	2 mg/kg	92.4	69	127
	106-42-3							
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	86.5	64	126
EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	93.8	70	128
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	89.5	66	128
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	85.8	63	129
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	87.4	63	129
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	86.2	64	130
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	86.9	63	129
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	86.0	63	129
EP074: p-lsopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	84.8	62	130
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	84.1	61	131
EP074B: Oxygenated Compounds(QCLot: 2523833)								
EP074: Vinyl Acetate	108-05-4	£	mg/kg		10 mg/kg	78.1	29.6	156
		Q	mg/kg	<5				

Page Work Order Client Project	: 12 of 20 E ES1223327 CARDNO LANE PIPER PTY LTD 212163 3								S
Sub-Matrix: SOIL					Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
					Report	Spike	Spike Recovery (%)	Recovery L	imits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	SD1	Том	High
EP074B: Oxygenated	Compounds(QCLot: 2523833)- cd	ontinued							
EP074: 2-Butanone (MEK	(78-93-3	с и	mg/kg	1 4	10 mg/kg	104	44	158
FP074 · 4-Methvl-2-nentan	(MIBK)	108-10-1	0	ma/ka	9	 10 ma/ka	97.8	54	138
			2 2	mg/kg	្				
EP074: 2-Hexanone (MBk	()	591-78-6	ر	mg/kg mg/kg		10 mg/kg 	9.66	54	136
EP074C: Sulfonated C	ompounds (QCLot: 2523833)								
EP074: Carbon disulfide		75-15-0	0.5	mg/kg	<0.5	1 mg/kg	75.6	54	126
EP074D: Fumigants (0	QCLot: 2523833)								
EP074: 2.2-Dichloropropa	ne	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	75.5	55	133
EP074: 1.2-Dichloropropa.	ne	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	96.2	69	127
EP074: cis-1.3-Dichloropro	opylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	71.1	54	124
EP074: trans-1.3-Dichloro	propylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	78.8	51	125
EP074: 1.2-Dibromoethan	e (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	89.0	66	126
EP074E: Halogenated	Aliphatic Compounds (QCLot: 252	(3833)							
EP074: Dichlorodifluorom	ethane	75-71-8	. 	mg/kg		10 mg/kg	102	30	148
			5	mg/kg	√2		1	1	-
EP074: Chloromethane		74-87-3	с ц	mg/kg		10 mg/kg	100	41	141
			· ·	Ry/Alli	7				
EP074: Vinyl chloride		/5-01-4	5 -1	mg/kg mg/kg	~22	10 mg/kg 	121	43	147
EP074: Bromomethane		74-83-9	-	mg/kg		10 mg/kg	117	47	141
			5	mg/kg	~2		-	-	
EP074: Chloroethane		75-00-3	5 -	mg/kg ma/ka	√ ~	10 mg/kg 	98.9	47 	143
EP074: Trichlorofluoromet	hane	75-69-4		mg/kg		10 mg/kg	93.6	49	135
			5	mg/kg	<5				
EP074: 1.1-Dichloroethen	٥	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	88.2	54	136
EP074: lodomethane		74-88-4	0.5	mg/kg	<0.5	1 mg/kg	61.9	43	129
EP074: trans-1.2-Dichloro	ethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	84.3	62	130
EP074: 1.1-Dichloroethan	Û	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	94.1	66	132
EP074: cis-1.2-Dichloroett	hene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	94.5	66	132
EP074: 1.1.1-Trichloroeth	ane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	71.8	62	126
EP074: 1.1-Dichloropropyi	lene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	86.0	64	128
EP074: Carbon Tetrachlor	ide	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	73.8	59	125
EP074: 1.2-Dichloroethan	Ð	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	93.7	70	132
EP074: Trichloroethene		79-01-6	0.5	mg/kg	<0.5	1 mg/kg	91.8	65	131
EP074: Dibromomethane		74-95-3	0.5	mg/kg	<0.5	1 mg/kg	89.8	65	127
EP074: 1.1.2-Trichloroeth	ane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	100	20	130

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Page Work Order Client Project	: 13 of 20 : ES1223327 : CARDNO LANE PIPER PTY LTD : 212163 3								
Sub-Matrix: SOIL					Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
		-			Report	Spike	Spike Recovery (%)	Recovery	.imits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	7CS	Гом	High
EP074E: Halogenated	Aliphatic Compounds (QCLot: 25)	23833) - continued							
EP074: 1.3-Dichloropropar	Ð	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	100	72	128
EP074: Tetrachloroethene		127-18-4	0.5	mg/kg	<0.5	1 mg/kg	93.5	67	143
EP074: 1.1.1.2-Tetrachlorc	bethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	72.4	62	122
EP074: trans-1.4-Dichloro-	2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	82.5	54	128
EP074: cis-1.4-Dichloro-2-	butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	85.6	55	129
EP074: 1.1.2.2-Tetrachlorc	bethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	99.5	56	132
EP074: 1.2.3-Trichloroprop	ane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	96.5	65	135
EP074: Pentachloroethane		76-01-7	0.5	mg/kg	<0.5	1 mg/kg	61.2	19.8	134
EP074: 1.2-Dibromo-3-chlo	propropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	70.0	53	129
EP074F: Halogenated A	Aromatic Compounds (QCLot: 25)	23833)							
EP074: Chlorobenzene		108-90-7	0.5	mg/kg	<0.5	1 mg/kg	99.4	70	128
EP074: Bromobenzene		108-86-1	0.5	mg/kg	<0.5	1 mg/kg	89.6	67	127
EP074: 2-Chlorotoluene		95-49-8	0.5	mg/kg	<0.5	1 mg/kg	91.8	64	130
EP074: 4-Chlorotoluene		106-43-4	0.5	mg/kg	<0.5	1 mg/kg	87.8	62	130
EP074: 1.2.3-Trichloroben:	zene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	93.1	60	132
EP074G: Trihalometha	nes (QCLot: 2523833)								
EP074: Chloroform		67-66-3	0.5	mg/kg	<0.5	1 mg/kg	89.8	65	131
EP074: Bromodichlorometi	hane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	89.7	61	121
EP074: Dibromochloromet.	hane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	64.6	63	121
EP074: Bromoform		75-25-2	0.5	mg/kg	<0.5	1 mg/kg	86.5	60	126
EP075A: Phenolic Com	ipounds(QCLot: 2524940)								
EP075: Phenol		108-95-2	0.5	mg/kg	<0.5	1.25 mg/kg	97.0	66.9	114
EP075: 2-Chlorophenol		95-57-8	0.5	mg/kg	<0.5	1.25 mg/kg	85.2	58.5	108
EP075: 2-Methylphenol		95-48-7	0.5	mg/kg	<0.5	1.25 mg/kg	90.6	43	103
EP075: 3- & 4-Methylphen	0	1319-77-3	1.0	mg/kg	<1.0	2.5 mg/kg	89.1	35.9	109
EP075: 2-Nitrophenol		88-75-5	0.5	mg/kg	<0.5	1.25 mg/kg	77.6	49.4	109
EP075: 2.4-Dimethylphenc	1	105-67-9	0.5	mg/kg	<0.5	1.25 mg/kg	66.6	.15	116
EP075: 2.4-Dichloropheno		120-83-2	0.5	mg/kg	<0.5	1.25 mg/kg	70.7	52.5	106
EP075: 2.6-Dichloropheno.		87-65-0	0.5	mg/kg	<0.5	1.25 mg/kg	83.8	48.2	98.6
EP075: 4-Chloro-3-Methyl	bhenol	59-50-7	0.5	mg/kg	<0.5	1.25 mg/kg	79.3	59	106
EP075: 2.4.6-Trichloropher	nol	88-06-2	0.5	mg/kg	<0.5	1.25 mg/kg	73.0	44.4	101
EP075: 2.4.5-Trichloropher	nol	95-95-4	0.5	mg/kg	<0.5	1.25 mg/kg	85.0	48	107
EP075: Pentachloropheno		87-86-5	1.0	mg/kg	4	2.5 mg/kg	49.4	4.43	89.2
EP075B: Polynuclear A	romatic Hydrocarbons (QCLot: 2	524940)							
EP075: Naphthalene		91-20-3	0.5	mg/kg	<0.5	1.25 mg/kg	90.7	63.7	108
EP075: 2-Methylnaphthale	ne	91-57-6	0.5	mg/kg	<0.5	1.25 mg/kg	86.4	60.8	110
EP075: 2-Chloronaphthale	ne	91-58-7	0.5	mg/kg	<0.5	1.25 mg/kg	83.9	59.1	110
EP075: Acenaphthylene		208-96-8	0.5	mg/kg	<0.5	1.25 mg/kg	84.8	58.8	106

Page : 14 of 20 Work Order : ES1223327 Client : CARDNO LANE PIPE Project : 212163 3	ER PTY LTD							ALS
Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (L	CS) Report	
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	TCS	Том	High
EP075B: Polynuclear Aromatic Hydrocarbor	ns (QCLot: 2524940) - continu	pe						
EP075: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.25 mg/kg	86.6	61.7	110
EP075: Fluorene	86-73-7	0.5	mg/kg	<0.5	1.25 mg/kg	85.2	59.2	110
EP075: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.25 mg/kg	89.8	61.9	108
EP075: Anthracene	120-12-7	0.5	mg/kg	<0.5	1.25 mg/kg	81.9	58.3	107
EP075: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.25 mg/kg	86.4	58.5	110
EP075: Pyrene	129-00-0	0.5	mg/kg	<0.5	1.25 mg/kg	85.8	60.4	109
EP075: N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	1.25 mg/kg	82.6	59.5	110
EP075: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.25 mg/kg	89.1	57.2	111
EP075: Chrysene	218-01-9	0.5	mg/kg	<0.5	1.25 mg/kg	92.2	58.4	113
EP075: Benzo(b) & Benzo(k)fluoranthene	205-99-2	-	mg/kg		2.5 mg/kg	89.0	57.1	112
	207-08-9	1.0	mg/kg	Ý	I		-	
EP075: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	1.25 mg/kg	# 109	48.1	106
EP075: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.25 mg/kg	84.2	56.6	108
EP075: 3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	1.25 mg/kg	74.0	52.7	108
EP075: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.25 mg/kg	73.4	56.8	110
EP075: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.25 mg/kg	71.4	54.7	110
EP075: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	1.25 mg/kg	70.7	55	112
EP075C: Phthalate Esters (QCLot: 2524940)								
EP075: Dimethyl phthalate	131-11-3	0.5	mg/kg	<0.5	1.25 mg/kg	89.6	60.1	111
EP075: Diethyl phthalate	84-66-2	0.5	mg/kg	<0.5	1.25 mg/kg	94.0	62.3	114
EP075: Di-n-butyl phthalate	84-74-2	0.5	mg/kg	<0.5	1.25 mg/kg	96.8	65.5	122
EP075: Butyl benzyl phthalate	85-68-7	0.5	mg/kg	<0.5	1.25 mg/kg	90.8	61.6	112
EP075: bis(2-ethylhexyl) phthalate	117-81-7	ت م	mg/kg		1.25 mg/kg	89.6	66.6	135
	117 01 0		6v/fill		1 DE malka			11
EPU/5: UI-n-octylphinalate EDA75D: Nitrocominos, /OCI ot: 2524040	0-40-711	C:D	Ry/Rill	0.07	6y/6111.cz-1	0.726	0	0
ED075: NNitrosomethylathylamine	10595-95-6	0.5	ma/ka	<0.5	1.25 ma/ka	91.5	39.4	124
	50000 00000000000000000000000000000000	20	Dallam		1 25 ma/ka	03.4	62.7	110
EP075. N-Nitrosourculatinice FP075. N-Nitrosopyrrolidine	930-55-2	0.5	mg/kg	2.2	1.25 mg/kg	87.4	42.8	102
		1.0	mg/kg	<1.0				
EP075: N-Nitrosomorpholine	59-89-2	0.5	mg/kg	<0.5	1.25 mg/kg	91.9	52.4	112
EP075: N-Nitrosodi-n-propylamine	621-64-7	0.5	mg/kg	<0.5	1.25 mg/kg	91.3	9.09	107
EP075: N-Nitrosopiperidine	100-75-4	0.5	mg/kg	<0.5	1.25 mg/kg	85.4	59.6	108
EP075: N-Nitrosodibutylamine	924-16-3	0.5	mg/kg	<0.5	1.25 mg/kg	86.1	59.4	106
EP075: N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	1.0	mg/kg	<1.0	2.5 mg/kg	77.4	38	110
EP075: Methapyrilene	91-80-5	0.5	mg/kg	<0.5	1.25 mg/kg	103	16.3	123
EP075E: Nitroaromatics and Ketones (QCLo	ot: 2524940)							
EP075: 2-Picoline	109-06-8	0.5	mg/kg	<0.5	1.25 mg/kg	89.4	27.3	129

Page : 15 o Work Order : ES1: Client : CAR	f 20 223327 DNO LANE PIPER PTY LTD								
Project : 2121	63 3								(ALS)
Sub-Matrix: SOIL					Method Blank (MB)		Laboratory Control Spike (L	CS) Report	
					1 Jonay	Spike	Spike Recovery (%)	Recovery	limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	rcs	Tow	High
EP075E: Nitroaromatics and	Ketones (QCLot: 2524940)	- continued							
EP075: Acetophenone		98-86-2	0.5	mg/kg	<0.5	1.25 mg/kg	88.3	62.6	110
EP075: Nitrobenzene		98-95-3	0.5	mg/kg	<0.5	1.25 mg/kg	94.8	64.4	112
EP075: Isophorone		78-59-1	0.5	mg/kg	<0.5	1.25 mg/kg	92.5	64	110
EP075: 2.6-Dinitrotoluene		606-20-2	0.5	mg/kg		1.25 mg/kg	87.1	58	114
			1.0	mg/kg	<1.0				
EP075: 2.4-Dinitrotoluene		121-14-2	0.5	mg/kg		1.25 mg/kg	99.7	55.8	113
			1.0	mg/kg	<1.0	I		1	
EP075: 1-Naphthylamine		134-32-7	0.5	mg/kg	<0.5	1.25 mg/kg	31.3	2.24	93
EP075: 4-Nitroquinoline-N-oxide		56-57-5	0.5	mg/kg	<0.5	1.25 mg/kg	37.0	3.12	108
EP075: 5-Nitro-o-toluidine		99-55-8	0.5	mg/kg	<0.5	1.25 mg/kg	69.2	48.3	98.5
EP075: Azobenzene		103-33-3	£	mg/kg		1.25 mg/kg	90.4	61.4	113
			1.0	mg/kg	2				
EP075: 1.3.5-Trinitrobenzene		99-35-4	0.5	mg/kg	<0.5	1.25 mg/kg	55.0	33	108
EP075: Phenacetin		62-44-2	0.5	mg/kg	<0.5	1.25 mg/kg	90.3	58.1	110
EP075: 4-Aminobiphenyl		92-67-1	0.5	mg/kg	<0.5	1.25 mg/kg	# 32.9	36.1	102
EP075: Pentachloronitrobenzene		82-68-8	0.5	mg/kg	<0.5	1.25 mg/kg	82.8	55.8	106
EP075: Pronamide		23950-58-5	0.5	mg/kg	<0.5	1.25 mg/kg	89.0	49.4	105
EP075: Dimethylaminoazobenzen	٥	60-11-7	0.5	mg/kg	<0.5	1.25 mg/kg	65.2	53.5	105
EP075: Chlorobenzilate		510-15-6	0.5	mg/kg	<0.5	1.25 mg/kg	# 49.8	57.4	112
EP075F: Haloethers (QCLot:	2524940)								
EP075: Bis(2-chloroethyl) ether		111-44-4	0.5	mg/kg	<0.5	1.25 mg/kg	68.1	63.1	113
EP075: Bis(2-chloroethoxy) metha	ne	111-91-1	0.5	mg/kg	<0.5	1.25 mg/kg	90.0	62.4	111
EP075: 4-Chlorophenyl phenyl eth	er	7005-72-3	0.5	mg/kg	<0.5	1.25 mg/kg	85.3	59	111
EP075: 4-Bromophenyl phenyl eth	er	101-55-3	0.5	mg/kg	<0.5	1.25 mg/kg	83.9	56.4	109
EP075G: Chlorinated Hydroca	arbons (QCLot: 2524940)								
EP075: 1.3-Dichlorobenzene		541-73-1	0.5	mg/kg	<0.5	1.25 mg/kg	85.6	60.4	106
EP075: 1.4-Dichlorobenzene		106-46-7	0.5	mg/kg	<0.5	1.25 mg/kg	86.5	62.1	107
EP075: 1.2-Dichlorobenzene		95-50-1	0.5	mg/kg	<0.5	1.25 mg/kg	80.9	61.3	107
EP075: Hexachloroethane		67-72-1	0.5	mg/kg	<0.5	1.25 mg/kg	84.0	53.8	107
EP075: 1.2.4-Trichlorobenzene		120-82-1	0.5	mg/kg	<0.5	1.25 mg/kg	79.2	62.9	108
EP075: Hexachloropropylene		1888-71-7	0.5	mg/kg	<0.5	1.25 mg/kg	85.6	39.1	110
EP075: Hexachlorobutadiene		87-68-3	0.5	mg/kg	<0.5	1.25 mg/kg	87.3	59.3	110
EP075: Hexachlorocyclopentadien	ē	77-47-4	0.5	mg/kg		1.25 mg/kg	80.5	17.2	106
			2.5	mg/kg	<2.5	-			
EP075: Pentachlorobenzene		608-93-5	0.5	mg/kg	<0.5	1.25 mg/kg	84.6	60	110
EP075: Hexachlorobenzene (HCB	(118-74-1	0.5	mg/kg	7	1.25 mg/kg	86.1	59.9	111
			0.1	6y/Alli	0.1.4				
EP075H: Anilines and Benzid	ines (QCLot: 2524940)		L	-	L		I		
EP075: Aniline		0Z-DJ-J	G.U	mg/kg	C.U>	gy/gm c/z. r	I'B'I	13.2	lυø

Page Work Order Client Project	: 16 of 20 : ES1223327 : CARDNO LANE PIPER PTY LTD : 212163 3								S
Sub-Matrix: SOIL					Method Blank (MB)		Laboratory Control Spike (L	CS) Report	
					Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	SD1	Том	High
EP075H: Anilines and	Benzidines (QCLot: 2524940) - cd	ontinued							
EP075: 4-Chloroaniline		106-47-8	0.5	mg/kg	<0.5	1.25 mg/kg	92.2	19.9	114
EP075: 2-Nitroaniline		88-74-4	0.5	mg/kg		1.25 mg/kg	80.4	57.4	109
LDOTE: 2 Mitroomilian		00-00	о. г с	mg/kg	0.12	 1 25 ma/ka	 65.0	од I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	03 7
EPU/0: 3-Nitroaniine		N-00-00	1.0	mg/kg	<1.0		0.00	<u>.</u>	
EP075: Dibenzofuran		132-64-9	0.5	mg/kg	<0.5	1.25 mg/kg	86.9	60.2	111
EP075: 4-Nitroaniline		100-01-6	0.5	mg/kg	<0.5	1.25 mg/kg	74.8	48.6	97.6
EP075: Carbazole		86-74-8	0.5	mg/kg	<0.5	1.25 mg/kg	85.1	61	109
EP075: 3.3'-Dichlorobenz	zidine	91-94-1	0.5	mg/kg	<0.5	1.25 mg/kg	24.8	15.6	101
EP075I: Organochlori	ne Pesticides (QCLot: 2524940)								
EP075: alpha-BHC		319-84-6	0.5	mg/kg	<0.5	1.25 mg/kg	90.6	59.5	110
EP075: beta-BHC		319-85-7	0.5	mg/kg	<0.5	1.25 mg/kg	92.1	53.4	113
EP075: gamma-BHC		58-89-9	0.5	mg/kg	<0.5	1.25 mg/kg	81.2	58.2	112
EP075: delta-BHC		319-86-8	0.5	mg/kg	<0.5	1.25 mg/kg	91.0	56.9	114
EP075: Heptachlor		76-44-8	0.5	mg/kg	<0.5	1.25 mg/kg	79.0	52	108
EP075: Aldrin		309-00-2	0.5	mg/kg	<0.5	1.25 mg/kg	90.7	54.9	112
EP075: Heptachlor epoxic	de	1024-57-3	0.5	mg/kg	<0.5	1.25 mg/kg	87.1	54.6	113
EP075: alpha-Endosulfan		959-98-8	0.5	mg/kg	<0.5	1.25 mg/kg	101	51.7	115
EP075: 4.4 [°] -DDE		72-55-9	0.5	mg/kg	<0.5	1.25 mg/kg	89.4	60.3	112
EP075: Dieldrin		60-57-1	0.5	mg/kg	<0.5	1.25 mg/kg	95.0	61.9	116
EP075: Endrin		72-20-8	0.5	mg/kg	<0.5	1.25 mg/kg	64.1	49	110
EP075: beta-Endosulfan		33213-65-9	0.5	mg/kg	<0.5	1.25 mg/kg	93.4	59.5	112
EP075: 4.4'-DDD		72-54-8	0.5	mg/kg	<0.5	1.25 mg/kg	104	58.5	116
EP075: Endosulfan sulfat	e	1031-07-8	0.5	mg/kg	<0.5	1.25 mg/kg	97.3	52.6	114
EP075: 4.4`-DDT		50-29-3	0.5	mg/kg ma/ka		1.25 mg/kg 	66.3	39.2	113
EP075J: Organophosi	phorus Pesticides (QCLot: 252494	(0							
EP075: Dichlorvos		62-73-7	0.5	mg/kg	<0.5	1.25 mg/kg	82.7	24.6	109
EP075: Dimethoate		60-51-5	0.5	mg/kg	<0.5	1.25 mg/kg	86.7	46.4	118
EP075: Diazinon		333-41-5	0.5	mg/kg	<0.5	1.25 mg/kg	110	50.3	116
EP075: Chlorpyrifos-meth	lyt	5598-13-0	0.5	mg/kg	<0.5	1.25 mg/kg	89.4	41.7	119
EP075: Malathion		121-75-5	0.5	mg/kg	<0.5	1.25 mg/kg	100	52.1	121
EP075: Fenthion		55-38-9	0.5	mg/kg	<0.5	1.25 mg/kg	83.0	43	116
EP075: Chlorpyrifos		2921-88-2	0.5	mg/kg	<0.5	1.25 mg/kg	89.8	51.1	115
EP075: Pirimphos-ethyl		23505-41-1	0.5	mg/kg	<0.5	1.25 mg/kg	89.4	50.9	115
EP075: Chlorfenvinphos		470-90-6	0.5	mg/kg	<0.5				
		01010	0.55	mg/kg		1.3/5 mg/kg	76.2	45.3	104
EPU/5: Prothiotos		04040-40-4	0. D	By/R	0.0		1.01	0.10	0
EPU/5: Ethion		2000-12-2	0.0	Ru/AIII	0.04	RN/RIII C∠.1	00.0	, ,	2

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Work Order	ES1223327
Client	CARDNO LANE PIPER PTY LTD
Project	212163 3



Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LCS) Report	
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	SD1	Том	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2523832)								
EP080: C6 - C9 Fraction	1	10	mg/kg	<10	26 mg/kg	95.0	68.4	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2524752)								
EP071: C10 - C14 Fraction		50	mg/kg	<50	200 mg/kg	120	59	131
EP071: C15 - C28 Fraction		100	mg/kg	<100	300 mg/kg	126	74	138
EP071: C29 - C36 Fraction	-	100	mg/kg	<100	200 mg/kg	116	63	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Dra	ift (QCLot: 2	2523832)						
EP080: C6 - C10 Fraction	-	10	mg/kg	<10	31 mg/kg	100	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Dra	ift (QCLot: 2	2524752)						
EP071: >C10 - C16 Fraction		50	mg/kg	<50	250 mg/kg	110	59	131
EP071: >C16 - C34 Fraction	1	100	mg/kg	<100	350 mg/kg	120	74	138
EP071: >C34 - C40 Fraction		100	mg/kg	<100				
		50	mg/kg		150 mg/kg	117	63	131

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on Matrix Spike (MS) Report analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: SOIL					Matrix Spike (MS) Report		
				Spike	Spike Recovery (%)	Recovery L	mits (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SW	Том	High
EG005T: Total Metals	by ICP-AES (QCLot: 2524772)						
ES1223103-040	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	106	70	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	105	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	102	70	130
		EG005T: Copper	7440-50-8	250 mg/kg	109	70	130
		EG005T: Lead	7439-92-1	250 mg/kg	103	70	130
		EG005T: Nickel	7440-02-0	50 mg/kg	101	70	130
		EG005T: Zinc	7440-66-6	250 mg/kg	101	70	130
EG035T: Total Recov	verable Mercury by FIMS (QCLot: 2524771)						
ES122932-002	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	110	70	130
EP074A: Monocyclic	Aromatic Hydrocarbons (QCLot: 2523833)						
ES1223049-001	Anonymous	EP074: Benzene	71-43-2	2.5 mg/kg	85.4	70	130
		EP074: Toluene	108-88-3	2.5 mg/kg	85.2	70	130
EP074E: Halogenated	Aliphatic Compounds (QCLot: 2523833)						
ES1223049-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	83.0	70	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	84.3	70	130
EP074F: Halogenated	Aromatic Compounds (QCLot: 2523833)						

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Sub-Matrix: SOIL					Matrix Spike (MS) Repor	t	
				Spike	Spike Recovery (%)	Recovery L	mits (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SW	Том	High
EP074F: Halogenate	d Aromatic Compounds (QCLot: 2523833)	- continued					
ES1223049-001	Anonymous	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	89.8	70	130
EP075A: Phenolic Co	ompounds (QCLot: 2524940)						
ES1223327-013	TPA3/1-1.0	EP075: Phenol	108-95-2	5 mg/kg	106	60	130
		EP075: 2-Chlorophenol	95-57-8	5 mg/kg	100	60	130
		EP075: 2-Nitrophenol	88-75-5	5 mg/kg	93.5	50	130
		EP075: 4-Chloro-3-Methylphenol	59-50-7	5 mg/kg	101	50	130
		EP075: Pentachlorophenol	87-86-5	10 mg/kg	38.9	5	130
EP075B: Polynuclear	r Aromatic Hydrocarbons (QCLot: 2524940)						
ES1223327-013	TPA3/1-1.0	EP075: Acenaphthene	83-32-9	5 mg/kg	116	50	130
		EP075: Pyrene	129-00-0	5 mg/kg	109	50	130
EP075D: Nitrosamine	es (QCLot: 2524940)						
ES1223327-013	TPA3/1-1.0	EP075: N-Nitrosodi-n-propylamine	621-64-7	5 mg/kg	99.9	50	130
EP075E: Nitroaromat	tics and Ketones(QCLot: 2524940)						
ES1223327-013	TPA3/1-1.0	EP075: 2.4-Dinitrotoluene	121-14-2	5 mg/kg	98.5	40	130
EP075G: Chlorinated	I Hydrocarbons (QCLot: 2524940)						
ES1223327-013	TPA3/1-1.0	EP075: 1.4-Dichlorobenzene	106-46-7	5 mg/kg	109	60	130
		EP075: 1.2.4-Trichlorobenzene	120-82-1	5 mg/kg	100	50	130
EP080/071: Total Pet	roleum Hydrocarbons (QCLot: 2523832)						
ES1223049-001	Anonymous	EP080: C6 - C9 Fraction		32.5 mg/kg	77.6	70	130
EP080/071: Total Pet	roleum Hydrocarbons (QCLot: 2524752)						
ES1223010-042	Anonymous	EP071: C10 - C14 Fraction		640 mg/kg	85.6	73	137
		EP071: C15 - C28 Fraction		3140 mg/kg	97.0	53	131
		EP071: C29 - C36 Fraction		2860 mg/kg	78.6	52	132
EP080/071: Total Red	coverable Hydrocarbons - NEPM 2010 Draft	(QCLot: 2523832)					
ES1223049-001	Anonymous	EP080: C6 - C10 Fraction		37.5 mg/kg	80.8	70	130
EP080/071: Total Red	coverable Hydrocarbons - NEPM 2010 Draft	(QCLot: 2524752)					
ES1223010-042	Anonymous	EP071: >C10 - C16 Fraction	-	850 mg/kg	109	73	137
		EP071: >C16 - C34 Fraction		4800 mg/kg	90.2	53	131
		EP071: >C34 - C40 Fraction		2400 mg/kg	64.8	52	132

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

9 The quality control term Matrix Spike (MS) and Matrix Spike Duplicate (MSD) refers to intralaboratory split samples spiked with a representative set of target analytes. The purpose of these QC parameters are monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: SOIL

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report Spike Recovery (%) Recovery Limits (%) RPDs (%)

Spike

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Sub-Matrix: SOIL				-	Matrix Spike	e (MS) and Matrix Spi	ike Duplicate	(MSD) Report		
				Spike	Spike Reco	very (%)	Recovery	Limits (%)	RPDs	(%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	WS	USD	Low	High	Value	Control Limit
EP080/071: Total Pet	roleum Hydrocarbons (QCLot:	2523832)								
ES1223049-001	Anonymous	EP080: C6 - C9 Fraction		32.5 mg/kg	77.6		20	130	1	ļ
EP080/071: Total Red	overable Hydrocarbons - NEPN	M 2010 Draft (QCLot: 2523832)								
ES1223049-001	Anonymous	EP080: C6 - C10 Fraction		37.5 mg/kg	80.8		20	130		ļ
EP074A: Monocyclic	Aromatic Hydrocarbons (QCL	.ot: 2523833)								
ES1223049-001	Anonymous	EP074: Benzene	71-43-2	2.5 mg/kg	85.4		20	130		ļ
		EP074: Toluene	108-88-3	2.5 mg/kg	85.2		70	130		
EP074E: Halogenated	d Aliphatic Compounds (QCLo	ıt: 2523833)								
ES1223049-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	83.0		20	130		
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	84.3		20	130		-
EP074F: Halogenated	Aromatic Compounds (QCLo	ot: 2523833)								
ES1223049-001	Anonymous	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	89.8		20	130		-
EP080/071: Total Pet	roleum Hydrocarbons (QCLot:	2524752)								
ES1223010-042	Anonymous	EP071: C10 - C14 Fraction		640 mg/kg	85.6		73	137	1	ł
		EP071: C15 - C28 Fraction	1	3140 mg/kg	97.0		53	131	-	I
		EP071: C29 - C36 Fraction		2860 mg/kg	78.6		52	132		1
EP080/071: Total Red	overable Hydrocarbons - NEPN	M 2010 Draft (QCLot: 2524752)								
ES1223010-042	Anonymous	EP071: >C10 - C16 Fraction		850 mg/kg	109		73	137		1
		EP071: >C16 - C34 Fraction	-	4800 mg/kg	90.2		53	131		
		EP071: >C34 - C40 Fraction	1	2400 mg/kg	64.8		52	132	-	-
EG035T: Total Recov	verable Mercury by FIMS (QCL	ot: 2524771)								
ES122932-002	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	110		70	130		l
EG005T: Total Metals	by ICP-AES (QCLot: 2524772)									
ES1223103-040	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	106		20	130		-
		EG005T: Cadmium	7440-43-9	50 mg/kg	105		70	130		1
		EG005T: Chromium	7440-47-3	50 mg/kg	102		70	130		I
		EG005T: Copper	7440-50-8	250 mg/kg	109		70	130		1
		EG005T: Lead	7439-92-1	250 mg/kg	103		70	130		ł
		EG005T: Nickel	7440-02-0	50 mg/kg	101		70	130		1
		EG005T: Zinc	7440-66-6	250 mg/kg	101		70	130		
EP075A: Phenolic Co	pmpounds(QCLot: 2524940)									
ES1223327-013	TPA3/1-1.0	EP075: Phenol	108-95-2	5 mg/kg	106		60	130		1
		EP075: 2-Chlorophenol	95-57-8	5 mg/kg	100		60	130		-
		EP075: 2-Nitrophenol	88-75-5	5 mg/kg	93.5		50	130		
		EP075: 4-Chloro-3-Methylphenol	59-50-7	5 mg/kg	101		50	130		
		EP075: Pentachlorophenol	87-86-5	10 mg/kg	38.9		2	130		-
EP075B: Polynuclean	Aromatic Hydrocarbons (QCU	-ot: 2524940)								
ES1223327-013	TPA3/1-1.0	FP075: Acenaphthene	83-32-9	5 mg/kg	116		50	130		1
			-)	_			-	-	

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Sub-Matrix: SOIL					Matrix Spi	ke (MS) and Matrix Spi	ike Duplicate	(MSD) Report		
				Spike	Spike Rec	overy (%)	Recovery I	Limits (%)	RPDs	(%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SM	USD	Low	High	Value	Control Limit
EP075B: Polynuclea	r Aromatic Hydrocarbons (Q	CLot: 2524940) - continued								
ES1223327-013	TPA3/1-1.0	EP075: Pyrene	129-00-0	5 mg/kg	109		50	130		1
EP075D: Nitrosamine	es (QCLot: 2524940)									
ES1223327-013	TPA3/1-1.0	EP075: N-Nitrosodi-n-propylamine	621-64-7	5 mg/kg	99.9		50	130	1	
EP075E: Nitroaroma	iics and Ketones (QCLot: 252	24940)								
ES1223327-013	TPA3/1-1.0	EP075: 2.4-Dinitrotoluene	121-14-2	5 mg/kg	98.5		40	130	-	
EP075G: Chlorinated	Hydrocarbons (QCLot: 2524	1940)								
ES1223327-013	TPA3/1-1.0	EP075: 1.4-Dichlorobenzene	106-46-7	5 mg/kg	109		60	130		
		EP075: 1.2.4-Trichlorobenzene	120-82-1	5 mg/kg	100		50	130	-	

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Environmental Division

INTERPRETIVE QUALITY CONTROL REPORT

Work Order	: ES1223327	Page	: 1 of 7
Client Contact Address	: CARDNO LANE PIPER PTY LTD : SRIJEETA DE : 154 HIGHBURY ROAD BURWOOD VIC, AUSTRALIA 3125	Laboratory Contact Address	: Environmental Division Sydney : Sarah Hodgson : 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail Telephone Facsimile	: srijeeta.de@lanepiper.com.au : +61 03 98880100 : +61 03 98083511	E-mail Telephone Facsimile	: sarah.hodgson@alsenviro.com : 03 8549 9652 : 03 8549 9626
Project Site	: 212163 3 : CFA FISKVILLE	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
C-O-C number		Date Samples Received	: 28-SEP-2012
Sampler		Issue Date	: 04-0CT-2012
Order number			
Quote number	: MEBQ/115/12	No. of samples received No. of samples analysed	: 23 : 7

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Interpretive Quality Control Report contains the following information:

- Analysis Holding Time Compliance
- Quality Control Parameter Frequency Compliance
 - Brief Method Summaries
 - Summary of Outliers

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Analysis Holding Time Compliance

extraction / digestion is involved or period from extraction / digestion where this is present. For composite samples, sampling date is assumed to be that of the oldest sample contributing to the composite. Sample date for laboratory produced leachates is assumed as the completion date of the leaching process. Outliers for holding time are based on USEPA SW 846, APHA, AS and NEPM (1999). A listing of breaches is provided in the dilutions and reruns. Information is also provided re the sample container (preservative) from which the analysis aliquot was taken. Elapsed period to analysis represents number of days from sampling where no The following report summarises extraction / preparation and analysis times and compares with recommended holding times. Dates reported represent first date of extraction or analysis and precludes subsequent Summary of Outliers.

Holding times for leachate methods (excluding elutriates) vary according to the analytes being determined on the resulting solution. For non-volatile analytes, the holding time compliance assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These soil holding times are: Organics (14 days); Mercury (28 days) & other metals (180 days). A recorded breach therefore does not guarantee a breach for all non-volatile parameters.

Matrix: SOIL					Evaluation:	x = Holding time t	reach ; 🗸 = Within	holding time.
Method		Sample Date	Ext	action / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content								
Soil Glass Jar - Unpreserved (EA055-103) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	ТРА3/1-0.5, ТРАЗ/5-0.5,	25-SEP-2012	ł		1	02-OCT-2012	09-OCT-2012	>
Soil Glass Jar - Unpreserved (EA055-103) TPA1/8-0.5,	acı	26-SEP-2012	ł			02-OCT-2012	10-OCT-2012	>
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	02-OCT-2012	24-MAR-2013	>	03-OCT-2012	24-MAR-2013	>
Soil Glass Jar - Unpreserved (EG005T) TPA1/8-0.5,	acı	26-SEP-2012	02-OCT-2012	25-MAR-2013	>	03-OCT-2012	25-MAR-2013	>
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	ТРА3/1-0.5, ТРА3/5-0.5,	25-SEP-2012	02-OCT-2012	23-OCT-2012	>	02-OCT-2012	23-OCT-2012	>
Soil Glass Jar - Unpreserved (EG035T) TPA1/8-0.5,	acı	26-SEP-2012	02-OCT-2012	24-OCT-2012	>	02-OCT-2012	24-OCT-2012	>
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010) Draft							
Soil Glass Jar - Unpreserved (EP071) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	03-OCT-2012	11-NOV-2012	>
Soil Glass Jar - Unpreserved (EP071) TPA1/8-0.5,	acı	26-SEP-2012	02-OCT-2012	10-OCT-2012	>	03-OCT-2012	11-NOV-2012	>
EP074D: Fumigants								
Soil Glass Jar - Unpreserved (EP074) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	30-SEP-2012	09-OCT-2012	>	03-OCT-2012	09-OCT-2012	>

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Matrix: SOIL						Evaluation:	× = Holding time	oreach ; < = Within	holding time.
Method			Sample Date	Ext	raction / Preparation			Analysis	
Container / Client Sample	; ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074E: Halogenated	Aliphatic Compounds								
Soil Glass Jar - Unpres. TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	srved (EP074)	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	30-SEP-2012	09-OCT-2012	>	03-OCT-2012	09-OCT-2012	>
EP074F: Halogenated	Aromatic Compounds								
Soil Glass Jar - Unpresi TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	srved (EP074)	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	30-SEP-2012	09-OCT-2012	>	03-OCT-2012	09-OCT-2012	>
EP074A: Monocyclic A	romatic Hydrocarbons								
Soil Glass Jar - Unpresi TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	erved (EP074)	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	30-SEP-2012	09-OCT-2012	>	03-OCT-2012	09-OCT-2012	>
EP074B: Oxygenated d	ompounds								
Soil Glass Jar - Unpres TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	srved (EP074)	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	30-SEP-2012	09-OCT-2012	>	03-OCT-2012	09-OCT-2012	>
EP074C: Sulfonated Co	spunodud								
Soil Glass Jar - Unpres. TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	srved (EP074)	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	30-SEP-2012	09-OCT-2012	>	03-OCT-2012	09-OCT-2012	>
EP074G: Trihalometha	hes								
Soil Glass Jar - Unpresi TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	erved (EP074)	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	30-SEP-2012	09-OCT-2012	>	03-OCT-2012	09-OCT-2012	>
EP075H: Anilines and I	Benzidines								
Soil Glass Jar - Unpres TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	srved (EP075)	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP075G: Chlorinated H	ydrocarbons								
Soil Glass Jar - Unpres TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	erved (EP075)	ТРАЗ/1-0.5, ТРАЗ/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP075F: Haloethers					-				
Soil Glass Jar - Unpres. TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	srved (EP075)	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>

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Matrix: SOIL					Evaluation:	<pre>x = Holding time t</pre>	oreach; < = Within	holding time.
Method		Sample Date	Ext	raction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075E: Nitroaromatics and Ketones								
Soil Glass Jar - Unpreserved (EP075) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	ТРАЗ/1-0.5, ТРАЗ/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP075D: Nitrosamines								
Soil Glass Jar - Unpreserved (EP075) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	ТРАЗ/1-0.5, ТРАЗ/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP075J: Organophosphorus Pesticides								
Soil Glass Jar - Unpreserved (EP075) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	ТРАЗ/1-0.5, ТРАЗ/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP075A: Phenolic Compounds								
Soil Glass Jar - Unpreserved (EP075) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	TPA3/1-0.5, TPA3/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP075C: Phthalate Esters								
Soil Glass Jar - Unpreserved (EP075) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	ТРАЗ/1-0.5, ТРАЗ/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	ТРАЗ/1-0.5, ТРАЗ/5-0.5,	25-SEP-2012	02-OCT-2012	09-OCT-2012	>	02-OCT-2012	11-NOV-2012	>
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP080) TPA3/1-1.0, TPA3/1-1.5, TPA3/5-1.0	ТРАЗ/1-0.5, ТРАЗ/5-0.5,	25-SEP-2012	30-SEP-2012	09-OCT-2012	>	03-OCT-2012	09-OCT-2012	>
Soil Glass Jar - Unpreserved (EP080) TPA1/8-0.5,	QC1	26-SEP-2012	30-SEP-2012	10-OCT-2012	>	03-OCT-2012	10-OCT-2012	>

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(where) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: SOIL

Evaluation: $\star = Quality Control frequency not within specification; <math>\star' = Quality Control frequency within specification.$

Quality Control Sample Type		Col	Int		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	7	15	13.3	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Semivolatile Organic Compounds	EP075	~	5	20.0	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	7	19	10.5	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	7	19	10.5	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	7	20	10.0	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	7	19	10.5	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	2	17	11.8	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Laboratory Control Samples (LCS)							
Semivolatile Organic Compounds	EP075	-	5	20.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	-	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	-	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	-	20	5.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	-	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	7	17	5.9	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
Semivolatile Organic Compounds	EP075	1	5	20.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	~	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	-	20	5.0	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	-	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	-	17	5.9	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Matrix Spikes (MS)							
Semivolatile Organic Compounds	EP075	1	5	20.0	5.0	>	ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	19	5.3	5.0	>	ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	-	19	5.3	5.0	>	ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	~	20	5.0	5.0	>	ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	~	19	5.3	5.0	>	ALS QCS3 requirement
Volatile Organic Compounds	EP074	~	17	5.9	5.0	>	ALS QCS3 requirement

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Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2010 Draft) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Total Metals by ICP-AES	EG005T	SOIL	(APHA 21st ed., 3120; USEPA SW 846 - 6010) (ICPAES) Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (1999) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	AS 3550, APHA 21st ed., 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (1999) Schedule B(3)
TPH - Semivolatile Fraction	EP071	SOIL	(USEPA SW 846 - 8015A) Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C36. This method is compliant with NEPM (1999) Schedule B(3) (Method 506.1)
Volatile Organic Compounds	EP074	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 501)
Semivolatile Organic Compounds	EP075	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (1999) Schedule B(3) (Method 502)
TPH Volatiles/BTEX	EP080	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 501)
Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	* ORG16	SOIL	(USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids (Option A - Concentrating)	ORG17A	SOIL	In-house, Mechanical agitation (tumbler). 20g of sample, Na2SO4 and surrogate are extracted with 150mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Tumbler Extraction of Solids (Option B - Non-concentrating)	ORG17B	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 20mL 1:1 DCM/Acetone by end over end tumble. The solvent is transferred directly to a GC vial for analysis.

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Summary of Outliers

Outliers : Quality Control Samples

The following report highlights outliers flagged in the Quality Control (QC) Report. Surrogate recovery limits are static and based on USEPA SW846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). This report displays QC Outliers (breaches) only.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: SOIL

Limits Comment		48.1-106% Recovery greater than upper control limit	36.1-102% Recovery less than lower control limit	57.4-112% Recovery less than lower control limit
Data		109 %	32.9 %	49.8 %
CAS Number		57-97-6	92-67-1	510-15-6
Analyte		7.12-Dimethylbenz(a)anth racene	4-Aminobiphenyl	Chlorobenzilate
Client Sample ID				
Laboratory Sample ID		2993398-002	2993398-002	2993398-002
oup Name	ontrol Spike (LCS) Recoveries	olynuclear Aromatic Hydrocarbons	itroaromatics and Ketones	itroaromatics and Ketones

- For all matrices, no Method Blank value outliers occur.
- For all matrices, no Duplicate outliers occur.
- For all matrices, no Matrix Spike outliers occur.

Regular Sample Surrogates

For all regular sample matrices, no surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

This report displays Holding Time breaches only. Only the respective Extraction / Preparation and/or Analysis component is/are displayed.

No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

The following report highlights breaches in the Frequency of Quality Control Samples.

No Quality Control Sample Frequency Outliers exist.

ALS	Group				Sciences
Environmenta	l Division	CEDTIEICATE	OF ANALYCIC		
		VERIFICATE	OF ANALTOIS		
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General Comments

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^ = udvs ResolOs ALc . g@4 tPLc vr#vD4gal amali @ 4e@AQLms aCLPayLDe @e leDel LbRe. LRMm

- EP074: Particular sample (EM-1303970-025) shows poor surrogates recovery due to the high moisture content.
- EP075: Sample EM1303970-001 & duplicate required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly.
- EP075: 'Sum of PAH' is the sum of the USEPA 16 priority PAHs

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7gy@la®≮: SOIL (Ma®≮: SOIL)		Clie	ent sample ID	TP-A1-28/0.1	TP-A1-29/0.5	TP-A1-30/0.5	TP-A1-31/0.5	TP-A1-32/0.65
	Clie	ent sampli	ng date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-001	EM1303970-005	EM1303970-007	EM1303970-009	EM1303970-012
EA055: Moisture Content								
Moisture Content (dried @ 103°C)		1r0	%	9.2	7.2	20.8	19.1	18.2
EG005T: Total Metals by ICP-AES								
Arsenic	9TT0@Q@	ი	c owo	xG			xG	
Barium	9TT0@5@	10	c owo	630			40	
Beryllium	9TT0@1@	1	c owo	-			+	
Cadmium	9TT0@2@	٢	c owo	x1			x1	
Chromium	9TT0@9@		c owo	63			72	
Cobalt	9TT0@Q@		c owo	8			8	
Copper	9TT0@0@	U	c owo	8			12	
Lead	9T25@-@	U	c owo	27			12	
Manganese	9T25 @j	ŋ	c owo	74			25	
Nickel	9TT0@-@		c owo	17			20	
Vanadium	9TT0@-@	ŋ	c owo	129			95	
Zinc	9TT0@j@	ŋ	c owo	19			12	
EG035T: Total Recoverable Mercury by FII	IMS							
Mercury	9T25@9@	01	c owo	x0r1			x0r1	
EP074A: Monocyclic Aromatic Hydrocarbo	suc							
Benzene	91 @ 2@	0r-	c owo	x0r-	000	x0r-		x0r-
Toluene	100000	OrG	c owo	x0rG		x0rG		x0rG
Ethylbenzene	100@1@	OrG	c owo	x0rG		x0rG		x0rG
meta- & para-Xylene 10C	328028 10j @- @	OrG	c owo	x0rG		x0rG		x0rG
Styrene	100@-@	OrG	c owo	x0rG		x0rG		x0rG
ortho-Xylene	5G@9@	OrG	c owo	x0rG		x0rG		x 0rG
Isopropylbenzene	5000-00	OrG	c owo	x0rG		x0rG		x 0rG
n-Propylbenzene	102 @G@	OrG	c owo	x0rG		x0rG		x 0rG
1.3.5-Trimethylbenzene	100,009	OrG	c owo	x0rG		x0rG		x 0rG
sec-Butylbenzene	12G@Q@	OrG	c owo	x0rG		x0rG		x 0rG
1.2.4-Trimethylbenzene	5G@2@	OrG	c owo	x0rG		x0rG		x 0rG
tert-Butylbenzene	5000 @	OrG	c owo	x0rG		x0rG		x 0rG
p-IsopropyItoluene	55 @ 9@	OrG	c owo	x0rG		x0rG		x 0rG
n-Butylbenzene	10T (6) (0)	OrG	c owo	x0rG		x0rG		x0rG
EP074B: Oxygenated Compounds								
Vinyl Acetate	10Q@G@	U	c owo	xG		хG		хG
	-							

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Analytical Result	

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7gy@a@e: SOIL (Ma@e: SOIL)		Clie	ent sample ID	TP-A1-28/0.1	TP-A1-29/0.5	TP-A1-30/0.5	TP-A1-31/0.5	TP-A1-32/0.65
	Clie	nt sampli	ng date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-001	EM1303970-005	EM1303970-007	EM1303970-009	EM1303970-012
EP074B: Oxygenated Compounds - Continu	ued							
2-Butanone (MEK)	90 6 2	თ	c owo	xG		УĊ		УĊ
4-Methyl-2-pentanone (MIBK)	100@0@	ŋ	c owo	xG		хG		хG
2-Hexanone (MBK)	伍1 @ Q	U	c owo	xG		xG		хG
EP074C: Sulfonated Compounds						-	-	
Carbon disulfide	9G@G@	OrG	c owo	x0rG		x0rG		x0rG
EP074D: Fumigants				-			-	
2.2-Dichloropropane	GT (200)	orG	c owo	x0rG		x0rG		x0rG
1.2-Dichloropropane	90000 1	OrG	c owo	x0rG		x0rG		x 0rG
cis-1.3-Dichloropropylene	100 1001	OrG	c owo	x0rG		x0rG		x 0rG
trans-1.3-Dichloropropylene	100j 1@-@	OrG	c owo	x0rG		x0rG		x0rG
1.2-Dibromoethane (EDB)	10j @2@	OrG	c owo	x0rG		x0rG		x0rG
EP074E: Halogenated Aliphatic Compound	ds						-	
Dichlorodifluoromethane	9G@1@	ŋ	c owo	xG		УC		УX
Chloromethane	9T @9@	ŋ	c owo	xG		хG		хG
Vinyl chloride	9G@1@	ŋ	c owo	xG		хG		хG
Bromomethane	9T @2@	ŋ	c owo	xG		хG		хG
Chloroethane	90 0 00	ŋ	c owo	xG		хG		хG
Trichlorofluoromethane	9G@5@	ŋ	c owo	xG		хG		хG
1.1-Dichloroethene	9G@G@	OrG	c owo	x0rG		x0rG		x 0rG
lodomethane	9T @ C @	OrG	c owo	x0rG		x0rG		x0rG
trans-1.2-Dichloroethene	1G @0@	OrG	c owo	x0rG		x0rG		x 0rG
1.1-Dichloroethane	9G@T@	OrG	c owo	x 0rG		x0rG		x 0rG
cis-1.2-Dichloroethene	1G @5@	OrG	c owo	x0rG		x0rG		x0rG
1.1.1-Trichloroethane	91 CO	OrG	c owo	x0rG		x0rG		x0rG
1.1-Dichloropropylene	G 2000	OrG	c owo	×0rG		x0rG		x 0rG
Carbon Tetrachloride	G @2@	OrG	c owo	x0rG		x0rG		x 0rG
1.2-Dichloroethane	109@)	OrG	c owo	x 0rG		x0rG		x 0rG
Trichloroethene	95@1@	OrG	c owo	x0rG		x0rG		x 0rG
Dibromomethane	9T@G@	OrG	c owo	x0rG		x0rG		x 0rG
1.1.2-Trichloroethane	95@0@	OrG	c owo	x0rG		x0rG		x 0rG
1.3-Dichloropropane	1T- @O@	OrG	c owo	x 0rG		x0rG		x0rG
Tetrachloroethene	1-9@Q@	OrG	c owo	x0rG		x0rG		x 0rG
1.1.1.2-Tetrachloroethane	j 20@0@	OrG	c olio	x0rG		x0rG		x 0rG

: aoe	f GLbT2
HLP h PaleP	F EM1202590
n lvemC	f n IRSON t IOE : U ER : uY t uS
: RLNAC	f - 1- 1j 2 2
Analytical Results	



7gy@/a@<: SOIL (Ma@<: SOIL)		Clie	ent sample ID	TP-A1-28/0.1	TP-A1-29/0.5	TP-A1-30/0.5	TP-A1-31/0.5	TP-A1-32/0.65
	Č	:						
	C	ent sampli	ng date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-001	EM1303970-005	EM1303970-007	EM1303970-009	EM1303970-012
EP074E: Halogenated Aliphatic Compound	ds - Continued							
trans-1.4-Dichloro-2-butene	110@9@	OrG	c owo	x0rG		x0rG		x0rG
cis-1.4-Dichloro-2-butene	1T9j @1@	OrG	c owo	x0rG		x0rG		x0rG
1.1.2.2-Tetrachloroethane	95@T@	OrG	c owo	x0rG		x0rG		x0rG
1.2.3-Trichloropropane	5] @0@	OrG	c owo	x0rG		x0rG		x0rG
Pentachloroethane	9j @1@	OrG	c owo	x0rG		x0rG		x0rG
1.2-Dibromo-3-chloropropane	5] @-@	OrG	c owo	x0rG		x0rG		x0rG
EP074F: Halogenated Aromatic Compound	ds				~	-		
Chlorobenzene	100 6 00	OrG	c owo	x0rG		x0rG		x0rG
Bromobenzene	10000 0	OrG	c owo	x0rG		x0rG		x0rG
2-Chlorotoluene	5G@5@	OrG	c owo	x0rG		x0rG		x0rG
4-Chlorotoluene	10j @2@	OrG	c owo	x0rG		x0rG		x0rG
1.2.3-Trichlorobenzene	ന്നത്. എന്ത്	OrG	c owo	x0rG		x0rG		x0rG
EP074G: Trihalomethanes								
Chloroform	9 @ (OrG	c owo	x0rG		x0rG		xOrG
Bromodichloromethane	9G@9@	OrG	c owo	x0rG		x0rG		x0rG
Dibromochloromethane	1- T@O@	OrG	c owo	x0rG		x0rG		x0rG
Bromoform	9G@G@	OrG	c owo	x0rG		x0rG		x0rG
EP075A: Phenolic Compounds								
Phenol	10000G	OrG	c owo	x2r0		x0rG		x0rG
2-Chlorophenol	5G@9@	OrG	c owo	x2r0		x0rG		x0rG
2-Methylphenol	5G@Q@	OrG	c owo	x2r0		x0rG		x0rG
3- & 4-Methylphenol	1215@9@	OrG	c owo	x2r0		x0rG		xOrG
2-Nitrophenol	00000	OrG	c owo	x2r0		x0rG		x0rG
2.4-Dimethylphenol	10G@9@	OrG	c owo	x2r0		x0rG		x0rG
2.4-Dichlorophenol	1-00020	OrG	c owo	x2r0		x0rG		xOrG
2.6-Dichlorophenol	09 (C) (C)	OrG	c owo	x2r0		x0rG		x0rG
4-Chloro-3-Methylphenol	G (10)	OrG	c owo	x2r0		x0rG		xOrG
2.4.6-Trichlorophenol	000	OrG	c owo	x2r0		x0rG		xOrG
2.4.5-Trichlorophenol	5G@G@	OrG	c owo	x2r0		x0rG		x0rG
Pentachlorophenol	8 8 8 8	-	c owo	xj		x1		x1
EP075B: Polynuclear Aromatic Hydrocarbd	ons							
Naphthalene	51@0@	OrG	c owo	x2r0		x0rG		x0rG
2-Methylnaphthalene	51 @ 0	OrG	c owo	x2r0		x0rG		x0rG
	-			-				

SIS		TP-A1-32/0.65	11@: R@012 1G00	EM1303970-012		x 0rG	x0rG	x0rG	x0rG	x 0rG	x0rG	x0rG	x 0rG	x0rG	x 0rG	x 0rG	x1	x0rG	x 0rG	x0rG	x0rG	x0rG	x 0rG	x0rG		x0rG	x0rG	x0rG	x 0rG	xG0	x0rG		x0rG	x 0rG	x 1r0	x0rG	x 0rG	x0rG
		TP-A1-31/0.5	11@: R@012 1G00	EM1303970-009											000														000	000				000				
		TP-A1-30/0.5	11@: R@012 1G00	EM1303970-007		x0rG	x0rG	x0rG	x0rG	x0rG	x0rG	x0rG	x0rG	x0rG	x0rG	x0rG	x1	x0rG	x0rG	x0rG	x0rG	x0rG	x0rG	x0rG		x0rG	x0rG	x0rG	x0rG	×G0	x0rG		x0rG	x0rG	x1r0	x0rG	x0rG	x0rG
		TP-A1-29/0.5	11@: R@012 1G00	EM1303970-005																														000				
		TP-A1-28/0.1	11@: R@012 1G00	EM1303970-001		x2r0	x2r0	x2r0	x2r0	x2r0	x2r0	x2r0	x2r0	x2r0	x2r0	x2r0	xj	x2r0	x2r0	x2r0	x2r0	x2r0	x2r0	x2r0		x2r0	x2r0	x2r0	x2r0	x20r0	x2r0		x2r0	x2r0	xj r0	x2r0	x2r0	x2r0
		nt sample ID	g date / time	Unit		c owo	c owo	c owo	c owo	c ovio	c ovio	c ovio	c owo	c owo	c owo	c owo	c owo	c ovio	c owo	c ovio	c ovio	c owo	c ovio	c owo		c owo	c owo	c owo	c owo	c owo	c owo		c owo	c owo	c owo	c owo	c owo	c olio
		Clie	ent samplin	LOR		org	org	org	OrG	OrG	OrG	OrG	OrG	OrG	OrG	OrG	~	OrG	OrG	OrG	OrG	org	OrG	OrG		OrG	OrG	OrO	OrG	B	OrO		OrG	OrG	1r0	OrG	OrG	OrG
: U ER : uY tuS			CI	CAS Number	arbons - Continued	51 @Q@	- 0000	00 @ 0	G @2@	0.000 1 (C)	1-0@-@	- 0j @T@	1-5@0@	ය ල ම ි	ල් ඕලී	- 1001	- 06000 - 09000	(B) (B) (B) (B) (B) (B) (B) (B) (B) (B)	90 B	ල @දිම	152@5@	G@0@	151@T@			121@1@	ପାଲ୍ଲି (CIBIO	ගමා	119@1@	119@1@		10 G C C C	00000	520 GGG	G (C)	j - 1@T@	100 @G@
f j LbT2 f EM1202590 f n1 RSOh t1 OE f -1-1j 2 2	esults	Ma@k: SOIL)			uclear Aromatic Hydroc	alene								setamide	ine		thene	nz(a)anthracene		hrene	pyrene	racene	rlene		late Esters	ate	Ð	late	halate) phthalate	ate	amines	lethylamine	lamine	dine	oline	opylamine	line
: aoe H LP h PaeP n IvemC : PLNAC	Analytical R	7gy@da®≮: SOIL		Compound	EP075B: Polyn	2-Chloronaphth	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	N-2-Fluorenyl A	Benz(a)anthrace	Chrysene	Benzo(b) & Benzo(k)fluoran	7.12-Dimethylbe	Benzo(a)pyrene	3-Methylcholant	Indeno(1.2.3.cd)	Dibenz(a.h)anth	Benzo(g.h.i)per}	Sum of PAHs	EP075C: Phtha	Dimethyl phthal	Diethyl phthalat	Di-n-butyl phtha	Butyl benzyl phi	bis(2-ethylhexyl	Di-n-octylphthal	EP075D: Nitros	N-Nitrosomethy	N-Nitrosodiethy	N-Nitrosopyrroli	N-Nitrosomorph	N-Nitrosodi-n-pr	N-Nitrosopiperic



: aoe	f 9 LbT2
HLP h PateP	f EM1202590
n IvemC	f nIRSOh tIOE : UER : uY tuS
: R.NAC	f - 1- 1j 2 2
Analytical Docu	



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7gy@aœk: SOIL (Ma®k: SOIL)		CI	ent sample ID	TP-A1-28/0.1	TP-A1-29/0.5	TP-A1-30/0.5	TP-A1-31/0.5	TP-A1-32/0.65
	Clie	nt sampl	ing date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-001	EM1303970-005	EM1303970-007	EM1303970-009	EM1303970-012
EP075D: Nitrosamines - Continued								
N-Nitrosodibutylamine	5- T@j@	OrG	c owo	x2r0		x0rG		x0rG
N-Nitrosodiphenyl & Diphenylamine	ට ඔ 0ඬ 1 ඔිඩ ඔ	110	c owo	xj rð		x1r0		x 1r0
Methapyrilene	51 000	OrG	c owo	x2r0		x0rG		x 0rG
EP075E: Nitroaromatics and Ketones								
2-Picoline	105@j@	OrG	c owo	x2r0		x0rG		x 0rG
Acetophenone	50 0 1	OrG	c owo	x2r0		x0rG		x 0rG
Nitrobenzene	50000	OrG	c ovio	x2r0		x0rG		x 0rG
Isophorone	000000 00000	OrG	c ovío	x2r0		x0rG		x0rG
2.6-Dinitrotoluene	j 0j @ 0@	1r0	c ovio	xj r0		x1r0		x 1r0
2.4-Dinitrotoluene	1- 1@T@	1r0	c ovío	xj r0		x1r0		x 1r0
1-Naphthylamine	12T@-@	OrG	c owo	x2r0		x0rG		x0rG
4-Nitroquinoline-N-oxide	9	OrG	c owo	x2r0		x0rG		x0rG
5-Nitro-o-toluidine	55 BGB	OrG	c ovio	x2r0		x0rG		x0rG
Azobenzene	102@2@	-	c ovío	xj		x1		x1
1.3.5-Trinitrobenzene	55 @G@	OrG	c ovio	x2r0		x0rG		x 0rG
Phenacetin	j - @T@	OrG	c ovío	x2r0		x0rG		x 0rG
4-Aminobiphenyl	5- @ 9 @	OrG	c ovio	x2r0		x0rG		x 0rG
Pentachloronitrobenzene	0 0 0 0	OrG	c ovio	x2r0		x0rG		x 0rG
Pronamide	- 2500 @00	OrG	c ovio	x2r0		x0rG		x 0rG
Dimethylaminoazobenzene	j 0@1@	OrG	c owo	x2r0		x0rG		x 0rG
Chlorobenzilate	ଗ 0 ଅ କ୍	OrG	c owo	x2r0		x0rG		x 0rG
EP075F: Haloethers						-		
Bis(2-chloroethyl) ether	111@T@	OrG	c owo	x2r0		x0rG		x 0rG
Bis(2-chloroethoxy) methane	111@1@	OrG	c owo	x2r0		x0rG		x 0rG
4-Chlorophenyl phenyl ether	900G@-@	OrG	c owo	x2r0		x0rG		x 0rG
4-Bromophenyl phenyl ether	101 CCCC	OrG	c owo	x2r0		x0rG		x0rG
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	GT1@2@	OrG	c owo	x2r0		x0rG		x0rG
1.4-Dichlorobenzene	10j @j @	OrG	c owo	x2r0		x0rG		x 0rG
1.2-Dichlorobenzene	5G00	OrG	c owo	x2r0		x0rG		x0rG
Hexachloroethane	j 9 @- @	OrG	c owo	x2r0		x0rG		x0rG
1.2.4-Trichlorobenzene	1-0@-@	OrG	c owo	x2r0		x0rG		x0rG
Hexachloropropylene	1000@1@	OrG	c owo	x2r0		x0rG		x 0rG

: aoe f Q HLP hP4eP f El nlvemC f nl : PLMAC f -1	ILbT2 M1202590 I RSOh tI OE : U ER : uY tuS 1- 1j 2 2							ALS
Analytical Results								
7gy@aሙ: SOIL (Maሙ: SOIL	(Client sample ID	TP-A1-28/0.1	TP-A1-29/0.5	TP-A1-30/0.5	TP-A1-31/0.5	TP-A1-32/0.65
	S	lient san	npling date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-001	EM1303970-005	EM1303970-007	EM1303970-009	EM1303970-012
EP075G: Chlorinated Hydr	rocarbons - Continued							
Hexachlorobutadiene	මාමහ	Oro	c owo	x2r0		x0rG		x0rG
Hexachlorocyclopentadiene	D6D66	Ģ	c ovio	x1G0		X- IG		x-rG
Pentachlorobenzene	j 00 8 2@	Oro	c owo	x2r0		x0rG		x0rG
Hexachlorobenzene (HCB)	11 COTO	110	c owo	xj r0		x1r0		x 1r0
EP075H: Anilines and Ben	Izidines	-			-		-	
Aniline	j - 6 20	OrG	c owo	x2r0		xorG		x0rG
4-Chloroaniline	10 080	OrO	c owo	x2r0		x0rG		x0rG
2-Nitroaniline	000010	1r0	c owo	xj r0		x1r0		x 1r0
3-Nitroaniline	55 @ 5 @	110	c ovio	xj r0		x1r0		x 1r0
Dibenzofuran	12- @T@	OrO	c ovio	x2r0		x0rG		x0rG
4-Nitroaniline	100@1@	OrG	c owo	x2r0		x0rG		x0rG
Carbazole	G @T@	OrG	c ovio	x2r0		xorG		x0rG
3.3 '-Dichlorobenzidine	51@T@	ОЮ	c olio	x2r0		x0rG		x0rG
EP075I: Organochlorine P	esticides							
alpha-BHC	215@T@	OrG	c owo	x2r0		x0rG		x 0rG
beta-BHC	215@G@	OrO	c ovio	x2r0		x0rG		x0rG
gamma-BHC	G30000	ОЮ	c olio	x2r0		x0rG		x0rG
delta-BHC	215@ @	ОЮ	c olio	x2r0		x0rG		x 0rG
Heptachlor	9j @T@	ОЮ	c olio	x2r0		x0rG		x0rG
Aldrin	205@0@	OrO	c ovio	x2r0		x0rG		x 0rG
Heptachlor epoxide	10- T@9@	OrO	c olio	x2r0		x0rG		x 0rG
alpha-Endosulfan	565 @0@	OrG	c ovio	x2r0		x0rG		x 0rG
4.4`-DDE	9- 6 9-00	OrO	c ollo	x2r0		x0rG		x 0rG
Dieldrin	j 0@9@	OrG	c owo	x2r0		x0rG		x 0rG
Endrin	9- @0@	OrG	c owo	x2r0		x0rG		x 0rG
beta-Endosulfan	22-12@G	OrG	c ovio	x2r0		x0rG		x0rG
4.4`-DDD	9- @T@	ОЮ	c olio	x2r0		x0rG		x0rG
Endosulfan sulfate	1021@9@	OrG	c ovio	x2r0		x0rG		x0rG
4.4`-DDT	G @ S @	61 0	c ovio	xj r0		x1r0		x 1r0
EP075J: Organophosphor	us Pesticides							
Dichlorvos	j - @ 2 @	OrG	c olío	x2r0		x0rG		x0rG
Dimethoate	j 0@1@	9 Q	c olio	x2r0		x0rG		x0rG
Diazinon	222@1@	QO	c owo	x2r0		×0rG		x0rG



aoe	f 5 LbT2
HLP h PaleP	f EM1202590
I lvemC	f nl RSOh tl OE : U ER : uY tuS
R.NAC	f - 1- 1j 2 2



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7gy@laଫ≮: SOIL (Maଫ୯: SOIL)		Cili	ent sample ID	TP-A1-28/0.1	TP-A1-29/0.5	TP-A1-30/0.5	TP-A1-31/0.5	TP-A1-32/0.65
	Clie	nt sampli	ng date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-001	EM1303970-005	EM1303970-007	EM1303970-009	EM1303970-012
EP075J: Organophosphorus Pesticides -	Continued							
Chlorpyrifos-methyl	GG C@2@	OrG	c owo	x2r0		x0rG		x0rG
Malathion	1- 1 @G@	OrG	c ovio	x2r0		x0rG		x 0rG
Fenthion	60 @ 0@	OrG	c ovio	x2r0		x0rG		x 0rG
Chlorpyrifos	- 5- 1 000	OrG	c owo	x2r0		x0rG		x0rG
Pirimphos-ethyl	- 2030010	OrG	c ovio	x2r0		x0rG		x 0rG
Chlorfenvinphos	190000	OrG	c owo	x2r0		x0rG		x0rG
Prothiofos	2Tj T2@j @	OrG	c ovio	x2r0		x0rG		x 0rG
Ethion	G 2 0 -@	OrG	c owo	x2r0		x0rG		x 0rG
EP080/071: Total Petroleum Hydrocarbon	S							
C6 - C9 Fraction		10	c owo	x10	x10	x10	x10	x10
C10 - C14 Fraction		8	c owo	хŒ	xG	хŒ	xG	xG
C15 - C28 Fraction		100	c ovio	2580	x100	x100	x100	x100
C29 - C36 Fraction		100	c owo	1150	x100	x100	x100	x100
C10 - C36 Fraction (sum)		ଞ	c owo	3730	xGD	ж	Ю×	ל
EP080/071: Total Recoverable Hydrocarb	ons - NEPM 2010	Draft						
C6 - C10 Fraction		10	c owo	x10	x10	x10	x10	x10
>C10 - C16 Fraction		ଟ	c owo	200	xGD	хŒ	ж	xœ
>C16 - C34 Fraction		100	c owo	3480	x100	x100	x100	x100
>C34 - C40 Fraction		100	c owo	370	x100	x100	x100	x100
C10 - C40 Fraction (sum)		ଞ	c owo	4050	xG	œx	Ю×	xœ
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	190 0000	01	%	62.6		71.6		67.4
Toluene-D8	- 029@j@	011	%	72.0	000	83.1		79.1
4-Bromofluorobenzene	TJ 0@0@	PLO	%	0.69		80.1		74.5
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	2j 9 @ -@	01	%	98.7		93.8		97.6
Phenol-d6	121-9 @Q@	01	%	95.3		66.9		76.9
2-Chlorophenol-D4	525G1 @2@	011	%	86.7		64.9		73.6
2.4.6-Tribromophenol	1100050	PO	%	79.1		61.8		70.8
EP075T: Base/Neutral Extractable Surrog	ates							
Nitrobenzene-D5	T1j G2000	01	%	94.4		67.2		75.4
1.2-Dichlorobenzene-D4	- 155@5@	011	%	84.9		62.2		67.3
2-Fluorobiphenyl	2-1000	011	%	83.0		51.9		64.4

f 10 LbT2 f EM1202590 f n1 RSOh t1 OE : U ER : uY tuS f -1-1j 2 2	: aoe H LP h RteP n IvenC : R.NAC
f - 1- 1i 2 2	: R.NAC
f nIRSON tIOE: UER: uYtuS	n lvemC
EM1202500	HID A DIAD
f 10 LbT2	. aoe



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Analytical Results

7gy@a@≈: SOIL (Ma®≈: SOIL)		Client sample ID	TP-A1-28/0.1	TP-A1-29/0.5	TP-A1-30/0.5	TP-A1-31/0.5	TP-A1-32/0.65
	Client sa	impling date / time	11@: R@012 1G00				
Compound CAS Num	ber LO	R Unit	EM1303970-001	EM1303970-005	EM1303970-007	EM1303970-009	EM1303970-012
EP075T: Base/Neutral Extractable Surrogates - Contin	ned						
Anthracene-d10 1915@	01	%	102		96.4		109
4-Terphenyl-d14 19100	10 0r1	%	101		89.7		98.2
EP080S: TPH(V)/BTEX Surrogates						•	
1.2-Dichloroethane-D4 190 0	900 Or1	%	61.3	66.5	70.1	63.8	6.99
Toluene-D8 - 029@	i 🕲 0r1	%	67.1	70.8	77.4	67.1	74.1
4-Bromofluorobenzene	0@ 0r1	%	65.3	71.3	79.4	68.0	70.6
	-			-	-		

 f 11 LbT2	f EM1202590	f nIRSON tIOE: UER: uY tuS	f - 1- 1j 2 2	
: 306	Н L Р h PateP	n lvemC	: R.NAC	



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~	V
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7gy@da@k: SOIL (Ma@k: SOIL)		Clie	ent sample ID	
	Cli	ent samplii	ng date / time	
Compound	CAS Number	LOR	Unit	
EA055: Moisture Content				
Moisture Content (dried @ 103°C)		1r0	%	
EG005T: Total Metals by ICP-AES				

7gy@a@≪: SOIL (Ma®≪ SOIL)		Clie	int sample ID	TP-A1-33/0.5	TP-A1-34/0.7	TP-A1-35/0.1	TP-A1-36/0.1	ТР-А1-37/0.9
	Cli	ent samplin	ng date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-014	EM1303970-017	EM1303970-018	EM1303970-020	EM1303970-025
EA055: Moisture Content								
Moisture Content (dried @ 103°C)		1r0	%	5.5	23.2	7.0	8.0	21.8
EG005T: Total Metals by ICP-AES								
Arsenic	9TT0@C@	ი	c owo	xG	xG		xG	
Barium	9TT0@5@	10	c owo	20	50		20	
Beryllium	9TT0@1@	٢	c owo	x1	2		x1	
Cadmium	9TT0@2@	1	c owo	x1	x1		x1	
Chromium	9TT0@9@	ı	c owo	38	89		54	
Cobalt	9TT0@Q@	I	c owo	-x	22		4	
Copper	9TT0@0@0	U	c owo	xG	14		xG	
Lead	9T25@-@	U	c owo	13	6		13	
Manganese	9T25 🕲 🥨	U	c owo	36	30		60	
Nickel	9TT0@-@		c owo	ß	45		8	
Vanadium	9TT0@-@	U	c owo	122	76		104	
Zinc	9TT0@j@	U	c owo	xG	15		5	
EG035T: Total Recoverable Mercury by FIN	MS						•	
Mercury	9T25@9@	01	c owo	x0r1	0.1		x0r1	
EP074A: Monocyclic Aromatic Hydrocarbo	suc							
Benzene	91 @ 2@	0r-	c owo	x0r-	x0r-	x0r-	x 0r-	x0r-
Toluene	100000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Ethylbenzene	100@1@	OrG	c owo	x0rG	xOrG	x0rG	x OrG	x 0rG
meta- & para-Xylene 10Q	2000 10j @- @	OrG	c owo	x0rG	xorG	x0rG	x 0rG	x 0rG
Styrene	100@-@	OrG	c owo	x 0rG	x0rG	x0rG	x 0rG	x0rG
ortho-Xylene	5G@9@	OrG	c owo	x 0rG	xorG	x0rG	x 0rG	x0rG
Isopropylbenzene	50 0 -00	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
n-Propylbenzene	102@G@	OrG	c owo	x0rG	xorG	x0rG	x 0rG	x0rG
1.3.5-Trimethylbenzene	100,000	OrG	c owo	x0rG	xorG	x0rG	x OrG	x 0rG
sec-Butylbenzene	12G@Q@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.2.4-T rimethylbenzene	5G@2@	OrG	c owo	x0rG	xorG	x0rG	x 0rG	x 0rG
tert-Butylbenzene	500 (U)	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
p-lsopropyltoluene	55 @ 9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
n-Butylbenzene	10T@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP074B: Oxygenated Compounds								
Vinyl Acetate	10000G	ტ	c owo	xG	xG	УX	хG	хG

aoe f 1- LbT2 LP h ReP f EM1202590 NemC f n I RSON t1 OE : U ER : uY tuS RLNAAC f -1-1j 2.2	
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Analytical Results								
7gy@aጬs: SOIL (Ma®≈: SOIL)		Clier	it sample ID	TP-A1-33/0.5	TP-A1-34/0.7	TP-A1-35/0.1	ТР-А1-36/0.1	TP-A1-37/0.9
	Clie	nt samplin _g	g date / time	11@: R@012 1G00				
Compound CAS	S Number	LOR	Unit	EM1303970-014	EM1303970-017	EM1303970-018	EM1303970-020	EM1303970-025
EP074B: Oxygenated Compounds - Continued								
2-Butanone (MEK)	90 @ 2@	ტ	c owo	хG	ъ	xG	хG	xG
4-Methyl-2-pentanone (MIBK)	100000	U	c owo	xG	xG	xG	хG	xG
2-Hexanone (MBK)	G51@Q@	U	c owo	УG	хG	xG	хG	xG
EP074C: Sulfonated Compounds	-							
Carbon disulfide	9G@G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP074D: Fumigants								
2.2-Dichloropropane	GT (C)	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.2-Dichloropropane	10000 06	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
cis-1.3-Dichloropylene 10.	00j 1@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
trans-1.3-Dichloropropylene 10.	00j 1@-@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.2-Dibromoethane (EDB)	10j @2@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	9G@1@	U	c owo	xG	хG	xG	хG	xG
Chloromethane	9T @ 9@	U	c ovio	xG	хG	xG	хG	xG
Vinyl chloride	9G@1@	U	c owo	xG	хG	xG	хG	xG
Bromomethane	9T @2@	U	c owo	xG	УC	xG	хG	xG
Chloroethane	9G@0@	U	c ovio	xG	xG	xG	xG	xG
Trichlorofluoromethane	9G@5@	U	c ovio	xG	хG	xG	xG	xG
1.1-Dichloroethene	9G@G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
lodomethane	9T @ C @	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
trans-1.2-Dichloroethene	1G @0@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.1-Dichloroethane	9G@T@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
cis-1.2-Dichloroethene	1G @5@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.1.1-Trichloroethane	91 @G @	OrG	c ovio	x0rG	x0rG	x0rG	x 0rG	x0rG
1.1-Dichloropropylene	ල් 2 ලි රු	OrG	c ovio	x0rG	x0rG	x0rG	x 0rG	x0rG
Carbon Tetrachloride	G @2@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.2-Dichloroethane	109@)	OrG	c ovio	x0rG	x0rG	x0rG	x 0rG	x0rG
Trichloroethene	95@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Dibromomethane	9T@G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.1.2-Trichloroethane	95@0@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.3-Dichloropropane	1T- @0	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Tetrachloroethene	1- 9മു.	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.1.1.2-Tetrachloroethane	j 20@0@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG

: aoe	f 12 LbT2
HLP h ReP	F EM1202590
n IvemC	f n IRSON t IOE : U ER : uY t uS
: R.NAC	f - 1- 1j 2 2
Analytical Results	



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7gy@aa₩<: SOIL (Ma&≪: SOIL)		Clier	nt sample IU	TP-A1-33/0.5	TP-A1-34/0.7	TP-A1-35/0.1	TP-A1-36/0.1	TP-A1-37/0.9
	Clie	ent samplin	g date / time	11@: R@012 1G00				
Compound CAS	S Number	LOR	Unit	EM1303970-014	EM1303970-017	EM1303970-018	EM1303970-020	EM1303970-025
EP074E: Halogenated Aliphatic Compounds - Co	ontinued							
trans-1.4-Dichloro-2-butene	110@9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
cis-1.4-Dichloro-2-butene	T9j @1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.1.2.2-Tetrachloroethane	95 @T@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.2.3-Trichloropropane	5j @Q@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Pentachloroethane	9j @1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.2-Dibromo-3-chloropropane	2] (0) (0)	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	100000	OrG	c owo	x0rG	x0rG	X OrG	x 0rG	x0rG
Bromobenzene	100000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
2-Chlorotoluene	5G@5@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
4-Chlorotoluene	10j @2@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
1.2.3-Trichlorobenzene	ന്നത്രിന്ന	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
EP074G: Trihalomethanes	-							
Chloroform	00 jang (OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Bromodichloromethane	9G@9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Dibromochloromethane	1- T@Q@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Bromoform	9G@G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP075A: Phenolic Compounds	-	-		-	-	-	-	
Phenol	100000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
2-Chlorophenol	5G@9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
2-Methylphenol	5G@Q@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
3- & 4-Methylphenol	215 @9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
2-Nitrophenol	0000 0000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
2.4-Dimethylphenol	10G@9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
2.4-Dichlorophenol	1-0000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
2.6-Dichlorophenol	09 (C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
4-Chloro-3-Methylphenol	G BO	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
2.4.6-Trichlorophenol	0000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
2.4.5-Trichlorophenol	5G@G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Pentachlorophenol	8 8 8	1	c ovio	x1	x1	x1	x1	х1
EP075B: Polynuclear Aromatic Hydrocarbons	-							
Naphthalene	51@0@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
2-Methylnaphthalene	51 669 6	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
	-	-	-					

: aoe	f 1T LbT2
HLP h PaleP	f EM1202590
n lvemC	f n IRSON t IOE : U ER : uY t uS
: RINAC	f - 1- 1j 2 2
Analytical Results	



7gy@a@≪: SOIL (Ma®≪: SOIL)		Clie	nt sample ID	TP-A1-33/0.5	TP-A1-34/0.7	TP-A1-35/0.1	TP-A1-36/0.1	TP-A1-37/0.9
	Clie	nt samplin	g date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-014	EM1303970-017	EM1303970-018	EM1303970-020	EM1303970-025
EP075B: Polynuclear Aromatic Hydrocarbo	ons - Continued							
2-Chloronaphthalene	51 (BO)	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Acenaphthylene	- 0000 00	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Acenaphthene	00 @ 0	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Fluorene	G @2@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Phenanthrene	0,0001	OrG	c owo	x0rG	x 0rG	x0rG	x 0rG	x 0rG
Anthracene	1-0@-@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Fluoranthene	- 0j @T@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Pyrene	1-5@0@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
N-2-Fluorenyl Acetamide	ය ල ල	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Benz(a)anthracene	ල් ඕලී	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Chrysene	- 1001	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Benzo(b) & - 0G Benzo(k)fluoranthene	@2@ - 03@C@	-	c ovio	x1	x1	x1	x1	x1
7.12-Dimethylbenz(a)anthracene	B B B	OrG	c owo	x0rG	x 0rG	x0rG	x 0rG	x 0rG
Benzo(a)pyrene	9 0 -00	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
3-Methylcholanthrene	G @2@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Indeno(1.2.3.cd)pyrene	152@5@	OrG	c ovio	x0rG	x0rG	x0rG	x 0rG	x0rG
Dibenz(a.h)anthracene	<u>ය</u> @0@	OrO	c owo	x0rG	x 0rG	x0rG	x 0rG	x0rG
Benzo(g.h.i)perylene	151@T@	orG	c ovio	x0rG	x 0rG	x0rG	x 0rG	x0rG
Sum of PAHs		OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP075C: Phthalate Esters								
Dimethyl phthalate	121@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Diethyl phthalate	ପ୍ରାକ୍ତି ବ୍	OrG	c ovio	x0rG	x0rG	x0rG	x 0rG	x0rG
Di-n-butyl phthalate	വരുന്നു	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Butyl benzyl phthalate	CCCC	OrG	c owo	x0rG	x 0rG	x0rG	x 0rG	x0rG
bis(2-ethylhexyl) phthalate	119@1@	8	c ovio	×G0	xGO	×G0	x G0	xG0
Di-n-octylphthalate	119@T@	OrG	c ovio	x0rG	x0rG	x0rG	x 0rG	x0rG
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	10 G C C C	OrG	c owo	x0rG	x 0rG	x0rG	x 0rG	x0rG
N-Nitrosodiethylamine	COC	OrG	c ovio	x0rG	x0rG	x0rG	x 0rG	x0rG
N-Nitrosopyrrolidine	520 @G@	110	c owo	x1r0	x1r0	x1r0	x 1r0	x 1r0
N-Nitrosomorpholine	G @6@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
N-Nitrosodi-n-propylamine	j - 1@T@	OrG	c ovio	x0rG	x0rG	x0rG	x 0rG	x0rG
N-Nitrosopiperidine	100@G@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG

HLP, hR4eP f EM1202590 n/emC f n IRSON tIOE : U ER : uY tuS : RLMAAC f - 1- 1 j 2 2			: aoe H LP h PaeP f n NemC f : R.NAAC f	f 1GLbT2 f EM1202590 f nI RSOh tI OE : U ER : uY tuS f - 1- 1j 2 2
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7gy@a@≪: SOIL (Ma@≪: SOIL)		Clie	ent sample ID	TP-A1-33/0.5	TP-A1-34/0.7	TP-A1-35/0.1	TP-A1-36/0.1	ТР-А1-37/0.9
	Clie	nt samplin	ng date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-014	EM1303970-017	EM1303970-018	EM1303970-020	EM1303970-025
EP075D: Nitrosamines - Continued								
N-Nitrosodibutylamine	5- T@j @	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
N-Nitrosodiphenyl & Diphenylamine	ପ୍ତ 🙆 🕲 🕲 ଅନ୍ତ 🕡	1r0	c owo	x1r0	x 1r0	x1r0	x 1r0	x 1r0
Methapyrilene	51000	OrG	c owo	x0rG	x0rG	x0rG	x OrG	x 0rG
EP075E: Nitroaromatics and Ketones		-				-	-	
2-Picoline	10500)	OrG	c owo	x0rG	x0rG	x0rG	x OrG	x 0rG
Acetophenone	50 0	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Nitrobenzene	5000G	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Isophorone	90 @ 20	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
2.6-Dinitrotoluene	j 0j @ 0@	1r0	c owo	x1r0	x1r0	x1r0	x 1r0	x 1r0
2.4-Dinitrotoluene	1- 1@T@	1r0	c owo	x1r0	x1r0	x1r0	x 1r0	x 1r0
1-Naphthylamine	12T@-@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
4-Nitroquinoline-N-oxide	9 80 80 9	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
5-Nitro-o-toluidine	55 @G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Azobenzene	102@2@	-	c owo	x1	x1	x1	x1	x1
1.3.5-Trinitrobenzene	55 @G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Phenacetin	j - @T@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
4-Aminobiphenyl	5- @ 9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Pentachloronitrobenzene	0 00 0	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Pronamide	- 2500 000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Dimethylaminoazobenzene	j 0@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Chlorobenzilate	GI 0 @ G @	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
EP075F: Haloethers						-	-	
Bis(2-chloroethyl) ether	111@T@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Bis(2-chloroethoxy) methane	111@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
4-Chlorophenyl phenyl ether	900G	OrG	c owo	x0rG	x0rG	x0rG	x OrG	x 0rG
4-Bromophenyl phenyl ether	101 @G@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	GT1@2@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.4-Dichlorobenzene	10j 😅 🕲	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.2-Dichlorobenzene	5G@0@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Hexachloroethane	j 9 @ -Q	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
1.2.4-Trichlorobenzene	1-0@-@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Hexachloropropylene	1000@1@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG

: aoe	f 1i LbT2
HLP h PaleP	f EM1202590
n lvemC	f nIRSON tIOE : UER : uY tuS
: R.NAC	f - 1- 1j 2 2

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gy@aଫନ: SOIL (Maଫନ: SOIL)		Clier	nt sample ID	TP-A1-33/0.5	TP-A1-34/0.7	TP-A1-35/0.1	TP-A1-36/0.1	TP-A1-37/0.9
	Clier	it samplinį	g date / time	11@: R@012 1G00				
Sombound	CAS Number	LOR	Unit	EM1303970-014	EM1303970-017	EM1303970-018	EM1303970-020	EM1303970-025
EP075G: Chlorinated Hydrocarbons - Con	ntinued							
Hexachlorobutadiene	හම්ටම	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Hexachlorocyclopentadiene	1060066	õ	c owo	x-rG	x-rG	X- rG	x-rG	x-rG
Pentachlorobenzene	j 00 0 2@	OrG	c owo	x OrG	x0rG	x0rG	x 0rG	x 0rG
Hexachlorobenzene (HCB)	11 Q@T@	1r0	c owo	x1r0	x1r0	x1r0	x 1r0	x 1r0
EP075H: Anilines and Benzidines	-	-					-	
Aniline	j - 6 20	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
4-Chloroaniline	10j @9@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
2-Nitroaniline	0000TO	10	c owo	x1r0	x1r0	x1r0	x 1r0	x 1r0
3-Nitroaniline	55 0 50	10	c owo	x1r0	x1r0	x1r0	x 1r0	x 1r0
Dibenzofuran	12- @T@	OrG	c owo	x OrG	x0rG	x0rG	x 0rG	x 0rG
4-Nitroaniline	100@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Carbazole	G @T@	orG	c owo	x 0rG	x0rG	x0rG	x 0rG	x 0rG
3.3 Dichlorobenzidine	51@T@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP075I: Organochlorine Pesticides							-	
alpha-BHC	215@T@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
beta-BHC	215@G@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
gamma-BHC	CO C	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
delta-BHC	21500	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Heptachlor	9j @T@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Aldrin	205@0@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Heptachlor epoxide	10- T @ 0	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
alpha-Endosulfan	505000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
4.4`-DDE	9- 6 9	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Dieldrin	j 0@9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Endrin	6 000	OrG	c owo	x 0rG	x0rG	x0rG	x 0rG	x 0rG
beta-Endosulfan	22-12@G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
4.4`-DDD	9- @T@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Endosulfan sulfate	1021@9@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
4.4`-DDT	G @ 5 @	1r0	c owo	x 1r0	x 1r0	x1r0	x 1r0	x 1r0
EP075J: Organophosphorus Pesticides								
Dichlorvos	j - @ 2@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Dimethoate	j 0@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Diazinon	222@1@	orG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
	-	-						

f 19 LbT2	f EM1202590	f nIRSON tIOE: UER: uYtuS	f - 1- 1j 2 2	
aoe	HLP h PateP	l lemC	PLNAC	



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Analytical Results

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7gy@daœk: SOIL (Maœk: SOIL)		Clie	ent sample ID	TP-A1-33/0.5	TP-A1-34/0.7	TP-A1-35/0.1	TP-A1-36/0.1	TP-A1-37/0.9
	Clie	nt samplii	ng date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-014	EM1303970-017	EM1303970-018	EM1303970-020	EM1303970-025
EP075J: Organophosphorus Pesticides - Co	ontinued							
Chlorpyrifos-methyl	GG QQ2@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Malathion	1- 1 @G@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Fenthion	CC CC CC	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Chlorpyrifos	- 5- 1 000	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Pirimphos-ethyl	- 2000@1@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Chlorfenvinphos	190@0@L	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
Prothiofos	2Tj T2@j @	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x 0rG
Ethion	G 2@-@	OrG	c owo	x0rG	x0rG	x0rG	x 0rG	x0rG
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction		10	c owo	x10	x10	x10	x10	x10
C10 - C14 Fraction		9	c owo	xGD	xG	хŒ	xG	xG
C15 - C28 Fraction		100	c owo	x100	x100	x100	x100	x100
C29 - C36 Fraction		100	c owo	x100	x100	x100	x100	x100
C10 - C36 Fraction (sum)		ଟ	c owo	xGD	xGD	хŒ	xœ	xœ
EP080/071: Total Recoverable Hydrocarbon	IS - NEPM 2010	Draft						
C6 - C10 Fraction		10	c owo	x10	x10	x10	x10	x10
>C10 - C16 Fraction		8	c owo	xGD	×G	хŒ	xG	ж
>C16 - C34 Fraction		100	c owo	x100	x100	x100	x100	x100
>C34 - C40 Fraction		100	c owo	x100	x100	x100	x100	x100
>C10 - C40 Fraction (sum)		ଡ	c owo	хG	хQ	œx	xG	Ю×
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	190 0000	011	%	64.2	78.8	71.8	65.9	61.6
Toluene-D8	- 029@j@	0r1	%	74.7	92.6	75.8	71.5	64.8
4-Bromofluorobenzene	TJ 0000	0r1	%	70.4	87.8	75.0	70.5	64.7
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	2j 9 @- @	011	%	89.7	94.9	83.2	76.4	75.3
Phenol-d6	121-9@0@	011	%	83.3	70.3	75.8	72.7	63.5
2-Chlorophenol-D4	525G1 @2@	0r1	%	81.1	66.6	70.1	71.2	64.9
2.4.6-Tribromophenol	11 Q 65 @	01	%	87.2	71.0	70.1	72.2	68.6
EP075T: Base/Neutral Extractable Surrogate	es							
Nitrobenzene-D5	T1j G2000	011	%	72.6	6.9	65.5	63.8	54.3
1.2-Dichlorobenzene-D4	- 155@5@	01	%	74.2	63.3	63.1	61.7	61.6
2-Fluorobiphenyl	2-1@0@	01	%	83.7	59.6	65.2	69.6	66.5

f 1QLbT2	f EM1202590	f nl RSOh tl OE : U ER : uY tuS	f - 1- 1j 2 2	:
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: аое	HLP h Pater	n lvemC	: PLNEAC	



7gy@a®≪: SOIL (Ma®≪: SOIL)		Clie	ent sample ID	TP-A1-33/0.5	TP-A1-34/0.7	TP-A1-35/0.1	TP-A1-36/0.1	TP-A1-37/0.9
	Cli	ent samplir	ng date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-014	EM1303970-017	EM1303970-018	EM1303970-020	EM1303970-025
EP075T: Base/Neutral Extractable Surrogat	tes - Continued							
Anthracene-d10	1915@j@	0r1	%	114	105	97.8	111	112
4-Terphenyl-d14	191000100	011	%	119	92.2	106	96.2	91.1
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	190 0000	0r1	%	63.3	77.0	70.5	64.8	67.4
Toluene-D8	- 029 @j @	0r1	%	70.2	86.8	71.2	66.7	74.2
4-Bromofluorobenzene	Т] 0 @ 0@	0r1	%	6.9	84.8	74.6	69.8	73.8



T 15 LD12	f EM1202590	f nIRSON tIOE: UER: uY tuS	f - 1- 1j 2 2	
. 806	HLP, hP4eP	n lvemC	: R.NAC	



Analytical Results

7gy@d@k: SOIL (Ma@k: SOIL)		Cliei	nt sample ID	TP-A3a-01/1.4	TP-A3a-04/0.1	TP-A3a-05/1.3	TP-A3a-07/0.9	TP-A3a-08/0.1
	Clien	t samplin	g date / time	1- @: R@012 1G00	1-@: R@012 1G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00
Compound CAS	s Number	LOR	Unit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050	EM1303970-053
EA055: Moisture Content								
Moisture Content (dried @ 103°C)		110	%	27.7	9.0	28.7	21.8	10.8
EG005T: Total Metals by ICP-AES								
Arsenic 9	TT0 @ CO	U	c owo	Эx	Уx			S
Barium 9	1TT0@5@	10	c owo	180	30			20
Beryllium 9	TT0@1@	-	c ovio	7	x1			x1
Cadmium 9	TT0@2@	-	c ovvo	x1	x1			x1
Chromium 9	2000 DEL	1	c owo	60	22			58
Cobalt 9 ⁻	TTO@Q@	ı	c owo	14	3			4
Copper 9	TT0@0@	U	c ovio	10	11			xG
Lead 9	T25@-@	U	c ovio	14	23			20
Manganese 9 ⁻	1725 (U	c owo	36	40			22
Nickel 9 ⁻	TT0@-@	,	c ovvo	27	5			6
Vanadium 9	TT0@-@	U	c ovio	90	96			163
Zinc 9 ⁻	TTO @ @	U	c owo	8	8			xG
EG035T: Total Recoverable Mercury by FIMS								
Mercury 9	T25 @9@	011	c owo	x0r1	x0r1			x0r1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	91 @ 2 @	0r-	c owo	x0r-	x0r-	x0r-		x0r-
Toluene	100000	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Ethylbenzene	100@1@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
meta- & para-Xylene 100@0@	10j @-@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Styrene	100@-@	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
ortho-Xylene	5G@9@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Isopropylbenzene	5000 @	orG	c owo	x0rG	x0rG	x0rG		x0rG
n-Propylbenzene	102@G@	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
1.3.5-Trimethylbenzene	10 @ @	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
sec-Butylbenzene	12 GOOO	OrG	c owo	x0rG	x0rG	x0rG		x0rG
1.2.4-Trimethylbenzene	5G@2@	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
tert-Butylbenzene	5000j @	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
p-lsopropyltoluene	55 @ 9@	orG	c owo	x0rG	x0rG	x0rG		x0rG
n-Butylbenzene	10T@1@	orG	c owo	x0rG	x0rG	x0rG		x0rG
EP074B: Oxygenated Compounds								
Vinyl Acetate	10000G	U	c owo	Ð×	ъ	УC		Э×



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7gy@la®≮: SOIL (Ma®≮: SOIL)		Clie	ent sample ID	TP-A3a-01/1.4	TP-A3a-04/0.1	TP-A3a-05/1.3	TP-A3a-07/0.9	TP-A3a-08/0.1
	Clie	int sampli	ng date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00
Compound	CAS Number	LOR	Unit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050	EM1303970-053
EP074B: Oxygenated Compounds - Contin	nued							
2-Butanone (MEK)	200 06	ი	c owo	ъ	xG	УX		хG
4-Methyl-2-pentanone (MIBK)	100@0@	ŋ	c owo	хG	xG	хG		xG
2-Hexanone (MBK)	伍1 @Q	ტ	c owo	хG	xG	хG		хG
EP074C: Sulfonated Compounds						-		
Carbon disulfide	9G@G@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
EP074D: Fumigants								
2.2-Dichloropropane	GT 200	OrG	c owo	x0rG	x0rG	x0rG		x0rG
1.2-Dichloropropane	100000 100000	OrG	c ovio	x0rG	x0rG	x0rG		x0rG
cis-1.3-Dichloropropylene	100 1001	OrG	c ovio	x0rG	x0rG	x0rG		x0rG
trans-1.3-Dichloropropylene	100j 1@-@	OrG	c ovio	x0rG	x0rG	x0rG		x0rG
1.2-Dibromoethane (EDB)	10j @2@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
EP074E: Halogenated Aliphatic Compoun	nds							
Dichlorodifluoromethane	9G@1@	U	c owo	хG	xG	xG		xG
Chloromethane	9T @9@	ŋ	c owo	хG	xG	хG		xG
Vinyl chloride	9G@1@	ŋ	c owo	хG	xG	хG		xG
Bromomethane	9T @2@	ŋ	c owo	xG	xG	xG		xG
Chloroethane	9G@0@	ŋ	c owo	xG	xG	xG		xG
Trichlorofluoromethane	9G@5@	ŋ	c owo	хG	xG	хG		xG
1.1-Dichloroethene	9G@G@	orG	c owo	x0rG	x0rG	x0rG		x0rG
lodomethane	9T @ C @	OrG	c ovio	x0rG	x0rG	x0rG		x0rG
trans-1.2-Dichloroethene	1G @0@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
1.1-Dichloroethane	9G@T@	orG	c owo	x0rG	x0rG	x0rG		x0rG
cis-1.2-Dichloroethene	1G @6@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
1.1.1.Trichloroethane	91 @G	OrG	c owo	x0rG	x0rG	x0rG		x0rG
1.1-Dichloropropylene	G 2@0@	orG	c owo	x0rG	x0rG	x0rG		x0rG
Carbon Tetrachloride	G @2@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
1.2-Dichloroethane	109 @ @	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Trichloroethene	95 @ 1@	orG	c owo	x0rG	x0rG	x0rG		x0rG
Dibromomethane	9T@G@	orG	c owo	x0rG	x0rG	x0rG		x0rG
1.1.2-Trichloroethane	95 @ 0 @	orG	c owo	x0rG	x 0rG	x0rG		x0rG
1.3-Dichloropropane	1T- @@	orG	c owo	x0rG	x0rG	x0rG		x0rG
Tetrachloroethene	1- 9 മാത്	OrG	c owo	x0rG	x0rG	x0rG		x0rG
1.1.1.2-Tetrachloroethane	j 20 @ 0@	OrG	c owo	x0rG	x0rG	x0rG		xOrG

: aoe	f - 1 LbT2
HLP h PaleP	f EM1202590
n lvemC	f n I RSOh t I OE : U ER : uY t uS
: RINAC	f - 1- 1j 2 2
Analytical Results	



7gy@laጬ<: SOIL (Maጬ< SOIL)		Clie	int sample ID	TP-A3a-01/1.4	TP-A3a-04/0.1	TP-A3a-05/1.3	TP-A3a-07/0.9	TP-A3a-08/0.1
	Cli	ent samplin	ng date / time	1- @: R@012 1G00				
Compound CA	S Number	LOR	Unit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050	EM1303970-053
EP074E: Halogenated Aliphatic Compounds - C	Continued							
trans-1.4-Dichloro-2-butene	110@9@	orG	c owo	x0rG	x0rG	x0rG		x0rG
cis-1.4-Dichloro-2-butene	1T9j @1@	OrG	c owo	x 0rG	x0rG	x0rG		xOrG
1.1.2.2-Tetrachloroethane	95 @T@	OrG	c owo	x0rG	x0rG	x0rG		xOrG
1.2.3-Trichloropropane	5j @Q@	OrG	c owo	x0rG	x0rG	x0rG		x OrG
Pentachloroethane	9j @1@	OrG	c owo	x OrG	x0rG	x0rG		x OrG
1.2-Dibromo-3-chloropropane	5j @- @	OrG	c owo	x0rG	x0rG	x0rG		x0rG
EP074F: Halogenated Aromatic Compounds		-				-	-	
Chlorobenzene	10 COO	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Bromobenzene	10000 @	OrG	c owo	x0rG	x0rG	x0rG		xOrG
2-Chlorotoluene	5G@5@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
4-Chlorotoluene	10j @2@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
1.2.3-Trichlorobenzene	ന്നു. നൂന്ന	OrG	c owo	x0rG	x0rG	x0rG		x0rG
EP074G: Trihalomethanes								
Chloroform	j 9 @ j @	orG	c owo	x0rG	x0rG	x0rG		x0rG
Bromodichloromethane	9G@9@	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
Dibromochloromethane	1- T@Q@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Bromoform	90 0 00	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
EP075A: Phenolic Compounds								
Phenol	10000G	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
2-Chlorophenol	5G@9@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
2-Methylphenol	5G@Q@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
3- & 4-Methylphenol	1215@9@	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
2-Nitrophenol	000GG	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
2.4-Dimethylphenol	10 G @ 9 @	OrG	c owo	x OrG	x0rG	x0rG		x 0rG
2.4-Dichlorophenol	1-0002@	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
2.6-Dichlorophenol	යා කිලීම	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
4-Chloro-3-Methylphenol	G (G) (G)	OrG	c owo	x0rG	x0rG	x0rG		x0rG
2.4.6-Trichlorophenol	0000 (0000)	OrG	c owo	x0rG	x0rG	x0rG		x0rG
2.4.5-Trichlorophenol	5G@G@	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
Pentachlorophenol	8 8 8 8 8	-	c owo	x1	x1	x1		x1
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	51@0@	OrG	c owo	x0rG	x0rG	xOrG		x 0rG
2-Methylnaphthalene	51 @ 0	OrG	c owo	x0rG	×0rG	XOrG		x 0rG

ade f LbT2 HLP hReP f =M1202590 n/emC f = I RSOh tI OE : U ER : uY tuS RMAC f -1 1j 2 2 Analytical Results Analytical Results	7gy@ia@<: SOIL (Ma@<: SOIL) Client sample ID TP-A3a-01/1.4 TP-A3a-04/0.1 TP-A3a-05/1.3	Client sampling date / time 1- @: R@012 1G00 1- @: R@012 1G00 1- @: R@012 1G00	EM1303970-030 EM1303970-038 EM1303970-045
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	Clie	nt sampling	g date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1-@:R@0121G00	1-@:R@0121G00
Compound CAS	S Number	LOR	Unit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050	EM1303970-053
EP075B: Polynuclear Aromatic Hydrocarbons -	Continued							
2-Chloronaphthalene	51 @C@	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Acenaphthylene	- 0000	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
Acenaphthene	(C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
Fluorene	G @2@	OrG	c owo	x 0rG	x0rG	x0rG		x 0rG
Phenanthrene	0.0001@D	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
Anthracene	1- 0 @ - @	OrG	c owo	x 0rG	x OrG	x0rG		x0rG
Fluoranthene	- 0j @T@	OrG	c owo	x OrG	x0rG	x0rG		x0rG
Pyrene	1-5@0@	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
N-2-Fluorenyl Acetamide	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
Benz(a)anthracene	ල් ශ ්ලය ප	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
Chrysene	- 10010	OrG	c owo	x 0rG	x0rG	x0rG		x0rG
Benzo(b) & - 0G@5@	@0@ 60 - ;	-	c owo	x1	x1	x1		x1
Benzo(k)fluoranthene								
7.12-Dimethylbenz(a)anthracene	8 8 8 8	OrG	c owo	xOrG	x0rG	x0rG		x0rG
Benzo(a)pyrene	G @-@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
3-Methylcholanthrene	ල <u>ක</u> ති	orG	c owo	x 0rG	x0rG	x0rG		x0rG
Indeno(1.2.3.cd)pyrene	152 @ 5@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Dibenz(a.h)anthracene	G @0@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Benzo(g.h.i)perylene	151@T@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Sum of PAHs		OrG	c ovio	x0rG	x0rG	x0rG		x0rG
EP075C: Phthalate Esters								
Dimethyl phthalate	121@1@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Diethyl phthalate	ପା ଲ୍ରା @	orG	c owo	x 0rG	x0rG	x0rG		x0rG
Di-n-butyl phthalate	OT OBT O	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Butyl benzyl phthalate	CODO	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
bis(2-ethylhexyl) phthalate	119@1@	B	c owo	xGO	xGO	xGO		x GʻO
Di-n-octylphthalate	119@1@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	ପ୍ତ ପ୍ରେ ପ୍ର ଅନ୍ତ	OrG	c owo	x0rG	x0rG	x0rG		x0rG
N-Nitrosodiethylamine	CCCC	orG	c owo	x0rG	x0rG	x0rG		x0rG
N-Nitrosopyrrolidine	520 @G@	1r0	c owo	x 1r0	x1r0	x1r0		x 1r0
N-Nitrosomorpholine	G @ 60	OrG	c owo	x0rG	x0rG	x0rG		x0rG
N-Nitrosodi-n-propylamine	j - 1@T@	orG	c owo	x 0rG	x0rG	x0rG		x0rG
N-Nitrosopiperidine	100 @G@	OrG	c owo	x0rG	x0rG	x0rG		x 0rG



TP-A3a-08/0.1

TP-A3a-07/0.9

: aoe	f - 2 LbT2
HLP h PaleP	f EM1202590
n lvemC	f nIRSOh tIOE: UER: uYtuS
: RLNAC	f - 1- 1j 2 2
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		il.C	I sample ID	TD A22 04/4 4	TD A32 04/0 4	TD A3- 06/4 3	0 0/20 01	TD A32 08/0 1	
/ By@acky: 301 (Ivia.cky: 301)		5		11-430-0111.4		0.1/00-b04-01	IP-A38-07/0.9	I L-438-00/0.1	
	Clie	ent sampli	ng date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	
Compound	CAS Number	LOR	Unit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050	EM1303970-053	
EP075D: Nitrosamines - Continued									
N-Nitrosodibutylamine	5- T@j @	OrG	c owo	x0rG	x0rG	xOrG		xOrG	
N-Nitrosodiphenyl & Diohenvlamine	ପ୍	1r0	c owo	x1r0	x1r0	x1r0		x1r0	
Methapyrilene	51000	OrG	c owo	x0rG	xOrG	xOrG		xOrG	
EP075E: Nitroaromatics and Ketones									
2-Picoline	105@ @	OrG	c owo	x0rG	x0rG	x0rG		xOrG	
Acetophenone	50 0 0	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
Nitrobenzene	50000	OrG	c owo	x0rG	×0rG	x0rG		x0rG	
Isophorone	9000c	OrG	c owo	x 0rG	x0rG	x0rG		x0rG	
2.6-Dinitrotoluene	j 0j @ 0@	10	c owo	x1r0	x1r0	x1r0		x 1r0	
2.4-Dinitrotoluene	1- 1@T@	110	c owo	x1r0	x1r0	x1r0		x 1r0	
1-Naphthylamine	12T@-@	OrG	c owo	x 0rG	x0rG	x0rG		x0rG	
4-Nitroquinoline-N-oxide	9	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
5-Nitro-o-toluidine	55 @G@	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
Azobenzene	102@2@	~	c owo	x1	x1	x1		x1	
1.3.5-Trinitrobenzene	55@G@	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
Phenacetin	j - @T@	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
4-Aminobiphenyl	5- @9@	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
Pentachloronitrobenzene	0 0 0 0	OrG	c owo	x0rG	x0rG	x0rG		xOrG	
Pronamide	- 2500 000	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
Dimethylaminoazobenzene	j 0@1@	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
Chlorobenzilate	G 0 0 ପ୍ରେକ୍ତି	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
EP075F: Haloethers									
Bis(2-chloroethyl) ether	111@T@	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
Bis(2-chloroethoxy) methane	111@1@	OrG	c owo	x0rG	xorG	x0rG		xOrG	
4-Chlorophenyl phenyl ether	900G@-@	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
4-Bromophenyl phenyl ether	101 @G@	OrG	c owo	x0rG	x0rG	x0rG		x0rG	
EP075G: Chlorinated Hydrocarbons									
1.3-Dichlorobenzene	GT1@2@	OrG	c owo	x0rG	xorG	x0rG		x0rG	
1.4-Dichlorobenzene	10j @j @	OrG	c owo	x 0rG	x0rG	x0rG		x0rG	
1.2-Dichlorobenzene	5G000	OrG	c owo	x0rG	xOrG	xOrG		xOrG	
Hexachloroethane	00-00- 00-	OrG	C OWO	x0rG	x0rG	x0rG		x 0rG	

x OrG x OrG

x OrG x OrG

x OrG x OrG

x OrG x OrG

c owo c owo

org Org

1-0@-@ 1000@1@

1.2.4-Trichlorobenzene Hexachloropropylene

: aoe H LP h R4eP n IvemC : RLNAC	f - T LbT2 f EM1202590 f nl RSOh tl OE : f -1-1j 2 2	⊎ ER∶uYtuS							ALS
Analytical Results	6								
7gy@/a∰<: SOIL (Ma∰<: S	SOIL)		Cli	ent sample ID	TP-A3a-01/1.4	TP-A3a-04/0.1	TP-A3a-05/1.3	TP-A3a-07/0.9	TP-A3a-08/0.1
		Clie	nt sampli.	ng date / time	1- @: R@012 1G00	1-@: R@012 1G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00
Compound		CAS Number	LOR	Unit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050	EM1303970-053
EP075G: Chlorinated H	Iydrocarbons - Co	ntinued							
Hexachlorobutadiene		හම්ය	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Hexachlorocyclopentadi	ene	060066	Q '	c owo	Ð'-x	X-rG	x-rG		x-rG
Pentachlorobenzene		j 00 0 200	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Hexachlorobenzene (HCI	B)	11 Q@T@	1r0	c owo	x1r0	x1r0	x1r0		x 1r0
EP075H: Anilines and I	Benzidines								
Aniline		j - 6 20	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
4-Chloroaniline		10j @9@	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
2-Nitroaniline		COBTO	1r0	c owo	x1r0	x1r0	x1r0		x 1r0
3-Nitroaniline		55 @ 5@	1r0	c owo	x1r0	x1r0	x1r0		x 1r0
Dibenzofuran		12- @T@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
4-Nitroaniline		100@1@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Carbazole		G @T@	orG	c owo	x0rG	x0rG	x0rG		x0rG
3.3 Dichlorobenzidine		51 OTO	OrG	c owo	x0rG	x0rG	x0rG		x0rG
EP075I: Organochlorin	e Pesticides								
alpha-BHC		215@T@	OrG	c owo	x0rG	x0rG	x 0rG		x0rG
beta-BHC		215@G@	orG	c owo	x0rG	x0rG	x0rG		x0rG
gamma-BHC		CO	OrG	c owo	x0rG	x0rG	x0rG		x0rG
delta-BHC		215000	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Heptachlor		9j @T@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Aldrin		205600	orG	c owo	x0rG	x0rG	x0rG		x0rG
Heptachlor epoxide		10- T @ 0 @	OrG	c owo	x0rG	x0rG	x0rG		x0rG
alpha-Endosulfan		5 GE @ Q @	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
4.4`-DDE		9- @G@	orG	c owo	x0rG	x0rG	x0rG		x0rG
Dieldrin		j 0 69 0	orG	c owo	x0rG	x0rG	x0rG		x0rG
Endrin		9- @0@	orG	c owo	x0rG	x0rG	x 0rG		x0rG
beta-Endosulfan		22-12@G	OrG	c owo	x0rG	x0rG	x0rG		x0rG
4.4 [°] -DDD		9- GTO	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Endosulfan sulfate		1021@9@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
4.4`-DDT		G @5@	110	c owo	x1r0	x1r0	x1r0		x 1r0
EP075J: Organophosp	horus Pesticides								
Dichlorvos		j - B 2 B	OrG	c owo	x0rG	x0rG	x 0rG		x0rG
Dimethoate		j 0 @1@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Diazinon		222@1@	OrG	c owo	x0rG	xOrG	x0rG		x0rG



f - GLbT2	f EM1202590	f nIRSON tIOE : UER : uY tuS	f - 1- 1j 2 2	
aoe	HLP h PateP	I lvemC	PLNAC	



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7gy@la@k: SOIL (Ma@k: SOIL)		CI	ent sample ID	TP-A3a-01/1.4	TP-A3a-04/0.1	TP-A3a-05/1.3	TP-A3a-07/0.9	TP-A3a-08/0.1
	Clie	nt sampli	ing date / time	1- @: R@012 1G00	1-@: R@012 1G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00
Compound	CAS Number	LOR	Unit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050	EM1303970-053
EP075J: Organophosphorus Pesticides -	Continued							
Chlorpyrifos-methyl	GG C@2@	OrG	c owo	x0rG	x0rG	x0rG		x0rG
Malathion	1- 1 @G@	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Fenthion	90 0 0	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Chlorpyrifos	- 5- 1 000	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Pirimphos-ethyl	- 2036@1@	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Chlorfenvinphos	190 60 0	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Prothiofos	2Tj T2@j @	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
Ethion	G 2 0 -@	OrG	c owo	x0rG	x0rG	x0rG		x 0rG
EP080/071: Total Petroleum Hydrocarbon	IS							
C6 - C9 Fraction		10	c owo	x10	x10	x10	x10	x10
C10 - C14 Fraction		ଞ	c owo	хŒ	xG	xGD	xœ	xG
C15 - C28 Fraction		100	c owo	x100	x100	x100	x100	x100
C29 - C36 Fraction		100	c owo	x100	x100	x100	x100	x100
C10 - C36 Fraction (sum)		ଞ	c owo	XG	xG	хQ	xœ	Ю×
EP080/071: Total Recoverable Hydrocarb	ions - NEPM 2010	Draft						
C6 - C10 Fraction		10	c owo	x10	x10	x10	x10	x10
>C10 - C16 Fraction		ଞ	c owo	XGD	xGD	xGD	xœ	xG
>C16 - C34 Fraction		100	c owo	x100	x100	x100	x100	x100
>C34 - C40 Fraction		100	c owo	x100	x100	x100	x100	x100
C10 - C40 Fraction (sum)		පි	c ovio	XG	xG	×G	xQ	хG
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	190) 0@9@	011	%	72.1	83.8	83.9		84.2
Toluene-D8	- 029@j@	011	%	82.6	95.9	97.4		93.8
4-Bromofluorobenzene	TJ 0@0@	01	%	79.9	92.6	96.8		91.6
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	2j 9 @ -@	01	%	75.3	82.6	78.2		87.8
Phenol-d6	121-9@0@	011	%	62.5	67.8	61.8		74.8
2-Chlorophenol-D4	525G1 @2@	011	%	61.2	66.4	61.1		70.6
2.4.6-Tribromophenol	1100050	011	%	57.2	71.5	46.5		68.8
EP075T: Base/Neutral Extractable Surrog	Jates							
Nitrobenzene-D5	T1j G200	01	%	58.0	57.4	58.8		6.69
1.2-Dichlorobenzene-D4	- 155@5@	011	%	54.7	60.2	54.1		65.8
2-Fluorobiphenyl	2-1000	01	%	55.4	75.2	51.4		58.5

: aoe f -j LbT2 H LP h ReP f EM1202590 n hemC f n I RSOh t I OE : U I : R.NAAC f - 1- 1j 2 2	E: UER: uY tuS



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7gy@laœ<: SOIL (Maœ≍: SOIL)		Clien	t sample ID	TP-A3a-01/1.4	TP-A3a-04/0.1	TP-A3a-05/1.3	TP-A3a-07/0.9
	Clié	ent sampling	date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1-@:R@0121G00
			I limit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050

	Client sam	npling date / time	1- @: R@012 1G00	1-@:R@0121G00	1-@:R@0121G00	1-@:R@0121G00	1-@:R@0121G100
Compound CAS Numbe	er LOR	Unit	EM1303970-030	EM1303970-038	EM1303970-045	EM1303970-050	EM1303970-053
EP075T: Base/Neutral Extractable Surrogates - Continu	ed						
Anthracene-d10 1915@i	011 011	%	112	0.66	103		104
4-Terphenyl-d14 1910@1	@ 01	%	90.8	94.9	76.6		103
EP080S: TPH(V)/BTEX Surrogates							
1.2-Dichloroethane-D4 190j 0009	0r1	%	70.8	81.8	82.9	63.7	82.2
Toluene-D8 - 029@) (0r1	%	76.8	89.1	91.1	72.1	87.3
4-Bromofluorobenzene	0r1	%	76.4	90.1	96.6	6.69	85.6



TP-A3a-08/0.1

f - 9 LbT2	f EM1202590	f nIRSON tIOE: UER: uYtuS	f - 1- 1j 2 2	
: aoe	Н L Р.	n lvemC	: R.NAC	



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7gy@a@≈: SOIL (Ma®≈: SOIL)		Clie	nt sample ID	TP-A3a-09/0.1	ТР-А3а-10/1.0	TP-A3a-11/0.6	TP-A3a-13/0.1	TP-A3a-14/0.5
	Cli	ent samplir	ng date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00
Compound	CAS Number	LOR	Unit	EM1303970-056	EM1303970-059	EM1303970-062	EM1303970-066	EM1303970-070
EA055: Moisture Content								
Moisture Content (dried @ 103°C)		1r0	%	6.9	23.4	22.5	7.1	19.8
EG005T: Total Metals by ICP-AES								
Arsenic	9TT0@C@	G	c owo	хG			xG	
Barium	9TT0@5@	10	c owo	30			20	
Beryllium	9TT0@1@	٢	c owo	x1			x1	
Cadmium	9TT0@2@	-	c owo	x1			x1	
Chromium	9TT0@9@		c owo	32			20	
Cobalt	9TT0@Q@	ı	c owo	3			2	
Copper	9TT0@0@0	U	c owo	9			xG	
Lead	9T25@-@	U	c owo	19			12	
Manganese	9T25 🚳 🔞	U	c owo	51			54	
Nickel	9TT0@-@		c owo	9			4	
Vanadium	9TT0@-@	U	c owo	100			59	
Zinc	9TT0@j@	U	c owo	6			7	
EG035T: Total Recoverable Mercury by FIM	AIS N							
Mercury	9T25@9@	0r1	c owo	x0r1			x0r1	
EP074A: Monocyclic Aromatic Hydrocarbor	ns							
Benzene	91 @ 2@	0r-	c owo	x0r-		x0r-	x0r-	
Toluene	100000	OrG	c owo	x0rG		x0rG	x0rG	
Ethylbenzene	100@1@	OrG	c owo	x0rG		x0rG	x0rG	
meta- & para-Xylene 10Q	@0@ 10j @- @	OrG	c owo	x0rG		x0rG	x0rG	
Styrene	100@-@	OrG	c owo	x0rG		x0rG	x0rG	
ortho-Xylene	5G@9@	OrG	c owo	x0rG		x0rG	x0rG	
Isopropylbenzene	500 0	OrG	c owo	x0rG		x0rG	x0rG	
n-Propylbenzene	102@G@	OrG	c owo	x0rG		x0rG	x0rG	
1.3.5-Trimethylbenzene	10 C 209 20	OrG	c owo	x0rG		x0rG	x0rG	
sec-Butylbenzene	12 GOOM	OrG	c owo	x0rG		x0rG	x0rG	
1.2.4-Trimethylbenzene	5G@2@	OrG	c owo	x0rG		x0rG	x0rG	
tert-Butylbenzene	500 () 500	OrG	c owo	x0rG		x0rG	x0rG	
p-lsopropyItoluene	55 @ 9@	OrG	c owo	x0rG		x0rG	x0rG	
n-Butylbenzene	10T@1@	OrG	c owo	x0rG		x0rG	x0rG	
EP074B: Oxygenated Compounds								
Vinyl Acetate	10000G	Ċ	c owo	Э×		хG	Эx	

aoe f - QLbT2 ILP h P4eP f EM1202590 NemC f n I RSOh t I OE : U ER : uY t uS RLNAC f - 1- 1j 2 2	:
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7gy@daœk: SOIL (Maœk: SOIL)		Clie	ent sample ID	TP-A3a-09/0.1	TP-A3a-10/1.0	TP-A3a-11/0.6	TP-A3a-13/0.1	TP-A3a-14/0.5
	Clie	nt samplii	ng date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1- @: R@012 1G00	1- @: R@012 1G00
Compound	CAS Number	LOR	Unit	EM1303970-056	EM1303970-059	EM1303970-062	EM1303970-066	EM1303970-070
EP074B: Oxygenated Compounds - Continue	ed							
2-Butanone (MEK)	90 6 200	თ	c owo	хG		xG	хG	
4-Methyl-2-pentanone (MIBK)	100000	U	c owo	xG		хG	xG	
2-Hexanone (MBK)	伍1 國 Q	თ	c owo	У		хG	хG	
EP074C: Sulfonated Compounds								
Carbon disulfide	@0@06	OrG	c owo	x0rG		x0rG	x0rG	
EP074D: Fumigants								
2.2-Dichloropropane	GT (20)	OrG	c ovio	x0rG		x0rG	x0rG	
1.2-Dichloropropane	30 00 900	OrG	c ovio	x0rG		x0rG	x0rG	
cis-1.3-Dichloropropylene	100j 1@1@	OrG	c owo	x0rG		x0rG	x0rG	
trans-1.3-Dichloropropylene	100j 1 🚇 🚇	orG	c owo	x0rG		x0rG	x0rG	
1.2-Dibromoethane (EDB)	10j @ 2@	orG	c owo	x0rG		x0rG	x0rG	
EP074E: Halogenated Aliphatic Compounds	S						-	
Dichlorodifluoromethane	9G@1@	თ	c owo	хG		xG	хG	
Chloromethane	9T @9@	ŋ	c ovio	хG		xG	хG	
Vinyl chloride	9G@1@	ŋ	c owo	хG		хG	хG	
Bromomethane	9T @2 @	ŋ	c owo	хG		хG	xG	
Chloroethane	9G@0@	U	c owo	xG		хG	xG	
Trichlorofluoromethane	9G@5@	თ	c owo	Вx		УX	УX	
1.1-Dichloroethene	9G@G@	orG	c owo	x0rG		x0rG	x0rG	
lodomethane	9T @ CO	OrG	c ovio	x0rG		x0rG	x0rG	
trans-1.2-Dichloroethene	1G @0@	OrG	c owo	x0rG		x0rG	x0rG	
1.1-Dichloroethane	9G@T@	OrG	c owo	x0rG		x0rG	x0rG	
cis-1.2-Dichloroethene	1G @5@	orG	c owo	x0rG		x0rG	x0rG	
1.1.1.Trichloroethane	91 CO	orG	c owo	x0rG		x0rG	x0rG	
1.1-Dichloropropylene	G 2 000	orG	c owo	x0rG		x0rG	x0rG	
Carbon Tetrachloride	G @2@	OrG	c owo	x0rG		x0rG	x0rG	
1.2-Dichloroethane	109 @ j @	OrG	c owo	x0rG		x0rG	x0rG	
Trichloroethene	95@1@	orG	c owo	x0rG		x0rG	x0rG	
Dibromomethane	9T@G@	OrG	c owo	x0rG		x0rG	x0rG	
1.1.2-Trichloroethane	95@0@	orG	c owo	x0rG		x0rG	x0rG	
1.3-Dichloropropane	1T- @C	orG	c owo	x0rG		x0rG	x0rG	
Tetrachloroethene	1- 9 മാത്ര	OrG	c owo	x0rG		x0rG	x0rG	
1.1.1.2-Tetrachloroethane	j 20 @0@	OrG	c owo	x0rG		x0rG	x0rG	

f - 5 LbT2	f EM1202590	f nIRSON tIOE : UER : uY tuS	f - 1- 1j 2 2	
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7gy@aጬ: SOIL (Maଊ≈ SOIL)		Ğ	ent sample ID	TP-A3a-09/0.1	TP-A3a-10/1.0	ТР-А3а-11/0.6	TP-A3a-13/0.1	TP-A3a-14/0.5
	Clie	ent sampli	ng date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1- @: R@012 1G00	1- @: R@012 1G00
Compound	CAS Number	LOR	Unit	EM1303970-056	EM1303970-059	EM1303970-062	EM1303970-066	EM1303970-070
EP074E: Halogenated Aliphatic Compound	ds - Continued							
trans-1.4-Dichloro-2-butene	110@9@	OrG	c owo	x0rG		x0rG	xOrG	
cis-1.4-Dichloro-2-butene	1T9j @1@	OrG	c owo	x0rG		x0rG	x0rG	
1.1.2.2-Tetrachloroethane	95@T@	OrG	c ovio	x0rG		x0rG	x0rG	
1.2.3-Trichloropropane	5j @Q@	OrG	c ovio	x0rG		x0rG	x0rG	
Pentachloroethane	9j @1@	OrG	c owo	x0rG		x0rG	x0rG	
1.2-Dibromo-3-chloropropane	5j @-@	OrG	c ovio	x0rG		x0rG	x0rG	
EP074F: Halogenated Aromatic Compound	ds						-	
Chlorobenzene	10 Q B 0 B	OrG	c owo	x 0rG		x0rG	x0rG	
Bromobenzene	100 00 0	OrG	c owo	x0rG		x0rG	xOrG	
2-Chlorotoluene	5G@5@	OrG	c owo	x0rG		x0rG	xOrG	
4-Chlorotoluene	10j @2@	OrG	c owo	x0rG		x0rG	x0rG	
1.2.3-Trichlorobenzene	ය. ඔ1ම	OrG	c owo	x0rG		x0rG	x 0rG	
EP074G: Trihalomethanes								
Chloroform	00 j00 j	OrG	c owo	x0rG		x0rG	x0rG	
Bromodichloromethane	9G@9@	OrG	c owo	x0rG		x0rG	x0rG	
Dibromochloromethane	1- T@C@	OrG	c owo	x0rG		x0rG	x0rG	
Bromoform	9G@G@	OrG	c owo	x0rG		x0rG	x 0rG	
EP075A: Phenolic Compounds								
Phenol	100 0 0	OrG	c owo	x0rG		x 0rG	xOrG	
2-Chlorophenol	5G@9@	OrG	c owo	x0rG		x 0rG	x0rG	
2-Methylphenol	5G@Q@	OrG	c owo	x0rG		x0rG	x0rG	
3- & 4-Methylphenol	1215@9@	OrG	c owo	x0rG		x0rG	x0rG	
2-Nitrophenol	COBCE	OrG	c owo	x0rG		x0rG	x 0rG	
2.4-Dimethylphenol	10 G @ 9 @	OrG	c owo	x0rG		x0rG	x0rG	
2.4-Dichlorophenol	1-0020	OrG	c owo	x0rG		x0rG	x0rG	
2.6-Dichlorophenol	යා ක යා	OrG	c owo	x0rG		x0rG	x0rG	
4-Chloro-3-Methylphenol	5600 8	OrG	c owo	x0rG		x 0rG	x0rG	
2.4.6-Trichlorophenol	000) (000)	OrG	c owo	x 0rG		x0rG	xOrG	
2.4.5-Trichlorophenol	5G@G@	OrG	c owo	x0rG		x0rG	x0rG	
Pentachlorophenol	8 8 8	-	c owo	x1		x1	x1	
EP075B: Polynuclear Aromatic Hydrocarb	ons							
Naphthalene	51@0@	OrG	c owo	x0rG		x0rG	x 0rG	
2-Methylnaphthalene	51 @ 0	OrG	c owo	x0rG		x0rG	x0rG	

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7gy@laGk<: SOIL (MaGk<: SOIL)		Clie	ent sample ID	ТР-А3а-09/0.1	TP-A3a-10/1.0	ТР-А3а-11/0.6	TP-A3a-13/0.1	TP-A3a-14/0.5
	Cli	ent sampli	ng date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00
Compound	CAS Number	LOR	Unit	EM1303970-056	EM1303970-059	EM1303970-062	EM1303970-066	EM1303970-070
EP075B: Polynuclear Aromatic Hydrocarbo	ons - Continued							
2-Chloronaphthalene	51 (BOB)	OrG	c owo	x0rG		x 0rG	x 0rG	
Acenaphthylene	- 000	OrG	c owo	x0rG		x0rG	x0rG	
Acenaphthene	05 @ 0	OrG	c ovio	x0rG		x0rG	x0rG	
Fluorene	G @2@	OrG	c owo	x0rG		x0rG	x0rG	
Phenanthrene	00 0 1	OrG	c owo	x0rG		x0rG	x0rG	
Anthracene	1-0@-@	OrG	c owo	x0rG		x0rG	x0rG	
Fluoranthene	- 0j @T@	OrG	c owo	x0rG		x0rG	x0rG	
Pyrene	1-5000	OrG	c owo	x0rG		x0rG	x0rG	
N-2-Fluorenyl Acetamide	ල ල ල	OrG	c owo	x0rG		x0rG	x0rG	
Benz(a)anthracene	9 9 9 9	OrG	c owo	x0rG		x0rG	x0rG	
Chrysene	- 1001	OrG	c owo	x0rG		x0rG	x0rG	
Benzo(b) & -003 Benzo(k)fluoranthene	1000 - 030000 1000	-	c owo	x1		x1	x1	
7.12-Dimethylbenz(a)anthracene	(B) (B) (B) (B) (B) (B) (B) (B) (B) (B)	OrG	c owo	x0rG		x0rG	x 0rG	
Benzo(a)pyrene	() () () () () () () () () () () () () (OrG	c owo	x0rG		x0rG	x0rG	
3-Methylcholanthrene	G @2@	OrG	c owo	x0rG		x0rG	x0rG	
Indeno(1.2.3.cd)pyrene	152@5@	OrG	c owo	x0rG		x0rG	x0rG	
Dibenz(a.h)anthracene	C2 (80)	OrG	c owo	x0rG		x0rG	x0rG	
Benzo(g.h.i)perylene	151@T@	OrG	c ovio	x0rG		x0rG	x0rG	
^A Sum of PAHs		OrG	c owo	x0rG		x0rG	x 0rG	
EP075C: Phthalate Esters								
Dimethyl phthalate	121@1@	OrG	c owo	x0rG		x0rG	x 0rG	
Diethyl phthalate	ପାକ୍ଷ୍ର ଭ	OrG	c owo	x0rG		x0rG	x 0rG	
Di-n-butyl phthalate	ପାର୍ତ୍ତୀତ୍ତ	OrG	c ovio	x0rG		x0rG	x0rG	
Butyl benzyl phthalate	CCCC	OrG	c owo	x0rG		x0rG	x0rG	
bis(2-ethylhexyl) phthalate	119 @1@	GO	c owo	×G0		xGO	x G ⁰	
Di-n-octylphthalate	119 @T@	OrG	c owo	x0rG		x0rG	x0rG	
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	10 GE GO GO	OrG	c owo	x0rG		x0rG	x0rG	
N-Nitrosodiethylamine	CCCC	OrG	c owo	x0rG		x0rG	x0rG	
N-Nitrosopyrrolidine	520 @G@	1r0	c owo	x1r0		x 1r0	x 1r0	
N-Nitrosomorpholine	G (100)	OrG	c owo	x0rG		x0rG	x 0rG	
N-Nitrosodi-n-propylamine	j - 1@T@	OrG	c owo	x0rG		x0rG	x0rG	
N-Nitrosopiperidine	100 @G@	OrG	c owo	x0rG		x0rG	x0rG	

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ʻgy@ia®k: SOIL (Ma®k: SOIL)		Clie	nt sample ID	TP-A3a-09/0.1	TP-A3a-10/1.0	TP-A3a-11/0.6	TP-A3a-13/0.1	TP-A3a-14/0.5
	Clie	ent samplin	ng date / time	1- @: R@012 1G00	1-@: R@012 1G00	1- @: R@012 1G00	1- @: R@012 1G00	1- @: R@012 1G00
Compound	CAS Number	LOR	Unit	EM1303970-056	EM1303970-059	EM1303970-062	EM1303970-066	EM1303970-070
EP075D: Nitrosamines - Continued								
N-Nitrosodibutylamine	5- T@j@	OrG	c owo	x0rG		x0rG	x0rG	
N-Nitrosodiphenyl & Diphenylamine	ට හැකි 1 හැකි ම	1r0	c owo	x1r0		x10	x 1r0	
Methapyrilene	51 @0@	OrG	c ovio	x0rG		x0rG	x0rG	
EP075E: Nitroaromatics and Ketones								
2-Picoline	10500 0	OrG	c owo	x0rG		x0rG	xOrG	
Acetophenone	50 0 0	OrG	c ovio	x0rG		x0rG	x0rG	
Nitrobenzene	50000	OrG	c owo	x0rG		x0rG	x0rG	
Isophorone	90 0 860	OrG	c owo	x0rG		x0rG	x0rG	
2.6-Dinitrotoluene	j 0j @0@	1r0	c owo	x1r0		x1r0	x 1r0	
2.4-Dinitrotoluene	1- 1@T@	1r0	c owo	x1r0		x1r0	x 1r0	
1-Naphthylamine	12T@-@	OrG	c owo	x0rG		x0rG	x0rG	
4-Nitroquinoline-N-oxide	9 69 69	OrG	c ovio	x0rG		x0rG	x0rG	
5-Nitro-o-toluidine	55 @G@	OrG	c owo	x0rG		x0rG	x0rG	
Azobenzene	102 @2@	-	c owo	x1		x1	x1	
1.3.5-Trinitrobenzene	55 @G@	OrG	c ovio	x0rG		x0rG	x0rG	
Phenacetin	j - @T@	OrG	c ovio	x0rG		x0rG	x0rG	
4-Aminobiphenyl	5- @ 9 @	OrG	c ovio	x0rG		x0rG	x0rG	
Pentachloronitrobenzene	0 0 0 0	OrG	c ovio	x0rG		x0rG	xOrG	
Pronamide	- 2500 000	OrG	c ovio	x0rG		x0rG	x0rG	
Dimethylaminoazobenzene	j 0@1@	OrG	c ovio	x0rG		x0rG	x0rG	
Chlorobenzilate	GI 0 ପ୍ରତ୍ୟୁ	OrG	c ovio	x0rG		x0rG	x0rG	
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111@T@	orG	c owo	x0rG		x0rG	x0rG	
Bis(2-chloroethoxy) methane	111@1@	OrG	c ovio	x0rG		x0rG	x0rG	
4-Chlorophenyl phenyl ether	900G@-@	OrG	c ovio	x0rG		x0rG	x0rG	
4-Bromophenyl phenyl ether	101 @G@	orG	c ovio	x0rG		x0rG	x0rG	
EP075G: Chlorinated Hydrocarbons								
1.3-Dichlorobenzene	GT1@2@	OrG	c owo	x0rG		x0rG	x0rG	
1.4-Dichlorobenzene	10j @j @	OrG	c ovio	x0rG		x0rG	x0rG	
1.2-Dichlorobenzene	5G00	OrG	c ovio	x0rG		x0rG	x0rG	
Hexachloroethane	j 9 @- @	OrG	c owo	x0rG		x0rG	x0rG	
1.2.4-Trichlorobenzene	1- 0 @ @	OrG	c ovio	x0rG		x0rG	x0rG	
Hexachloropropylene	1000@1@	OrG	c ovio	x0rG		x0rG	x0rG	



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	Clie	ant samplin _i	g date / time	1- @: R@012 1G00				
Compound C	CAS Number	LOR	Unit	EM1303970-056	EM1303970-059	EM1303970-062	EM1303970-066	EM1303970-070
EP075G: Chlorinated Hydrocarbons - Continue	led							
Hexachlorobutadiene	හමය	OrG	c ovio	x0rG		x0rG	x0rG	
Hexachlorocyclopentadiene	1000 66	Ð	c ovio	x- rG		x-rG	x-rG	
Pentachlorobenzene	j 00 6 2@	OrG	c ovio	x0rG		x0rG	x0rG	
Hexachlorobenzene (HCB)	11 Q@T@	1r0	c ovio	x1r0		x1r0	x 1r0	
EP075H: Anilines and Benzidines							-	
Aniline	j - 🚳 🖉	OrG	c owo	x0rG		x0rG	x0rG	
4-Chloroaniline	10j @9@	OrG	c ovio	x0rG		x0rG	x0rG	
2-Nitroaniline	ന്തി	1r0	c ovio	x1r0		x1r0	x 1r0	
3-Nitroaniline	55 @ 5@	1r0	c ovio	x1r0		x1r0	x 1r0	
Dibenzofuran	12- @T@	OrG	c ovio	x0rG		x0rG	x0rG	
4-Nitroaniline	100@1@	OrG	c owo	x0rG		x0rG	x0rG	
Carbazole	G @T@	OrG	c ovio	x0rG		x0rG	x0rG	
3.3 Dichlorobenzidine	51@T@	OrG	c ovio	x0rG		x0rG	x0rG	
EP0751: Organochlorine Pesticides								
alpha-BHC	215 @ T@	orG	c owo	x0rG		x0rG	x0rG	
beta-BHC	215 00 00	OrG	c ovio	x0rG		x0rG	x0rG	
gamma-BHC	CORE	OrG	c owo	x0rG		x0rG	x0rG	
delta-BHC	215@	OrG	c owo	x0rG		x0rG	x0rG	
Heptachlor	9j @T@	OrG	c ovio	x0rG		x0rG	x0rG	
Aldrin	205@0@	OrG	c owo	x0rG		x0rG	x0rG	
Heptachlor epoxide	10- T@9@	OrG	c ovio	x0rG		x0rG	x0rG	
alpha-Endosulfan	5G6 @ C @	OrG	c ovio	x0rG		x0rG	x0rG	
4.4`-DDE	9- @@	OrG	c ovio	x0rG		x0rG	x0rG	
Dieldrin	j 0@9@	OrG	c ovio	x0rG		x0rG	x0rG	
Endrin	9- @0@	OrG	c ovio	x0rG		x0rG	x0rG	
beta-Endosulfan	22-12@G	OrG	c ovio	x0rG		x0rG	x 0rG	
4.4`-DDD	9- @T@	OrG	c ovio	x0rG		x0rG	x0rG	
Endosulfan sulfate	1021@9@	OrG	c owo	x0rG		x0rG	x0rG	
4.4`-DDT	G) @5@	110	c owo	x1r0		x1r0	x 1r0	
EP075J: Organophosphorus Pesticides								
Dichlorvos	j - B 2 B	OrG	c owo	x0rG		x0rG	x0rG	
Dimethoate	j 0@1@	OrG	c owo	x0rG		x0rG	x 0rG	
Diazinon	222@1@	OrG	c owo	x0rG		x0rG	xOrG	

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	Cli	ent samplii	ng date / time	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00
Compound	CAS Number	LOR	Unit	EM1303970-056	EM1303970-059	EM1303970-062	EM1303970-066	EM1303970-070
EP075J: Organophosphorus Pesticides - Co	ontinued							
Chlorpyrifos-methyl	GG QØ2@	OrG	c owo	x0rG		x0rG	x0rG	
Malathion	1-1 @G@	OrG	c owo	x0rG		x0rG	x0rG	
Fenthion	GCCC	OrG	c owo	x0rG		x0rG	x0rG	
Chlorpyrifos	- 5- 1 000	OrG	c owo	x0rG		x0rG	x0rG	
Pirimphos-ethyl	- 2030010	OrG	c owo	x0rG		x0rG	x0rG	
Chlorfenvinphos	00000L	OrG	c owo	x0rG		x0rG	x0rG	
Prothiofos	2Tj T2@j @	OrG	c owo	x0rG		x0rG	x0rG	
Ethion	G 2@-@	OrG	c owo	x0rG		x0rG	x0rG	
EP080/071: Total Petroleum Hydrocarbons					-	-		
C6 - C9 Fraction		10	c owo	x10	x10	x10	x10	x10
C10 - C14 Fraction		පි	c owo	œx	XG	xG	×G	œx
C15 - C28 Fraction		100	c owo	x100	x100	x100	x100	x100
C29 - C36 Fraction		100	c owo	x100	x100	x100	x100	x100
C10 - C36 Fraction (sum)		8	c owo	хŒ	xŒ	xŒ	xœ	ж
EP080/071: Total Recoverable Hydrocarbon	ns - NEPM 201	0 Draft			-	-		
C6 - C10 Fraction		10	c owo	x10	x10	x10	x10	x10
>C10 - C16 Fraction		ଟ	c owo	xœ	xGD	xGD	xGO	xœ
>C16 - C34 Fraction		100	c owo	x100	x100	x100	x100	x100
>C34 - C40 Fraction		100	c owo	x100	x100	x100	x100	x100
>C10 - C40 Fraction (sum)		පි	c owo	хŒ	xG	xG	xG	xœ
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	190j 0 @ 9@	0r1	%	75.9		82.7	80.2	
Toluene-D8	- 029 @j @	0r1	%	84.6		95.2	84.8	
4-Bromofluorobenzene	Тј 0 @ 0@	011	%	82.6		89.4	82.6	
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	2j 9 @- @	0r1	%	80.3		68.2	54.2	
Phenol-d6	121-9 @0@	0r1	%	64.2		62.3	57.6	
2-Chlorophenol-D4	525G1 @2@	0r1	%	64.8		61.8	51.9	
2.4.6-Tribromophenol	11 QB5 @	01	%	78.6		58.1	54.9	
EP075T: Base/Neutral Extractable Surrogat	tes							
Nitrobenzene-D5	T1j G2000	0r1	%	59.1		62.1	51.8	
1.2-Dichlorobenzene-D4	- 155@5@	011	%	59.4		58.3	49.5	
2-Fluorobiphenyl	2-1@0@	01	%	0.69		61.9	55.0	
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: аое Н LP h РаеР	n lvemC	: R.MAC	



7gy@a@e: SOIL (Ma®e: SOIL)	Ö	ient sample ID	TP-A3a-09/0.1	TP-A3a-10/1.0	TP-A3a-11/0.6	TP-A3a-13/0.1	TP-A3a-14/0.5
	Client sampl	ling date / time	1- @: R@012 1G00	1- @: R@012 1G00	1- @: R@012 1G00	1-@:R@0121G00	1- @: R@012 1G00
Compound CAS Numbe	r LOR	Unit	EM1303970-056	EM1303970-059	EM1303970-062	EM1303970-066	EM1303970-070
EP075T: Base/Neutral Extractable Surrogates - Continue	þ						
Anthracene-d10 1915@j @	Ø 01	%	99.2		107	102	
4-Terphenyl-d14 1910@16	Ø 0r1	%	92.5		84.3	82.0	
EP080S: TPH(V)/BTEX Surrogates						•	
1.2-Dichloroethane-D4 1.2-Dichloroethane-D4	Ø 0r1	%	74.2	65.3	80.1	78.6	78.2
- 029@j @	@ 0r1	%	79.1	72.1	89.0	78.7	84.4



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78.2 84.4 86.5

78.6 78.7 82.7

80.1 89.0 85.8

65.3 72.1 73.1

74.2 79.1 82.4

% % %

F P F

190j 0**@9@** - 029@j @ Tj 0**@**0@

4-Bromofluorobenzene

f 2GLbT2	f EM1202590	f nIRSON tIOE: UER: uYtuS	f - 1- 1j 2 2	
: aoe	Н LP7 h P4eP	n lvemC	: R.NAC	



gy@la@≮: SOIL (Ma®≺: SOIL)	Clie	Clie nt samplir	nt sample ID Id date / time	QC01/110413 11@: R@012 1G00			
Compound	CAS Number	LOR	Unit	EM1303970-078		1	
EA055: Moisture Content							
Moisture Content (dried @ 103°C)		1r0	%	7.2			
EG005T: Total Metals by ICP-AES							
Arsenic	9TT0@C@	U	c owo	ъ			
Barium	9TT0@5@	10	c owo	20			
Beryllium	9TT0@1@	-	c owo	x1			
Cadmium	9TT0@2@	4	c owo	x1			
Chromium	9TT0@9@	ı	c owo	38			
Cobalt	9TT0@Q@	ı	c owo	3			
Copper	9TT0@0@0	U	c owo	хG			
Lead	9T25@-@	IJ	c owo	11			
Manganese	9T25 (B) (B)	IJ	c owo	46			
Nickel	9TT0@-@	,	c owo	7			
Vanadium	9TT0@-@	IJ	c ovio	104			
Zinc	9TT0@j@	IJ	c owo	xG			
EG035T: Total Recoverable Mercury by Fl	SMI						
Mercury	9T25@9@	011	c owo	x0r1			
EP074A: Monocyclic Aromatic Hydrocarbo	ons						
Benzene	91 @ 2 @	0r-	c owo	x0r-			
Toluene	100000	OrG	c owo	x0rG			
Ethylbenzene	100@1@	OrG	c ovvo	x0rG			
meta- & para-Xylene 10	000000 10j @- @	OrG	c owo	x0rG			
Styrene	100@-@	OrG	c owo	x0rG			
ortho-Xylene	5G@9@	OrG	c owo	x0rG			
lsopropylbenzene	5000-00	OrG	c owo	x0rG			
n-Propylbenzene	102@G@	OrG	c owo	x0rG			
1.3.5-Trimethylbenzene	100090	OrG	c owo	x0rG			
sec-Butylbenzene	12G@Q@	OrG	c owo	x0rG			
1.2.4-T rimethy lbenzene	5G@2@	OrG	c owo	x0rG			
tert-Butylbenzene	5000j @	OrG	c owo	x0rG			
p-lsopropyltoluene	55 @ 9@	OrG	c ovio	x0rG			
n-Butylbenzene	10T@1@	OrG	c owo	x0rG			
EP074B: Oxygenated Compounds							
Vinyl Acetate	100000	ი	c owo	ъ			
	-						



f 2i LbT2	f EM1202590	f nIRSON tIOE : UER : uYtuS	f - 1- 1j 2 2	
aoe	HLP h PateP	n lvemC	R. R. RAC	



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7gy@laଊ<: SOIL (Maଊ< SOIL)		Clie	nt sample ID	QC01/110413		B		
	Cli	ent samplin	g date / time	11@: R@012 1G00				
Compound	CAS Number	LOR	Unit	EM1303970-078				
EP074B: Oxygenated Compounds - Continue	per							
2-Butanone (MEK)	90 6 2	თ	c owo	xG				
4-Methyl-2-pentanone (MIBK)	100@0@	U	c ovio	хG				
2-Hexanone (MBK)	G51@Q	თ	c ovio	xG				
EP074C: Sulfonated Compounds								
Carbon disulfide	9G@G@	OrG	c ovio	x0rG				
EP074D: Fumigants								
2.2-Dichloropropane	GT (20)	OrG	c ovio	x0rG				
1.2-Dichloropropane	10000 000	OrG	c owo	x0rG				
cis-1.3-Dichloropropylene	100j 1@1@	OrG	c owo	x0rG				
trans-1.3-Dichloropropylene	100j 1@-@	OrG	c ovio	x0rG				
1.2-Dibromoethane (EDB)	10j @ 2@	orG	c owo	x0rG				
EP074E: Halogenated Aliphatic Compound	ls							
Dichlorodifluoromethane	9G@1@	თ	c ovio	Sx				
Chloromethane	9T @9@	თ	c owo	УX				
Vinyl chloride	9G@1@	თ	c owo	УC				
Bromomethane	9T@2@	თ	c owo	Эx				
Chloroethane	9G@0@	თ	c ovio	УC				
Trichlorofluoromethane	9G@5@	თ	c owo	Эx				
1.1-Dichloroethene	9G@G@	OrG	c owo	x0rG				
lodomethane	9T COC	OrG	c owo	x0rG				
trans-1.2-Dichloroethene	1G @0@	OrG	c owo	x0rG				
1.1-Dichloroethane	9G@T@	OrG	c owo	x0rG				
cis-1.2-Dichloroethene	1G @5@	orG	c owo	x0rG				
1.1.1-Trichloroethane	91 @G@	OrG	c owo	x0rG				
1.1-Dichloropropylene	G 2000	OrG	c owo	x0rG				
Carbon Tetrachloride	G @2@	OrG	c owo	x0rG				
1.2-Dichloroethane	109@	OrG	c owo	x0rG				
Trichloroethene	95@1@	org	c owo	x0rG				
Dibromomethane	9T@G@	OrG	c owo	x0rG				
1.1.2-Trichloroethane	95@0@	OrG	c owo	x0rG				
1.3-Dichloropropane	1T- @@	OrG	c owo	x0rG				
Tetrachloroethene	1-9@Q@	OrO	c owo	x0rG				
1.1.1.2-Tetrachloroethane	j 20 @0@	OrG	c owo	x0rG				
	-	-			ne -		m	



f 29 LbT2	f EM1202590	f nIRSON tIOE: UER: uYtuS	f - 1- 1j 2 2	
aoe	HLP h PaleP	lvemC	PLNAC	



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7gy@daœ≮: SOIL (Maœ≮: SOIL)		Clie	nt sample ID	QC01/110413		
	Clie	nt samplii	ng date / time	11@: R@012 1G00		
Compound	CAS Number	LOR	Unit	EM1303970-078	 I	 -
EP074E: Halogenated Aliphatic Compour	inds - Continued					
trans-1.4-Dichloro-2-butene	110@9@	OrG	c owo	x0rG		
cis-1.4-Dichloro-2-butene	119j @1@	OrG	c owo	x0rG		
1.1.2.2-Tetrachloroethane	95 @T@	OrG	c owo	x0rG		
1.2.3-Trichloropropane	5] @0@	OrG	c owo	x0rG		
Pentachloroethane	9j @1@	OrG	c owo	x0rG		
1.2-Dibromo-3-chloropropane	5j @-@	OrG	c owo	x0rG		
EP074F: Halogenated Aromatic Compour	inds					
Chlorobenzene	100000	OrG	c ovio	x0rG		
Bromobenzene	100000	OrG	c owo	x0rG		
2-Chlorotoluene	5G@2@	OrG	c owo	x0rG		
4-Chlorotoluene	10j @2@	OrG	c owo	x0rG		
1.2.3-Trichlorobenzene	යය	OrG	c owo	x0rG		
EP074G: Trihalomethanes						
Chloroform	1 900 (OrG	c owo	x0rG		
Bromodichloromethane	9G@9@	OrG	c owo	x0rG		
Dibromochloromethane	1- T@O@	OrG	c owo	x0rG		
Bromoform	9G@G@	orG	c owo	x0rG		
EP075A: Phenolic Compounds						
Phenol	10000G	orG	c owo	x0rG		
2-Chlorophenol	5G@9@	OrG	c owo	x0rG		
2-Methylphenol	5G@Q@	OrG	c owo	x0rG		
3- & 4-Methylphenol	1215@9@	OrG	c owo	x0rG		
2-Nitrophenol	COBCE	OrG	c owo	x0rG		
2.4-Dimethylphenol	10 G @ 9 @	OrG	c owo	x0rG		
2.4-Dichlorophenol	1-0020	OrG	c owo	x0rG		
2.6-Dichlorophenol	00 CO	OrG	c owo	x0rG		
4-Chloro-3-Methylphenol	G B B	OrG	c owo	x0rG		
2.4.6-Trichlorophenol	0000	OrG	c owo	x0rG		
2.4.5-Trichlorophenol	5G@G@	OrG	c owo	x0rG		
Pentachlorophenol	() () () () () () () () () () () () () (-	c owo	x1		
EP075B: Polynuclear Aromatic Hydrocart	rbons					
Naphthalene	51@0@	orG	c owo	x0rG		
2-Methylnaphthalene	51 @ 0	orG	c owo	x0rG		


f 2QLbT2	f EM1202590	f nIRSON tIOE: UER: uY tuS	f - 1- 1j 2 2	
aoe	HLP h PaleP	n IvemC	PLNAC	



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7gy@daœ≍ SOIL (Ma®≪ SOIL)		Client sample ID	QC01/110413			
	Client sa	mpling date / time	11@: R@012 1G00			
CAS Nu CAS Nu	imber LOF	R Unit	EM1303970-078	1	1	 ł
EP075B: Polynuclear Aromatic Hydrocarbons - Con	itinued					
2-Chloronaphthalene 51	COCO OLC	c owo	x0rG			
Acenaphthylene - 00	OrG OrG	c owo	x0rG			
Acenaphthene	0.0 OrG	c owo	x0rG			
Fluorene Q	@2@ 0rG	c owo	x0rG			
Phenanthrene	010 OrG	c owo	x0rG			
Anthracene 1- 0	Ore Ore	c owo	x0rG			
Fluoranthene - 0j	OrG OrG	c owo	x0rG			
Pyrene 1-5	0rG	c owo	x0rG			
N-2-Fluorenyl Acetamide	OrG OrG	c owo	x0rG			
Benz(a)anthracene	COC OLC	c owo	x0rG			
Chrysene - 10	0rG	c owo	x0rG			
Benzo(b) & - 0G66@- 05 Benzo(k)fluoranthene	900	c owo	x1	8		
7.12-Dimethylbenz(a)anthracene	DIC DIC	c owo	x0rG			
Benzo(a)pyrene	0-00 0-00	c owo	x0rG			
3-Methylcholanthrene	OLC OLC	c owo	x0rG			
Indeno(1.2.3.cd)pyrene 152	COLO OLO	c owo	x0rG			
Dibenz(a.h)anthracene	(@0@) OrG	c owo	x0rG			
Benzo(g.h.i)perylene 151	@T@ OrG	c owo	x0rG			
Sum of PAHs	0rG	c owo	x0rG			
EP075C: Phthalate Esters	-					
Dimethyl phthalate 121	@1@ OrG	c owo	x0rG			
Diethyl phthalate	Q OrG	c owo	x0rG			
Di-n-butyl phthalate	BTO OrG	c owo	x0rG			
Butyl benzyl phthalate	MOC OIC	c owo	x0rG			
bis(2-ethylhexyl) phthalate 119	@1@ G0	c owo	x GO			
Di-n-octylphthalate 119	OLG OLG	c owo	x0rG			
EP075D: Nitrosamines						
N-Nitrosomethylethylamine	BOR OIC	c owo	x0rG			
N-Nitrosodiethylamine	COC DIC	c owo	x0rG			
N-Nitrosopyrrolidine 520	0000 1r0	c owo	x1r0			
N-Nitrosomorpholine	0rG	c owo	x0rG			
N-Nitrosodi-n-propylamine	@T@ OrG	c owo	x0rG			
N-Nitrosopiperidine 100	COLO DIG	c ovio	x0rG			



: aoe	f 25 LbT2
HLP, h PateP	f EM1202590
n IvemC	f nl RSOh tl OE : U ER : uY tuS
: RINAC	f - 1- 1j 2 2
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L) Client sampling CAS Number LOR Ontinued 5-T@i@ LOR Set al (10) 01G 10 Q @0@ 1-0.6 110 10 Ind Ketones 5-T@i@ 01G 10 Ind Ketones 50.000 01G 10 Ind Ketones 105.000 01G 10 Ind Ketones 10000 110 11 Ind Ketones 105.000 01G 10 Ind Ketones 105.000 01G 10 Ind Ketones 105.000 01G 10 Ind Ketones 101.000 10 10 10 Ind Ketones 10.000 01G 01G 10 Ind Ketones 10.000 01G 01G 10 Ind Ketones 1.110 0.10 01G 10 Ind Ketones </th <th>sample ID QC01110413 date / time 11@: R@012 1G00 Uhit EM1303970-078 Cowio EM1303970-078 Cowio X10 Cowio X10 Cowio X10 Cowio X015 Cowio X016 Cowio X016 Cowio X10 Cowio X016 Cowio X016 Cowio X016 Cowio X10 Cowio X106 Cowio X106 Cowio X106 Cowio X106 Cowio X106 Cowio X106 Cowio X016 Cowio X016</th> <th></th> <th></th>	sample ID QC01110413 date / time 11@: R@012 1G00 Uhit EM1303970-078 Cowio EM1303970-078 Cowio X10 Cowio X10 Cowio X10 Cowio X015 Cowio X016 Cowio X016 Cowio X10 Cowio X016 Cowio X016 Cowio X016 Cowio X10 Cowio X106 Cowio X106 Cowio X106 Cowio X106 Cowio X106 Cowio X106 Cowio X016 Cowio X016		
rocarbons 101 ලැයු 00 00 00 00 00 00 00 00 00 00 00 00 00	cowo cowo cowo x0rG x0rG x0rG		
5G@0@ 01G j 9@ @ 01G 1-0.@.@ 01G	c owo c owo c owo x 0rG x0rG x0rG		

xorG

c owo

OrG

1000@1@

Hexachloropropylene

f T0 LbT2	f EM1202590	f nI RSOh tI OE : U ER : uY tuS	f - 1- 1j 2 2	:
: aoe	HLP h PateP	n lvemC	: R.NAC	



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aoe f T1 LbT2 1 LP h RaeP f EM1202590 NemC f n1 RSOh t1 OE : U ER : uY tuS RN&AC f - 1-1j 2 2	
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7gy@laœk: SOIL (Maœ∹ SOIL)		Ö	ent sample ID	QC01/110413			
	Clie	nt sampl	ng date / time	11@: R@012 1G00			
Compound	CAS Number	LOR	Unit	EM1303970-078		ł	
EP075J: Organophosphorus Pesticides - Co	ontinued						
Chlorpyrifos-methyl	GG QØ2@	OrG	c owo	x0rG			
Malathion	1-1 @G@	OrG	c owo	x0rG			
Fenthion	GC@C@	OrG	c owo	x0rG			
Chlorpyrifos	- 5- 1 000	OrG	c owo	x0rG			
Pirimphos-ethyl	- 2000@1@	OrG	c owo	x0rG			
Chlorfenvinphos	190@0@L	OrG	c owo	x0rG			
Prothiofos	2Tj T2@j @	OrG	c owo	x0rG			
Ethion	G 2@-@	OrG	c owo	x0rG			
EP080/071: Total Petroleum Hydrocarbons							
C6 - C9 Fraction		10	c owo	x10			
C10 - C14 Fraction		පි	c owo	œx			
C15 - C28 Fraction		100	c owo	x100			
C29 - C36 Fraction		100	c owo	x100			
C10 - C36 Fraction (sum)		ଞ	c owo	xG			
EP080/071: Total Recoverable Hydrocarbon	IS - NEPM 2010	Draft					
C6 - C10 Fraction		10	c owo	x10			
>C10 - C16 Fraction		8	c owo	xGD			
>C16 - C34 Fraction		100	c owo	x100			
>C34 - C40 Fraction		100	c owo	x100			
>C10 - C40 Fraction (sum)		ଟି	c owo	xG			
EP074S: VOC Surrogates					-		
1.2-Dichloroethane-D4	190j 0 @ 9@	0r1	%	78.8			
Toluene-D8	- 029@j@	011	%	91.9			
4-Bromofluorobenzene	<u>Т</u> ј 0 @ 0@	01	%	90.1			
EP075S: Acid Extractable Surrogates							
2-Fluorophenol	2j 9 @- @	011	%	59.3			
Phenol-d6	121-9 @Q@	0r1	%	62.7			
2-Chlorophenol-D4	525G1 @2@	0r1	%	58.4			
2.4.6-Tribromophenol	1100050	01	%	68.0			
EP075T: Base/Neutral Extractable Surrogate	es						
Nitrobenzene-D5	T1j G2000	0r1	%	56.4			
1.2-Dichlorobenzene-D4	- 155@5@	011	%	52.5			
2-Fluorobiphenyl	2-1 @0@	01	%	57.8			



T 1- LD12	f EM1202590	f nIRSON tIOE : UER : uY tuS	f - 1- 1j 2 2	:
. מספ	HLP h PateP	n lvemC	: RLNAC	



78.8 91.9 86.7

% % %

<u>r</u> <u>r</u> <u>r</u>

190j 0**@9@** - 029@j @ Тј 0**@**0@

EP080S: TPH(V)/BTEX Surrogates 1.2-Dichloroethane-D4 Toluene-D8

4-Bromofluorobenzene



f T2 LbT2	f EM1202590	f nl RSOh tl OE : U ER : uY tuS	f - 1- 1j 2 2
: aoe	HLP h PateP	n lvemC	: R.NAC



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7 gy @da@k<: SOIL		Recovery	Limits (%)
Compound	CAS Number	мот	High
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	190j 0 @ 9 @	- <u>(</u>	1
Toluene-D8	- 029@j@	jΤ	1- 0
4-Bromofluorobenzene	Tj 0 @ 0@	įį	1- T
EP075S: Acid Extractable Surrogates			
2-Fluorophenol	2j 9 @- @	Qi	1- j
Phenol-d6	121-9 @Q@	L5	1
2-Chlorophenol-D4	525G1 @2@	- 1rQ	1-9
2.4.6-Tribromophenol	1100050	15r1	122
EP075T: Base/Neutral Extractable Surrogates			
Nitrobenzene-D5	T1j G2000	- Tr9	1- Q
1.2-Dichlorobenzene-D4	- 155@5@	<u>ا</u> ک -	10Q
2-Fluorobiphenyl	2-1000	20r5	1-9
Anthracene-d10	1915@)	Ļ	1T-
4-Terphenyl-d14	19100010	2Q	12Q
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	190j 0 @ 9@	ପ	1- G
Toluene-D8	- 029@j@	8	1- G
4-Bromofluorobenzene	Tj 0 @ 0@	ন্ত	122



		QUALITY	CONTROL REPORT		
'ork Order	: ES 12327 3		9aLe	br Pt yPC	
lløluv t uvæOv BBæss	b CARDNO LANE PIPER P bl Y Rh HHd R D R5 Hhn R br Ug RW, WT 3 Y d P 75 h R T 3 Y 4 5 5 R 2 VD P 3 7 Y1	ТҮ LTD : hn\kR2U	naEt œvt ơm Dt uvaO <i>r</i> h BBœss	bcuSMatuAeuvalRR bDactiRatalsG bgRatesvallPYBP7.	Namantur elet faue Malez VDR fsvælmer @
+AaM ele. Ctue aCsM M&	b BauumA OCt ualB6 laue. N b8ir PIOP 00001r11 b8ir PIOP 010001rr	∕leaΩ A∶af	c+AaM ele.Gtue FacSMMoé	bOad I:0 alsO6 als b8i r +C+CUbj Pi 10 b8i r +C+CUbj Pi 1r	LLIT Eal: CA Q
d NeOv	b-r-ri OC		(DReSel	b Нс9I РР́јјј ПР7 0	GeBfleFf)CopAuBn⊓n7 R D7 CobekflootAeuv
₩5 +5 +DRfAEeo 3A.leo dBedvifAEeo	0 FIRM SMUE 0 H+++ 0 H+++		RavePfaA. lesPfeϨeB \≰sfeRave	br Q h 9Y+ 1r C b- g+b9Y+ 1r C	
ft verdf A Eeo	bl cT(wrUwr-		Ht :ft y8aA . lesReceNeB Ht :ft y8aA . lesRualmseB	bjg b-r	
Otal ce. t ou P sf. c lease: P • natt cart on • 1 ev3 BHT. • 1 av0M7. II	acceBesPaumP. acSWf sP ac. t o)sop 01 at IPP.e. t o.PQ uvaMsRocBy IIt 0 MLINMy of mRt. INdarePR3 9 qP e. t o/P elavderBecour au/ PJ T qRuBmarB avt ombt uvd IP. MePhf MePJ 7 qP e. t o/P eQ SeonBuBRh COL. vauCo Hh hm CODBMeBParBT avt ombt U P h CODBMeBPA of A. INAUCoP MCP V 5 ov DP A . INAUCOP MCP	MP V3%P ceyeceuQe: P Y esf 1\sP a It A avMub MaLerRNyeceuQerP9 Rq&uBPA Qoe. vauQeR MaLerRNyeceuQeP9 Rq&uBPA Qoe. vauQeR D7 qPYe. t ox, PY eQ SemBuBPA Qoe. vauQeR D7 qPYe. t ox, PY eQ SemBuBPA Qoe. vauQeR MA Ms Signatories	ተዮኒ P vœP saA . le)scP asP sf EA MeB: ነለ ለቆ ነለ ነሴ eleOd ut@alltmP st/ueBP EmP vœP af v d œBf œsR. eOydBR/uP r PDFY 19ao/Pr	PhIIP.aLesPtyPvOB	IP œ. t o.P GaSeP EeeuP CCeO' eBP auBP a d SeBF MBMaveBP Eelt 0 :P c leOd uMP sMuMLP GaSP Ee Accreditation Category
ORLD RECOGNISED		Hauch Predaut Hauch Predaut H111/1117 ve. unedos/M H111/1117 ve. unedos/M	7 eumld?eA Not lavePvisvo 7 eumld?eA Not lavePvisvo 7 eumld?ut d.aunOmvisvo A (AeuvDGA kav AeuvDGA kav tuvDGA kav tuvDGA kav	letter foueres dauros letter foueres dauros letter fouereort dauros letter fouereort dauros

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RIGHT SOLUTIONS RIGHT PARTNER

		R	
		B d P	
b - R yrO	b clr Clq @	bDhYRH5FhhHcF9/9/cY	b-r-ri OPC
9aLe	4 t of F5 dBeo	DINGUN	9d NGO/



General Comments

GP aualinvolue I do Br cosp f seb Emp vce p cuSt u A euvel P Rotative Dock - eBp vd A PesvaElkaGeBP Mecuawuu alimp co LundeBP. d Ob f cosp sf Ocp as Pvd se - f ElkaGeB Emp vce P37c9 hp h9Vh ph7PauBPHc9I : PVP Of f se BeSelt . eBP.d ObBf cosRaceBA . It meBRMROBRESeu ObR yBt Of A euveBBsau BacksR dEmiciNauvRekf esv.

- 4 GeorAt 1114 George Markhur Bastreeur eot of epotest Isaa Rever. to ear un many en organistic
- 4 Georgenes YRyalter: to eBrest IvBlyeestart A Brau Badenes Yipdalid anthe Briet Rourdey takin on the unauyhustan. I ethoration Brendenen. It melop da avon the open oc:
- Dh 7 PHFA Eeder Dh 7 ReListon Brit A Eeder A Revar Ease Rative BREnit De A Ioal In Esca Os P ecolors P Cor De A Ioal In Esca Os P ecolor Representation of A color In Correction of A color In Cor hut unwit fsrefyeisærer isaa. Iesie googsærer vis, eowoaliner aovervedarer to'n de der aoverviseer. De di de sen v Y9RP-PYelawBerBecceuvaLeRMeccuCe n5YPE-PAMAIN RP yPce.to MLP #PPUBNDavesPanleBR D KemB

b Cft yfQ	b clr ch c c c c c c c c c c c c c c c c c c	b DhYRH5 RhhHc Bov Øc YB9 dRh R	b-r-ri CPC
9aLe	4 to/155 dBeo	DINGUN	9 d NAOV



Laboratory Duplicate (DUP) Report

CePkfallmPC und IP work Plater and mPRf. IllowePeoseor & Pape and A ImPselecter Proven Proventer and mPselecter MP on Proventer and any on a with Precedenter Proventer Pro Ht PRIM MIPY est IN TE-W0 eeu Pr 1 Pau BP 1 PRIM es Pr 5 Y br PW HPU 1 %; PY est IN PP 1 PRIM es Pr 5 Y br PW PW 1 %;

	Method: Compound	CAS Number	LOR	Unit	Laboratory I Original Result	Duplicate (DUP) Report Duplicate Result	RPD (%)	Recovery Limits (%)
C								
ch1UHr1C0Brt18MfceEDtuveuvBf	304BF6 Pr1CDq	ŧ	r:1	%		j. Ú		Ht RAMA M
ch1UU+r1C0APt1%M/coEDtuveuv-)B0%	BPB PP1CDq	ŧ	r :1	%	00 -	- @-	1:@	1%PHP 1%
Q								
ch1UUtr1C03Pt1% and and and a childer	4BF6 F 1 C Dq	ŧ	r:1	%	Ø	đ	СU	Ht Frick M
ch1UU+r1C0+Pt1sMfcenDtuveuv)Boh	⋬₿₱₿₽₽1℃Dq	ŧ	r:1	%	r-:i	rr:i	ģ	1%PRU1%
) 4212) 3G								
c, 11U bFremilMA		@gg1+gr+@	L	ALWL	L	<۲	1:1	Ht Frick M
c, 11U bDaBA MA		@gg1+gC j	<u> </u>	ALWL	٢	۲	1:1	Ht Prima M
c, 11U bradWA		@g1+G +C	r 1	ALWL	r - 1	r 11	rr:i	1%PPU1%
c, 11U broch Alfila		@g1+g@C	ı	ALWL	- 1	a	r 1:U	1%PPU1%
c, 11U bDt Ealv		@g1+gQ4g	ı	ALWL	a	0	1:1	Ht Prima M
c, 11U bHM0 el		@g1+1- +1	ı	ALWL	r 1	,	1:1	Ht Prima M
c, 11U bhaceulo		@g1+00	D	ALWL	∩>	∩>	1:1	Ht Prima M
c, 11U bPDteo		@g1+U1+Q	D	ALWL	٢٢	r 1	1:1	Ht Prima M
c, 11U theaB		(cg) cj +j - +r	∍	ALWL	ri	ŗ	1:1	Ht RNAM M
c, 11U BP auLauese		@GG +j i +U	n	ALWL	00 GG	ggU	1:U	1%PP 1%
c, 11U b2auaBMA		@g1+i - +-	n	ALWL	ਹ	o '	ģ	Ht Frima M
c, 11U BZMO		@001+ii+i	∍	ALWL	a'	0	1:1	Ht RAMA M
c, 11U bFreamiltMA		@1911-gr +@	-	ALWL	I	I	1:1	Ht Prima M
c, 11U BEDABA MA		@01+9C+j	<u>ـ</u>	ALWL	۲	۲	1:1	Ht Riva M
c, 11U bradviA		@g1+G €	r1	ALWL	ą	r- 1	ï	1%PRU1%
c, 11U BEDGET A RMA		@01+0@C		ALWL	i 1	g	<u>6</u> :6	1%PP 1%
c, 11U bPDt Ealv		@g1+gQ4g		ALWL	ŋ	гg	1:1	Ht RIMA M
c, 11U BHNOTEI		@g1+1- +1		ALWL	00-	0	1:1	1%PPU1%
c, 11U bhaseul		@g1+00+	n	ALWL	∩>	∩>	1:1	Ht Prima M
c, 11U bDteo		@g1+U1+Q	D	ALWL	r 1	гr	1:1	Ht Prima M
c, 11U theaB		(cc) +j - +r	D	ALWL	гg		00	Ht Prima M
c, 11U bP auLauese		GG : + : - FC	∍	ALWL	σ	a '		Ht Prima M
c, 11U b2auaBMA		@g1+i - +	∍	ALWL	t į	υį	U:C	1% HPU1 %
c, 11U BZMO		@001+ii+i	∍	ALWL	σ	σ	1:1	Ht Frima M
M (QC Lot:) 4212) 1G								
c, 100 bP eood an		©0 + ©	1:r	ALWL	<1:r	<1:r	1:1	Ht Promin
c, 1CU bP eood on		QCG + Q	1:r	ALWL	<1:r	<1:r	1:1	Ht Prima M
ns (QC Lot:) 4212F) G								
c 9 1@bH euzeue		@ 4 0¢		ALWL	-:1	:. V	1:1	Ht Prima M

9aLe 4 t d ਲ deo	bgntynd belredd ad								
DINGUV	b DhYRH5 PhhHc PB & c Y PB	dR) R							
90 BCV	b-r-ri uc								(272)
7fE+ avdM: MOIL						Laboratory I	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 FA: S ono0B0li0 /	Aromati0 + Bdro0aryons(d	2C Lot:) 4212F) G80ontinued							
clrC10;@0+11	9 thr + QM:r	c 91@tP t If eue	r 104004C	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bb \ChilEeuzeue	r 11+gr +g	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bPA eva+R&P aca+Xmeue	r 10:00:07	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
			r 1i 1 g- 1 C						
		c 91@b7 vmeue	r 11+g- +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bt a dt +Xmeue	1 Ung@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@041% t.d.mtEeuzeue	j œû ð	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bbl-9d.mtEeuzeue	10월 (Jan	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gth:C:U+dMevGmEeuzeue	r 1 Gei 🕲 O	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bBeOfff whEeuzeue	r auij aia	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@btP:-:g+ dMtevDantEeuzeue	まごう!	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bBeorHTf whEeuzeue	j Q=1: +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@gbP+4st.d.nhtlfeue	j j 1 00	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bb-fffwhEeuzeue	r 1g+Ur +Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
cl rC10 @ 4C1	9 th Ca +1 r wr:g	c 91@HT euzeue	@ 40C+	. .	ALWL	-:	<1:-	1:1	Ht Prima M
		c 91@bPtIfeue	r 104004C	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bB vGnEeuzeue	r 11+gr +g	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bbA eva+t&P aca+Xmeue	r 10400407	1:U	ALWL	<1:U	<1:U	1:1	Ht RNMA M
			r 1i +g- tC						
		c91@db7 where	r 11+g- +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@dff.oct+Xmheue	j Utg@i	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gb104f.d.mtEeuzeue	j đà đ	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bb-9d.mEeuzeue	r1œi ⊊	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@ghr:CU+dMtevDenzeve	r 1 GH 🕲 Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@dbseOfffmnEeuzeue	r auij aia	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbth::::g+ dMtevGmtEeuzeue	j.⊆i ⊆i	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bBeovHTf whEeuzeue	j Q+1: +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbP+Ast.d.mhtlfeue	j j 1 00	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bt0+ff whteuzeue	r 1g+Ur +Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
EP3 FA: S ono0B01i0 /	Aromati0 + Bdro0aryons(0	QC Lot:) 421525G							
cl rC10;00+000	(D1rwr1grC	c 9 1@HT euzeue	@ +gC+	1:-	ALWL	<1:	<1:-	1:1	Ht Prima M
		c 91@bt t If eue	r 1 CHOCHC	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bB GhilEeuzeue	r 11+gr +g	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bA eva+t&P aca+Xmeue	r 1040040P	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
			r 1i +g- +C						
		c 91@bP/mmeue	r 11+g- +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@dft.oct.+Xmbeue	10-00	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@dbakt.d.mtEeuzeue	, QQ Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 91@gbbl-9d.mtEeuzeue	-1 요. 두	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@047.CU+dMevGmHEeuzeue	- 1 Q (Q)	1:Ú	ALWL	<1:U	<1:U	1:1	HIFINGAM

	D - L - LI UCC								
'f E+I avdM: MOIL						Laboratory	Duplicate (DUP) Repor	t	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limit:
EP3 FA: S ono0B0li	0 Aromati0 + Bdro0aryons	: (QC Lot:) 421525G80ontinued							
cIrC1G @04000	(D1rwr1grC	c 91@bBeOfTf witteuzeue	r auij ara	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bht:-:9+ dMtevGmtEeuzeue	ま う う 「	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bReov+Tf whEeuzeue	j Q41i +	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 91@0bP Ast. d. mht If eue	1 j −0	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 91@b8+Ff vmEeuzeue	r 19 1 0 +0	1:U	ALWL	<1:U	<1:U	1:1	Ht Rima M
EP3 Fx : OgBpenate	d Comf ounds (QC Lot:)	4212F) G		-			-		
cIrC10j@d+11r	9+hr + QM:r	c 91@b2 Mmith @vave	r 104104g	∍	ALWL	Ç	P≻	1:1	Ht Frima M
		c91@db +ffvautue91 cKq	CHC CHC	∍	ALWL	∩>	P	1:1	Ht Frima M
		c91@dbg+levGnt++.euvautueB)IVTKq	r 10 r 1 +	∍	ALWL	∩≻	٦	1:1	Ht RAMA M
		c 91@bP +Mexaut uePI TKq	u'r+@0∔	D	ALWL	₽	∩>	1:1	Ht Prima M
ୋ ୮୦୯ସ୍ @ୋ୍⊣େ	9 th Catfir wr:g	c 91@b2 Minith Cevave	r 1QHUHg	D	ALWL	∩>	∩>	1:1	Ht Frima M
		c91@dbP+TfvautuePilcKq		∍	ALWL	∩>	∩≻	1:1	Ht RAMA M
		c91@0bg+levGm+++euvautueP)IVTKq	r 10Fr 1+r	∍	ALWL	∩>	∩≻	1:1	Ht RAMA M
		c91@gbP +Mexaut uePJI TKq	U, r +00¥	∍	ALWL	∩≻	∩>	1:1	Ht Frima M
EP3 Fx : OgBpenate	d Comf ounds (QC Lot:)	421525G							
ୋ୮୯ୀପ଼@ା⊬@©	(D1rwr1grC	c 91@b2 Minith Cevave	r 1QHUHg	∍	ALWL	∩>	∩>	1:1	Ht RAMA M
		c91@dbP+TfvautuePilcKq		∍	ALWL	∩>	∩≻	1:1	Ht RAMA M
		c91@gbg+levGn+++euvautuePil VTKq	r 10 gr 1 #	∍	ALWL	∩>	∩≻	1:1	Ht Frima M
		c 91@bP-Wexaut uePI TKq	u'r-a©i	∍	ALWL	∩≻	∩≻	1:1	Ht Prima M
EP3 FC: Multonated	Comf ounds (QC Lot:) 4	t212F) G							
cIrC10,@041r	9 +h r + QM :r	c91@gbDacEtuENefiyBe	DH HO	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
cIrClପ୍ର@ttd	9+h Ca+1 r wr:g	c91@gbDacEtuENefiyBe	CH HO	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
EP3 FC: Multonated	Comfounds (QC Lot:) 4	t21525G							
clrC10;@14@00	(D1rwr1grC	c91@btDadEtuENefilyBe	OFF UFF	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
EP3 FD: cumipants	(QC Lot:) 4212F) G								
cIrC10;@041r	9 +hr +- QM :r	c91@bb:+RM03td:.daue	U g+ 1+@	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gbr:-+RMOBtd.d.d.aue	CONCOMP (CONCOMP)	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gb40%thr:CHRMOGtd.d.d.	r 11i r +1r +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbBraus+r:C+RN0Gtdt.ddmheue	r 11i r +1- +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbr:-+RNEctAtevCaueRcRTq	r1i+jC+g	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
ୋ ୮୦୩୦ ଭି୍ୟାପ	9+hCa+1rwr:g	c91@0bP:-+R100Gtd.cd.cd.aue	U g+ 1+@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@0.bPF:-+RN00Gtdt.ct.ct.aue	CORPORT CORPORT	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c91@ob40%4r:C+RN0Gtd.c.d.d.	r 11i r +1r +U	1:U	ALWL	<1:U	<1:U	1:1	Ht RMM M
		c91@gbbcaus+r:C+RN0Gtd.t.ddmeue	r 11i r +1- +	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@@bhP:-+RNErctAtevCeauePicRTq	r 1i +j C+g	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
EP3 FD: cumipants	(QC Lot:) 421525G								
cIrC10,@0+000	(D1rwr1grC	c91@bP:-+RM0Et d. d. aue	Ц 9+ 1+@	1:U	ALWL	<1:U	<1:U	1:1	Ht Rima M
		c91@0bP:-+RM0Gtddd.aue	CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-C	1:U	ALWL	<1:U	<1:U	1:1	Ht Rima M

9aLe 4 t d P5 dBeo DIMBUV 9 d NBCN	binky 10 bolrc10,00 bDhYRH51mhHc190% oʻY19 b-r-ri0700	ብት R							ALS
7fE+H avdM: MOIL						Laboratory	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 FD: cumipants	(QC Lot:) 421525G80ontin	lued							
clrC10,@14@	(D1rwr1grC	c91@gbRoaus+r:C+RN0Gtd.d.dt.mheue	r 11i r +1- +	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gbth:-#RNEactAtevCauePicRTq	r 1 i +j C+g	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
EP3 FE: +alopenated	d Alif 9ati0 Comf ounds(Q	C Lot:) 4212F) G							
cIrC10,@141r	9+hr+ QM:r	c 9 1 @ bh :r 4R Mat a evæue	BHDHB	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1 @ br A evCaue	Gi+CD+G	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbRoaus+r:-+RN0Gtdtecece	r Ui +i 1+U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 @ bh :r +R Mat d ev Bue	C HOHO	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 @ bt Bitt :- +RNOGt at excerne	r Ui +U +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbP:r:r+ d0Gt d evOaue	© +UU∔	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbPr:r+RMOEtct.ct.ct.meue	n Guai	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 @ b b a c t u P evca CC t d B e	Ui + CHU	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbr:- +RMOGt dt evOaue	r 1@1i +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbrowdtdeveeue	@+1r +	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@dbR1MadaAtAevCaue	Qui UC	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gbPr:r:-+d00GtdtevCaue	@+1+∩	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbbr:C+RM03tddd.aue	rg-+ Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 91@bP evacOt d evœue	r - @r 0 1 0	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gth:r:r:-+ evaOdtdtevGaue	i C1+ 1+	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gbbcaus+r:g+RN0Gtdt+Efveue	rr 1+U®	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1@b10km:g+R1003t d +- +년 veue	rg@+r +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1@gbP:r :- :- + eva03t d evGaue	G+60+00	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gbff:-:C+d00Gtdd.d.aue	ji+rQ+g	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1@bB euva Odt d evOaue	@ +1r +@	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@0.01Pr:-+RNEdcAt+-C+-COEtct.ct.ct.aue	ji+r-+Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gbPR100GtdbBNfftdAevCaue	00+00+00	N	ALWL	∩>	∩>	1:1	Ht Frima M
		c91@btDGt dAevCaue	@+0@C	D	ALWL	∩>	∩>	1:1	Ht Frima M
		c 9 1 @ b MmHCOEt dBe	QUHIT +g	D	ALWL	∩≻	٦	1:1	Ht Frima M
		c91@dHtdAtAevCaue	Ba+CC+i	N	ALWL	∩>	∩>	1:1	Ht Frima M
		c91@dtDGt d evGaue	@H1+C	N	ALWL	∩>	∩>	1:1	Ht Frima M
		c91@guPd00Gtdt)ftdAevGaue	@uij+g	N	ALWL	∩>	∩>	1:1	Ht Frima M
cIrCIC) @ୋ HCI	9 th Catir w:g	c91@gbfr:r+RMOBtdtevCeve	BHOHB	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1 @ br Bt A evCaue	@i+CC+ig	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbbcaus+r:-+RMOHtdtece	r Ui +i 1+U	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gbP:r+RMGtdtevCaue	G)HCg+C	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@b101%tr:-+RM03tdevCeue	r Ui +Ú +	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@gbP:r:r+d00GtdtevCaue	© +UU∔	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gb1P:r+RN0Gtct.ct.ct.mheue	UI CHUQ	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 @gbtPacEt uP evcaCGt dBe	Ui + C+U	1:Ú	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbPr:-#RMOGtotevCarue	r 1@1i +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 ලෝප අගයt ය දෙයෙන	@ +1r +	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M

9al-e 4 to/F5-cBeo Dinteuv 9 ct NaCov	b@bybd bcl r C1G@ b DhYRH5ħhHc@@cY® + b - r - ri OC	dħ R							ALS
7fE+H avdM: MOIL			L			Laboratory	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 FE: +alopenated	Alif 9ati0 Comf ounds (QC	C Lot:) 4212F) G 80ontinued							
ୋ r ପାପ୍ @ୋ ⊭ ପ	9 th Cartir wr:g	c91@dbRNBcdAtAevGaue	Qg +i U+C	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bPt:r:-+ dV0Gt dt evCaue	@+1+∪	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@gbr:C-RN03td.d.d.aue	-rg + -g .	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c 9 1@hP eva Odt d evœue	r - @r Qg	1:U	ALWL	<1:U	<1:U	1:1	Ht RNA M
		c 9 1@bh :r :r :- + eva03t a evaue	i C1+ 1+	1:U	ALWL	<1:U	<1:U	1:1	Ht RNA M
		c91@gbbcaus+r:g+RMCBtd++Efveue	rr 1+U®i	1:U	ALWL	<1:U	<1:U	1:1	Ht RNA M
		c91@b4201%tr:g+RM0Gtdt+Efveue	rg@+rr+U	1:U	ALWL	<1:U	<1:U	1:1	Ht RNA M
		c91@gbP:r:-:-+ evcaOGt ct evCaue	G +G +G	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbr:-:C+ d/003t dt. dt. aue	ji+rQvg	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bB euva CBt d'evCaue	@ +1r +@	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c91@0.04P:-+RNBc4At+-C+003tct.tot.aue	j i t r - Å	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c91@gbrRMDGtd1BMftd4AevCaue	0+0+0	∍	ALWL	∩>	P	1:1	Ht Prima M
		c91@btbGt dAevGaue	@+0@C	D	ALWL	∩>	٩	1:1	Ht Prime M
		c 9 1 @ b 2 MniPCGt dBe	@H1r +g	D	ALWL	∩>	∩>	1:1	Ht Prima M
		c91@gbHdAtAevGaue	<u>_</u> +00+	D	ALWL	٦	٦>	1:1	Ht Prima M
		c91@bDGt d ev@ue	@H1+C		ALWL	Ų	∩>	1:1	Ht Prime M
		c91@gbPd003tdyftdAev@aue	©Hij+g	∍	ALWL	∩>	∩>	1:1	Ht Prima M
EP3 FE: +alopenated	Alif 9ati0 Comf ounds (Q0	C Lot:) 421525G							
cl r C10 @ + @	(D1rwr1grC	c91@gbP:r-RM03tdteweeue	COHO	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c 91@gbW Bt A evGaue	∰+CC+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbbcaus+r:-+RMCBtdtece	r Ui +i 1+U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@gbfr:r-rRMBtdtevGaue	C HOB+C	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c 91@bt@t#r:-+RM0Gt d evœue	r Ui +Uj +	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c91@bPr:r:r+dMGtdtevCaue	@ +UU⊧	1:U	ALWL	<1:U	<1:U	1:1	Ht Prick M
		c91@gb17:r+RMB1tct.ct.mheue	u GUQ	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@btbacEtuPevcaCGtdBe	Ui + CiU	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@gbP:-+RMOGtdtevCaue	r 1@1i +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c 91@hP dMGt d evGeue	@ +1r +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@bmmEddAtAev@aue	∰Hj UHC	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@bPr:r:-+ dV0Gt dt evCaue	@+1+∪	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@gbP:C+RM03tdt.dt.dt.aue	rg-+ Q i	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c 9 1@bP evacOt d evœue	r - @r Qig	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bP:r:r:-+ evcaOdt of evCaue	i C1+ 1+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@gbbcaus+r:g+RMOdt d +- +Ef veue	rr 1+U®	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@bt01%tr:g+RM06t d +- +Ef veue	rg@+r +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@dbP:r:-:-+ evcaOGt ct evCaue	G0+03+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@0bff:-:C+ d/003tdt.dt.aue	ji+rQng	1:U	ALWL	<1:U	<1:U	1:1	Ht RNAM M
		c 91@bBeuvaOBt d evOaue	@ +1r +@	1:U	ALWL	<1:U	<1:U	1:1	Ht RNA M
		c91@@bP?:-मराष्ट्रितAt+c0-c03tot.t	j :+ - Å	1:U	ALWL	<1:U	<1:U		Ht Rham M
_		c91@gbRR100GtdBNJftdAecGaue	0+0 F		ALWL	Ų	Ç	1:1	Ht RIMA M

dineauv dineacov	b DhYRH5 PhhHc PB VB c Y PB b-r-riOPC	DEF X							(AL
EH avdM: MDIL						Laboratory	Duplicate (DUP) Report		
aboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits
EP3 FE: + alopenate	ed Alif 9ati0 Comf ounds(C	3C Lot:) 421525G80ontinued							
ୋrC1G୍ପ∰େଶ@©	(D1rwr1grC	c91@bDGt dAevGaue	@+0@C	D	ALWL	∩>	∩	1:1	Ht Prima M
		c 9 1 @ b B Minterest dBe	QH1r tg	∍	ALWL	∩≻	₽	1:1	Ht Rhman M
		c91@gHTdAtAevGaue		∍	ALWL	∩≻	₽	1:1	Ht Prima M
		c 9 1@bDGt d ev@ue	@H1+C	∍	ALWL	∩≻	₽	1:1	Ht Rhman M
		c91@gbPd/00Gtdt)ftdAevCaue	©Hij+g	Ъ	ALWL	∩>	∩	1:1	Ht Prima M
EP3 Fc: +alopenate	d Aromati0 Comf ounds (0	3C Lot:) 4212F) G							
sIrC10,@041r	9+hr+ QM:r	c91@ttDGt d Eeuzeue	r 1 3 1 1	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@HHdAtEeuzeue	r 1040 +r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@b++DGt d vt If eue	j Utgj tQ	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bbg+DGt d vt If eue	r 1i +gC+g	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@br:-:C+ dVaGt d Eeuzeue	00 ir +	1:U	ALWL	<1:U	<1:U	1:1	Ht Rama M
ା ୮୦ୀପ୍ ଭ୍ୟାପ	9 +h Ca +1 r wr:g	c91@bDGt α Eeuzeue	r 1 3 1 1	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bHdAtEeuzeue	r 1040 ≠	1:U	ALWL	<1:U	<1:U	1:1	Ht Rhma M
		c91@tb+DGtdvtfeue	j Utgi tā	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bg+DGtdvtfeue	r 1i +gC+g	1:U	ALWL	<1:U	<1:U	1:1	Ht Rive M
		c91@dbr:-:C+ af0Gt d Eeuzeue	000 ir +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
EP3 Fc: +alopenate	d Aromati0 Comf ounds (G	3C Lot:) 421525G							
sIrc10,@14@00	(D1rw/r1grC	c91@bDGtdEeuzeue	r 104j 1+00	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bHdAtEeuzeue	r 1040 +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bP+DGtdvtfeue	j Utgi tā	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bg+DGtdvtlfeue	r 1i +gC+g	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@dbr:-:C+ dV0Gt d Eeuzeue	000 ir +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
EP3 Fb : Tri9alome	9anes (QC Lot:) 4212F) G								
sIrC10,@11r	9+hr + QM:r	c91@bbGtd	i @i i €	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bHtdAtBMGtdAevGaue	@+- @0	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@dmR1ddAt003tdAevCaue	r - g+gQ+r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@dbTdAtytoA	4) 40 0+ (+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
ା ୮୦ୀପ୍ ପ୍ତି୍ୟପ	9 +h Ca +1 r wr:g	c91@bbGtdyd		1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@gbHdAtBMOGtdAevGaue	00+ 00	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@dmRrddAt003tdAevCaue	r - g+gQ+r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@00000404040	GH- CH-	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
EP3 Fb : Tri9alomet	9anes (QC Lot:) 421525G								
ା ୮୦୦ ପ୍ରିମ୍ଭ	(D1rwr1grC	c91@bBGtd yt oA	 ⊡ 	1:U	ALWL	<1:U	<1:U	1:1	Ht Rhman M
		c91@bHdAtBMGtdAev@aue	00+ 000 10-	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@btR186dAtOGtdAeoQue	r - g+gQ+r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@00HTdAtyd	CH- CH-	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
EP3 5A: P9enoli0 C	omf ounds (QC Lot:) 4215) 2G							
sirc10,@141r	9+hr+ QM:r	c91@b9@ut1	- 13i C	1:U	ALWL	<Ω<	°.	1:1	Ht Prima M
		ra1@hp+DGtrt_Gaut	C MHO	1:Ú	ALWL	ຊິ່ງ	ŝ	1:1	Ht PMM M

bjnetyco bolrccic)@ bDhYRH5PhhRome(WocYB9 b-r-ricocc	к К Г							ALS A
					Laboratory D	uplicate (DUP) Report		
Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
pmf ounds(QC Lot:) 4215)) 2G80ontinued							
9 +h r + QM:r	c91@UPH evGmt. Geut I	j UtgQt@	1:U	ALWL	≤C1	۵. ۲.	1:1	Ht Prima M
	c91@utC+RkB+ evGnh Geutl	rorj+@	1:U	ALWL	<Ω1	<c1< td=""><td>1:1</td><td>Ht Prima M</td></c1<>	1:1	Ht Prima M
	c91@ub-+HMut. Geut I	CCH@HO	1:U	ALWL	<0.1	<0.1	1:1	Ht Prima M
	c91@JP:g-RM evGht. Ceut 1	r 1 (Hi (Q)	1:U	ALWL	<24 20	<0.1	1:1	Ht Prima M
	c91@JP :9-RMBt d. Gut I	r - 1+00+	1:U	ALWL	<27 27	< <u>.</u>	1:1	Ht Prima M
	c91@UP:i+RMOBt d. Geut I	000 (H	1:U	ALWL	<24 2	< <u>.</u>	1:1	Ht Prima M
	c91@bbg+DGtd+C+levG+h. Geutl	QÌ +7+ Q	1:U	ALWL	< <u>.</u>	< <u>.</u>	1:1	Ht Prima M
	c91@uPr:g:i+ dondt dt. Geut I	0041i +	1:U	ALWL	< <u><</u> .1	< <u><</u> .1	1:1	Ht Prima M
	c91@uPr:g:U+ dondt dt. Geut I	j Utj Utg	1:U	ALWL	< <u><</u> .1	< <u><</u> .1	1:1	Ht Prima M
	c 9 1 @bB euva CBt d . Geut I	0000 1 0	<u>ـ</u>	ALWL	⊽	⊽	1:1	Ht Prima M
9 +h Ca +1 QM :r	c91@tB@ent1	-13 E	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@bP+DGtd. Geut I	j UHU@Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@001P+levGmt. Geut I	j UngQn@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@btc+t&tg+tevOntront	rocj +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@uP+HMt. Geut I	CCH@HO	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c 9 1@UP : g+RM evGht. Geut 1	r 1 (H. (Q)	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@uP :g-RMBt d. Geut I	r - 1+00+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@ubP:i+RMOEtd.Geut1	00 LH	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@ubg+DGtct+C+IevOnh. Geut1	Uj +U1 +@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@bb2:g:i+dWoGtdt.@eutl	0041i +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@uP:g:U+ dougt d. Geut I	j UHj UHg	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c 9 1 @bB euva CBt d. Geut I	000 H	L	ALWL	۲	۲	1:1	Ht Prima M
pmf ounds(QC Lot:)42F3	- 76							
9+hr+C@4;j	c 9 1 @ 109 Gent 1	-1 <u>8</u> -	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@bP+DGtd. Gut1	j uhu@a	1:U	ALWL	<1:U	<1:U	1:1	Ht Riva M
	c91@001P+levOnt. Geut I	j UngQn@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@btC+ftkg+levGnh Geutl	r Cr j +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@ub+HMut. Geut I	CCH@HO	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@bb::g+RM evGhi. Geut I	r 1 UH @	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@ubr:g+RMOBt d. Geut I	r - 1+00+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@UP:i+RMOGtdt. Geutl	100 000 000	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@bbg+DGtd+C+levGmh. Geut I	0¦ +∩ +©	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
	c91@bb2:g:i+ do0Gt dt. Geut l	QQ+1i +	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
	c91@u1P:g:U+dW03tdt.@utl	j Utj Ug	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
	c91@tBeuvaCGt d. Ceut I	<u>000</u> 0 +U	L	ALWL	<۲	<۲	1:1	Ht Prima M
r Aromati0 + Bdro0aryons	(QC Lot:) 4215) 2G							
9 +h r + QM :r	c91@thta. Ocaleue	j r + 1 6	1:U	ALWL	<0.1	<0.1	1:1	Ht Prima M
	c91@bP+ evGmua. Goaleue	jr+U@i	1:U	ALWL	-Ω 2	<0.1	1:1	Ht Prima M
	c91@bP+DGt d ua. Galeue	jr +U0 4 0	1:U	ALWL	<c1< td=""><td><0.1</td><td>1:1</td><td>Ht Rima M</td></c1<>	<0.1	1:1	Ht Rima M
	c91@bh Oeua. GOmeue	- 10 <u>3</u> i đ	1:U	ALWL	ς1	<0.1		Ht Rima M
	b i R yết b cl r CiQ đ b DhYRH5 RhH Hc Powo c Yre b - r - r i QC Itent semple ID Inf ounds (QC Lot:) 4215 9 th Ca H QM :r 9 th r + QM :r	bi Rydi bi Criciq (a) bi Criciq (a) bi Criciq (a) bi Criciq (a) bi Criciq (a) client Rampel ID Anthoriz Commentar and founds (CCLoiz) 42(3) 2680ontinued and founds (CCLoiz) 42(3) 2680ontinued anti-cricit (a) anti-cricit (a) anti-cr	Dir Perdis Dir Perdis Construction Construction	b) F ADD D)	D # P # D D # P # D D F CRQ B D F CRQ B D F CRQ B D F CRQ B D F CRQ B Import Consolina D F CRQ B D F CRQ B Import Consolina D F CRQ B D F CRQ B D F CRQ B Import Consolina D F CRQ B D F CRQ B D F CRQ B D F CRQ B Import Consolina D F CRQ B D F CRQ B D F CRQ B D F CRQ B D F CRQ B E F CRQ B E F CRQ B D F CRQ B <td< td=""><td>Fit Note Fit Note</td><td>Di PRODICIONALINATIONALIN</td><td>Union Distribution Distribution Image: Second mathematical mathmathmathmatical mathematical mathematical mathematical ma</td></td<>	Fit Note Fit Note	Di PRODICIONALINATIONALIN	Union Distribution Distribution Image: Second mathematical mathmathmathmatical mathematical mathematical mathematical ma

9al-e 4 to/F5-cBeo Diteluv 9ct NeCv	br11RyACI bolrC1G/G/G bDhYRH5PhhHc1B/S9CYB9 (b-r-riO7C	법하 R							ALS
7fE+I avdM: MDIL						Laboratory I	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5x: PolBnu0lear	Aromati0 + Bdro0aryons (C	2C Lot:) 4215) 2G 80ontinued							
cIrC10 @ +11r	9+hr + QM:r	c91@bh/0eua. Gœue	00 1 0 1	1:U	ALWL	۵. ۲.	۵ <u>.</u> 1	1:1	Ht RAMA
		c91@bFiftœue	01 +00+0	1:U	ALWL	<c1< td=""><td><c1< td=""><td>1:1</td><td>Ht RAM M</td></c1<></td></c1<>	<c1< td=""><td>1:1</td><td>Ht RAM M</td></c1<>	1:1	Ht RAM M
		c 9 1 @bb Guau Ame	autr ta	1:U	ALWL	<۵ م	<0.1	1:1	Ht RIMA M
		c 9 1@Jth uvOta Ceue	r - 1 + r - +@	1:U	ALWL	<01 -	<0.1	1:1	Ht RIMA M
		c 9 1@bFift auvœue	- 1i +gg+1	1:U	ALWL	<2 2 2	<0.1	1:1	Ht RAMA
		c 9 1 @ 1139 meue	r-j+11+1	1:U	ALWL	<01	<0.1	1:1	Ht RIMA M
		c91@ubH++FlftceumhPhOevaAMe		1:U	ALWL	<01 -	<0.1	1:1	Ht RIMA M
		c91@bHeuz)acqucca@ue	Ui +WC	1:U	ALWL	<0.1	<0.1	1:1	Ht RAMA M
		c 9 1 @bb Gmseue	- r Q+1r +j	1:U	ALWL	<0.1	<0.1	1:1	Ht RAMA M
		c 9 1 @ bbg - RM eventEeuz) a guv Ga Ceue	0 0 0	1:U	ALWL	<0.1	<0.1	1:1	Ht RAM M
		c 91@UHT euzt)aq moeue	ф Ч Ф	1:U	ALWL	<0.1 2.1	< <u><</u> ;	1:1	Ht RIMA M
		c91@btteH eventote lauvoeue	Ui tgj tU	1:U	ALWL	<0.1	<0.1	1:1	Ht RAMA M
		c91@bbMateut)r:-:CCBqmane	rj œq t U	1:U	ALWL	<0.1	<0.1	1:1	Ht RAMA M
		c91@brRfeuz)a:GpuvGaOeue	nct@ €	1:U	ALWL	<0.1	<c1< td=""><td>1:1</td><td>Ht RAMA M</td></c1<>	1:1	Ht RAMA M
		c 9 1 @ UFT euzt)L: GM emieue	rjr+g+	1:U	ALWL	<c:1< td=""><td><c:1< td=""><td>1:1</td><td>Ht RAMA M</td></c:1<></td></c:1<>	<c:1< td=""><td>1:1</td><td>Ht RAMA M</td></c:1<>	1:1	Ht RAMA M
		c91@bHfARyBhWs	ŧ	1:U	ALWL	<0.1	<0.1	1:1	Ht RAMA M
		c 91@tH euzt)Ed&H euzt)/ glft æuvæue	- 104 j + P - 1@104	L	ALWL	v	·v	1:1	Ht Rim M
cIrC10,@1+1UC	9 th Ca+1 CM:r	c91@thHa. Gcaleue	jr+1 6	1:U	ALWL	<1:U	<1:U	1:1	Ht RMM M
		c91@ub-+1 evGmua. Gcaleue	jr +U@i	1:U	ALWL	<1:U	<1:U	1:1	Ht RMM M
		c91@bP+DGt d ua. Gcaleue	jr +UQ+@	1:U	ALWL	<1:U	<1:U	1:1	Ht RAM M
		c 9 1 @ LPh Ceua. G Chieve	- 1 <u>0</u> : -	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c91@bh@ua. Gœue	00+0- 	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c91@brFlftœue	07 1 00 100	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c 9 1@bB Guautone	autir ta	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c 9 1 @th uv accue	r - 1 + r - +@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@b#If t auvœue	- 1i +gg+1	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@bbBmeeue	r-j+11+1	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c91@00044+ +FlftceunnthPCevaANde	UC∰ i €	1:U	ALWL	<1:U	<1:U	1:1	Ht RAM M
		c91@bHeuz)acqucca@ue	Ui +UHC	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c 9 1 @bt B Gmseue	- r Q+1r +j	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@bb@rRMevGmbEeuz)aqauvGacQeue	U. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1:U	ALWL	<1:U	<1:U	1:1	Ht RMM M
		c91@bHTeuzt)aqmooce	ς Φ	1:U	ALWL	<1:U	<1:U	1:1	Ht RMM M
		c91@bteH eventota lauveeue	Ui tgj tU	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@ubMiBeut)r:-:C.CBq monue	rj œd U	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@bRMeuz)a:GpuvGcaCeue	nc‡@ ₽	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c 9 1@bH euzt)L:GM eomeue	rjr+g+	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@b7fARyBhWs	ŧ	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@bFeuzt)Eq&Feuzt)/ gfft	- 10-j j + P - 10910-j	L	ALWL	7	۲	1:1	Ht Rhom M
				-			-		

9ale 4 tơ F5 cBeo Diltáuv 9 ch tả Cy	brrศิษณี bclrc1G@ bDhYRH5mhHc®เ% cYm9 b-r-riO7C	dħ. R							ALS
7fE+I avdM: MOIL						Laboratory	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5x : PolBnu0lear	Aromati0 + Bdro0aryons (QC Lot:) 42F3- 7G							
cl r C1G @ 4-U	9+hr+C@M:j	c91@bHa. Galeue	jr+1+C	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bb++ evGmua. Goaleue	jr+∪@i	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bP+DGt dt ua. Goaleue	jr +UQ+@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 @bh @ua. Goneue	-13jið	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bh @ua. Gœue	00 4 0 +	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bFiftœue	0, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1 @bB GenauvGreue	autr ta	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bh uvGa@ue	r - 1+r - +@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bFrlftauvGeue	- 1i +gg+1	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bBmeue	r-j+11+1	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@UPH++FlftceunhPhCevaAMBe	UC∃i÷€	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bHeuz)acpuvGcaCeue	Ui +UHC	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bBGmseue	- r QHr i j	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1@bb@ - 4RM evGmEeuz)aqauvGaQeue	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bHTeuzt)aq moeue	Ut¢ Å	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bteH eventoot lauveoue	Ui +gj +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@c041@c040.ccBqmoene	rj Gig I U	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@URREeuz)a:GpuvGaOeue	nct@ €	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bHeuzt)L:GM emieue	rj r + g+	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bHfARyBhWs	+++	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bHeuzt)Eq&Reuzt)/ ghft œuvœue	- 10 i j + P	L	ALWL	۲	٨٢	1:1	Ht Prima M
			- 1@12						
EP3 5C: P9t9alate Es	sters (QC Lot:)4215)2G								
clrC10,00+11	9+hr+ QM:r	c 9 1 @brr.M. evGmP. GGalave	τΩŧιΨ	1:U	ALWL	50 1	çç	1:1	Ht Prima M
		c 9 1 @ UPR NA COMP. G COM ave	+ i ;+ 001 ± i	1:U	ALWL	<۵ م	ŝ	1:1	Ht Prima M
		c 9 1 @bRrMu+Ef vmP. Gcalave	+ 8 + 8	1:U	ALWL	ςΩ	çç	1:1	Ht Prima M
		c 9 1 @bH f where uzmP. Goalave	QLFI QF	1:U	ALWL	ςΩ1	ŝ	1:1	Ht Prima M
		c91@bRMu++0mt.GGalave	rr@001+1	1:U	ALWL	<α2	ŝ	1:1	Ht Prima M
		c 9 1 @b Ells) - tev Gridex mich? G Calave	rr @0 🖞	Ľ:	ALWL	<Ω:1	40:1	1:1	Ht Prima M
clrcd@duc	9+h Ca+1 QM:r	c 9 1 @ bPRIM evGmP: OvCalave	rαtrθ	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1 @bm NavGmP Ocealave	Qg≓ii+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 @ bRIWLIEF white Goalave	+ ® + 00+00	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 @bH f where uzmiP. Goalave	QLFI QFO	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bRNU+Comb. Occalave	rr@Qg+1	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bEst)-+evGmGexmpP. Gcalave	rr @0 🖞	Ľ:	ALWL	<u1< td=""><td><u:1< td=""><td>1:1</td><td>Ht Frima M</td></u:1<></td></u1<>	<u:1< td=""><td>1:1</td><td>Ht Frima M</td></u:1<>	1:1	Ht Frima M
EP3 5C: P9t9alate Es	sters (QC Lot:) 42F3-7G								
cl r C1G @ 4-U	9 thr +C@M:j	c91@bRM evGnP: Ocalave	rαtrθ	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1 @ UPR MAGINP: GGBI ave	+ ⊡ T	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bRNut-Ef whP. GGalave	+ (0 + (0 + (0) + () + (1:Ú	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bHffwhtEuzmPGGalave	QLE QLE	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M

9 aLe 4 to/ 15 cBeo Diletuv 9 d NGOv	br-RybCi bclrcrCjCi bDhYRH5Phhhc1998сҮ196 b-r-ric045	dR R							
7f F4 avdM·MOII						Laboratory D	Juplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5C: P9t9alate Es	ters (QC Lot:) 42F3-7G80	ontinued					•	-	
cIrC10,@1+-U	9+hr+C@M:j	c91@URIMU# Omh. GCalave	rr@001+1	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bEtw)-+evGniGexntpPGvBlave	rr @0.40	U:1	ALWL	<u:1< td=""><td><u:1< td=""><td>1:1</td><td>Ht RAMA</td></u:1<></td></u:1<>	<u:1< td=""><td>1:1</td><td>Ht RAMA</td></u:1<>	1:1	Ht RAMA
EP3 5D: Nitrosamines	s (QC Lot:) 4215) 2G								
cIrC10,@141r	9+hr+QM:r	c 91@UPH+HMt st A evGmevGmaAMe	r 10 Gi Gi	1:U	ALWL	\$ 5	5. 1.	1:1	Ht Prima M
		c 91 @UPH +I Nut st BlevGhaA Me	ULF QU	1:U	ALWL	ςΩ1	\$ 5	1:1	Ht Prima M
		c91@UPH+HMt st At a G IMe	+ ţ Ţ	1:U	ALWL	<24 4 4	\$C1	1:1	Ht Prima M
		c91@UPH+HMt st BMu+; d. maA Me	i - r +i g +@	1:U	ALWL	^ 2	≤C.1	1:1	Ht Prima M
		c91@bH+HMt st. MedBMe	r 11+@Hg	1:U	ALWL	<24 2	<c1< td=""><td>1:1</td><td>Ht RAMA M</td></c1<>	1:1	Ht RAMA M
		c91@JPH+HMt st BME whaA Me	j - g+ri +C	1:U	ALWL	۵ ²	\$C.1	1:1	Ht RAMAN
		c91@UP evGa. moliteue	jr+Øl€	1:U	ALWL	< <u>.</u>	<0.1	1:1	Ht Prima M
		c91@JPH+HMt st. mod IBMe	j C1+UL+	r:1	ALWL	≤. 	i.	1:1	Ht Prima M
		c91@bH+HMt st BM@umbRRM@umbAMe	Q C 1 H	r.1	ALWL	 	<u>∵</u> . ⊽	1:	Ht Prima M
					1/1/1			T . T	LI+ DAMI NA
		COLOCITATION STACK AND A MA		<u>;</u>	AIWI	0:1-7 1:1>	0.1.1 1.12	-	Ht Program
			÷ Ç	1:U	AIWI	<1:1	1:1	1.1	Ht Brain
		COTORNAL MAR ST DATE OF THE CONTRACT OF THE CONTRACT.	i - r + a +@	i U	ALWL		2 I:U	- 	Ht PANA M
		C 91@HPH+HMH st MedBMAe	r 11+@Ha	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91(@bPH+HMt st BMf whaA Me	- <u>d</u> + - <u>i</u>	1:U	ALWL	<1:U	<1:U	1:1	Ht RAM M
		c91@bHrevGa.monteue	₽Ğ	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91(@UPH+HMt st . mout INBMe	C1+UL	r:1	ALWL	<r:1< td=""><td><r:1< td=""><td>1:1</td><td>Ht RMM M</td></r:1<></td></r:1<>	<r:1< td=""><td>1:1</td><td>Ht RMM M</td></r:1<>	1:1	Ht RMM M
		c91@bH+HMt st BM@umb&RM@umbaAMe	Q 1 1 1 1 1 1 1 1	r:1	ALWL	<r :1<="" td=""><td><r:1< td=""><td>1:1</td><td>Ht Price M</td></r:1<></td></r>	<r:1< td=""><td>1:1</td><td>Ht Price M</td></r:1<>	1:1	Ht Price M
			r + dj +g						
EP3 5D: Nitrosamines	s (QC Lot:) 42F3- 7G								
cIrC10;@d+1-U	9 thr +C@M:j	c 91@bPH+HMt st A evGnhevGnhaA Me	r 1 U U U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bH+HMt st BlevGhaA Me	UUHr QHU	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@uth+HMtstAtaGtiMe	⁺ţ ſ	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@ubH+HMutstBMu+; dt. maAMe	i - r +i g +@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bPH+HMtst.MedBMe	r 11+@Hg	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bH+HMt st B昭 vnhaA Me	j - g+ri +C	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@uthecoa.monteue	jr tôl t	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@ubH+HMtst.medil1BMe	j C1+UL	r:1	ALWL	<r :1<="" td=""><td><r :1<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r :1<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
		c 91@bH+HMt st BMGeumb&RRMGeumaA Me	Q 1 C1 ± F	r:1	ALWL	<r :1<="" td=""><td><r:1< td=""><td>1:1</td><td>Ht Frima M</td></r:1<></td></r>	<r:1< td=""><td>1:1</td><td>Ht Frima M</td></r:1<>	1:1	Ht Frima M
			r 1 d 1						
EP3 5E: Nitroaromati	0s and Ketones (QC Lot:)	4215) 2G							
cIrC10,@0+11r	9+hr+-QM:r	c 9 1 @bb + 9 Mi IMe	r 1j +1i +Q	1:U	ALWL	<0.1	ç;	1:1	Ht Prima M
		c91@UPh Oext. Ceut ue	j QłQ +	1:U	ALWL	<24 2	≤C.1	1:1	Ht Prima M
		c 91@UPHINIt Eeuzeue	J. J.	1:Ú	ALWL	ςΩ1	çö.	1:1	Ht Frima M
		c91@bbkt.Gtdue	_+ (J+COD	1:U	ALWL	ςΩ^	≺C.1	1:1	Ht Frima M
		c91@bh+Ha. G@haAMe	r Qg th	1:U	ALWL	ς12	407 C	1:1	Ht Prima M

9aLe 4 t d R5 dBeo DIMeuv	br CAF yAC) bclr CHCJ CO bDhYRH5 FAhh CPB YBC YFB	dR R							
9 ପାର୍ଷ ପ	b-r-richt								(ALS)
7fE+H avdM: MOIL						Laboratory	Juplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5E: Nitroaromat	ilos and Ketones (QC Lot:)	4215) 2G 80ontinued							
cl rC10 @141r	9+hr+ QM:r	c91@bg+HMt kf Mt IMe+H+t xMe	UGH IN	1:U	ALWL	çö.	\$C.	1:1	Ht RMM M
		c91@bbHINt + + tif IBMe	j j +UHQ	1:U	ALWL	5 2	°.	1:1	Ht RAMA M
		c 91@br:CU+ dMMt Eeuzeue	j j +0.4g	1:U	ALWL	5å 1	ç,	1:1	Ht RAM M
		c91@b9@ua@w	+66+ - i	1:U	ALWL	۵2 ۵۲	-S 2	1:1	Ht RAM M
		c91@bg+hAMtEM@um	j - +i @	1:U	ALWL	<24 2	<c.1< td=""><td>1:1</td><td>Ht RAMA</td></c.1<>	1:1	Ht RAMA
		c91@bBeuvaOdt d uMt Eeuzeue	Q ± Q	1:U	ALWL	<24	-SC	1:1	Ht RAM M
		c91@bBd uaA Be	- g utta	1:U	ALWL	5 2	₽	1:1	Ht RIM M
		c 91@bRtM evGntaA Mt azt Eeuzeue	i1+rr+@	1:U	ALWL	ç.	< <u>6</u>	1:1	Ht RAM M
		c91@bDDGtdEeuzMake	Lr 1+ U∔	1:U	ALWL	≤C:1	< <u><</u> .1	1:1	Ht Prima M
		c 91@bhzt Eeuzeue	r 10+00+0	-	ALWL	⊽	ÿ	1:1	Ht RAM M
		c 91@bP:i +RMMt t If eue	i 1i + 1+	r.1	ALWL	∵. ⊽	.∵ .∵	1:1	Ht RAMA M
		c 91@bP :g-RMMt vt If eue	r - r +r g+-	r:1	ALWL	 	</td <td>1:1</td> <td>Ht RAMA</td>	1:1	Ht RAMA
cIrC10;00+1UC	9 th Ca +1 CM:r	c91@JP-+9100 IMe	r 1j +1i +Q	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c 91@bh Oevt. Geut ue	j Q4Q +	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA
		c 91@bHIMt Eeuzeue] <u>a</u> (-C	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@dbtst.Gtdue	1+ (1400) 100-11-1-1	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@br +Ha. GGhtaA Me	r og+¢- 🔞	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bg+INtt kf Ntt IMe+H+t xlBe	Ui +U@U	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@bpuHINt +t +t If Name	j j +UHQ	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA
		c 91@br:CU+ dMMt Eeuzeue	j j +CU+g	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA
		c91@bB@ua@eW	i - +99+	1:U	ALWL	<1:U	<1:U	1:1	Ht RAM M
		c91@bg+hAMtEMœum	j - +i @r	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c91@bBeuvaOGt duMt Eeuzeue	Q + QA	1:U	ALWL	<1:U	<1:U	1:1	Ht RAM M
		c91@bBd uaA Be	- g utta	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c 91@bRtM evGntaA Mt azt Eeuzeue	i1+rr+@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@btDGtdEeuzMave	<u>r</u> 1+ ∪ <u>+</u>	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bhzt Eeuzeue	r 104004C	L	ALWL	۲	٢	1:1	Ht RAMA
		c91@bP:i +RMMt vt If eue	i 1i + 1+	r:1	ALWL	<r:1< td=""><td><r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<></td></r:1<>	<r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<>	1:1	Ht Prima M
		c 91@bP :g-RNMt vt If eue	r - r +r g+-	r:1	ALWL	<r :1<="" td=""><td><r:1< td=""><td>1:1</td><td>Ht RAM M</td></r:1<></td></r>	<r:1< td=""><td>1:1</td><td>Ht RAM M</td></r:1<>	1:1	Ht RAM M
EP3 5E: Nitroaromat	i0s and Ketones (QC Lot:)	42F3- 7G							
cIrC1G @ୋ+-U	9+hr+C@M:j	c 91@db +9100 lMe	r 1j +1i +Q	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c 9 1 @ b th Oevt . Geut ue	j Qtđ +	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c 91@bHIMt Eeuzeue] <u>a</u> (-C	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA
		c91@bbkt.Gtdue	1+ (1400) 100-11-1-1	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@br +Ha. GGntaA Me	r Og+C- 🔞	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@ubg+HMatkfMtIMe+H+txMBe	UGH IU	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@JPU+HMt +t +t If NBMe	j tuta	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@bP:CU+ dMMt Eeuzeue	j j +OUg	1:U	ALWL	<1:U	<1:U	1:1	Ht RIMA M
		c91@b9@ua@w	- +gg+	1:U	ALWL	<1:U	<1:U	1:1	Ht RAMA M
		c91@bg+hAMtEM@umi] - 4 @	1:U	ALWL	<1:U	<1:U	1:1	Ht Rhim M

9a.Le 4 to/15-obeo Dilmetuv 9otoka.Ov	brgntyk0 bclrccic)@ bDhYRH5mhHcB%scYm3 b-r-ric070	dR R							SIS .
						Laboratory I	Dunlicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5E: Nitroaromati	i0s and Ketones (QC Lot:) 42F3- 7G 80ontinued							
ୋ rC1G @ 4-U	9+hr+C@0(:j	c 91@bb9euvaOGt of uMt Eeuzeue	Q- ± Q+Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1@bb9 d uaA lBe	- g ut+tat	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 91@bRM evGmaA Mit azt Eeuzeue	i 1+rr+@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@btDGt d EeuzMave	Lr 1+ U∔	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 9 1@bh zt Eeuzeue	r 10+00+0	L	ALWL	۲	۲	1:1	Ht Frima M
		c 91@ub? i +RMMMt vt If eue	i 1i + 1+	r:1	ALWL	<r:1< td=""><td><r:1< td=""><td>1:1</td><td>Ht Frima M</td></r:1<></td></r:1<>	<r:1< td=""><td>1:1</td><td>Ht Frima M</td></r:1<>	1:1	Ht Frima M
		c 9 1@bP :9+RMMt 4 If eue	r - r +r g +-	r:1	ALWL	<r:1< th=""><th><r:1< th=""><th>1:1</th><th>Ht Frima M</th></r:1<></th></r:1<>	<r:1< th=""><th>1:1</th><th>Ht Frima M</th></r:1<>	1:1	Ht Frima M
EP3 5c: +aloet9ers	(QC Lot:) 4215) 2G								
cIrC1G@0+11r	9+hr+ QM:r	c91@uHT1%)-+OGt d evOntdevOeo	ггг - 99 - 9	1:U	ALWL	<c.1< th=""><th><Ω<</th><th>1:1</th><th>Ht Frima M</th></c.1<>	<Ω<	1:1	Ht Frima M
		c 9 1@UHT 18)-+OOt d evG xmtPA evGaue	rrr+jr+r	1:U	ALWL	¢01	<c:1< td=""><td>1:1</td><td>Ht Prima M</td></c:1<>	1:1	Ht Prima M
		c 9 1@bg+DGt d . Geunter Geunter Geo	@10+@+C	1:U	ALWL	¢01	<0.	1:1	Ht Prima M
		c91@0463+TctAt. CeumPecceo	r 1r +W+C	1:U	ALWL	<24 20	\$C.	1:1	Ht Prima M
cIrC1G@HUC	9 +h Ca +1 QM:r	c 91@UFT 1%)-+OBt d evGndevGeo	ггг - 99 - 9	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bH1kl)-+03t d evG xmPA evGaue	rrr+jr+r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bbg+DGt d. GumP: GeumBoGeo	@ 10+@ +C	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@046g+TctAt. CeumP: CeumPevCeo	r 1r +W+C	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
EP3 5c: +aloet9ers	(QC Lot:) 42F3-7G								
cIrC1G@H-U	9+hr+C@M:j	c91@uHT1ø)-+OGt devOntdevOeo	ггг - 99 - 9	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@uHT1ø)-+OOt devGtxmtPAevGaue	rrr+jr+r	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bg+DGt d. Geunter Geunter Geo	@10+@+C	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@04634TctAt. CeumPer CeumPer Ceo	r 1r +WHC	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
EP3 5b : C9lorinated	+ Bdro0aryons (QC Lot:)	4215) 2G							
cIrC10;@0+11r	9+hr+- QM:r	c91@UPR:CHRNME1td Eeuzeue	Ugr +@r⊧	1:U	ALWL	ç.	<c:1< th=""><th>1:1</th><th>Ht Prima M</th></c:1<>	1:1	Ht Prima M
		c 9 1@UAP :g+RMOAt d Eeuzeue	r 1i +gi 🔞	1:U	ALWL	<u>5</u>	¢Ω	1:1	Ht Prima M
		c91@0047:-+RM031tdtEeuzeue	j UHUI I r	1:U	ALWL	¢Ω2	<c:1< th=""><th>1:1</th><th>Ht Prima M</th></c:1<>	1:1	Ht Prima M
		c 91@bPVexaCGt d eVCaue	i @@+	1:U	ALWL	<Ω>	< <u><</u> C1	1:1	Ht Prima M
		c91@ubrr:∷g+dw03tot Eeuzeue	r - 1+Q ⊭	1:U	ALWL	5Ω2	\$C.	1:1	Ht Prima M
		c91@bMexaCGtd.d.d.nheue	r aaata ta	1:U	ALWL	<24	< <u><</u> C1	1:1	Ht Prima M
		c91@bMexaOGt ct Ef vaBMaue	9 9 0 9 0	1:U	ALWL	°.	40 21	1:1	Ht Prima M
		c 91@b9evaO3t d Eeuzeue	:103; Ct	1:U	ALWL	°.	40 21	1:1	Ht Prima M
		c91@bMexaOGt d EeuzeuePMDTq	rrQ+@G+r	r:1	ALWL	ž. Ľ	÷.	1:1	Ht Prima M
		c91@btWexaCGtd.c0mOt.euvaBlodue	මේගේ	U: -	ALWL	<r td="" u:1<=""><td><r td="" u:1<=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r td="" u:1<=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
cIrC10,@1UC	9 +h Ca +1 QM:r	c91@bhr:C4RMG1td Eeuzeue	Ugr +@+r	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c 91@bh?:g+RMOBt d Eeuzeue	r 1i +gi +@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@0047:-+RM031td Eeuzeue	j UHUI k	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bMexaOGt d evGaue	i @@ +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@um:::g+ dWGt d Eeuzeue	r-1+Q, ⊭	1:U	ALWL	<1:U	<1:U	1:1	Ht Rima M
		c91@ubMexaOGtd.d.d.	r 000-10 -10	1:U	ALWL	<1:U	<1:U	1:1	Ht Rima M
		c91@UPMexaOGtdEfvaBMaue	90 00 00	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@b9euvaOGt d Eeuzeue	i 103i C€	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M

9ale 4 to/F5-03eo Dinkauv 90thk10/	brLMP, yKC) beircng@ bDhYRH5PnhHen®@eYF b-r-ric0PC	فع حالت الح							ALS
7fE+Iav0M:MOIL						Laboratory I	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5b : C9lorinated	+ Bdro0aryons (QC Lot:) 4215) 2G 80ontinued							
cIrC10;@1+1UC	9 th Ca +1 CM :r	c 91@bbtexaOGt d EeuzeueRWDTq	rrQ+000+r	r:1	ALWL	<r :1<="" th=""><th><r:1< th=""><th>1:1</th><th>Ht Prima M</th></r:1<></th></r>	<r:1< th=""><th>1:1</th><th>Ht Prima M</th></r:1<>	1:1	Ht Prima M
		c 91@bMexaOGt of OnOt . euvaBlaue	කොලා	U: -	ALWL	U: ->	U: ->	1:1	Ht Prima M
EP3 5b : C9lorinated	+ Bdro0aryons (QC Lot:) 42F3- 7G							
cIrC10;@14-U	9 thr +C@M;j	c 91@UPP: C-RNMGH of Eeuzeue	lugr +@0+r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bbr:g+RMOGtdtEeuzeue	r 1i +gi +@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@UP:-RNOGt of Eeuzeue	j UHU1 ⊮	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bMexaOGt d evGaue		1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bP:-:g+ dVOGt d Eeuzeue	r - 1+Q #	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bPNexaOGt d. d. meue	r 0004@+@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bPtexaOGt of Ef vaBleue	0 <u>0</u> 0.0	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bBeuvaCGt d Eeuzeue	i 103j C€U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bMexaOGtdtEeuzeuePMDTq	rr Qa 🔞 🕂	r:1	ALWL	<r:1< td=""><td><r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<></td></r:1<>	<r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<>	1:1	Ht Prima M
		c 91@UPVexaOGt of OmOt . euvaBMaue	ක්ෂය	U: -	ALWL	U: ->	U: ->	1:1	Ht Prima M
EP3 5+: Anilines and	I x enzidines (QC Lot:) 4	.215) 2G							
cIrC10;000+11r	9 +h r + QM :r	c 91@bhuMMe	i - tuc i c	1:U	ALWL	<c:1< td=""><td><c:1< td=""><td>1:1</td><td>Ht Prima M</td></c:1<></td></c:1<>	<c:1< td=""><td>1:1</td><td>Ht Prima M</td></c:1<>	1:1	Ht Prima M
		c 91@bg+DGt d auMMe	r 1i +g@Q	1:U	ALWL	۵ ²	ŝ	1:1	Ht Prima M
		c91@brRtReuzt yf cau	r G- +i g +j	1:U	ALWL	۵ <u>5</u>	\$C.	1:1	Ht Prima M
		c 91@bbg+HMtt auMMe	r 11+1r i	1:U	ALWL	2°2	ŝ	1:1	Ht Prima M
		c 91@btDacEazt le	Q Q Q	1:U	ALWL	^C1	≤C1	1:1	Ht Prima M
		c91@bbC:ARMOGt d EeuzMaMe	j r +j g +r	1:U	ALWL	<Ω1	40 10	1:1	Ht Prima M
		c91@JP +HMt auMMe	00-00 00-00	r :1	ALWL	<u>∵</u> . ⊽	∵. V	1:1	Ht Prima M
		c 91@bC+INt auMde	j j +1j +	r:1	ALWL	 	 ∠.	1:1	Ht Rima M
cIrCiq@atuc	9+h Ca+1 QM:r	c 91@bhuNMe	i - tucic	1:U	ALWL	<1:U	<1:U	1:1	Ht Rima M
		c91@bg+DGt d auMMe	r 1i +g@Q	1:Ú	ALWL	<1:U	<1:U	1:1	Ht Prime M
		c91@JRRMeuzt yf agu	- C- + G+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@Jbg+HMt auMMe	r 11+1r 4	1:U	ALwL	<1:U	<1:U	1:1	Ht Prima M
		c 91@btDacEazt le	ф Ф С	1:U	ALwL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1 @ UPC: C' +R MOGt & Eeuz Na Me	jr+jg+r	1:U	ALwL	<1:U	<1:U	1:1	Ht Prima M
		c91@JP +HNt auMMe	00-00 00-00	r:1	ALWL	<r:1< th=""><th><r:1< th=""><th>1:1</th><th>Ht Prima M</th></r:1<></th></r:1<>	<r:1< th=""><th>1:1</th><th>Ht Prima M</th></r:1<>	1:1	Ht Prima M
		c 9 1@bPC+HNtt auNMe	j j +1j +	r:1	ALWL	<r:1< th=""><th><r :1<="" th=""><th>1:1</th><th>Ht Prima M</th></r></th></r:1<>	<r :1<="" th=""><th>1:1</th><th>Ht Prima M</th></r>	1:1	Ht Prima M
EP3 5+: Anilines and	I x enzidines (QC Lot:) 4	2F3-7G							
cl rC10 @ +1-U	9+hr+C@M:j	c 91@bhuMMe	i - HCHC	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bg+DGt d auMMe	r 1i +g@Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@URRMEeuzt yf cau	r C- +i g +j	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bg+HMt auNMe	r 11+1r +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@ttDadEazt le	0 0 0	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bbCC+RMOGt d EeuzMaMe	jr+jg+r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@JP +HMt auMMe	6-00-00	r :1	ALWL	<r:1< td=""><td><r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<></td></r:1<>	<r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<>	1:1	Ht Prima M
		c91@btc+HMt auMMe	j j +1j +	r:1	ALWL	<r:1< td=""><td><r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<></td></r:1<>	<r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<>	1:1	Ht Prima M
EP3 5I: Orpano09lori	ine Pesti0ides (QC Lot:)	4215) 2G							

9ale 4 tơ F5 đeo Diteluv 9 đưể đơ	briftynd belrcnig @ bDhYRH5PhHc69% ocY19 b-r-riO70	ድ ይ							ALS
7fE+I avdM: MOIL						Laboratory I	Juplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5I: Orpano09lorin	ne Pesti0ides (QC Lot:) 42	215) 2G 80 ontinued							
cl r C10 @ +1 r	9+hr+ QM:r	c91@bal.GafTWD	C, j +00+ į	1:U	ALWL	<0.1	č.	1:1	Ht RNAM M
		c91@bEeva+TWD	0-j-10-1@	1:U	ALWL	<Ω2	°C.	1:1	Ht Prima M
		c91@btaAAa+TWD	uQiđ ∔	1:U	ALWL	<α1	¢Ω,	1:1	Ht Prima M
		c91@bBelva+TWD	ς φ	1:U	ALWL	 2 2 4 4	ŝ	1:1	Ht RNM M
		c 9 1@bbve. vacat o	Q+66+ @	1:U	ALWL	<2 2	-SC	1:1	Ht Prima M
		c91@bh/BdM	GIj +11+	1:U	ALWL	<Ω1	\$C.1	1:1	Ht Prima M
		c91@UPVE. vaOGt de. tx178e	r 1- g+U@C	1:U	ALWL	۵ [×]	\$C.1	1:1	Ht Prima M
		c91@thal. Gate uBt sf lyau	j Uj +j QAQ	1:U	ALWL	<0.1	5 5	1:1	Ht RNM M
		c 9 1@bg:g`#Rc	© +UU÷	1:U	ALWL	<0.1 2.1	çö tö	1:1	Ht RNM M
		c91@brRtellBcM	i1+U@r	1:U	ALWL	<c:1< td=""><td><<u>6</u>1</td><td>1:1</td><td>Ht Prima M</td></c:1<>	< <u>6</u> 1	1:1	Ht Prima M
		c 91@bbuBdW	@+140	1:U	ALWL	<0.1	¢Ω,	1:1	Ht Prima M
		c91@btEeva+cuBt sflyau	86, ⊆ ⊊	1:U	ALWL	<0.1	°.	1:1	Ht Prima M
		c91@bg:g`#RR	0+â₁-@	1:U	ALWL	<0.1	<u>ج</u>	1:1	Ht Prima M
		c 91@bbuBt sf IyauBf Iyave	r 10r +1@Q	1:U	ALWL	<0.1	<0.1	1:1	Ht Prima M
		c91@bg:g`#RR	Ut+j Q	r:1	ALWL	 	∵. ⊽	1:1	Ht Prima M
cl r c1g @ +1 UC	9 th Ca+1 QM :r	c91@bbl. GarTWD	Ωrj+Qg∔	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bteeka+TWD	0rj +0.1-10	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@btaAAa+TWD	,+ þron	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bBelva+TWD	Q T T T	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bbve.vaccet o	Q-66-Q	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c91@Jth IBdM	C1j +11+	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c91@UANA. vaOGt de. txNBe	r 1- g+U@C	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c91@thall. Ga+cuBt sf lyau	j Uj +j Q+Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bg:g`#RC	inn+®	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bRtMBdM	i 1+U@r	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c 91@bb uBdM	@+1+Ö	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@btEeva+cuBt sf lyau	19 19 19	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c91@bg:g`#RR	0+G1+@	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bb uBt sf IyauBf Iyave	r 10r +1@Q	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c91@bg:g`#RR	U1+j €	r:1	ALWL	<r:1< td=""><td><r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<></td></r:1<>	<r:1< td=""><td>1:1</td><td>Ht Prima M</td></r:1<>	1:1	Ht Prima M
EP3 5I: Orpano09lorin	he Pesti0ides (QC Lot:) 42	2F3- 7G							
cl rC10; @14-U	9+hr+C@11;	c91@bbal. GarTWD	Grj+Qg∔	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bEeva+TWD	Qrj +QU+Q	1:U	ALWL	<1:U	<1:U	1:1	Ht RMM M
		c91@bttaAAa+TWD	uQiQ +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bBelva+TWD	¢j đ	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bbve.vacceto	© +66+ ©	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bh IBoM	CC j +11+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@UMMe.vaOGtde.tx10ae	r 1- g+U@C	1:U	ALWL	<1:U	<1:U	1:1	Ht RNAM M
		c 9 1@bbal. Gate uBt sf lyau	j Uj +j Q i Q	1:U	ALWL	<1:U	<1:U	1:1	Ht RNAM M
		c91@b9;g`#RC	© +UU∔	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M

9aLe 4 † d'Bs deo	br@gyðð beircició								
DINGUV	b DhYRH5 PhhHc B Oc Y B	dPh R							
90 BCO	20 - L - L								(
7fE+ avdM: MDIL						Laboratory L	uplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5I: Orpano09lori	ine Pesti0ides (QC Lot:) 42	F3- 7G 80ontinued							
cIrC10,@1-U	9 th r +C@0(:j	c91@bRrMBGM	i1+U@r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bbe uBow	@+140	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@btEeva+c uBt sf lyau	8, <u>1</u>	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c91@bb3:g`#RR	0+97-®	1:U	ALWL	<1:U	<1:U	1:1	Ht RNM M
		c 9 1@bPc uBt sf lyauBf lyave	r 10r +1@Q	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bg:g`#RR	U1+j C	r:1	ALWL	<r:1< td=""><td><r :1<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r:1<>	<r :1<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
EP3 5J: Orpanof 9os	f 9orus Pesti0ides (QC Lot	;) 4215) 2G							
cIrC10;@0+11r	9 +h r + QM :r	c91@URWOH diss	+@;+@	1:U	ALWL	< <u>6</u> 1	< <u>6</u>	1:1	Ht Frima M
		c91@brRM evG ave	i 1+Ur +U	1:U	ALWL	<Ω3	ç;	1:1	Ht Prima M
		c 9 1@bRNdzMt u	cocigr +U	1:U	ALWL	<Ω1	¢Ċ1	1:1	Ht Prima M
		c91@bbDGtamonys+AevGmi	UUj Qrr C=1	1:U	ALWL	<c1< td=""><td>ś.</td><td>1:1</td><td>Ht Prima M</td></c1<>	ś.	1:1	Ht Prima M
		c91@bB alavGMu	r - r +@HU	1:U	ALWL	<c1< td=""><td><0.1</td><td>1:1</td><td>Ht Prima M</td></c1<>	<0.1	1:1	Ht Prima M
		c 9 1@bF euvGMu	UHOCH	1:U	ALWL	<c1< td=""><td><<u></u>.1</td><td>1:1</td><td>Ht Prima M</td></c1<>	< <u></u> .1	1:1	Ht Prima M
		c91@bbDGtamonys	- j - r +000+	1:U	ALWL	5Ω 2	ç.	1:1	Ht Prima M
		c91@0.0499 MMA. Gistev Ghill	- aut Utgr +r	1:U	ALWL	< <u><</u> C1	<0.1	1:1	Ht Prima M
		c91@bbDGtojeuSM.Gts	g@d +j 1 +i	1:U	ALWL	<0.1	<Ω<	1:1	Ht Frima M
		c91@bBd vGWA s	Cgi gCigi +g	1:U	ALWL	< <u>C</u>	≺C.1	1:1	Ht Prima M
		c 9 1@be vawu	u Qf - +	1:U	ALWL	40.1 2	≺C.1	1:1	Ht Prima M
cIrC10;@d+UC	9 ++ Ca +1 GM :r	c91@JJRNMGt cots	i - 1 00-10	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bRMevGave	i 1+ U - +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bRNazMtu	ccc+gr +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@btDGtamothstAevGth	Uj ≩ G	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bB alavGMu	r - r +@HU	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bFeuvGMu	itorini Intervi	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@0.04PGtamoMs	- j - r +000+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@0.0091MM. GistevGm	- aututigr +r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bb10GtojeuSM.Gts	g@+i 1+i	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bBdvGtMts	Ogi gCigi +g	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 9 1@bb vGWu	U C+r - +	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
EP3 5J: Orpanof 9os	f 9orus Pesti0ides (QC Lot	;) 42F3- 7G							
cIrC10;@1-U	9 thr +C@ (;)	c91@JJRMOGt cSts	9-100-1	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@brRM evG ave	i 1+U +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c 91@bRNazMt u	ccc+gr +U	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@btDGtamonys+AevGnt	Uj≩rG	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bh alavGMu	r - r +@HU	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bFeuvGMu	UHOCH	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
		c91@bbDGtamonys	- j - r +00+	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@004991044. ପିଟ+୧୦୦୩	- aututigr +r	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bbDGtojeuSM.Gts	g@i+j1∔	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M
		c91@bb9d vGWAs	Cgi gCigi ig	1:U	ALWL	<1:U	<1:U	1:1	Ht Prima M

9aLe 4 t d F5 dBeo	br Qryd belrciq@								-
DINGUV 9 of NAGV	b DhYRH5 PhhHc PB VB cY PB b-r-riOPC	dħ. R							ALS
						Laboratory D	unlicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method' Compound	S Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP3 5J: Orpanof 9os	f 9orus Pesti0ides (QC Loi	t:) 42F3- 7G 80ontinued							
cIrCiG@H-U	9+hr+C@M:j	c 9 1 @JPB vGWu U	L C+ +	1:U	ALWL	<1:U	<1:U	1:1	Ht Frima M
EP343/3 1: Total Petr	oleum + Bdro0aryons (QC	Lot:) 4212F1G					-		
cIrC10,@141r	9+hr + QM:r	c91Q1bDi HDj FraQMu	ŧ	r1	ALWL	<r 1<="" td=""><td><r 1<="" td=""><td><u>.</u>.</td><td>Ht Frima M</td></r></td></r>	<r 1<="" td=""><td><u>.</u>.</td><td>Ht Frima M</td></r>	<u>.</u> .	Ht Frima M
ୋ ୮୦୯ସ୍ ଭି୍ୟପ	9+hCa+1rwr:g	c91C/1tPDi PtPDj FracOtMu	ŧ	r1	ALWL	<r 1<="" td=""><td><r1< td=""><td>1:1</td><td>Ht Prima M</td></r1<></td></r>	<r1< td=""><td>1:1</td><td>Ht Prima M</td></r1<>	1:1	Ht Prima M
EP343/3 1: Total Petr	oleum + Bdro0aryons (QC	Lot:) 4215) - G				-	-		
cIrC1G@d41r	9+hr + QM:r	c91@tbrunn-araomu	ŧ	r 11	ALWL	- UQI	g1	rg:1	1%PP 1%
		c91@tP-j HPD FaOMu	ŧ	r 11	ALWL	rư	ğ	r U:g	1%PPU1%
		c91@tPr1PPrgFaOMu	ŧ	5	ALWL	۲Ų>	۲Ų>	1:1	Ht Prima M
		c91@tPr1PPDG FracMufsfAq	ŧ	5	ALWL	ପ୍ତେ	٩. - 1	rg:@	1%PP 1%
cIrC1G @ା+1C1	9+h Ca+1rwr:g	c91@tPrUPP-CFaOMu	ŧ	r 11	ALWL	<r 11<="" td=""><td><r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
		c91@tP-jHPDGFaOMu	ŧ	r 11	ALWL	<r 11<="" td=""><td><r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
		c91@bDr1PPDrgFraOMu	ŧ	5	ALWL	٣	۲Ų>	1:1	Ht Prima M
		c91@bpr1PpDG FracMuBsfAq	ŧ	5	ALWL	۲Ų>	۲Ų>	1:1	Ht Prima M
EP343/3 1: Total Petr	oleum + Bdro0aryons (QC	Lot:) 42152FG							
ୋମପାପୁ@ଶେ@	(D1rwr1grC	c91Q1bDi PHDj IFagQMu	ŧ	r 1	ALWL	<r 1<="" td=""><td><r 1<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r 1<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
EP343/3 1: Total Petr	oleum + Bdro0aryons (QC	Lot:) 421524G							
clrC1g11QH1i	hutumAtfs	c91@tbrUHb-QFraOMu	ŧ	r 11	ALWL	<r 11<="" td=""><td><r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
		c91@tP-j HPD FraOMu	ŧ	r 11	ALWL	rg1	<r 11<="" td=""><td>۵Ŀ</td><td>Ht Prima M</td></r>	۵Ŀ	Ht Prima M
		c91@bpr1HprgFacOMu	ŧ	5	ALWL	Ъ×	Ъ	1:1	Ht Frima M
		c91@bpr1PpD0 FracMuBsfAq	ŧ	5	ALWL	rg1	٣	j g:@	Ht Frima M
cl rC1g11QHri	hutumAtfs	c91@tPrUPP-CFaOMu	ŧ	r 11	ALWL	<r 11<="" td=""><td><r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
		c91@tm-j HPDG FraOMu	ŧ	r 11	ALWL	-11		gU	Ht Prima M
		c91@bpr1PhprgFcaOMu	ŧ	ъ	ALWL	٣	٩	:-	Ht Prima M
		c91@tPr1PPD0 FraOMuPsfAq	ŧ	5	ALWL	- 11		Ü: Į	Ht Prima M
EP343/3 1: Total Re0	overayle + Bdro0aryons 8N	VEPS) 313 Draft (QC Lot:) 4212F1G							
cIrC1G@0+11r	9 +hr + QM:r	c91C/1BDi PHDr 1FFcaO4Mu	ŧ	r 1	ALWL	<r1< td=""><td><r 1<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r1<>	<r 1<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
cIrC1G @d+1C1	9+h Ca+1rwr:g	c91C/tbbi PHBr 1FracOMu	ŧ	r 1	ALWL	<r 1<="" td=""><td><r 1<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r 1<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
EP343/3 1: Total Re0	overayle + Bdro0aryons 8N	VEPS)313 Draft(QC Lot:)4215)-G							
cIrC10;@0+11r	9+hr+ QM:r	c91@b≯DriHPDGJFraOtMu	ŧ	r 11	ALWL	ପ୍ତିପ	Gr1	rg:g	1%PP 1%
		c91@bPDCgHPg1FraOMu	#	r 11	ALWL	og	ପୀ	- 1:@	Ht Prima M
		c91@b>Dr1HPDri用caOMu	ŧ	5	ALWL	1	G	rg:1	Ht Prima M
		c91@bPDr1PPDg1FrcaOMuBsfAq	ŧ	5	ALWL	g1U1	ପ୍ତିପ	r U:r	1%PP 1%
cl r C1G @ 4C1	9 +h Ca +1 r wr :g	c91@bPDriPPDgFrcaOMu	#	r 11	ALWL	<r 11<="" td=""><td><r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
		c91@bPDCgHPDg1FraOMu	#	r 11	ALWL	<r 11<="" td=""><td><r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r>	<r 11<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
		c91@bPDr1PHDriFrcaOMu	ŧ	ъ	ALWL	۲Û>	×U	1:1	Ht Prima M
		c91@bPDr1HPDg1FraOMuf5fAq	ŧ	5	ALWL	۲Ų>	۲Ų>	1:1	Ht Frima M
EP343/3 1: Total Re0	overayle + Bdro0aryons 8N	VEPS)313 Draht(QC Lot:)42152FG							
clrC10;@14@00	(D1rwr1grC	c 9 1Q1bPDi PHPr 1FFcaOMU	ŧ	r 1	ALWL	<r1< td=""><td><r 1<="" td=""><td>1:1</td><td>Ht Prima M</td></r></td></r1<>	<r 1<="" td=""><td>1:1</td><td>Ht Prima M</td></r>	1:1	Ht Prima M
EP343/3 1: Total Re0	overayle + Bdro0aryons 8N	VEPS) 313 Draft (QC Lot:) 421524G							

-	-	(SIR)
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	YP9 dFn R			Method: Compound	
brjntyck beirciciogo	b DhYRH5 PhhHc P9 V9 c	b-r-rice		Client sample ID	-
)aLe ⊦to/15 dBeo	DINGUV	d NGOV	fE+H avdM: MOIL	Laboratory sample ID	

6 T d 21-244. MOU						l ahoratoru l	Junlicate (DLID) Renort		
IET AVW: NULL						ranoi aroi a	indexi (indi amanda		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP343/3 1: Total Red	000 00 00 00 00 00 00 00 00 00 00 00 00	EPS)313 Draft(QC Lot:)421524G 80ontinued							
clrC1g11QH1i	hutumAtfs	c91@dPDriP#D0gFcaOMu	ŧ	r 11	ALWL	rg1	<r 11<="" td=""><td>a :U</td><td>Ht Prima M</td></r>	a :U	Ht Prima M
		c91@bPDCgP#Dg1FcaOMu	ŧ	r 11	ALWL	ŗ	<r 11<="" td=""><td>ğ</td><td>Ht Prima M</td></r>	ğ	Ht Prima M
		c91@db>Dr1D+10PriFroaOMu	ŧ	5	ALWL	۳	Ŋ>	1:1	Ht Prima M
		c91@bBDr1P#Dg1FcaOMuBsfAq	ŧ	5	ALWL	- j 1	Ŋ>	r gr	Ht RAMA M
clrCdg11QHri	hutumAtfs	c91@bPDriP#DQFacOMu	ŧ	r 11	ALWL	-g1	- g1	1:1	Ht Prima M
		c91@bPDCgP#Dg1FcaOMu	ŧ	r 11	ALWL	5 2	ŗ	r @	Ht Prima M
		c91@dBDr1D#DriFroaOMu	ŧ	5	ALWL	۳	Ŋ>	1:1	Ht Prima M
		c91@bPDr1P#Dg1FrcaOMuRsfAq	++++	Б	ALWL	Ø	g 1	ыc	Ht Prima M

		dRh R		
b - 1R yR	bel rõig oog	Ы DhYRH5 FhhHc P9 Mg c Y P9	b-r-ricto	
9aLe	4 t of P5 dBeo	DINGUN	9d NGOV	



Method Blank (MB) and Laboratory Control Spike (LCS) Report

auaimes: P. Ge. F. a t seif. PROBIR D. P. acad everating that um da ever B. coordinates and the substructure of the avoid that mad Mort ever some in Markentrasetter unsurvational for a constructure of the second of the substructure of the substru

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MOIL	
avdM:	
7 f E+	

7f E+I avold: MDIL				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	TCS	Том	High
Eb 335T: Total Setals yBICP8AEM (QCLot:) 4212) 3G								
c, 11U thraseulo	@g1+00+	D	ALWL	∩≻	r Ci PA LWL	rr 1	g	J
c, 11U bFradWA	@3g1+G +C	r 1	ALWL	<r 1<="" td=""><td>r g Pa lwl</td><td>rr 1</td><td>j 1</td><td>r - 1</td></r>	r g Pa lwl	rr 1	j 1	r - 1
c, 11U bHeomiMiA	@1911-gr +@	L	ALWL	<٢	i :- PA LwL	j g:i	8	rrU
c, 11U UADABANNA	@gg1+gC+j	L	ALWL	<۲	- : CPA LWL	r 1g	0	rr@
c, 11U HEDGET A NAA	@g1+g@C	T	ALWL		i 1:j PALWL	r 10	පී	rra
c, 11U bBDt Ealv	@g1+gQtg	I	ALWL	v	- U:gPA LwL	r 1C	6	rrQ
c, 11U bDteo	@g1+U1+Q	D	ALWL	₽	UU:r PA LwL	<u>.</u> (0)	8	r r @
c, 11U threaB	@GĞi+j-+r	D	ALWL	₽	Lg:j PA LwL	r 1i	ø	rri
c, 11U BP auLauese	@GGi+ji+∪	D	ALWL	∩>	r CODA LWL	r 1C	q	rrj
c, 11U BHIMD el	@g1+1- +1	T	ALWL	4	UU:r PA LwL	r 1j	ø	rra
c, 11U b2auaBMA	@g1+i - +-	D	ALWL	₽	Cg:j PA LwL	r 10	පී	rri
c, 11U BZMO	🞯 g 1 +i i +i	D	ALWL	∩>	r 1 UPA LWL	r 1j	ç	rrU
Eb 325T: Total Re0overayle Ser0urB yB clS M (QCLot:) 42	:12) 1G							
c, 1CU bP ecotion	QQ + Q	1:r	ALWL	<1:r	r:g@ALwL	j 1:C	ğ	r-C
EP3 FA: S ono0B0li0 Aromati0 + Bdro0aryons (QCLot:) 42	:12F) G							
c 91 @HT euzeue	@ €C+	1:	ALWL	-1:-	r PA LwL	<u>8</u>	:	Г - Г
c 91 @ub t If eue	r 1 QHOQHC	1:U	ALWL	<1:U	r PA LwL	jr:r	8	r - 1
c 91 @bb GhtEeuzeue	r 11+gr +g	1:U	ALWL	<1:U	r PA LwL	യി	0	rr@
c 91 ପ୍ରୋପିୟ ୧.ଖ ୩ ୟିମ ସଫ ଧ ିମାବue	r 1040040P r 1i 4- 40	1:U	ALWL	<1:∪	- PA LWL	©:0	Ĺ	r-C
c.91 (2014) vmerue	r11å-€	1:U	ALWL	<1:U	r PA LWL	C) CC CC	ğ	rri
c 91 @bt o.G +Xmeue	j Ug@	1:U	ALWL	<1:U	r PA LWL	0 ©:	ම	rrj
c 91 @thttt: d. mEeuzeue	j Qđ đ	1:U	ALWL	<1:U	r PA LWL	9	0	rrj
c 91 @gbb+9 d . mEeuzeue	r10¥ 🕞	1:U	ALWL	<1:U	r PA LwL	C C C C C C	- C	rrC
c91@br:CU+dMevGmtEeuzeue	r 104 @0	1:U	ALWL	<1:U	r PA LwL	:-: ©	Ϊ	ГГГ
c 91 @uBeOfff whEeuzeue	r au i aa	1:U	ALWL	<1:U	r PA LwL	CM:U	iC	rrU
c91@gbt:-:g+ dMtevChtEeuzeue	きょう	1:U	ALWL	<1:U	r PA LwL	۵۵	iC	rrC
c91@bBeo#Tf whEeuzeue	j Qt1i +	1:U	ALWL	<1:U	r PA LWL	@:@	U	rrC
c 91 @gbP +kst.ct.mht If eue	jj 600	1:U	ALWL	<1:U	r PA LwL	@:0		rrg
c 91 @bbHTfvmEeuzeue	r 1g+Ur +Q	1:U	ALWL	<1:U	r PA LWL	@:r	ĥ	rri
EP3 FA: S ono0B0li0 Aromati0 + Bdro0aryons (QCLot:) 42 ⁴	1525G							
c 91 @hH euzeue	@ - gC+	1:-	ALWL	<1:-	r PA LwL	ത്ര	ij	r – r
c 91 @uPt If eue	r 1 QHQQHC	1:U	ALWL	<1:U	r PA LWL	6	Ø	r - 1
c 91 @bb vGmEeuzeue	r 11+gr +g	1:U	ALWL	<1:U	r PA LWL	6	0	rr@

9aLe 4 to P5 dBeo DiMeuv 9 d NeOv	b-rrty voct bclrc10,00 bDhYRH57mhHc19906cY199 d7A-R b-r-ri0762								ALS
Tf E⊥i ≏tota					Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
					Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	SD1	Гом	High
EP3 FA: S ono0B0110 /	Aromati0 + Bdro0aryons(QCLot:)4	21525G 80 ontinue							
c 91 @001A eva ।1 &	ene	r 1040040P r 1i 4a- fC	1:U	ALWL	Ú	- PA LWL	0	į	C -
c91@dbHvmmene		r 11-g - 0	1:U	ALWL	<1:U	r PA LWL	ē	ğ	rri
c 91 @dff or Gt +Xmleue		j Ung@i	1:U	ALWL	<1:U	r PA LWL	Ø Ö:	0	rrj
c91@dh%st.d.mlEeuzeue		j QA Å	1:U	ALWL	<1:U	r PA LWL	6	8	rrj
c91@gb18+9ct.mlEeuzeue		r 104 Ufr	1:U	ALWL	<1:U	r PA LWL	6	i C	rrC
c91@gbP:CU+dMevGmEe	iuzeue	r 1 QH @Q	1:U	ALWL	<1:U	r PA LwL	ġ:	ij	ГГ
c91@gbBeO+TfwhEeuzeu€		r au i aa	1:U	ALWL	<1:U	r PA LwL	@:g	iC	rrU
c91@gbP:-:g+ dMtevGmEe	uzeue)。 (うう)	1:U	ALWL	<1:U	r PA LwL	@;-	iC	rc
c91@gbReo+TfvmEeuzeue		j QHi ∔	1:U	ALWL	<1:U	r PA LwL	©:U	ij	rc
c91@gbP+Ast.d.mhtlfeu	υ	jj+0@i	1:U	ALWL	<1:U	r PA LwL	ġ;	<u>-</u>	rrg
c91@gb&+TfvmEeuzeue		r 1g+Ur +Q	1:U	ALWL	<1:U	r PA LwL	<u>6</u> .9	ĝ	rri
EP3 FA: S ono0B0110 /	Aromati0 + Bdro0aryons(QCLot:)4	l2F3-4G							
c 91 @bH euzeue		@ 1 0+	1:-	ALWL	<1:-	r PA LWL	j g:r	ij	L - ۲
c 91 @ b t If eue		r 1 QHQHC	1:U	ALWL	<1:U	r PA LwL	j j :1	8	r - 1
c 91 @gb& vGmEeuzeue		r 11+gr +g	1:U	ALWL	<1:U	r PA LWL	j i :Q	0	rr@
c91@0bAeva+1&Paca+Xmt	ene	r 1040040 r 1i 1 - 1 .	1:U	ALWL	<1:U	- PA LWL	jac	:	r-C
c.91 (2014) vmeue		r 114 č	1:U	ALWL	<1:U	r PA LWL	i Qa	ä	rri
c 91@bft o.Gt +Xmleue		j Ung@i	1:U	ALWL	<1:U	r PA LWL	ă įį	0	rrj
c91@db%st.dt.mlEeuzeue		j Q Q Å	1:U	ALWL	<1:U	r PA LWL	Ø	0	rrj
c91@gbb0+9d.mlEeuzeue		r10¥U	1:U	ALWL	<1:U	r PA LWL	j Ľ-	<u>.</u>	rc
c91@gbP:CU+dMevGmEe	iuzeue	r 104 @0	1:U	ALWL	<1:U	r PA LWL	j - j	<u>.</u>	۲r
c91@gbBeO+Tf whEeuzeu€	0	r auij aia	1:U	ALWL	<1:U	r PA LWL	j: i į	<u>.</u>	rrU
c91@gbP:-:g+ dMtevGmEe	uzeue	: 	1:U	ALWL	<1:U	r PA LwL	jcu	iC	rrC
c91@bReountfymEeuzeue		j QHi +	1:U	ALWL	<1:U	r PA LWL	j i :@	ij	rrC
c91@db-Hst.d.mhtlfeu	υ	j j 1 00	1:U	ALWL	<1:U	r PA LWL	j g:-	<u>-</u>	rrg
c91@gbRu+TfvmlEeuzeue		r 1g+Ur +Q	1:U	ALWL	<1:U	r PA LWL	000	ĥ	rri
EP3 Fx: OgBpenated	Comf ounds (QCLot:) 4212F) G								
c 91 @bt2 MmIPh Oevave		r 104Ug	D	ALWL	٩	r 1PA LwL	@∷	99	 -
c91@gbP+TfvautuePIck	q	B B C C C C C	D	ALWL	٩	r 1FA LwL	۵ ۲:	g	ō
c91@gbg+levGmh++;euvar	ut uePI VTKq	r 10¥ 1¥	D	ALWL	٩	r 1PA LwL	QI:g	З	r - j
c91@gbP+Méxaut uePJI Ti	Kq	U, r +00+	D	ALWL	٩	r 1PA LWL	QU:U	5	Ģ
EP3 Fx: OgBpenated	Comf ounds (QCLot:) 421525G								
c 91 @bb2 MmIPh Cevave		r104Ug	Э	ALWL	∩×	r 1FA LwL	©:∩	66	
c91@dbP+TfvautuePick	ģ		С	ALWL	∩~	r 1PA LWL	ġ;	Q	D
c91@dbg+l evGm+++ euval	ut uePJI VTKq	r 10 r 1 r)	ALWL	Ĵ Ĵ		@:1	9	
c 91@bP+Wexaut uePI T	Kq	L - B	5	ALWL	Ų	r 1PA LWL	Ö.	F	þ
EP3 Fx : OgBpenated	Comf ounds (QCLot:) 42F3- 4G								

9aLe	b R yO
4 t d F5 dBeo	belrödgig
DINGUV	bDhYRH5PhhHcPOSCYPOdPhR
9d NGOV	b - r - r i OC



				Mothod Blank (MB)		I aboratory Control Snika (I	CS) Banort	
/IEH GADW: MOIL				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	SO1	том	High
EP3 Fx : OgBpenated Comf ounds(QCLot:)42F3- 4G 80c	ontinued							
c 91 @bb2 MmiPh Cevave	r 10A1Ung	∍	ALWL	٩	r 1PA LWL	j U:i	66	r - i
c91@db-ff/autuepicKq		D	ALWL	٦×	r 1PA LWL	j	g	ō
c91@bg+ evGn+++ euvaut ueBI VTKq	r 10fr 1 fr	D	ALWL	٦×	r 1PA LWL	1: i į	9	r-j
c91@bP+tNexaut uePI TKq	U, r +@0∔	D	ALWL	٩	r 1PA LWL	j	÷	ŗ
EP3 FC: Multonated Comf ounds (QCLot:) 4212F) G								
c 91 @btDacEt utBNeff lyBe	@H- (H-1	1:U	ALWL	<1:U	r PA LwL	©:©	gi	r-i
EP3 FC: Multonated Comf ounds (QCLot:) 421525G								
c 91 @ttDacEt utBNeff lyBe	004 UH	1:U	ALWL	<1:U	r PA LWL	Ö	gi	r-i
EP3 FC: Multonated Comf ounds (QCLot:) 42F3- 4G								
c 91 @bbbacEt uPBMet lyBe	OFF UFU	1:U	ALWL	<1:U	r PA LWL	r 1g	gi	r-i
EP3 FD: cumipants (QCLot:) 4212F) G								
c91@dbr:-+RN000ttdt.dt.aue	ld g+ 1+@	1:U	ALWL	<1:U	r PA LWL	۵ ش	÷	Ģ
c91@bb:-+RM00ttdt.dt.aue	CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-C	1:U	ALWL	<1:U	r PA LWL	Q:1	8	r r @
c 91 @bt0wart : C-RN0Gt d . d . meue	r 11i r +1r +U	1:U	ALWL	<1:U	r PA LWL	@:r	Ŀ	r-g
c 91 @dbbaus+r:C+RMCdt d. d. mheue	r 11i r +1- +	1:U	ALWL	<1:U	r PA LWL	6;0	÷	r - @
c91@br:-+RNectAtevCaueRcRTq	r1i+jC+g	1:U	ALWL	<1:U	r PA LWL	au:1	gi	r - @
EP3 FD: cumipants(QCLot:)421525G								
c91@gbP:-+RMMB1tdt.dt.dt.aue	ld g+ 1+@	1:U	ALWL	<1:U	r PA LwL	Q:r	÷	Ģ
c91@ghp:-+RM004tdt.dt.aue	00+00N	1:U	ALWL	<1:U	r PA LWL	۵: ا	@ . <u> </u>	r r @
c91.@bbbatr:C-RNOCt d. d. mieue	r 11i r +1r +U	1:U	ALWL	<1:U	r PA LwL	@ .j	ų	r-g
c91@dbbcaus+r:C+RMCdtct.ct.ct.meue	r 11i r +1- +	1:U	ALWL	<1:U	r PA LWL	@:r	÷	r - @
c91@0br:-+RNEctAtevCauePicRTq	r1 i+jC+g	1:U	ALWL	<1:U	r PA LWL	<u>ख</u> :-	gi	r - @
EP3 FD: cumipants(QCLot:) 42F3- 4G								
c91@db:-+RM004tdt.dt.aue	ld g+ 1+@	1:U	ALWL	<1:U	r PA LWL	Q :r	÷	Ģ
c91@bbr:-+RM00tdd.aue	00000 0000	1:U	ALWL	<1:U	r PA LwL	jr:@		r r @
c91.@bt/booktr:C+R1/00Gt d. d. mieue	r 11i r +1r +U	1:U	ALWL	<1:U	r PA LWL	j1∹	ų	r-g
c91@gbAncaus+r:C+RN0Gtct.ot.ot.meue	r 11i r +1- +	1:U	ALWL	<1:U	r PA LwL	j 1:i	¢	r - @
c91@0b4r:-+RNEctAtevCauePicRTq	r1i+jC+g	1:U	ALWL	<1:U	r PA LWL	r 11	gi	r - @
EP3 FE: + alopenated Alif 9ati0 Comf ounds (QCLot:) 42	212F) G							
c91@gbmordtdtByfftdAevGaue	0+00+00	D	ALWL	٩	r 1PA LWL	i CQ	00	r-C
c91@gbtDGt d A ev@ue	@ +0@C	D	ALWL	٩	r 1FA LwL	<u>ଷ</u> :ପ	Э	8
c 91 @gb2 MmiPCGt dBe	@H1r +g	D	ALWL	٩	r 1FA LwL	GU:g	ح ا	8
c91@gbHrd:AtAevCaue	GB ±CC+i	D	ALWL	٩	r 1FA LwL	i j :Q	8	J
c91@gbDGt d ev@ue	@H11+C	D	ALWL	٩	r 1FA LwL	600	i U	٢a
c91 @ bb doodt dyftd A ev Gaue	@uiij+g	D	ALWL	٩	r 1PA LwL	@ ;@	ir	8
c91@gbf:r+RMBdtdtev@eue	@HCHg	1:U	ALWL	<1:U	r PA LwL	@	g	r-Q
c91@gbtWtBtAevGaue	GG +CC+G	1:U	ALWL	<1:U	r PA LwL	i g:U	00 0	rri
c 91@bफaus+r :- +RMGt d evœue	r Ui ∔ 1+U	1:U	ALWL	<1:U	r PA LWL	<u>8</u>	i g	r - 1

9aLe 4 t d Β Φθο Dilkeuv 9 d ka Ογ	b-OAPME belrcrQG bDhYRH5RhHcBeVeeVABdRR b-r-riOCC								
Tf Ett avdM: MON					Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
					Report	Spike	Spike Recovery (%)	Recovery I	imits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	SD1	Том	High
EP3 FE: + alopenated	Alif 9ati0 Comf ounds(QCLot:)4	4212F) G 80ontinued							
c 91 @ the transfer of even	U	CHC CHC	1:U	ALWL	<1:U	r PA LWL	QI:g	<u>.</u>	ר - ר ר
c91@00444r:-+RMOCtdtete	Geue	r Ui +J +	1:U	ALWL	<1:U	r PA LWL	Q: Ú	:-	rrj
c91@0.thr:r:r+dMOHtdevG	aue	@ +UU+i	1:U	ALWL	<1:U	r PA LwL	Qr :g	i g	rrU
c91@0.b1P:r+RM0Gtd.d.d.n	heue	L CHUQ	1:U	ALWL	<1:U	r PA LWL	Q: G	6	r - 1
c91@dtfbadEtuPevcaOGt	otte	Ui + CiU	1:U	ALWL	<1:U	r PA LWL	ġ	Ŀ	r r @
c91@0th:-+RMOGtdtevGau	Ű	r 1@1i +-	1:U	ALWL	<1:U	r PA LwL	ġ	0	- L -
c91@gbPoMOGtotevceue		@u Hr∺	1:U	ALWL	<1:U	r PA LwL	Q:j	ğ	rri
c91@gbRNBctAtAevCaue		Ggitj UtC	1:U	ALWL	<1:U	r PA LwL	Q1:1	Ø	rrj
c91@gbP:r:-+ dV0GtdtevC	aue	@ +1+∪	1:U	ALWL	<1:U	r PA LwL	g :U	ij	rrj
c91@gbP:C+RMOCHtd.d.	ue	rg-+ Cj	1:U	ALWL	<1:U	r PA LwL	රගීග	ഀ	r - 1
c 91 @ the exact of event		r - @r Cłg	1:U	ALWL	<1:U	r PA LwL	g∷	0	Г - Г Г
c91@gbP:r:r:-+ evcaOGt (t ev@ue	i C1 + 1 +	1:U	ALWL	<1:U	r PA LwL	Q:U	ຖິງ	r-g
c91@dRoaus+r:g+RMOctd	+ 毛 veue	rr1+U®	1:U	ALWL	<1:U	r PA LwL	Q:i	-b	rri
c91@b1004r:g+R100Gtd+	년 veue	rg@+r+U	1:U	ALWL	<1:U	r PA LwL	ପ୍ତି :C	1	ŋ
c91@gbP:r:-:-+ evcaOGt (t ev@ue	@+69+N	1:U	ALWL	<1:U	r PA LWL	Q1:C	<u>د</u>	r-U
c91@0.btP:-:C+dM0Gtd.d	. aue	ji + Qeg	1:U	ALWL	<1:U	r PA LWL	j 1:j		δ
c 91 @ bB euva Odt of ev Gau	υ	@ +1 r +@	1:U	ALWL	<1:U	r PA LWL	i U:i	g1	jg
c91@04P:-+RNEctAt+-C+0C	lt d. d. aue	j i r - +Q	1:U	ALWL	<1:U	r PA LWL	6: ®	r 1	ĝ
EP3 FE: +alopenated	Alif 9ati0 Comf ounds (QCLot:) 4	421525G							
c91@gbPRNOEltotBMftotA	evGaue	0+@+@	D	ALWL	٦	r 1PA LwL	@:N	00	r-C
c91@dbDGtdtAevCaue		© +000C	D	ALWL	٦	r 1PA LwL	Q:i	З	8
c 91 @gb2 MmiPOGt dBe		QHI HG	D	ALWL	٦>	r 1PA LwL	Q :g	Ļ	8
c91@0bHctAtAevCaue		@ + 0C+i	р	ALWL	٦>	r 1PA LwL	ŝ	8	
c91@dbDGt of evCaue		@H1+C	Ъ	ALWL	∩>	r 1PA LwL	07:@	D.	g
c91@gbbdMGtdyftdAe	(Gaue	QUH j +g	р	ALWL	٦>	r 1PA LwL	ē	ŗ	8
c91@gbm:r+RM0Gtotev	υ	GHCHG	1:U	ALWL	<1:U	r PA LWL	@:r	g	α-'
c91@0bMYBtAevGaue		G0+00+00	1:U	ALWL	<1:U	r PA LWL	۵:j	00 00	rri
c 91@bRoaus+r:-+RMGt d	evœue	r Ui + 1+U	1:U	ALWL	<1:U	r PA LWL	D:@	j	r - 1
c91@gbP:r+RMOGtotevGau	υ	@HOg+C	1:U	ALWL	<1:U	r PA LwL	C C C C C C C C C C C C C C C C C C C	-i C	L - L
c91@db1044r:-+RN0Gtdtev	Geue	r Ú +	1:U	ALWL	<1:U	r PA LWL	Q:r	:	rrj
c91@gbP:r:r+ dMGt dtevC	aue	G0 +UU+	1:U	ALWL	<1:U	r PA LwL	@:0	i g	rrU
c91@gbP:r+RMOGtd.d.r.	heue	r CHOR	1:U	ALWL	<1:U	r PA LWL	Э С	8	r - 1
c91@dbDacEtuPevcaOGt	JBe	Ui + GiU	1:U	ALWL	<1:U	r PA LWL	@: [i	÷	r r @
c91@dbP:-+RMOGtdtevGau	υ	r 1@1i +	1:U	ALWL	<1:U	r PA LWL	8	0)	ן - ר ר
c91@gtpdMGtdtevGeue		@ +1r +i	1:U	ALWL	<1:U	r PA LWL	©: ©	a	rri
c91@bmMadAtAevGaue		(100 ± CC) 100 ± CC	1:U	ALWL	<1:U	r PA LWL	٩	0	rrj
c91@gbP:r:-+ dV0Gt dt evC	aue	@ 11+∪	1:U	ALWL	<1:U	r PA LWL	<u>م</u> :-	:	rrj
c91@gbP:C+RMOEtd.d.	ue	rg-+-gr	1:U	ALWL	<1:U	r PA LWL	 Ø	ᅄ	r - 1
c 91@bb evaOdt d evGeur		r - @ 09	1:U	ALWL	<1:U	r PA LwL	©; ©	0	- L



9aLe 4 t of 15 dBeo Dilleuv 9 d heCor	b-gftyfQ bclrc1G@ bDhYRH5FhhHcFB% вСYFB dFhR b-r-riG7C								
7fF# avdM: MOII					Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
5					Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	SD1	Том	High
EP3 FE: +alopenated	Alif 9ati0 Comf ounds(QCLot:)42	:1525G 80ontinued							
c91@@bP:r:r:-+ evcaOGtd	evQaue	i C1+1+	1:U	ALWL	<1:U	r PA LwL	@:r	ຖິງ	r-g
c 91@dRoaus+r:g+RMOt d	+ H teue	rr 1+U©	1:U	ALWL	<1:U	r PA LwL	@:1	-р	rri
c91@001014+1:9+RM001td+	HET veue	rg@+rr+U	1:U	ALWL	<1:U	r PA LwL	@:r	1	٢a
c91@gbP:r:-:-+evcaOGtd	evGaue	G+Cg+∩	1:U	ALWL	<1:U	r PA LwL	÷.	ir	r-U
c91@gbPP:-:C+dMB1tdt.dt.	aue	ji + Qeg	1:U	ALWL	<1:U	r PA LwL	QU:r	- 	Ω
c 91 @dbB euva OGt d evGaue		@ +1 +@	1:U	ALWL	<1:U	r PA LWL	i Uj	g1	jg
c91@0.04:-+RNEdAt+C+003	t d . d . aue	j i r - đ	1:U	ALWL	<1:U	r PA LwL	Q: :@	r 1	ĝ
EP3 FE: +alopenated	Alif 9ati0 Comf ounds(QCLot:)42	F3-4G							
c91@gbRM0GtdBMftdA€	syGaue	0+00+00	D	ALWL	٦	r 1PA LwL	Qg:j	00	r-C
c91@db1DGtdAevCaue		@ + 0@C	D	ALWL	٦	r 1PA LwL	j Qg	Э	8
c 91 @gb2 MmROGt dBe		QHI HG	D	ALWL	٦	r 1PA LwL	j r :j	Ļ	8
c91@gbHctAtAevCaue		© +CC+	D	ALWL	٦	r 1PA LwL	r 1i	g	
c91@dbDGtdtevCaue		@H1+C	D	ALWL	٩	r 1PA LwL	rrg	i U	٢Q
c91@gbPdMGtdyftdAev	Gaue	@Hij+g	D	ALWL	٩	r 1PA LwL	j - :C	ir	8
c91@gbP:r+RMOGtdtevCeut	D.	QHCHg	1:U	ALWL	<1:U	r PA LWL	j - :Q	g	r-Q
c91@dbWBtAevCaue		00-00-00 00-00-00	1:U	ALWL	<1:U	r PA LWL	a Ċ	9 0 0	rri
c91@gbRoaus+r:-+RM0Gtote	evœue	r Ui +i 1+U	1:U	ALWL	<1:U	r PA LWL	ġ	i g	r - 1
c91@gbP:r+RM0GtdtevGaue	0	GHCg+C ©HCg+C	1:U	ALWL	<1:U	r PA LWL	ŋ: þ	<u>0</u>	r - r
c91@b1044r:-+RM04tdev(Bue	r Ui +Ú +	1:U	ALWL	<1:U	r PA LWL	b: - [rrj
c91@gbPr:r:r+d00GtotevG	aue	ag +Uu∔	1:U	ALWL	<1:U	r PA LWL	ĝ	i g	rrU
c91@gbPr:r+RM303tot.ot.mt	ieue	LI CHOR	1:U	ALWL	<1:U	r PA LWL	j r :1	0	r - 1
c91@gb1DadEtuPevoa0Gtc	178e	Ŭ + CiU	1:U	ALWL	<1:U	r PA LWL	Q	Ļ	rr@
c91@gbP:-+RMOGtotevGaue	D.	r1@1i +	1:U	ALWL	<1:U	r PA LWL	jα	00	r - r
c91@gbPdMGtotewGene		@ +1r +	1:U	ALWL	<1:U	r PA LWL	jr:@	ä	rri
c91@004RMactAtAevCaue		ari u-c	1:U	ALWL	<1:U	r PA LWL	<u>j</u>	Ø	rrj
c91@0.bhr:r:-+ d10061totevG	aue	@ ⊬1+∪	1:U	ALWL	<1:U	r PA LWL	1 1 1 1 1 1		rrj
c91@0.bhh:CHRMOGtot.ot.au	ue	rg-+ 0	1:U	ALWL	<1:U	r PA LWL	r 1r	8	r - 1
c 91@db evcaOGt of evCeue		r - @r ଠିଶ	1:U	ALWL	<1:U	r PA LWL	j C1	©) 	r - r
c91@gbP:r:r:-+ evcaOGt d	t evCaue	i C1+ 1+	1:U	ALWL	<1:U	r PA LWL	j 1:Q	മ്പ	r-g
c 91@bRaus+r:g+RMGt d -	+ 년 veue	rr 1+U©	1:U	ALWL	<1:U	r PA LWL	a ij	-b	rri
c91@0b004+r:g-RM0Gtdt+	년 veue	rg@+rr+U	1:U	ALWL	<1:U	r PA LWL	Qg:r	:	ā
c91@0bP:r:-:-+evcaOGtd	t evCaue	G+63+U	1:U	ALWL	<1:U	r PA LWL	r 1-	ir	r-U
c91@0.bP:-:C+dM001td.d.	aue	ji+ Qtg	1:U	ALWL	<1:U	r PA LWL	r 1r	<u>-</u>	δ
c 91@bBeuvaOGt of evGaue	0	@ +1r +@	1:U	ALWL	<1:U	r PA LWL	ī	g1	jg
c91@3bPr:-+RNEctAt+-C+003t	td.d.aue	ji r - +0	1:U	ALWL	<1:U	r PA LWL	j 1:-	r1	ą
EP3 Fc: + alopenated /	Aromati0 Comf ounds(QCLot:)42	:12F) G							
c91@bbGtdtEeuzeue		r 1 Qi 1 🔞	1:U	ALWL	<1:U	r PA LWL	ö.	₿	rri
c91@bHdAtEeuzeue		r10+01 +	1:U	ALWL	<1:U	r PA LWL	₫:1	<u>г</u>	rr@
c91@db+DGtdvtfeue		j U l gj +Q	1:U	ALWL	<1:U	r PA LwL	QI:i	ö	۲۲-

9aLe	b - Utt yrd
4 t of P5 dBeo	bel rồng đã
DINGUN	b DhYRH5 PhhHc PB @ cYPB dPh R
9d NGOV	b-r-ri GE



				Mothod Blank (MB)		I ahoratory Control Snike /I C	S) Renort	
IET GADW. MOIL				Report	Spike	Spike Recovery (%)	Recovery	imits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	SDT	Гом	High
EP3 Fc: +alopenated Aromati0 Comf ounds(QCLot:) 4	212F) G80ontinued							
c 91@bg+DGt d vt lf eue	r1i+gC+g	1:U	ALWL	<1:U	r PA LWL	1	:=	- 1 1
c91@0047:-:C+dMOBtdtEeuzeue	± 000	1:U	ALWL	<1:U	r PA LWL	jca	<u>.</u>	r r @
EP3 Fc: + alopenated Aromati0 Comf ounds (QCLot:) 4	21525G							
c91@btDGt d Eeuzeue	r 1 Qi 1 🔞	1:U	ALWL	<1:U	r PA LwL	8	Ø	rri
c91@Ht d At Eeuzeue	r 10+01 +	1:U	ALWL	<1:U	r PA LWL	ĐịĐ	i.	r r @
c91@bP+DGt d vt If eue	j Utgj tQ	1:U	ALWL	<1:U	r PA LWL	Ö	ä	- 1 1
c91@bbg+DGt d vt lf eue	r 1i +gC+g	1:U	ALWL	<1:U	r PA LWL	∩:@	:=	- L -
c91@gbtr:C+d00EtdtEeuzeue	000 r.+	1:U	ALWL	<1:U	r PA LwL	an:c	ir	r r @
EP3 Fc: + alopenated Aromati0 Comf ounds(QCLot:)4	2F3- 4G							
c91@btbGt d Eeuzeue	519110	1:U	ALWL	<1:U	r PA LWL	à: i į	8	rri
c91@0HTdAtEeuzeue	r 10+01 +	1:U	ALWL	<1:U	r PA LWL	j <u>g</u> :j	ŗ	r r @
c91@bP+DGt dt vt lf eue	j U l gj L Q	1:U	ALWL	<1:U	r PA LWL	j	ä	- 1 1
c91@bbg+DGt d vt lf eue	r1i+gC+g	1:U	ALWL	<1:U	r PA LWL	p: - į	: <u>-</u>	- L -
c91@0.bPr:-:C+d00GtdtEeuzeue	COO r+i	1:U	ALWL	<1:U	r PA LWL	r 1j	ir	r r @
EP3 Fb : Tri9alomet9anes(QCLot:) 4212F) G								
c91@utDGt d yt cA	⊡ 1 +C	1:U	ALWL	<1:U	r PA LwL	÷	ä	rrQ
c91@0bHdAtBM0GtdAevGaue	9+ 90 9-	1:U	ALWL	<1:U	r PA LwL	∩:@	g1	rri
c91@gbmRbactAtCdtdtAecGaue	r - g i gQ i r	1:U	ALWL	<1:U	r PA LwL	@ :0	00 -	rrj
c91@0bHtdAtytoA	@+ (+	1:U	ALWL	<1:U	r PA LwL	ij :g	g1	r - 1
EP3 Fb : Tri9alomet9anes(QCLot:) 421525G								
c91@ytbr0ttdtytoA	⊡ @i	1:U	ALWL	<1:U	r PA LwL	 0	ä	rra
c91@gbHrd At BM03td AevCaue	@+ @	1:U	ALWL	<1:U	r PA LwL	l; ;1	g1	rri
c91@gbRnBactAtOGtdtAevOaue	r - g+gQ+r	1:U	ALWL	<1:U	r PA LwL	<u>ھ</u> :-	0	rrj
c91@0)HTctAtytoA	@+ (\+	1:U	ALWL	<1:U	r PA LwL	i - :Q	g1	r - 1
EP3 Fb : Tri9alomet9anes(QCLot:) 42F3- 4G								
c91@btDGt d y oA	⊡ @	1:U	ALWL	<1:U	r PA LwL	jr:i	ia	rra
c91@gbHrdAtBMOGtdAevGaue	00+ 000 00+	1:U	ALWL	<1:U	r PA LwL	au:1	g1	rri
c91@gbmRnactAtCdtdtAeceaue	r - g i gQ i r	1:U	ALWL	<1:U	r PA LwL	ପ୍ତ	00 -	rrj
c91@0bHtdAtytoA	@+ (+	1:U	ALWL	<1:U	r PA LwL	ď∵	g1	r - 1
EP3 5A: P9enoli0 Comf ounds (QCLot:) 4215) 2G								
c 91 @bB @ut 1	さずこ	1:U	ALWL	<1:U	- :UPA LWL	j ac	σ	r-U
c 91 இசு +DGt d . சூut I	j UHU@Q	1:U	ALWL	<1:U	- :UPA LWL	aui	g	r-g
c91@00P+HevGmt.Ceutl	j UłgQł@	1:U	ALWL	<1:U	- :UPA LWL	i g:j	8	r - j
¢୨1@bbଫ+ଅଟେଡ଼ି+ ୧୪୦୦m ୦୦୦୦ t	r Crj+OOOC	1:U	ALWL	<1:U	- :UPA LWL	j@	8	Ģ
c91@ubP+HMMt. Ceutl	CCHORHU CCHORHU	1:U	ALWL	<1:U	- :UPA LWL	ir:U	σ	r - 1
c 91@bP:g+RM evGht. œut l	r 1 Ui (Q)	1:U	ALWL	<1:U	- :UPA LWL	r 11	r 1	r-j
c 91 @UP : g+RMBt d . Geut I	r-1+00+	1:U	ALWL	<1:U	- :UPA LWL	6:6 j	g	r-g
c91@bb:i+RMCBtdt.Geutl	SQ F	1:U	ALWL	<1:U	- :UPA LWL	<u>i</u>	g1	δ

TFF and IOL Annote Connect Server Annon			ALS
Instrume Montr Spin	Method Blank (MB) Lat	boratory Control Spike (LCS) Report	
Interpret formation Contraction Contraction </th <th>Report Spike</th> <th>Spike Recovery (%) Reco</th> <th>ery Limits (%)</th>	Report Spike	Spike Recovery (%) Reco	ery Limits (%)
Effection Control Number Control Number Control Control <t< th=""><th>Result Concentration</th><th>LCS Low</th><th>High</th></t<>	Result Concentration	LCS Low	High
Control Contro Control Control <th< td=""><td></td><td></td><td></td></th<>			
Coll (Coll (C	<1:U - :UPA LWL	r U	rq
c) (0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(<1:U - :UPA LWL	r - @	r-Q
Coll (Bine world) of chuld Coll (Chuld) (Chuld	<1:U - :UPA LWL	r - i gg	r-Q
ER 1 Paroniol Contr Outrol 1 Multicle	- :UPA LWL	@:@	r-i
Bit Registration Trop is			
Biglite 4 condition Diversity TUM CHU CHU <td><1:UPA LWL</td> <td>G C C</td> <td>r-U</td>	<1:UPA LWL	G C C	r-U
C (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	<1:U - :UPA LWL	@:1 ∞	r-g
c) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	<1:U - :UPA LWL	j-:r c	r - j
Op/Op/End/dist Condition Condition <thcondition< th=""></thcondition<>	<1:U	j 1:U OO	Ģ
OffOrm OffOrm TUN T	<1:U - :UPA LWL	i g:g	r - 1
Of GBP Forthalt C + 10. C - 10. C + 10. C - 10. C + 10. C - 10. <thc -="" 10.<="" th=""> <thc -="" 10.<="" th=""> <thc -="" 10.<="" th=""></thc></thc></thc>	<1:U - :UPA LWL	ir:@ r1	r-j
c) (3)(B): (ADA) c) (ADA) (ADA) <td><1:U</td> <td>i Ur</td> <td>r-g</td>	<1:U	i Ur	r-g
c) () () () () () () () () () () () () ()	<1:U	i j :U g1	อ
OFGMP g1+ 001 d. Gut(1) COII+ 1U ALML <1U -UM-LM i.G 0FGMP-value Gut(1) Cut(1) Q(1) T.U ALML <1U	<1:U	@; 0	δ
0.010Breadual 0.144 1.14 1.14 1.14 0.0000 0.010Breadual 0.0010 0.001	<1:U		Q-7
Coll Coll <t< td=""><td><1:U</td><td>@:@</td><td>o S</td></t<>	<1:U	@:@	o S
EP3I St.: PolBundlear Aromatito + Elrodaryons (QCLOR:) 4216) CG $17 + 16$ 110 $110 + 16$ 110	-:UPALWL	Lag	
c) Display C-ICAL T-I-I T-I T-I C-ICAL			
Col (BP H echina Collene 1:1 (U) ALWL <1:U LIALWL 0; 0:100P-001 dua Collene 1:1 (U) ALWL <1:U	<1:U - :UPALWL	-0 -0	
C91@BP=POId us. Galeue I: H.JO@ 1: U A LwL -: UA LwL r.ri C91@BP=POId us. Galeue C10H 1: U A LwL -: UA LwL r.rd C91@BP=POId us. Galeue C10H 1: U A LwL -: UA LwL r.rd C91@BP=Dust Galeue C10H 1: U A LwL -: UA LwL r.rd C91@BP=Dust Galeue 0: OP 1: U A LwL -: UL -: UA LwL r.rd C91@BP=Dust Galeue 0: OP 1: U A LwL -: UL -: UA LwL r.rd C91@BP=Dust Galeue 0: OP 1: U A LwL -: UL -: UA LwL r.rd C91@BP=Dust Galeue 0: OP 1: U A LwL -: UL -: UA LwL r.rd C91@BP=Filt curreDoal 0: UP 1: U A LwL -: UL r.rd r.rd C91@BP=Filt curreDoal 1: U 1: U A LwL r.rd r.rd r.rd C91@BP=Filt curreDoal 1: U 1: U A LwL r.rd r.rd r.rd	<1:U	gC gC	r - @
c91@hR-uex CArbate -103 + 10 110 -110 -110 + 110 -110 + 110 c91@hR-tauce c30c+3 110 ALwL <110	<1:U	rri -j :U	rri
c91@bffcue.dGue CG-1 1:0 ALML <1:0 -:UMLML [1:0] c91@bffcue.e C4ee 1:0 ALML <1:0	<1:U	QLL	
C91@DFFT coue C.DALWL C.D.D.WL	<1:U	() () () () () () () () () () () () () (· . - ·
c91@BPG.cueucGaue UMFT-LU 1:U A LWL <:U -:U/A LWL T/19 c91@BPF.ueucGaue r-1+-@ 1:U A LWL <:1U			
Order Order <t< td=""><td></td><td></td><td>8</td></t<>			8
Optimization Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	 		» '_
Condent Condent UD-ji +C 1:U A LwL <:UALwL :UALwL r10 C100AFTer/ToruntAction U + UU-C 1:U A LwL <:U	<1:U - :UPA LWL	rr	. g
C91@bHeuz)aquexactue U1 +UUC 1:U ALML <:UALML :UALML r1- C91@bHeuz)aquexactue -rOMrj 1:U ALML <:U	<1:U	r 1g gi	οŗ
C91@bFDGmeeue - 「OM FIF j 1: U ALML <1: UAL ML T (A C91@bFfactz1)GRAFeuzt)/off cauceue - 1 UH j + P r ALML <1: U	<1:U	r 1- gj	r - @
C91@bFeuzt) GpRFeuzt) opfit cauceue - 10mi J + P r ALML r URALML URALML r 11 - 10mi Opi <	<1:U	r10 G	ย
-1億104 -1億104 -1億104 -1億104 -1億104 -1億104 -101 <td><r></r> </td> <td>r 1i gQ</td> <td>ŋ</td>	<r></r>	r 1i gQ	ŋ
C91@b70-FMM evamEeuz)aquivaaceue Ud @ @ 1:U ALwL <1:U -:UALwL r 1 i c91@b7euzt)aq meue U11-5-10 1:U ALwL <1:U			
Co1@bFeuzt)aq meue U1-C-40 1:U ALwL <1:U -UALwL r1C C01@bFeuzt)ar meue U1-9j+U 1:U ALwL <1:U	<1:U - :UPALWL	r 1j ir	ŗ
c91@bP# ex3it03 laux0aue Uf •gj +U 1:U ALwL <1:U -UBALwL j U3 c91@bP%(Beut)r :: C0Bg meue rj G4 +U 1:U ALwL <1:U	<1:U - :UPALWL	r 1C gQ	
c91@uBvtBeut)r :: COBq meue r] G+q +U 1:U A LwL <1:U -: UPA LwL j gi c91@uPvtBeut)r :: COBq meue r] U 1:U A LwL -: UPA LwL j gi c91@uPvtBeut)r :: COBq meue UC+@1-C 1:U A LwL -: UPA LwL j gi	<1:U	j u.a	9 0 0
leg1@н#RMenu2arGanirGaanGaanGaanGaanGaanGaanGaanGaanGaanGaa	<1:U	j g:i gU	9 9
	<1:U	j Ci gU	5
c91@04Feuzt)L:GM eonteue rj r+g+ 1:U ALwL <1:U -:0.07.004 eonteue	<1:U - :UPA LWL	j - :@	ą

9aLe 4 t d 15 dBeo Dinauv 9 d NaOv	b-@сую0 bclrccqg bDhYRH5RhhHс199 wocy199 dRhR b-r-ri0702								VIS
7fE++ avoM: MOIL					Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
					Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	7CS	Том	High
EP3 5x : PolBnu0lear A	romati0 + Bdro0aryons(QCLot:)	4215) 2G80ontinue	q						
c91@ub7fARy®hWs		ŧ	1:U	ALWL	<1:U	ŧ	ŧ	ŧ	ŧ
EP3 5x : PolBnu0lear A	romati0 + Bdro0ary ons (QCLot:)	42F3-7G							
c91@utHa. Goaleue		jr + 1+C	1:U	ALWL	<1:U	- :UPALWL	@:r	-р	J
c91@00P+I evGmtua. G/Calet	Ð	jr +U@	1:U	ALWL	<1:U	- :UPA LWL	@:1	g	r - @
c91@thP+DGt d ua. Goalet	Ð	jr +∪0+@	1:U	ALWL	<1:U	- :UPALWL	i - :0	U: [-	rri
c91@bh@ua. Gomene		- 10ji đ	1:U	ALWL	<1:U	- :UPA LWL	@ :7	gi	r - 1
c91@bh@ua. Gœue		00+0-+; 00+1-	1:U	ALWL	<1:U	- :UPA LWL	6:00	5	
c91@b1Fiftœue		0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1:U	ALWL	<1:U	- :UPA LWL	0 B	9	r - j
c91@bBGeuaukGeue		altir ta	1:U	ALWL	<1:U	- :UPA LWL	j g:C	9	r - @
c91@bhucaceue		r - 1# - +@	1:U	ALWL	<1:U	- :UPA LWL	j g:U	5	r-Q
c91@bFIftœuvœue		- 1i +gg+1	1:U	ALWL	<1:U	- :UPA LWL	j	ລ	r - j
c91 ഡ്രിന് ലസംലം		r-j +11+1	1:U	ALWL	<1:U	- :UPALWL	r 1C	Þ	r g
c91@U0H++Flftœum1PhOev	aA NBe	uciji i t	1:U	ALWL	<1:U	- :UPALWL	j U:-	gi	٢a
c91@bHeuz)acpuvGcaOeue		UI HUHC	1:U	ALWL	<1:U	- :UPALWL	j g:j	gi	r - @
c91@btDGmseue		- r QHr i j	1:U	ALWL	<1:U	- :UPALWL	jj :r	ъ	Ğ
c91@bHeuzt)Ed&Heuzt)	/ off t auvæue	- 1 Uži j + P - 1@10ži	L	ALWL	<۲	UPALWL	j	Qğ	ŗ
c91@bb@r-HRM evGmhEeuz)	agau@a@eue	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1:U	ALWL	<1:U	- :UPALWL	Q :C	i	r Lg
c91@000Hreuzt)aqmoneue		ф Ф Э	1:U	ALWL	<1:U	- :UPA LWL	ą	g	r - i
c91@btten eventor lauge	ue	Ui +gj +U	1:U	ALWL	<1:U	- :UPA LWL	:1	Þ	r 00
c91@bMBeut)r:-:C:CBq m	eue	rj C+G +U	1:U	ALWL	<1:U	- :UPA LWL	Gg:g	gU	٢a
c91@bRMEeuz)a:GpuvGoaC	eue	nc-@-c	1:U	ALWL	<1:U	- :UPALWL	g∵	В	8
c91@bHeuzt)L:GMgeomleu	ē	rjr+g+	1:U	ALWL	<1:U	- :UPALWL	000	-Ъ	ą
c91@0047fARyP9hWs		ŧ	1:U	ALWL	<1:U	ŧ	ŧ	ŧ	ŧ
EP3 5C: P9t9alate Este	irs (QCLot:) 4215) 2G								
c91@UPRIM evGmP. GcBlave		r Qr #r tC	1:U	ALWL	<1:U	- :UPA LWL	rœ	ъ	ſĝ
c 91 @URRINGMP. GCalave		Qg∔ii+	1:U	ALWL	<1:U	- :UPA LWL	ji :	a	ra
c 91 @URRNU HEF WHP. GOBIAVE		+ ® +	1:U	ALWL	<1:U	- :UPALWL	rrC	9	r @
c 91 @UFT f white wind Grait	ave	QUH QHO	1:U	ALWL	<1:U	- :UPALWL	r 1i	g	g
c91@UEEM)-+evGmGexmpP.(AGalave	rr@01+00	1:U	ALWL	<u1< td=""><td>- :UPALWL</td><td>rri</td><td>n</td><td>٢W</td></u1<>	- :UPALWL	rri	n	٢W
c91@ubRNu# Omi Goalave		rr@Qg+1	1:U	ALWL	<1:U	- :UPA LWL	r 1C	Ċ	ą
EP3 5C: P9t9alate Este	rs (QCLot:) 42F3-7G								
c91@bRIM evGmP Goalave		r Qr # r +C	1:U	ALWL	<1:U	- :UPALWL	Q. C.	ъ	g
c91 @URRINGMP. OGalave		Qg∔ii+	1:U	ALWL	<1:U	- :UPA LWL	QU:g	g	ā
c91@bRMu+Ef whP. Goalave		+ ® +	1:U	ALWL	<1:U	- :UPALWL	rc	9	r Ø
c 91 @UAT f whitteuzmh? Grail	ave	QUH QA	1:U	ALWL	<1:U	- :UPA LWL	r 11	g	g
c 91@UEBS)- +evGmGexmpP.(30alave	rr @01 +00	1:U	ALWL	<u1< td=""><td>- :UPA LWL</td><td>гг</td><td>Þ</td><td>'n</td></u1<>	- :UPA LWL	гг	Þ	'n
c91@ubRNuttomh Gomh Goelave		rr@00,+1	1:U	ALWL	<1:U	- :UPA LWL	U: [[ס	ą

9ale 4 tư Bộ đeo Dimeuv 9 đ hế Cy	b-CAPYAD belrc10,000 bDhYRH5FhhHcR®VBcYB9 dFhR b-r-riCAC								
7f F# avM·MDII					Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
					Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	7CS	Том	High
EP3 5D: Nitrosamines	(QCLot:) 4215) 2G								
c91@ubH+HMutstAevGmlev	GntaA Me	r 1 U, Uj, Uj,	1:U	ALWL	<1:U	- :UPA LWL	@ 	Q. ig	Γg
c 91 @UPH +HNMt st BM/Gmba/	1 Me	ULF QU	1:U	ALWL	<1:U	- : UPA LWL	r 1U	g1	r-g
c 91 @UbH+HMMt st. mout INBN	de	j C1+UL	1:U	ALWL	<r:1< td=""><td>- :UPA LwL</td><td>Q.r</td><td>в</td><td>r-C</td></r:1<>	- :UPA LwL	Q.r	в	r-C
c91@ubH+HMutstAtaGli	We	ч Ф Э	1:U	ALWL	<1:U	- : UPA LWL	@;j	8	r-U
c 91 @UPH+HNMI st BMU+. d .	mta Me	i - r + g+@	1:U	ALWL	<1:U	- : UPA LWL	i g:U	gr	ц - Г
c91@UBH+HMMtst.MedBM	U	r 11+@hg	1:U	ALWL	<1:U	- :UPA LWL	Ö:	8	ц - Г
c 91@UPH+HNMC st BNME where	A Me	j - g+ri +C	1:U	ALWL	<1:U	- :UPA LwL	ji :r	g1	r-i
c 91@UPH+HMMt st BM Ceuni	R :RMœumaAMe	Q C + H	1:U	ALWL	<r :1<="" td=""><td>- :URA LWL</td><td>j - :r</td><td>66</td><td>වි</td></r>	- :URA LWL	j - :r	66	වි
c91 @ Juff ev Ga. molleue		ي کې کې کې ک	1:U	ALWL	<1:U			.iD	rgC
EP3I 5D: Nitrosamines	(OCLot:) 42F3-7G				-				
c91@UPH+HMutstAevGmbev	GriaA Me	r 1 U Uj Uj	1:U	ALWL	<1:U	- :UPA LWL	i Uj	Q :g	Ъ
c 91 @UPH +HNMt st BMANGmar	1 Me	ULF QU	1:U	ALWL	<1:U	- :UPA LWL	i g:-	g1	r - g
c 91 @UBH+HNMAT st. mout INBN	de	j C1+UL+	1:U	ALWL	<r:1< td=""><td>- :UPA LWL</td><td></td><td>в</td><td>r-c</td></r:1<>	- :UPA LWL		в	r-c
c91@UUH+HNMtstAtaGli	We	ج ج	1:U	ALWL	<1:U	- :UPA LWL	, în	8	r - U
c91@UUPH+HMMtstBMU+.d.	mta Me	i - r + g+@	1:U	ALWL	<1:U	- :UPA LWL	<u>छ</u>	gr	ц - Г
c91@UbH+HMutst.MedBM	٥	r 11+@+g	1:U	ALWL	<1:U	- :UPA LWL	i g:C	8	L - L
c 91 @UBH +HMt st BNEf what	1 Me	j-g+i+C	1:U	ALWL	<1:U	- :UPA LwL	×[]	g1	r-i
c91@UPH+HMAt st BMCeund	R :RMœumaAMe	Q C1≟ 円	U:1	ALWL	<r:1< td=""><td>- :UPA LWL</td><td>Q. :Ú</td><td>66</td><td>g</td></r:1<>	- :UPA LWL	Q. :Ú	66	g
c91@uPrevGa.momene		₽ ₽ ₽ ₽ 	1:U	ALWL	<1:U	- :UPA LWL	r 1g	iđi	r gC
EP3 5E: Nitroaromatio)s and Ketones (QCLot:) 4215) 2G								
c91@UP+9M01Me		r 1j +1i +Q	1:U	ALWL	<1:U	- :UPA LWL	r-j	r 1	ģ
c91@bh/0evt. Ceutue		j Q4Qi +	1:U	ALWL	<1:U	- :UPA LwL	i g:Q	8	r-g
c 91@bHMt Eeuzeue		j Qi UC	1:U	ALWL	<1:U	- :UPA LwL	i Cj	g-	L
c91@bb%t.Gtotue		0004Uj +r	1:U	ALWL	<1:U	- :UPA LWL	0: 0:	σ	r - U
c91@UP:i+RMMMt vt If eue		i 1i + 1+	1:U	ALWL	<r:1< td=""><td>- :UPA LWL</td><td>8</td><td>9</td><td>8</td></r:1<>	- :UPA LWL	8	9	8
c 91@uP:g+RMMut vt lf eue		r - r +r g+-	1:U	ALWL	<r:1< td=""><td>- :UPA LWL</td><td>j g:C</td><td>ŗ</td><td>Ŀ</td></r:1<>	- :UPA LWL	j g:C	ŗ	Ŀ
c91@UPHHa. GGmaAMe		r Qa ¢ 🕲	1:U	ALWL	<1:U	- : UPA LWL	:: [!	٦ ۵	r-C
c91@ubg+HMt kf Mt IMe+H	tt ×103e	u +l@∪	1:U	ALWL	<1:U	- :UPA LWL	rr1	r @@	л С
c91@ub0+HMtt#t∿tIfNBMe		jj +UHQ	1:U	ALWL	<1:U	- :UPA LWL	g :i	g	rrj
c 91@bhhzt Eeuzeue		r 10 1 00 1 0	-	ALWL	<٢	- :UPA LWL	j g:-	Э	8
c91@bP:CU+ dMMt Eeuz	eue	j. +CUtg	1:U	ALWL	<1:U	- :UPA LWL	Ø:i	8	rr@
c91@bBGeuaOevM		i - - 99+-	1:U	ALWL	<1:U	- :UPA LWL	p: i į	Ø	δŗ
c 91@bg+hAMt EMœum		j - + @	1:U	ALWL	<1:U	- :UPA LWL	U: [i	Ľ	jg
c91@bBeuvaOGt of uMot E	euzeue	Q Q Q Q Q	1:U	ALWL	<1:U	- : UPA LWL	j g:j	Ċ	ā
c91@00490tuaANBe		- G U1+LQ+U	1:U	ALWL	<1:U	- : UPA LWL	r 1@	÷	r-g
c91@URRM evGmaA Mt azt	Eeuzeue	i1+rr+@	1:U	ALWL	<1:U	- :UPA LWL	r 1g	000	ŗ
c91@bbDGtdtEeuzNave		C 1 + U∔	1:U	ALWL	<1:U	- :UPA LWL	r 1C	gU	8

9ale 4 to/F5cBeo DiNeuv 9ctNeCV	b-jrtyca bolrccqg@ bDhYRH5RhhHc18% всҮгвай R b-r-ricae								ALS
1600 P41					Method Blank (MB)		aboratory Control Snike / C	S) Renort	
					Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	7CS	Low	High
EP3 5E: Nitroaromatio	0s and Ketones(QCLot:)42F3- 7G								
c91@UA-+91001IMe		r 1j +1i +Q	1:U	ALWL	<1:U	- :UPA LWL	i Qr	r 1	ġ
c91@bm/Cevt. Geut ue		j Qłđ +	1:U	ALWL	<1:U	- :UPA LWL	ii :1	8	r-g
c91@bHNMt Eeuzeue		j Qi CC	1:U	ALWL	<1:U	- :UPA LWL	i U:g	ъ	
c91@db%t.Gtdue		000+U +	1:U	ALWL	<1:U	- :UPA LWL	i U:i	σ	r-U
c91@ubP:i+RMMututle		i 1i + 1+	1:U	ALWL	<r:1< td=""><td>- :UPA LWL</td><td> J</td><td>9</td><td>8</td></r:1<>	- :UPA LWL	 J	9	8
c 91 @ubP:g+RMMut ut If eue		r - r + g +	1:U	ALWL	<r:1< td=""><td>- :UPA LWL</td><td>ġ</td><td>Ţ</td><td>ß</td></r:1<>	- :UPA LWL	ġ	Ţ	ß
c91@bh#Ha. GGhaAMe		r Og to 🔞	1:U	ALWL	<1:U	- :UPA LWL	<u> </u>	۲ ۵	r - C
c91@bbg+HMtt kf Mt IMe+	14 x1Be	Ui +UQU	1:U	ALWL	<1:U	- :UPA LWL	j	r @@	л С
c91@UBUHHMLE # +vt lf NBMe		j j +UHQ	1:U	ALWL	<1:U	- :UPA LWL	,a	gC	rrj
c91@bhzt Eeuzeue		r 10+00+0	L	ALWL	<۲	- :UPA LWL	Q::@	Э	r 8
c91@bP:CU+ dMMt Eeuz	ene	j j +OHg	1:U	ALWL	<1:U	- :UPA LWL	@:i	8	r r @
c91@bBGuaOeM		i - - gg+	1:U	ALWL	<1:U	- :UPALWL	ġ	Ø	ŗġ
c91@bbg+hAMtEMœum		j - + @	1:U	ALWL	<1:U	- :UPA LWL	i 1:@	r 1	j g
c91@bBeuvaOGt of uMt E	euzeue	Q + QQ	1:U	ALWL	<1:U	- :UPALWL	QU:U	J	ra
c91@b49ctuaAMBe		- G UI+NCH	1:U	ALWL	<1:U	- :UPA LWL	j j: g	Ļ	r - g
c91@bmRMaevGmaAMtazi	t Eeuzeue	i1+rr+©0	1:U	ALWL	<1:U	- :UPA LWL	j Uj	00 00	g
c91@bbDGtdtEeuzNave			1:U	ALWL	<1:U	- :UPA LWL	j @Q	Ŋß	8 8
EP3 5c: +aloet9ers(QCLot:) 4215) 2G								
c91@UHT1%)-+OGt of evGmic	Prœo	ггг 9 9+9	1:U	ALWL	<1:U	- :UPALWL	Qg:1	g	r-i
c91@04F1%)-+0Gt d evG x	mpA ev@aue	rrr + r +	1:U	ALWL	<1:U	- :UPA LWL	i UC	00	L - L
c91@bbg+DGt d. GeumP (GeumilevGeo	ଷ 1 ଧ-ତ୍ତ - ମ	1:U	ALWL	<1:U	- :UPA LWL	j g:r	÷	ç
c91@ubg+TotAt. GeumP(GeunthevGeo	r 1r +UHC	1:U	ALWL	<1:U	- :UPA LWL	ji:1	ס	g
EP3 5c: +aloet9ers(QCLot:) 42F3- 7G								
c91@UHT1%)-+OGt of evGmic	Prœo	ггг 9 9-19	1:U	ALWL	<1:U	- :UPALWL	i g:r	g	r-i
c91@00411%)-+004tdtevGtx	mtPA evGaue	rrr + r +	1:U	ALWL	<1:U	- :UPA LWL	i U:r	00	L - L
c91@bg+DGt d. GeumP(GeunthevGeo	ଷ 1 ଧିକ -	1:U	ALWL	<1:U	- :UPA LWL	6	Ļ	ç
c91@bbg+TctAt. GeumPt	GeunthevGeo	r 1r +UHC	1:U	ALWL	<1:U	- :UPALWL	Q :r	J	g
EP3 5b : C9lorinated -	+ Bdro0aryons(QCLot:) 4215) 2G								
c91@UAP: CHRNOGIt of Eeuze	eue	Ugr +@+	1:U	ALWL	<1:U	- :UPA LWL	- L -	00	rr@
c91@UPB:g+RNMOHt dt Eeuze	eue	r 1i +gi +@	1:U	ALWL	<1:U	- :UPA LWL	r 1g	ð	L – L
c91@UPP:-+RNMORtot Eeuze	eue	j UHU1+r	1:U	ALWL	<1:U	- :UPA LWL	j Qj	00	L – L
c 91@bMexaOGt d evGaue	Ō	i @@ +	1:U	ALWL	<1:U	- :UPA LWL	jii	σ	rra
c91@bP:-:g+ dVDH of Eeu	nzeue	r-1†Q.#	1:U	ALWL	<1:U	- :UPALWL	U:Q	පී	rrg
c91@bPNexaOGtd.d.d.m	ene	r aaata ta	1:U	ALWL	<1:U	- :UPALWL	ġ	- Ci	r 000
c 91 @bbtexaOGt of Ef vaBl	Baue	0 <u>0</u> 00	1:U	ALWL	<1:U	- :UPA LWL	.: .:	g	δ
c 91 @bbtexaOGt of OnOt .	euvaBMaue	66 66 60	1:U	ALWL	U: ->	- :UPA LWL	Ω ∷:	5 Ø	r gr
c 91 @bB euva Odt of Eeuze	eue	:103;0€	1:U	ALWL	<1:U	- :UPA LWL	jĈr	ъ	8
c 91 @bhtexaOdt of Eeuze	ueßWDTq	rr QHQCH	1:U	ALWL	<r:1< td=""><td>UPALWL</td><td>j U:r</td><td>ຖິງ</td><td>වී</td></r:1<>	UPALWL	j U:r	ຖິງ	වී

9aLe 4 to/15:03eo Dilmeuv 9ot NeOv	bCHAyACI bclrCHGGC bDhYRH5PhhHcPB%oCYPBdPhR b-r-riCPC								ALS
					Method Blank (MR)		Laboratory Control Spike (I	CS) Report	
					Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	SCT	Гом	High
EP3 5b : C9lorinated +	- Edro0aryons(QCLot:) 42F3- 7G								
c 91 @ULP: CHRN0CH of Eeuze	ue	Ugr +@0+r	1:U	ALWL	<1:U	- :UPA LWL	:- 0	Ø	r r @
c 91 @UPP: g+RM0Gt dt Eeuze	ue	r 1i +gi +@	1:U	ALWL	<1:U	- : UPA LWL	iau	σ	л - Г Г
c91@UAP:-+RMOGtdtEeuze	ue contraction of the second se	j UHU1+r	1:U	ALWL	<1:U	- :UPA LWL	i j :@	®	L - L
c 91 @bhtexaOGt of evGaue		i @@ +	1:U	ALWL	<1:U	- :UPA LWL	©: :i	σ	rra
c91@0.0047:-:g+ of 00Gt of Eeu	Izeue	r - 1+Q +	1:U	ALWL	<1:U	- :UPA LWL	i g:Q	පී	rrg
c 91 @UPWexaOGt d. d. mt	eue	r 0004@+@	1:U	ALWL	<1:U	- :UPA LWL	@		r O@
c 91 @bWexaOGt of Ef vaBlt	áue	9 0 0 0 0 0	1:U	ALWL	<1:U	- :UPA LWL	[] :@	8	ย
c 91 @UPWexaOGt of OnOt .	euvaBløue	ල්ලි රැලි	1:U	ALWL		- : UPA LWL	90 @	ß	r gr
c 91 @bb9 euva OGt of Eeuze	iue	:10ª C€	1:U	ALWL	<1:U	- : UPA LWL	©: Ø	5	8
c 91 @breacet of Eeuzer	ueßWDTq	rrQ+@G+r	1:U	ALWL	<r :1<="" td=""><td>UPA LWL</td><td>Q.g</td><td>ą</td><td>g</td></r>	UPA LWL	Q.g	ą	g
EP3 5+: Anilines and	x enzidines(QCLot:)4215) 2G								
c 91 @UUPh uMMe		i - tucto	1:U	ALWL	<1:U	- :UPA LWL	ii :r	C-:Q	r 1U
c91@bbg+DGtdtauMMe		r 1i +g@Q	1:U	ALWL	<1:U	- : UPA LWL	U:@	r 1	r 1g
c91@UB+HMMtauMMe		004@9+g	1:U	ALWL	<r:1< td=""><td>- : UPA LWL</td><td>r-Q</td><td>gQ</td><td>r g</td></r:1<>	- : UPA LWL	r-Q	gQ	r g
c91@UUTCHINMI aunMile		j ≓j +	1:U	ALWL	<r:1< td=""><td>- : UPA LWL</td><td>000 000</td><td>- Ú:-</td><td>r r @</td></r:1<>	- : UPA LWL	000 000	- Ú:-	r r @
c91@URRNBeuztyfoau		r Ç∔g∔	1:U	ALWL	<1:U	- :UPA LWL	j - :C	P	r - @
c91@UBG+HMMtauMMe		r 11 Hr 🛉	1:U	ALWL	<1:U	- :UPA LWL	r 1C	Q	Q
c 91@btDacEazt le		¢ ∰ ₽	1:U	ALWL	<1:U	- : UPA LWL	r 1U	÷	ς-Ω
c91@URCHRMOHDE	MMe	jr+jg+r	1:U	ALWL	<1:U	- :UPA LWL	j Qi	r U:@	rrg
EP3 5+: Anilines and	x enzidines(QCLot:)42F3- 7G								
c 91 @Jdfh uMMe		i - HUCHC	1:U	ALWL	<1:U	- :UPA LWL	UC:r	r - :Q	r 1U
c91@bbg+DGtdauMMe		r 1i +g@Q	1:U	ALWL	<1:U	- : UPA LWL	gi :j	r 1	r 1g
c91@UP+HMttauMMe		00400-10	1:U	ALWL	<r:1< td=""><td>- :UPA LWL</td><td>©© ∩</td><td>gQ</td><td>r Q</td></r:1<>	- :UPA LWL	©© ∩	gQ	r Q
c91@UURHINNA aunto		j ≓1j +-	1:U	ALWL	<r:1< td=""><td>- :UPA LWL</td><td>@:r</td><td>-:) -</td><td>rr@</td></r:1<>	- :UPA LWL	@:r	-:) -	rr@
c91@bRNBeuztyfoau		r Q ∔ g+	1:U	ALWL	<1:U	- :UPA LWL	Q:i	P	r - @
c91@Ubg+HMttauMMe		r 11+1r +	1:U	ALWL	<1:U	- : UPA LWL	jac	Q	ก็
c 91@btDacEazt le		₽ Ø Ø	1:U	ALWL	<1:U	- :UPA LWL	j; jj	÷	a -
c91@UARCCHRNDGtd Eeuz	Nave	jr+jg+r	1:U	ALWL	<1:U	- : UPA LWL	j u:U	r U@	rrg
EP3 5I: Orpano09lorin	ne Pesti0ides (QCLot:) 4215) 2G								
c91@00481. Ga+TWD		Grj+0g+	1:U	ALWL	<1:U	- :UPA LWL	j U:1	g	ß
c91@bEeva+TWD		Grj+GU+@	1:U	ALWL	<1:U	- : UPA LWL	j i :g	÷	с 0 0 0
c91@btaAAa+TWD		UQ4G +j	1:U	ALWL	<1:U	- :UPA LWL	j g:-	ס	r 000
c91@bBelva+TWD		αj đ δ	1:U	ALWL	<1:U	- : UPA LWL	r 1g	9	8
c91@UPW6.vaOGto		0+66+ @	1:U	ALWL	<1:U	- : UPA LWL	i; įį	g	8
c91@JUPHIBOW		GIj I 11+	1:U	ALWL	<1:U	- : UPA LWL	r1C	g	8 8
c91@UHWA.vaOGtde.tx118	ð	r 1- g+U@C	1:U	ALWL	<1:U	- : UPA LWL	r 1i	gi	ß
c 91@bbal. Ga+c uBt sf lyau		j U + 0+0	1:U	ALWL	<1:U	- :UPA LWL	j g:1	P	r gr
c91@bg:g`#RRc		G0 +UU÷	1:U	ALWL	<1:U	- :UPA LWL	r 1U	0	8
c91@utRNellBow		i1+U@r	1:U	ALWL	<1:U	- :UPA LWL	r 1j	З	S
9aLe 4 t of 15 cBeo Dilkduv 9 ct N& Ov	b Crrty teol beircicy co b DhYRH5 Tenhec Bo SecYBBo Fr b-r-ricteo								ALS
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7fE+IavdM:MOIL					Method Blank (MB) Report	Spike	Laboratory Control Spike (LC Spike Recovery (%)	S) Report Recovery	Limits (%)
Method: Compound		CAS Number	LOR	Unit	Result	Concentration	7CS	Том	High
EP3 5 : Orpano09lorine	e Pesti0ides(QCLot:)4215) 2G 80	ontinued							
c91@bBdM		@ + 1+Q	1:U	ALWL	<1:U	- :UPA LWL	r 1@	.io	rg1
c91@btEeva+cuBt sf lyau		00-1 <u>G</u>	1:U	ALWL	<1:U	- :UPA LWL	r 1-	ຖົ	Ď
c91@bg:g`#RR		0+0+0	1:U	ALWL	<1:U	- :UPA LWL	r 1g	<u> </u>	-g-
c 91@bbc uBt sf lyauBf lyave		r 10r +1@Q	1:U	ALWL	<1:U	- :UPA LwL	r 1U	gi	ra
c91@bbg:g`#RR		U1+j +C	1:U	ALWL	<r:1< td=""><td>- :UPA LwL</td><td>r 1@</td><td>00-</td><td>ru</td></r:1<>	- :UPA LwL	r 1@	00-	ru
EP3 5I: Orpano09lorine	e Pesti0ides(QCLot:)42F3- 7G								
c91@0043al.Ga+TWD		G*j+Q3+	1:U	ALWL	<1:U	- :UPA LWL	Q:B	g	ą
c91@bEeva+TWD		Gr j +QJ+@	1:U	ALWL	<1:U	- :UPA LWL	Q:G	Ŀ	9 9
c91@bttaAAa+TWD		uaig +j	1:U	ALWL	<1:U	- :UPA LWL	0 ©:	J	с Ю
c91@bBelva+TWD		Q Q Q	1:U	ALWL	<1:U	- :UPA LWL	j U:g	9	8
c91@UBMe.vaOGto		@ - <u></u> <u></u>	1:U	ALWL	<1:U	- :UPA LWL	j g:g	g	8
c91@JUPHIBOW		Gi +1+	1:U	ALWL	<1:U	- :UPA LWL	j g:Q	gi	8
c91@UANE.vaOGtde.tx1Be	0	r 1- g+U@C	1:U	ALWL	<1:U	- :UPA LWL	j: i j	g	ß
c 91@bbal. Ga+c uBt sf lyau		j Uj 🕂 QrQ	1:U	ALWL	<1:U	- :UPA LWL	ωj	Ŀ	r gr
c91@bbg:g`#RRc		@ +UU+j	1:U	ALWL	<1:U	- :UPALWL	j Q-	Ø	8
c91@bRNalBow		i 1+U@r	1:U	ALWL	<1:U	- :UPA LWL	r 1r	Э	ŗ
c91@bBcuBoM		@ + 1+Q	1:U	ALWL	<1:U	- :UPA LWL	r 11	gi	rg1
c91@btEeva+cuBtsflyau		SC-L⊆i L⊒i	1:U	ALWL	<1:U	- :UPA LWL) j :@	ĥ	٢ď
c91@bb3:g`+RRR		G tg to	1:U	ALWL	<1:U	- :UPA LWL	j @Q	66	r g-
c91@thcuBtsflyauBflyave		r 10 +1@Q	1:U	ALWL	<1:U	- :UPA LwL	;j;	gi	ā
c91@bbg:g` I RR		U1+j C	1:U	ALWL	<r:1< td=""><td>- :UPA LWL</td><td>r 11</td><td>0) -</td><td>ŗ</td></r:1<>	- :UPA LWL	r 11	0) -	ŗ
EP3 5J: Orpanof 9osf	9orus Pesti0ides (QCLot:) 4215) 2	ŋ							
c91@URRNDG1 d31 s		i - +@+@	1:U	ALWL	<1:U	- :UPA LWL	rrC	000	r - r
c91@URRM evG ave		i 1+Ur +U	1:U	ALWL	<1:U	- :UPALWL	j 1:-	00 00	r - j
c91@bRRMzMtu		coc+gr +U	1:U	ALWL	<1:U	- :UPA LWL	j g:-	Ļ	8
c91@b4DGt0m0Mis+AevGn	1	UJ QF C∃	1:U	ALWL	<1:U	- :UPA LWL	r 1r	Э	ß
c91@bB alavGMu		r - r +@HU	1:U	ALWL	<1:U	- :UPA LWL	r 1g	ą	ą
c91@bFeuvGMu		ULHOQH	1:U	ALWL	<1:U	- :UPA LWL	r 1U	З	8
c91@bbDGt0m0Mis		-j-r+00+	1:U	ALWL	<1:U	- :UPA LWL	r 1-	D	ğ
c91@004591MMA.Gts+evGml		- OUI Utgr +r	1:U	ALWL	<1:U	- :UPA LWL	r 1U	ą	Ď
c91@bbDGto,euSM.Gts		g@ +j 1+j	1:U	ALWL	<1:U	- :UPA LWL	r 1g	Ļ	r gr
c91 COLOPED A VORMY S		CgigCigi +g	1:U	ALWL	<1:U	- :UPALWL	r 1g	Ċ	ra
c 91 @bb vGMu		ŭ Cŧ - +	1:U	ALWL	<1:U	- :UPA LWL	r 1C	З	r 00 0
EP3 5J: Orpanof 9osf	9orus Pesti0ides(QCLot:)42F3- 7	ŋ							
c91@UMRMOGt05ts		i - +@+@	1:U	ALWL	<1:U	- :UPA LWL	i @C	00	r - r
c91@URM evG ave		i 1+Ur +U	1:U	ALWL	<1:U	- :UPA LWL	QU:r	00 00 00	r - j
c91@URRAZMtu		cocigr +U	1:U	ALWL	<1:U	- :UPA LWL	Q. j.	÷	8
c91@004000tamonys+AevGn	-	UJ & G	1:U	ALWL	<1:U	- :UPA LWL	j g:C	Э	ą
c91@UPP alavGMu		r - r +@HU	1:U	ALWL	<1:U	- :UPA LWL	j@	ß	ą

K	
ъ Б	
bС-Rydd bclrC1G@ bDhYRH5RhHc69%ocY® b-r-ric06	
9aLe 4 tơ FS cBeo Diteluv 9ct tel C/	



/TEH ANDM: MOIL				wernod blank (Mb) Report	Spike	Spike Recovery (%)	us) report Recovery	Limits (%)
Method: Compound CA	4S Number	LOR	Unit	Result	Concentration	rcs	Том	High
EP3I 5J: Orpanof 9osf 9orus Pesti0ides (QCLot:) 42F3- 7G 80or	ntinued							
c 91@bFeuvGMu	ULHOQH	1:U	ALWL	<1:U	- :UPA LWL	ji :r	9	8
c91@UtDGtamovias	j - r 1 004	1:U	ALWL	<1:U	- :UPALWL	8	Þ	වී
c91@0459104M. ଫିstevGth	UI U+gr +r	1:U	ALWL	<1:U	- : UPA LWL	jac	ຖິ	ō
c 91@utbOt opeuSM. G s	g@d+j1+i	1:U	ALWL	<1:U	- :UPA LWL	ji i j	Ę	r gr
c 91 @bb8 d v@wyt s C91	iigC+gi+g	1:U	ALWL	<1:U	- :UPALWL	r 1-	÷	ō
c 91 @bb v3wu	u Gt - +	1:U	ALWL	<1:U	- : UPA LWL	jαα	З	© 0
EP343/3 1: Total Petroleum + Bdro0aryons(QCLot:)4212F1G								
c91QlbDi PPDj FraQMu	ŧ	r 1	ALWL	<r 1<="" td=""><td>C BALWL</td><td>Î</td><td><u>.</u></td><td>r-j</td></r>	C BALWL	Î	<u>.</u>	r-j
EP343/3 1: Total Petroleum + Bdro0aryons (QCLot:) 4215) - G								
c91@bbr1HtDrgFraOwhu	ŧ	5	ALWL	Ď	i 1- PA LWL	j - j	Э	- -
c91@bbrUHD-GFraOwu	ŧ	r 11	ALWL	<r 11<="" td=""><td>r Qoura LwL</td><td>ā Ċ</td><td>ᅄ</td><td>۲-g</td></r>	r Qoura LwL	ā Ċ	ᅄ	۲-g
c91@bb-j HPDG FracMMu	ŧ	r 11	ALWL	<r 11<="" td=""><td>COCPA LWL</td><td>@:@</td><td>:=</td><td>rri</td></r>	COCPA LWL	@:@	:=	rri
c91@bbr1HPD01Frao0WuBsfAq	ŧ	Ъ	ALWL	N>	ŧ	ŧ	ŧ	ŧ
EP343/3 1: Total Petroleum + Bdro0aryons (QCLot:) 42152FG								
c91QtbDi PHDj FraQMu	ŧ	r 1	ALWL	<r 1<="" td=""><td>G BALWL</td><td>r 1U</td><td><u>c</u></td><td>r-j</td></r>	G BALWL	r 1U	<u>c</u>	r-j
EP343/3 1: Total Petroleum + Bdro0aryons(QCLot:)421524G								
c91@bbr1htbrgFraOMu	ŧ	ъ	ALWL	۲U>	i 1- FA LWL	r 1g	З	- L -
c91@ttPrUHP-CFraOtMu	ŧ	r 11	ALWL	<r 11<="" td=""><td>r Qoura Lwl</td><td>j U:-</td><td>ഀ</td><td>r-g</td></r>	r Qoura Lwl	j U:-	ഀ	r-g
c91@btb-jHtD0/Frao0tMu	‡ ‡	r 11	ALWL	<r 11<="" td=""><td>CODA LWL</td><td>j</td><td>Ξ</td><td>rri</td></r>	CODA LWL	j	Ξ	rri
c91@btbr1htb0 fFca0Muf3sfAq	ŧ	Ю	ALWL	۲Ų>	ŧ	ŧ	ŧ	#
EP343/3 1: Total Re0overayle + Bdro0aryons 8NEPS) 313 Draft	t (QCLot:)	4212F1G						
c91 CANDEDIHEDIT THE COUNTU	ŧ	r 1	ALWL	<r 1<="" th=""><th>gupa LwL</th><th>i.</th><th>i 1</th><th>g</th></r>	gupa LwL	i.	i 1	g
EP343/3 1: Total Re0overayle + Bdro0aryons 8NEPS) 313 Draft	t (acLot:)	4215) - G						
c91@db⊅Dr1HmDriFrcaOMMu	ŧ	Б	ALWL	N>	j - j PA LWL	900	:=	י י ב
c91@tbDriHtbOgFraOtMu	ŧ	r 11	ALWL	<r 11<="" th=""><th> CON LWL</th><th>Cg:@</th><th>ij</th><th>rrj</th></r>	CON LWL	Cg:@	ij	rrj
c91@tbDcgHPpg1FracMMu	ŧ	r 11	ALWL	<r 11<="" th=""><th>- C- BY LWL</th><th>i r :g</th><th>gg</th><th>r-g</th></r>	- C- BY LWL	i r :g	gg	r-g
c91@bBDr1H40g11Frcac0M/uBsfAq	ŧ	r 11	ALWL	<r 11<="" th=""><th>++++</th><th>ŧ</th><th>#</th><th>ŧ</th></r>	++++	ŧ	#	ŧ
EP343/3 1: Total Re0overayle + Bdro0aryons 8NEPS) 313 Draft	t (QCLot:)	42152FG						
c91001bDiPtDr1FrcaOMu	ŧ	r1	ALWL	<r 1<="" th=""><th>gupa LwL</th><th>r 1U</th><th>i 1</th><th>rg</th></r>	gupa LwL	r 1U	i 1	rg
EP343/3 1: Total Re0overayle + Bdro0aryons 8NEPS) 313 Draft	t (QCLot:)	421524G						
c91@bBDr1H48ri用caOMMu	ŧ	5	ALWL	N>	j - j PA LWL	ji :r	:	
c91@bPDriHPDCgFrcaOtMu	ŧ	r 11	ALWL	<r 11<="" td=""><td> CONT LWL</td><td>r 1U</td><td>ij</td><td>rrj</td></r>	CONT LWL	r 1U	ij	rrj
c91@tb>DQpHpg1Frac0tMu	‡ ‡	r 11	ALWL	<r 11<="" td=""><td>- C- FA LWL</td><td>j - :g</td><td>gg</td><td>r-g</td></r>	- C- FA LWL	j - :g	gg	r-g
c91@bPDr1PHDq1FrcaOMuPsfAq	ŧ	r 11	ALWL	<r 11<="" td=""><td>#</td><td>ŧ</td><td>ŧ</td><td>#</td></r>	#	ŧ	ŧ	#

Matrix Spike (MS) Report

9aLe 4 t d Ro ପ୍ରରେ DINGUV 9 d NGOV	b CCAPyPOT belrc10,000 bDhYRH5FhhHc1990scY199 dFhR b-r-riCPC	
œPkfalMmPOuvotlP aualmeReOSeoMas:Prve	୦୦୨୮ । avMP7. (NP7) / 7 ଫ୍ଟୋଡେସେମ୍ଦ PauPMvalaEt ଉଧ୍ୟ ଫାPs. INP ଏସାY ପେ ଓଡେମନାM MéRasP ଫେରEt ଉଧ୍ୟ ଦାଳିବରଣ୍ଟି f allMn5 EbeOløest)R(aA. lePs. MeBP0 MEPaPos. ଉଟେଭୋଷ WBP sevPtyPractevPaualmes:P. GeP. fotsePtyPvOssP(5 sqP19ealReOt SeomRauLes Ruave BPA am EenPal19eBHM RRCe R Seuvery BaA. lePA av MRM ve operau Obe:
7fE+H avdM: MOIL		
		Sp
Laboratory sample ID	Client sample ID	Method: Compound CAS Number Conce

7fE+H avdM:MOIL				Mai	trix Spike (MS) Report		
				Spike	SpikeRecovery(%)	Recovery	imits (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SM	гом	High
Eb 335T: Total Seta	ils yBICP8AEM (QCLot:) 4212) 3G						
cIrC1Gi-+11i	hut umAtfs	c, 11U BhaseuM	@g1+00+	U1PALWL	r 1r	6	r-g
		c, 11U LHTadVIA	@g1+C +C		#PHt vP	6	ย
			(ReveoA MeB	ζ	-
		c, 110 bH comINA	(CCC) +0L +CC		6.J	3	5
		c, 11U BADaBA MA	@001±0C+j	UIPALWL	r 1j	පී	rri
		c, 11U BEDGET A MA	@gg1+g@C	UIPALWL	j CQ	0	L - L
		c, 11U bDteo	@g1+U1+Q	UIPALWL	ð Ö	Q	r-g
		c, 11U threat	GGG + - +	UIPALWL	jCU	0	r-g
		c, 11U bP aulauese	@d +j i +U	UIRLWL	#PHt vP ReveoA MeB	0	G
		c, 11U BHIMS el	@g1+1-+1	UIPALWL	jr:g	ම්	r - 1
		c, 11U bP2 aua BNVA	@g1+ - +-	U1PALWL	Ø	6	r-g
		c, 11U bZMO	@gg1+ii+i	UIBALWL	j g:Q	8	r-Q
Eb 325T: Total Re0	overayle Ser0urB yB cIS M (QCLot:) 4212) 1G						
cIrC1Gi-+11i	hutumAtfs	c, 100 bP ecform	QQ + Qi	U:1PA LWL	j a1	Ø	r - 1
EP3 FA: S ono0B0I	0 Aromati0 + Bdro0aryons(QCLot:) 4212F) G						
clrC10,@11@	9+hr+C1M:U	c 91@tH euzeue	@ €C+	- PALWL	a:c	Ŀ	8
		c 91@B t If eue	r 104004C	- PA LWL	j 1:r	ס	ö
EP3 FE: +alopenat	ed Alif 9ati0 Comf ounds(QCLot:) 4212F) G						
cl rC10, @0.41@	9 thr +C1 v6 :U	c91@br:r+RMGtdevGeue	@HCHg	- PALWL	@:N	8	r - @
		c91@01Pd003td evene	@otr∔	- PA LWL	Q ∶U	g	r - @
EP3 Fc: +alopenat	ed Aromati0 Comf ounds(QCLot:) 4212F) G						
cl rC10 @ 41@	9+hr+C14i:U	c 91@bDGt d Eeuzeue	r 104j 1+00	- PA LWL	g :i	Øn	r O@
EP3 5A: P9enoli0 d	Comf ounds(QCLot:) 4215) 2G						
clrC10,@11@	9+hr+C1M:U	c91@M9@ut1	- 1요 구	UPALWL	<u>ط</u> :j	() () ()	rrj
		c91@JP +DGt d. Geut I	j uhu@a	UPALWL	i @@	Qr:r	rri
		c91@tP-+HMt. Geut I	CCH-CCH-CCH-CCH-CCH-CCH-CCH-CCH-CCH-CCH	UPALWL	ά	ri :g	rrU
		c91@bbg+DGtd+C4 evGnh Ceut1	Uj +U1+@	UPALWL	Qr:i	-: :C	1
		c91@bBeuraCGt d. Ceut I	ପ®ପ +∪	UPALWL	Qg:C	۲ ۵	rg-
EP3 5x : PolBnu0le	ar Aromati0 + Bdro0aryons (QCLot:) 4215) 2G						
clrC10,@0+11@	9+hr+C1M:U	c 91 @th Ceua. GCeue	acto tj	UPALWL	œ:-	- U:g	J
		c91@JBmeue	r - j +11+1	UPALWL	д :-	rg:i	r - @
EP3 5D: Nitrosamii	nes (QCLot:) 4215) 2G						
cl rC10, @141@	9 +hr +C1 M :U	c91@0.04H+HMMtstBMu+tot.mtaAMe	i-r+ig+@0	UPALWL	<u></u> ц:1	r @C	rr 1
EP3 5E: Nitroarom	ati0s and Ketones(QCLot:)4215) 2G						



		d Fr R	
b Coff yfd	b clr cig @	b DhYRH5 Rhh Hc PB OG Y PB	b-r-riOPC
9aLe	4 t of P5 dBeo	DINGUV	9d NGOV



fE+H avdM: MOIL				Mat	rix Spike (MS) Report		
				Spike	SpikeRecovery(%)	Recovery Li	nits (%)
aboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SW	мот	High
EP3 5E: Nitroaron	nati0s and Ketones(QCLot:) 4215) 2G 80ontinued						
cIrC10,004100	9+hr+C1w:U	c91@JP:g+RMMt vt If eue	r - r +r g+	UPALWL	8	- 00	- L -
EP3 5b : C9lorinat	ted + Bdro0aryons(QCLot:) 4215) 2G						
cIrC10,@141@	9+hr+C1w:U	c91@JPF:g+R/MGHtdt Eeuzeue	r 1i +gi 🔞	UPALWL	i C1	о Ч	- L
		c91@UP:-:g+ dMGtdtEeuzeue	r - 1+Q +	UPALWL	ð: ſſ	r-:j	L L L
EP343/3 1: Total P	Petroleum + Bdro0aryons(QCLot:)4212F1G						
cl rC10;00:410	9+hr+C146:U	c91 Citroi Proj Fracuniu	ŧ	- CPA LWL	©:@	gg	r-g
EP343/3 1: Total P	Petroleum + Bdro0aryons(QCLot:) 4215) - G						
cIrC10,@041U	9+hr+-j w:U	c91@bDr1HDrgFra0Mu	ŧ	i 1- FA LwL	r 11	3	- C
		c91@HDrUHD-CFracMiu	ŧ	r Coorta LwL	j 1:	Ø	r-g
		c91@tPD-j HPDCi FrackMu	ŧ	COPA LWL	ۍ ب	i g	rrQ
EP343/3 1: Total P	Petroleum + Bdro0aryons(QCLot:)421524G						
cIrC1g11r+11r	hutumAtfs	c91@bDr1PPDrgFraQMu	ŧ	i 1- PA LwL	rr1	9	C L
		c91@tPDrUHPD-CFFcaOMu	ŧ	r Qoora Lwl	j @Q	Ø	r-g
		c91@bD-j HDCi FracMiu	ŧ	COPA LWL	j @	i g	rrQ
EP343/3 1: Total R	Re0overayle + Edro0aryons 8NEPS)313 Draft(QCLot:)	4212F1G					
cl rC10; @141@	9+hr+C1w:U	c91C/tbDiPPr1FrcaCM/u	ŧ	COPA LWL	ه: ا	gU	r - @
EP343/3 1: Total R	Re0overayle + Bdro0aryons 8NEPS)313 Draft(QCLot:)	4215) - G					
cIrC10,000+110	9+hr+j w:U	c91@tBDr1HPDri开caOMu	ŧ	j - j PA LwL	: U: -	<u>.</u>	r- c
		c91@bPDriHPDQFraOMu	ŧ		ġ	0	ر - ر ر
		c91@bPDGPPDg1Fra0Mu	ŧ	- G- PA LWL	ġ	66	r-i
EP343/3 1: Total R	Re0overayle + Bdro0aryons 8NEPS)313 Draft(QCLot:)	421524G					
c1 rC1g11r +11r	hutumAtfs	c91@tPDr1PHDri开caOMtu	ŧ	j-jPALw/L	r 11	IJ.	r-C
		c91@bPDriHPDCg用caOMu	ŧ	CON LWL	r 1@	i @	r - r
		c91@B>DQPPB91Fra0Mu	ŧ	- C- FA LWL	Qr:j	66	r-i

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

GepkfalmhPCtuctProcAPI and P7. WeP)170PauBPI and P7. WePRf. 100areP)17R4Posport PM cala Et out on Ps. IN PsaA. IssPs. WeBPOMOPaPoc. osservander Paualmes:P. GeP. fotsePtyPvoeseP(DP. aod every Paualmes). At uM CP to under A content Paualmes Paualmes) 780 and every and every and every failed and e

7fE+I avdM: MOIL					Matrix Spike (MS	s) and Matrix Spil	ke Duplicate (MSD) Report		
				Spike	Spike Recc	very (%)	Recovery L	imits (%)	RPDs	(%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SW	MSD	Том	High	Value	Control Limit
Eb 335T: Total Setal	s yBICP84EM (QCLot:) 4212) 3G									
cIrC1Gi-+11i	hutumAtfs	c, 11U bhaceunt	@g1+00₽	UIFALWL	r 1r	ŧ	6	r-g	ŧ	ŧ
		c, 11U bFradVIA	@g1+0; +C	U1FA LWL	#PHt vP	ŧ	6	õ	ŧ	ŧ
					ReveoA MeB					

	ଷ	PhhcBOCYBOR B	
b CUR VRD	b cl r Čl d	b DhYRH5F	b - r - ri OC
9aLe	4 t d P5 dBeo	DINGUV	9d NGOV



7fE+IavoM:MOIL					Matrix Spike (MS) and Matrix Spil	re Duplicate (MSD) Report		
				Spike	Spike Reco	very (%)	Recovery L	imits (%)	RPDS	(%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	SW	USD	Том	High	Value	Control Limit
Eb 335T: Total Seta	ls yBICP8AEM (QCLot:) 4212) 3G 80ont	tinued								
cIrC10ji-41i	hutumAtfs	c, 11U LAT continued	00gg1+gr+00	U1PA LWL	r 1g	ŧ	9	r- U	ŧ	ŧ
		c, 11U BEDARA	@g1+gC+j	U1FA LWL	r 1j	ŧ	ප	rri	ŧ	ŧ
		c, 11U INDOM A MA	@g1+g@C	UIFALWL	jca	ŧ	6	_ - _	ŧ	ŧ
		c, 11U bDteo	@g1+11+Q	UIRALWL	ğ	ŧ	¢	r-g	ŧ	ŧ
		c, 11U bheaB	©00 +i - +r	U1FA LWL	jαU	ŧ	0	r-g	ŧ	ŧ
		c, 11U bP auLauese	@G +i : +U	UIFALWL	#PHt vP Revera MeB	ŧ	0	บิ	ŧ	ŧ
		C 1111 KRHWY el	@a14-+1	UIPALWL	i r :a	ŧ	ଟି		ŧ	ŧ
		c, 11U b2auaBMA	@g1+ - +	U1 PA LW L) () () () () () () () () () () () () ()	ŧ) (3)	r-g	ŧ	ŧ
		c, 11U BZMO	@391∔i∔i	U1FA LWL	j g:Q	#	8	o-'	#	ŧ
Eb 325T: Total Re0	overayle Ser0urByBcISM (QCLot:) 42	12) 1G								
cIrC10ji-+11i	hutumAtfs	c, 100 BP eod an	® + 0 ®	U:1PA LWL	j a1	ŧ	Ø	r- 1	ŧ	ŧ
EP343/3 1: Total Pe	troleum + Bdro0aryons (QCLot:) 4212F	-1G								
clrC10,@11@	9+hr+C144:U	c91Q1bDi HPDj IFcaOMu	ŧ	- CPA LWL	© 0	ŧ	66	r-g	ŧ	ŧ
EP343/3 1: Total Re	00000000000000000000000000000000000000	Draht (QCLot:) 4212F1G								
clrC10,@11@	9+hr+C144:U	c91Q1bDi HDr1FraOMu	ŧ	COPA LWL	Q:i	ŧ	ŋß	r - @	ŧ	ŧ
EP3 FA: S ono0B0li	0 Aromati0 + Bdro0aryons (QCLot:) 42	12F) G								
clrC10,@141@	9+hr+C144:U	c 91@bH euzeue	₫¢ ©	- PA LWL	Q:C	ŧ	P	8	ŧ	ŧ
		c 91 @tP t If eue	r 10:00:0	- PALWL	j 1:r	ŧ	ה	ā	ŧ	ŧ
EP3 FE: +alopenate	ed Alif 9ati0 Comf ounds(QCLot:)4213	2F) G								
cl rC10, @141@	9+r+C1vf:U	c 91 @ the triangle of exerce	CHCHC CHCHC	- PALWL	@:N	##	8	r - @	ŧ	ŧ
		c 91 ලෝහි dondt of evceue	@ Hr∔	- PA LWL	₫.Ŭ	‡ ‡	gi	r - @	‡ ‡	ŧ
EP3 Fc: + alopenate	ed Aromati0 Comf ounds(QCLot:)421	2F) G								
cl rC10 @141@	9+hr+C1vt:U	c91@bDGtdEeuzeue	r 104 1+@	- PA LWL	g∷	ŧ	Ø	r 0@	ŧ	ŧ
EP3 5A: P9enoli0 C	comf ounds(QCLot:) 4215) 2G									
cl rC10 @ +1 @	9+r+C1&:U	c 91 @bB Geut 1	r1와 두	UPALWL	a:j	++++	© ;; -	rrj	ŧ	ŧ
		c91@JP +DGt d. Geut I	j ułu@a	UPALWL	- a a	+++	Cr∷r	rri	ŧ	ŧ
		c91@uP+HMtt. Geut I	CCH-CCH-CCH-CCH-CCH-CCH-CCH-CCH-CCH-CCH	UPALWL	Ξ	‡ ‡	ri :g	rrU	ŧ	ŧ
		c91@bbg+DGtd+C+levGnh. Geutl	0+11+0	UPALWL	g::	ŧ	<u></u> 		ŧ	ŧ
		c91@bBeuvaOdt d. Geut I	<u>C@Ci</u> +U	UPALWL	Cg:C	##	r @	rg-	ŧ	ŧ
EP3 5x : PolBnu0lea	ar Aromati0 + Bdro0aryons (QCLot:) 42	15) 2G								
cl rC10, @141@	9+r+C144:U	c 91 @th Ceua. GCeue	ac+c-+j	UPALWL	<u>ه</u> :-	##	- U:g	J	ŧ	ŧ
		c 91 @b9 meue	r-j +11+1	UPALWL	<u>م</u> :1	ŧ	rg:i	r - @	ŧ	ŧ
EP3 5D: Nitrosamir	ies (QCLot:) 4215) 2G									
cl rC10 @ +1 @	9+hr+C1vt:U	c91@0.04H+HIMatstBMu+;d. maAMe	i-r∔g+@	UPA LWL	Ц :1	‡ ‡	r	rr 1	‡ ‡	ŧ
EP3 5E: Nitroaroma	ati0s and Ketones (QCLot:) 4215) 2G							_		
clrC10,@0,⊭1@	9+hr+C1wt:U	c91@tP:g-RMMt tifeue	r - r # g+-	UPALWL	8	ŧ	- ac	- L	ŧ	ŧ

		dFh R	
b G R yO	belred of	Ы DhYRH5 FhhHc P9 V9 c Y B9	b-r-ri OPC
9aLe	4 t d F5 dBeo	DINGUV	9d NGOV



7fE+H avdW:MOIL				W	atrix Spike (MS)	and Matrix Spik	e Duplicate (MSD) Report		
			Spil	ke	Spike Recov	ery (%)	Recovery L	imits (%)	RPDs	(%)
Laboratory sample ID	Client sample ID	Method: Compound CAS	Vumber Concen	tration	WS	MSD	Low	High	Value	Control Limit
EP3 5b : C9lorinate	pd + Bdro0aryons(QCLot:) 4215) 2G									
clrC10;00;+100	9+hr+C1wf:U	c91@UPr:g+RM03td Eeuzeue	i+gi+@ UPAL	Ŵ٢	i a1	ŧ	ç	- L	ŧ	ŧ
		c91@MP:-:9+ of MBt of Eeuzeue	1+Q++ UPAL	Ŵ٢	Uj :g	ŧ	r - :j	гг	ŧ	ŧ
EP343/3 1: Total Pe	etroleum + Bdro0aryons(QCLot:)4215)-	9								
cl rC10, @0+1U	9+hr+j 4t:U	c91@bDr1HPDrgFraOMu	++++ i 1- FA	LWL	r 11	ŧ	3	r- C	ŧ	ŧ
		c91@BDrUHD-QFaOMu	HIII LOOB	LWL	j 1:i	ŧ	0	r-g	ŧ	ŧ
		c91@bD-j HPDCi FracMu	4000 HHH	LWL	ې. ۲	ŧ	i g	ro	ŧ	ŧ
EP343/3 1: Total R	e0overayle + Bdro0aryons 8NEPS)313 D	ralt (QCLot:) 4215) - G								
cl rC10 @110	9+hr+jwt:U	c91@bBDr1HPDri用FacOMMu	₩₩ j-j IA	LWL	j -: U	ŧ	N.	r- C	ŧ	ŧ
		c91@bPDriHPDQ3FraOMu		LWL	ā	ŧ	8	- L - L	ŧ	ŧ
		c91@bPDGPPD91Fra0Mu	-C B	LWL	. <u>.</u>	ŧ	gg	. <u>.</u>	ŧ	ŧ
EP343/3 1: Total Pe	etroleum + Bdro0aryons(QCLot:)421524	Ģ								
cIrC1g11r+11r	hut umAtfs	c91@bDr1HPDrgFraOMu	++++ i1-BA	LWL	rr 1	ŧ	3	r- C	ŧ	ŧ
		c 91@BDr UPPD- QF aOMu	HHH LOOP	LWL) C	ŧ	0	r-g	ŧ	ŧ
		c91@bD-j HPDCi FracMu	4000 ++++	LwL	ģ	ŧ	i g	ro	ŧ	ŧ
EP343/3 1: Total Re	e0overayle + Bdro0aryons 8NEPS)313 D	ralt (QCLot:) 421524G								
cIrC1g11r+11r	hutumAtfs	c91@bbDr1HPDri用caOMu	+++ j -j 🖪	LWL	r 11	ŧ	n:	r. C	ŧ	ŧ
		c91@bPDriHPDQ3FraOMu	++++ COM	LWL	r 1@	++++		r - r	‡ ‡	+++
		c91@bPDQBHDg1FraOMu	A 0 - H==	LWL	Q:j	ŧ	<u> 6</u> 6	r-i	ŧ	ŧ

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Work Order	: EM1303970	Page	: 1 of 12
Client Contact Address	: CARDNO LANE PIPER PTY LTD : MR DANNY MCDONALD : 154 HIGHBURY ROAD BURWOOD VIC, AUSTRALIA 3125	Laboratory Contact Address	: Environmental Division Melbourne : Carol Walsh : 4 Westall Rd Springvale VIC Australia 3171
E-mail Telephone ⁻ acsimile	: danny.mcdonald@lanepiper.com.au : +61 03 98880100 : +61 03 98083511	E-mail Telephone Facsimile	: carol.walsh@alsglobal.com : +61-3-8549 9608 : +61-3-8549 9601
Project Site 2-O-C number	: 212163 3 : Fiskville :	QC Level Date Samples Received	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement : 18-APR-2013
Sampler Order number	: MDR :	Issue Date	: 24-APR-2013
Quote number	: MEBQ/115/12	No. of samples received No. of samples analysed	: 21

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Interpretive Quality Control Report contains the following information:

- Analysis Holding Time Compliance
- Quality Control Parameter Frequency Compliance
 - Brief Method Summaries •

 - Summary of Outliers

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Analysis Holding Time Compliance

dilutions and reruns. Information is also provided re the sample container (preservative) from which the analysis aliquot was taken. Elapsed period to analysis represents number of days from sampling where no for laboratory produced leachates is assumed as the completion date of the leaching process. Outliers for holding time are based on USEPA SW 846, APHA, AS and NEPM (1999). A listing of breaches is provided in The following report summarises extraction / preparation and analysis times and compares with recommended holding times. Dates reported represent first date of extraction or analysis and precludes subsequent extraction / digestion is involved or period from extraction / digestion where this is present. For composite samples, sampling date is assumed to be that of the oldest sample contributing to the composite. Sample date the Summary of Outliers.

the not leach date with the shortest analyte holding time for the equivalent soil method. These soil holding times are: Organics (14 days); Mercury (28 days) & other metals (180 days). A recorded breach therefore does Holding times for leachate methods (excluding elutriates) vary according to the analytes being determined on the resulting solution. For non-volatile analytes, the holding time compliance assessment compares guarantee a breach for all non-volatile parameters.

Matrix: SOIL					Evaluation:	x = Holding time t	oreach ; < = Within	holding time
Method		Sample Date	Ext	raction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content								
Soil Glass Jar - Unpreserved (EA055-103)								
TP-A1-28/0.1,	TP-A1-29/0.5,	11-APR-2013	-			22-APR-2013	25-APR-2013	>
TP-A1-30/0.5,	TP-A1-31/0.5,							
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	TP-A1-37/0.9,							
QC01/110413								
Soil Glass Jar - Unpreserved (EA055-103)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	ł			22-APR-2013	26-APR-2013	>
TP-A3a-05/1.3,	TP-A3a-07/0.9,							
TP-A3a-08/0.1,	TP-A3a-09/0.1,							
TP-A3a-10/1.0,	TP-A3a-11/0.6,							
TP-A3a-13/0.1,	TP-A3a-14/0.5							
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
TP-A1-28/0.1,	TP-A1-31/0.5,	11-APR-2013	22-APR-2013	08-OCT-2013	>	22-APR-2013	08-OCT-2013	>
TP-A1-33/0.5,	TP-A1-34/0.7,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EG005T)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	09-OCT-2013	>	22-APR-2013	09-OCT-2013	>
TP-A3a-08/0.1,	TP-A3a-09/0.1,							
TP-A3a-13/0.1								
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
TP-A1-28/0.1,	TP-A1-31/0.5,	11-APR-2013	22-APR-2013	09-MAY-2013	>	23-APR-2013	09-MAY-2013	>
TP-A1-33/0.5,	TP-A1-34/0.7,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EG035T)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	10-MAY-2013	>	23-APR-2013	10-MAY-2013	>
TP-A3a-08/0.1,	TP-A3a-09/0.1,							
TP-A3a-13/0.1								

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Page Work Client Proje	Matri

Matrix: SOIL					Evaluation:	x = Holding time t	reach ; ✓ = Within	nolding time.
Method		Sample Date	ĒX	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP071)								
TP-A1-28/0.1, TD-A4-20/0.5	TP-A1-29/0.5,	211-AFR-2013	22-APR-2013	CI07-YJY-C7	>	22-AFR-2013		>
	TP-A1-31/0.3, TD-61-20-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-							
IP-A1-32/0.65,	IP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
IP-A1-36/0.1,	I P-A1-3//0.9							
Soil Glass Jar - Unpreserved (EP071) QC01/110413		11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	01-JUN-2013	>
Soil Glass Jar - Unpreserved (EP071)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	22-APR-2013	01-JUN-2013	>
TP-A3a-05/1.3,	TP-A3a-07/0.9,							
TP-A3a-08/0.1,	TP-A3a-09/0.1,							
TP-A3a-10/1.0,	TP-A3a-11/0.6,							
TP-A3a-13/0.1,	TP-A3a-14/0.5							
EP074D: Fumicants								
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-28/0.1.	TP-A1-30/0.5.	11-APR-2013	22-APR-2013	25-APR-2013	>	22-APR-2013	25-APR-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							•
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-37/0.9		11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	25-APR-2013	>
Soil Glass Jar - Unpreserved (EP074)								,
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	ZZ-APK-Z013	20-AFR-2013	>	22-APR-2013	20-AFR-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP074E: Halogenated Aliphatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	22-APR-2013	25-APR-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-37/0.9		11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	25-APR-2013	>
Soil Glass Jar - Unpreserved (EP074)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	22-APR-2013	26-APR-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								

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age	Vork Order	Client	Project	Aatrix: SOIL	Method	

Matrix: SOIL					Evaluation:	x = Holding time t	oreach; < = Within	holding time.
Method		Sample Date	Exi	raction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074F: Halogenated Aromatic Compounds								
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	22-APR-2013	25-APR-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-37/0.9		11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	25-APR-2013	>
Soil Glass Jar - Unpreserved (EP074)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	22-APR-2013	26-APR-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP074A: Monocyclic Aromatic Hydrocarbons							•	
Soil Glass Jar - Unbreserved (EP074)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	22-APR-2013	25-APR-2013	>
TP-A1-32/0.65.	TP-A1-33/0.5.							•
TP-A1-34/0.7	TP-A1-35/0.1							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-37/0.9		11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	25-APR-2013	>
Soil Glass Jar - Unpreserved (EP074)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	22-APR-2013	26-APR-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP074B: Oxygenated Compounds								
Soil Glass Jar - Unpreserved (EP074)		11-A DD-2013	22_ADD_2013	75_ADD_2013	`	22_ADD_2013	25_ADD_2013	``
I P-A I-20/0. I,	I F-A I-30/0.3,				>	CI 07-VI 12-77		>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-37/0.9		11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	25-APR-2013	>
Soil Glass Jar - Unpreserved (EP074)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	22-APR-2013	26-APR-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								

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Client	: CARDNO LANE PIPER PTY LTD
Project	: 212163 3
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Matrix: SOIL					Evaluation:	<pre>x = Holding time t</pre>	oreach; ✓ = Within	holding time.
Method		Sample Date	EX	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074C: Sulfonated Compounds								
Soil Glass Jar - Unpreserved (EP074) TP-A1-28/0.1	TP-A1-30/0.5	11-APR-2013	22-APR-2013	25-APR-2013	>	22-APR-2013	25-APR-2013	``
TP-A1-32/0.65,	TP-A1-33/0.5,				•			
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-37/0.9		11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	25-APR-2013	>
Soil Glass Jar - Unpreserved (EP074)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	22-APR-2013	26-APR-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP074G: Trihalomethanes								
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	22-APR-2013	25-APR-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP074)								
TP-A1-37/0.9		11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	25-APR-2013	>
Soil Glass Jar - Unpreserved (EP074)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	22-APR-2013	26-APR-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP075H: Anilines and Benzidines								
Soil Glass Jar - Unpreserved (EP075)							-	
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-37/0.9		11-APR-2013	23-APR-2013	25-APR-2013	>	24-APR-2013	02-JUN-2013	>
Soil Glass Jar - Unpreserved (EP075)	TD 832 04/04	12-ADP-2013	22_ADB_2013	26_ADR_2013		23-ADP-2013	01-11 INL2013	``
					>			>
IP-A3a-U5/1.3,	I P-A3a-U8/U.1,							
TP-A3a-09/0.1.	TP-A3a-11/0.6.							

TP-A3a-13/0.1

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		Work Order	Client	Project	Matrix: SOIL

Vlatrix: SOIL					Evaluation:	× = Holding time t	reach; ✓ = Within	holding time.
Method		Sample Date	Ēx	raction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075G: Chlorinated Hydrocarbons								
3oil Glass Jar - Unpreserved (EP075) TP-∆1-28/0 1	TP-A1-30/0 5	11-APR-2013	22-APR-2013	25-APR-2013	``	23-APR-2013	01-JUN-2013	``
TP-A1-32/0.65,	TP-A1-33/0.5,				•			
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075) TP-A1-37/0.9		11-APR-2013	23-APR-2013	25-APR-2013	>	24-APR-2013	02-JUN-2013	`
Soil Glass Jar - Unpreserved (EP075)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP075F: Haloethers								
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075)		44 A DD 2042	22 ADD 2012	25 ADD 2012	``	24 ADD 2042		``
I F-A I-37/0.9					>	0107-1110-12		>
Soil Glass Jar - Unpreserved (EP075) TD_A3a_04/4_4	TD_A32_04/0_1	12-APR-2013	22-APR-2013	26-APR-2013		23-APR-2013	01IUN-2013	
					>			>
TP A32 -05/1.3, TP A32 00/0 1	I P-A3a-U8/U.1, TD A3- 11/0 G							
TP-A3a-13/0.1								
EP075E: Nitroaromatics and Ketones								
Soil Glass Jar - Unpreserved (EP075)		11 A DD 2013	22 ADD 2012	75_ADD_2013		32 ADD 2013	01 - II IN-2013	
I P-A1-Z8/0.1,		0107-VJV-11	~! ^?-VJW-77		>	20-MLN-20		>
TP-A1-32/0.65,	TP-A1-33/0.5,							
I P-A 1-34/0.7,	I P-41-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075)					,			
TP-A1-37/0.9		11-APK-2013	23-APK-2013	25-APR-2013	>	24-APR-2013	02-JUN-2013	>
Soil Glass Jar - Unpreserved (EP075)		40 A DD 2012	0,00 00 00		``	22 400 2012		``
IP-A3a-01/1.4,	IP-A3a-04/0.1, ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	CIN7-114-71	01 N7-NJM-77	0107-V1 JV-07	>	21-71-17-27		>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								

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(Page	Work Order	Client	Project	

Project : 212163 3								ALS)
Matrix: SOIL					Evaluation:	x = Holding time t	oreach ; ✓ = Within	holding time.
Method		Sample Date	Exi	raction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075D: Nitrosamines								
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-37/0.9		11-APR-2013	23-APR-2013	Z5-APR-Z013	>	24-APR-2013	02-JUN-2013	>
Soil Glass Jar - Unpreserved (EP075)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075) TD_A1-37/0 0		11-APR-2013	23-APR-2013	25-APR-2013		24-APR-2013	02-, IUN-2013	
Control of Theresearch (ED075)					•			•
TP-A3a-01/1.4.	TP-A3a-04/0.1.	12-APR-2013	22-APR-2013	26-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A3a-05/1.3.	TP-A3a-08/0.1,							•
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP075J: Organophosphorus Pesticides								
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-37/0.9		11-APR-2013	23-APR-2013	25-APR-2013	>	24-APR-2013	02-JUN-2013	>
Soil Glass Jar - Unpreserved (EP075)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								

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Work Order	EM1303970
Client	: CARDNO LANE PIPER PTY LTD
Project	: 212163 3
Matriv. SOI	

Matrix: SOIL					Evaluation:	x = Holding time t	oreach; ✓ = Within	holding time.
Method		Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP075A: Phenolic Compounds								
Soil Glass Jar - Unpreserved (EP075)	TD A1 30/0 F	11-ADR-2013	22_APR_2013	25-APR-2013	`	23-ADR-2013	01ILIN-2013	``
TD-41-23/0.65	TD-A1-33/0.5				•			>
TD-41-34/07	TD-A1-35/0 1							
TP-A1-36/0.1	0.001/110413							
Soil Glass Jar - Unbreserved (EP075)								
TP-A1-37/0.9		11-APR-2013	23-APR-2013	25-APR-2013	>	24-APR-2013	02-JUN-2013	>
Soil Glass Jar - Unpreserved (EP075)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								ľ
EP075C: Phthalate Esters								
Soil Glass Jar - Unpreserved (EP075) TD-∆1-28/0 1	TD-A1-30/0 5	11-APR-2013	22-APR-2013	25-APR-2013	`	23-APR-2013	01-111N-2013	
					>			>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-37/0.9		11-APR-2013	23-APR-2013	25-APR-2013	>	24-APR-2013	02-JUN-2013	>
Soil Glass Jar - Unpreserved (EP075)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-28/0.1,	TP-A1-30/0.5,	11-APR-2013	ZZ-APK-2013	25-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	QC01/110413							
Soil Glass Jar - Unpreserved (EP075)								
TP-A1-37/0.9		11-APR-2013	23-APR-2013	25-APR-2013	>	24-APR-2013	02-JUN-2013	>
Soil Glass Jar - Unpreserved (EP075)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	23-APR-2013	01-JUN-2013	>
TP-A3a-05/1.3,	TP-A3a-08/0.1,							
TP-A3a-09/0.1,	TP-A3a-11/0.6,							
TP-A3a-13/0.1								

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Matrix: SOIL					Evaluation:	<pre>x = Holding time </pre>	oreach ; ✓ = Within	holding time.
Method		Sample Date	Ext	action / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP080)								
TP-A1-28/0.1,	TP-A1-29/0.5,	11-APR-2013	22-APR-2013	25-APR-2013	>	22-APR-2013	25-APR-2013	>
TP-A1-30/0.5,	TP-A1-31/0.5,							
TP-A1-32/0.65,	TP-A1-33/0.5,							
TP-A1-34/0.7,	TP-A1-35/0.1,							
TP-A1-36/0.1,	TP-A1-37/0.9,							
QC01/110413								
Soil Glass Jar - Unpreserved (EP080)								
TP-A3a-01/1.4,	TP-A3a-04/0.1,	12-APR-2013	22-APR-2013	26-APR-2013	>	22-APR-2013	26-APR-2013	>
TP-A3a-05/1.3,	TP-A3a-07/0.9,							
TP-A3a-08/0.1,	TP-A3a-09/0.1,							
TP-A3a-10/1.0,	TP-A3a-11/0.6,							
TP-A3a-13/0.1,	TP-A3a-14/0.5							

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Page	Work Order	Client	Project



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(where) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: SOIL Quality Control Sample Type

Evaluation: $\mathbf{x} =$ Quality Control frequency not within specification; $\mathbf{v}' =$ Quality Control frequency within specification. Rate (%) Quality Control Specification

Quality Control Sample Type		Co	unt		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	5	43	11.6	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Semivolatile Organic Compounds	EP075	ę	16	18.8	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	19	10.5	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	19	10.5	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	4	35	11.4	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	e	21	14.3	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	З	15	20.0	10.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Laboratory Control Samples (LCS)							
Semivolatile Organic Compounds	EP075	2	16	12.5	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	-	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	Ţ	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	7	35	5.7	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	2	21	9.5	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	с	16	18.8	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
Semivolatile Organic Compounds	EP075	2	16	12.5	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	-	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	19	5.3	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	2	35	5.7	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	7	21	9.5	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	з	16	18.8	5.0	>	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Matrix Spikes (MS)							
Semivolatile Organic Compounds	EP075	-	15	6.7	5.0	>	ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	19	5.3	5.0	>	ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	-	19	5.3	5.0	>	ALS QCS3 requirement
TPH - Semivolatile Fraction	EP071	2	35	5.7	5.0	>	ALS QCS3 requirement
TPH Volatiles/BTEX	EP080	-	20	5.0	5.0	>	ALS QCS3 requirement
Volatile Organic Compounds	EP074	-	14	7.1	5.0	>	ALS QCS3 requirement





Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2010 Draft) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Total Metals by ICP-AES	EG005T	SOIL	(APHA 21st ed., 3120; USEPA SW 846 - 6010) (ICPAES) Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (1999) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	AS 3550, APHA 21st ed., 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (1999) Schedule B(3)
TPH - Semivolatile Fraction	EP071	SOIL	(USEPA SW 846 - 8015A) Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C36. This method is compliant with NEPM (1999) Schedule B(3) (Method 506.1)
Volatile Organic Compounds	EP074	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 501)
Semivolatile Organic Compounds	EP075	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (1999) Schedule B(3) (Method 502)
TPH Volatiles/BTEX	EP080	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 501)
Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	(USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids (Option A - Concentrating)	ORG17A	SOIL	In-house, Mechanical agitation (tumbler). 20g of sample, Na2SO4 and surrogate are extracted with 150mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Tumbler Extraction of Solids (Option B - Non-concentrating)	ORG17B	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 20mL 1:1 DCM/Acetione by end over end tumble _ The solvent is transferred directly to a GC vial for analysis



Summary of Outliers

Outliers : Quality Control Samples

The following report highlights outliers flagged in the Quality Control (QC) Report. Surrogate recovery limits are static and based on USEPA SW 846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). This report displays QC Outliers (breaches) only.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: SOIL

ompound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
rrix Spike (MS) Recoveries							
G005T: Total Metals by ICP-AES	EM1303962-006	Anonymous	Barium	7440-39-3	Not	1	MS recovery not determined,
				Ω	etermined		background level greater than or
							equal to 4x spike level.
G005T: Total Metals by ICP-AES	EM1303962-006	Anonymous	Manganese	7439-96-5	Not	1	MS recovery not determined,
					etermined		background level greater than or
							equal to 4x spike level.

- For all matrices, no Method Blank value outliers occur.
- For all matrices, no Duplicate outliers occur.
- For all matrices, no Laboratory Control outliers occur.

Regular Sample Surrogates

Sub-Matrix: SOIL

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP074S: VOC Surrogates	EM1303970-025	TP-A1-37/0.9	1.2-Dichloroethane-D4	17060-07-0	61.6 %	62-122 %	Recovery less than lower data quality
							bjective
EP074S: VOC Surrogates	EM1303970-025	TP-A1-37/0.9	4-Bromofluorobenzene	460-00-4	64.7 %	66-124 %	Recovery less than lower data quality
							bbjective

Outliers : Analysis Holding Time Compliance

This report displays Holding Time breaches only. Only the respective Extraction / Preparation and/or Analysis component is/are displayed.

No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

The following report highlights breaches in the Frequency of Quality Control Samples.

No Quality Control Sample Frequency Outliers exist.



 Melbourne
 3-5 Kingston Town Close

 3-5 Kingston Town Close
 Oakleigh Vic 3166

 Phone: +61 3 8564 5000
 NATA # 1261

 Site # 1254 & 14271
 Site # 1254 & 14271

Sydney Unit F6, Building F 16 Mars Road Lane Cove West NSW 2066 Phone : +61 2 9900 8400 NATA # 1261 Site # 18217

Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	Cardno Lane Piper Pty Ltd
Contact name:	Maria De Los Reyes
Client job number:	FISKVILLE 212163.3
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Apr 18, 2013 2:11 PM
Eurofins mgt reference:	376257

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- All samples have been received as described on the above COC.
- ☑ COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- \square All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☑ Organic samples had Teflon liners.
- Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Natalie Krasselt on Phone : (+61) (3) 8564 5000 or by e.mail: Natalie.Krasselt@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Maria De Los Reyes - maria.delosreyes@lanepiper.com.au.

Eurofins | mgt Sample Receipt



NATA Accreditation Stack Emission Sampling & Analysis Trade Waste Sampling & Analysis Groundwater Sampling & Analysis



38 Years of Environmental Analysis & Experience



Cardno Lane Piper Pty Ltd Building 2, 154 Highbury Road Burwood VIC 3125



Certificate of Analysis

NATA Accredited Accreditation Number 1261 Site Number 1254

Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention:

376257-S

Maria De Los Reyes

Report Client Reference Received Date

376257-S FISKVILLE 212163.3 Apr 18, 2013

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Client Sample ID			QC02/110413
Sample Matrix			Soil
Eurofins mgt Sample No.			M13-Ap15452
Date Sampled			Apr 11, 2013
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions		
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-36 (Total)	50	mg/kg	< 50
Volatile Organics			
1.1-Dichloroethane	0.05	mg/kg	< 0.05
1.1-Dichloroethene	0.05	mg/kg	< 0.05
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05
1.1.2.2-Tetrachloroethane	0.05	mg/kg	< 0.05
1.2-Dibromoethane	0.05	mg/kg	< 0.05
1.2-Dichlorobenzene	0.05	mg/kg	^{G01} < 0.1
1.2-Dichloroethane	0.05	mg/kg	< 0.05
1.2-Dichloropropane	0.05	mg/kg	< 0.05
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05
1.3-Dichloropropane	0.05	mg/kg	< 0.05
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05
2-Butanone (MEK)	0.05	mg/kg	< 0.05
2-Propanone (Acetone)	0.05	mg/kg	< 0.05
4-Chlorotoluene	0.05	mg/kg	< 0.05
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05
Allyl chloride	0.05	mg/kg	< 0.05
Benzene	0.1	mg/kg	< 0.1
Bromobenzene	0.05	mg/kg	< 0.05
Bromochloromethane	0.05	mg/kg	< 0.05
Bromodichloromethane	0.05	mg/kg	< 0.05
Bromoform	0.05	mg/kg	< 0.05
Bromomethane	0.05	mg/kg	< 0.05
Carbon disulfide	0.05	mg/kg	< 0.05
Carbon Tetrachloride	0.05	mg/kg	< 0.05
Chlorobenzene	0.05	mg/kg	< 0.05



Client Sample ID Sample Matrix			QC02/110413 Soil
Eurofins mat Sample No			M13-Ap15/52
Pate Operated			NITS-APT5452
			Apr 11, 2013
Test/Reference	LOR	Unit	1
Volatile Organics	1		
Chloroethane	0.05	mg/kg	< 0.05
Chloroform	0.05	mg/kg	< 0.05
Chloromethane	0.05	mg/kg	< 0.05
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05
Dibromochloromethane	0.05	mg/kg	< 0.05
Dibromomethane	0.05	mg/kg	< 0.05
Dichlorodifluoromethane	0.05	mg/kg	< 0.05
Ethylbenzene	0.1	mg/kg	< 0.1
Iodomethane	0.05	mg/kg	< 0.05
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05
m&p-Xylenes	0.2	mg/kg	< 0.2
	0.05	mg/kg	< 0.05
o-Xylene	0.1	mg/kg	< 0.1
Styrene	0.05	mg/kg	< 0.05
I etrachloroethene	0.05	mg/kg	< 0.05
	0.1	mg/kg	< 0.1
trans-1.2-Dichloroetnene	0.05	mg/kg	< 0.05
	0.05	mg/kg	< 0.05
	0.05	mg/kg	< 0.05
	0.05	mg/kg	< 0.05
Vinyi chioride	0.05	mg/kg	< 0.05
Kylenes - Total	0.3	тт <u>д</u> /кд	< 0.3
	1	-70	57
4-Biomonuorobenzene (surr.)	Erections	70	57
Nonhtholono ^{N02}		mallea	.05
	0.5	mg/kg	< 20
TPH C6 C10 loss PTEX (E1)N04	20	mg/kg	< 20
	20 50	mg/kg	< 20
TPH > C10 C16 loss Nanhthalono (E2) ^{N01}	50	mg/kg	< 50
	100	mg/kg	< 100
TRH >C34-C40	100	ma/ka	< 100
Semivolatile Organics	100	iiig/kg	
2 Mothyl 4.6 dipitrophonol	5	ma/ka	5
	0.5	mg/kg	< 0.5
1-Onioronaphinalene	0.5	mg/kg	< 0.5
	0.5	mg/kg	< 0.5
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5
1 2 3 4-Tetrachlorobenzene	0.5	ma/ka	< 0.5
1 2 3 5-Tetrachlorobenzene	0.5	ma/ka	< 0.5
1.2.4-Trichlorobenzene	0.5	ma/ka	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	ma/ka	< 0.5
1.3-Dichlorobenzene	0.5	ma/ka	< 0.5
1.3.5-Trichlorobenzene	0.5	ma/ka	< 0.5
1.4-Dichlorobenzene	0.5	ma/ka	< 0.5
2-Chloronaphthalene	0.5	ma/ka	< 0.5
2-Chlorophenol	0.5	ma/ka	< 0.5
2-Methylnaphthalene	0.5	mg/kg	< 0.5



Client Sample ID Sample Matrix			QC02/110413
Eurofine I mat Sample No			M12 Ap15452
Eurorins mgt Sample No.			W13-Ap15452
Date Sampled			Apr 11, 2013
Test/Reference	LOR	Unit	
Semivolatile Organics			
2-Methylnaphthalene	0.5	mg/kg	< 0.5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2
2-Naphthylamine	0.5	mg/kg	< 0.5
2-Nitroaniline	0.5	mg/kg	< 0.5
2-Nitrophenol	1.0	mg/kg	< 1
2-Picoline	0.5	mg/kg	< 0.5
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5
2.4-Dinitrotoluene	0.5	mg/kg	< 0.5
2.4.5-Trichlorophenol	1.0	mg/kg	< 1
2.4.6-Trichlorophenol	1.0	mg/kg	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5
2.6-Dinitrotoluene	0.5	mg/kg	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4
3-Methylcholanthrene	0.5	mg/kg	< 0.5
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5
4-Aminobiphenyl	0.5	mg/kg	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5
4-Chloro-3-methylphenol	1.0	mg/kg	< 1
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5
4-Nitrophenol	5	mg/kg	< 5
4.4'-DDD	0.5	mg/kg	< 0.5
4.4'-DDE	0.5	ma/ka	< 0.5
4.4'-DDT	0.5	mg/kg	< 0.5
7.12-Dimethylbenz(a)anthracene	0.5	ma/ka	< 0.5
a-BHC	0.5	mg/kg	< 0.5
Acenaphthene	0.5	ma/ka	< 0.5
Acenaphthylene	0.5	ma/ka	< 0.5
Acetophenone	0.5	mg/kg	< 0.5
Aldrin	0.5	ma/ka	< 0.5
Aniline	0.5	ma/ka	< 0.5
Anthracene	0.5	ma/ka	< 0.5
b-BHC	0.5	ma/ka	< 0.5
Benz(a)anthracene	0.5	ma/ka	< 0.5
Benzo(a)pyrene	0.5	ma/ka	< 0.5
Benzo(b)fluoranthene	0.5	ma/ka	< 0.5
Benzo(a, h, i)pervlene	0.5	ma/ka	< 0.5
Benzo(k)fluoranthene	0.5	ma/ka	< 0.5
Benzyl chloride	0.5	ma/ka	< 0.5
Bis(2-chloroethoxy)methane	0.5	ma/ka	< 0.5
Bis(2-chloroisopropyl)ether	0.5	ma/ka	< 0.5
Bis(2-ethylbexyl)phthalate	0.5	ma/ka	0.6
Butyl benzyl obthalate	0.5	ma/ka	< 0.5
Chrysene	0.5	ma/ka	< 0.5
d-BHC	0.5	ma/ka	~ 0.5
	0.5	ma/ka	~ 0.5
Di-n-octyl phthalate	0.5	ma/ka	~ 0.5
	0.0	_ mg/kg	~ 0.5



Client Sample ID			QC02/110413
Sample Matrix			Soil
Eurofins mgt Sample No.			M13-Ap15452
Date Sampled			Apr 11, 2013
Test/Reference	LOR	Unit	
Semivolatile Organics			
Dibenz(a,h)anthracene	0.5	ma/ka	< 0.5
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5
Dibenzofuran	0.5	mg/kg	< 0.5
Dieldrin	0.5	mg/kg	< 0.5
Diethyl phthalate	0.5	mg/kg	< 0.5
Dimethyl phthalate	0.5	mg/kg	< 0.5
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5
Diphenylamine	0.5	mg/kg	< 0.5
Endosulfan I	0.5	mg/kg	< 0.5
Endosulfan II	0.5	mg/kg	< 0.5
Endosulfan sulphate	0.5	mg/kg	< 0.5
Endrin	0.5	mg/kg	< 0.5
Endrin aldehyde	0.5	mg/kg	< 0.5
Endrin ketone	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
g-BHC (Lindane)	0.5	mg/kg	< 0.5
Heptachlor	0.5	mg/kg	< 0.5
Heptachlor epoxide	0.5	mg/kg	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5
Hexachloroethane	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Methoxychlor	0.5	mg/kg	< 0.5
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Nitrobenzene	0.5	mg/kg	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	< 0.5
Pentachlorophenol	1.0	mg/kg	< 1
Phenanthrene	0.5	mg/kg	< 0.5
Phenol	0.5	mg/kg	< 0.5
Pronamide	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Trifluralin	0.5	mg/kg	< 0.5
Phenol-d6 (surr.)	1	%	72
Nitrobenzene-d5 (surr.)	1	%	73
2-Fluorobiphenyl (surr.)	1	%	75
2.4.6-Tribromophenol (surr.)	1	%	65
Heavy Metals			
Arsenic	2	mg/kg	< 2
Barium	10	mg/kg	24
Beryllium	2	mg/kg	< 2
	0.4	mg/kg	0.9
	5	mg/kg	67
Copait	5	mg/kg	5.6



Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled			QC02/110413 Soil M13-Ap15452 Apr 11, 2013
Test/Reference	LOR	Unit	
Heavy Metals			
Copper	5	mg/kg	6.2
Lead	5	mg/kg	18
Manganese	5	mg/kg	61
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	10
Vanadium	10	mg/kg	180
Zinc	5	mg/kg	7.3
% Moisture	0.1	%	7.2



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Apr 19, 2013	14 Day
- Method: TRH C6-C36 - MGT 100A			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Melbourne	Apr 19, 2013	14 Day
- Method: LM-LTM-ORG2010			
Volatile Organics	Melbourne	Apr 19, 2013	14 Day
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS			
Semivolatile Organics	Melbourne	Apr 19, 2013	14 Day
- Method: USEPA 8270 Semivolatile Organics			
Metals M13	Melbourne	Apr 19, 2013	28 Day
- Method: USEPA 6010/6020 Heavy Metals & USEPA 7470/71 Mercury			
% Moisture	Melbourne	Apr 19, 2013	14 Day

- Method: Method 102 - ANZECC - % Moisture

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ofir	
euro	

Eurofins | mgt Client Manager: Natalie Krasselt **Brisbane** 1/21 Smallwood Place Murarie QLD 4172 Phone: +61 7 3902 4600 NATA # 1261 Site # 20794 Apr 26, 2013 5 Day Maria De Los Reyes Apr 18, 2013 2:11 PM Sydney Unit F6, Building F 16 Mars Road NSW 2096 Lane Cove West NSW 2096 Phone : +61 2 9900 8400 NATA # 1261 Sile # 18217 Priority: Contact Name: Received: Due:
 Melbourne
 3-5 Kingston Town Close

 3-5 Kingston Town Close
 Oakleigh VIC 3166

 Phone : +613 8564 5000
 NATA # 1261

 NATA # 1261
 Site # 14271
 web : www.mgtlabmark.com.au 9888 0100 9808 3511 376257 То ABN – 50 005 085 521 e.mail : enviro@mgtlabmark.com.au Order No.: Report #: Phone: Fax: Me Vo Se % Building 2, 154 Highbury Road Cardno Lane Piper Pty Ltd FISKVILLE 212163.3 Burwood VIC 3125 Company Name: Address: Client Job No.:

tal Recoverable Hydrocarbons		×					Х
etals M13		Х					Х
latile Organics		×					×
mivolatile Organics		×					×
Moisture		×					×
						Matrix LAB ID	M13-Ap15452
		271				Matrix	Soil
Sample Detail	onducted	site # 1254 & 142	# 18217	.e # 20794		Sampling Time	
	ere analysis is co	oratory - NATA S	tory - NATA Site	atory - NATA Sit	atory	Sample Date	Apr 11. 2013
	Laboratory whe	Melbourne Lab	Sydney Laborat	Brisbane Labor	External Labors	Sample ID	QC02/110413

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Eurofins | mgt Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil results are reported on a dry basis, unless otherwise stated.
- 3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
- 4. Results are uncorrected for matrix spikes or surrogate recoveries.
- 5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

**NOTE: pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram	mg/I: milligrams per litre
ug/I: micrograms per litre	ppm: Parts per million
ppb: Parts per billion	%: Percentage
org/100ml: Organisms per 100 millilitres	NTU: Units
MPN/100ml · Most Probable Number of organisms per 100 millilitres	

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands.
	In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environment Protection Authority
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. Organochlorine Pesticide analysis where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxophene is not added to the Spike.
- 5. Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- 6. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.



Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
Method Blank									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions TRH MGT 100A	I C6-C36 -								
TRH C6-C9	mg/kg	< 20			20	Pass			
TRH C10-C14	mg/kg	< 20			20	Pass			
TRH C15-C28	mg/kg	< 50			50	Pass			
TRH C29-C36	mg/kg	< 50			50	Pass			
Method Blank									
Volatile Organics USEPA 8260 - MGT 350A Volatile Organics	by GCMS								
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass			
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass			
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass			
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass			
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass			
1.1.2.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass			
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass			
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass			
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass			
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass			
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass			
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass			
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass			
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass			
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass			
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass			
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass			
2-Propanone (Acetone)	mg/kg	< 0.05			0.05	Pass			
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass			
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass			
Allyl chloride	mg/kg	< 0.05			0.05	Pass			
Benzene	mg/kg	< 0.1			0.1	Pass			
Bromobenzene	mg/kg	< 0.05			0.05	Pass			
Bromochloromethane	mg/kg	< 0.05			0.05	Pass			
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass			
Bromoform	mg/kg	< 0.05			0.05	Pass			
Bromomethane	mg/kg	< 0.05			0.05	Pass			
Carbon disulfide	mg/kg	< 0.05			0.05	Pass			
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass			
Chlorobenzene	mg/kg	< 0.05			0.05	Pass			
Chloroethane	mg/kg	< 0.05			0.05	Pass			
Chloroform	mg/kg	< 0.05			0.05	Pass			
Chloromethane	mg/kg	< 0.05			0.05	Pass			
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass			
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass			
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass			
Dibromomethane	mg/kg	< 0.05			0.05	Pass			
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass			
Ethylbenzene	mg/kg	< 0.1			0.1	Pass			
Iodomethane	mg/kg	< 0.05			0.05	Pass			
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass			
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass			
Methylene Chloride	mg/kg	< 0.05			0.05	Pass			
o-Xylene	mg/kg	< 0.1			0.1	Pass			
Styrene	mg/kg	< 0.05			0.05	Pass			



Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Tetrachloroethene	mg/kg	< 0.05		0.05	Pass	
Toluene	mg/kg	< 0.1		0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05		0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05		0.05	Pass	
Trichloroethene	mg/kg	< 0.05		0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05		0.05	Pass	
Vinyl chloride	mg/kg	< 0.05		0.05	Pass	
Xylenes - Total	mg/kg	< 0.3		0.3	Pass	
Method Blank						
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fraction LTM-ORG2010	s LM-					
Naphthalene	mg/kg	< 0.5		0.5	Pass	
TRH C6-C10	mg/kg	< 20		20	Pass	
TRH >C10-C16	mg/kg	< 50		50	Pass	
TRH >C16-C34	mg/kg	< 100		100	Pass	
TRH >C34-C40	mg/kg	< 100		100	Pass	
Method Blank		r	l	r		
Semivolatile Organics USEPA 8270 Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	mg/kg	< 5		5	Pass	
1-Chloronaphthalene	mg/kg	< 0.5		0.5	Pass	
1-Naphthylamine	mg/kg	< 0.5		0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.2.3-Trichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.2.3.4-Tetrachlorobenzene	mg/kg	< 0.5		 0.5	Pass	
1.2.3.5-Tetrachlorobenzene	mg/kg	< 0.5		 0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5		 0.5	Pass	
1.2.4.5-Tetrachlorobenzene	mg/kg	< 0.5		 0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.3.5-Trichlorobenzene	mg/kg	< 0.5		 0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
2-Chloronaphthalene	mg/kg	< 0.5		0.5	Pass	
2-Chlorophenol	mg/kg	< 0.5		0.5	Pass	
2-Methylnaphthalene	mg/kg	< 0.5		0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2		0.2	Pass	
2-Naphthylamine	mg/kg	< 0.5		0.5	Pass	
2-Nitroaniline	mg/kg	< 0.5		0.5	Pass	
2-Nitrophenol	mg/kg	< 1		1.0	Pass	
2-Picoline	mg/kg	< 0.5		0.5	Pass	
2.3.4.6-Tetrachlorophenol	mg/kg	< 0.5		0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5		0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5		5	Pass	
2.4-Dinitrotoluene	mg/kg	< 0.5		0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1		1.0	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1		1.0	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
2.6-Dinitrotoluene	mg/kg	< 0.5		0.5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4		0.4	Pass	
3-Methylcholanthrene	mg/kg	< 0.5		0.5	Pass	
3.3'-Dichlorobenzidine	mg/kg	< 0.5		0.5	Pass	
4-Aminobiphenyl	mg/kg	< 0.5		 0.5	Pass	
4-Bromophenyl phenyl ether	mg/kg	< 0.5		 0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1		1.0	Pass	
4-Chlorophenyl phenyl ether	mg/kg	< 0.5		0.5	Pass	
4-Nitrophenol	mg/kg	< 5		5	Pass	



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDD	mg/kg	< 0.5	0.5	Pass	
4.4'-DDE	mg/kg	< 0.5	0.5	Pass	
4.4'-DDT	mg/kg	< 0.5	0.5	Pass	
7.12-Dimethylbenz(a)anthracene	mg/kg	< 0.5	0.5	Pass	
a-BHC	mg/kg	< 0.5	0.5	Pass	
Acenaphthene	mg/kg	< 0.5	0.5	Pass	
Acenaphthylene	mg/kg	< 0.5	0.5	Pass	
Acetophenone	mg/kg	< 0.5	0.5	Pass	
Aldrin	mg/kg	< 0.5	0.5	Pass	
Aniline	mg/kg	< 0.5	0.5	Pass	
Anthracene	mg/kg	< 0.5	0.5	Pass	
b-BHC	mg/kg	< 0.5	0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5	0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5	0.5	Pass	
Benzo(b)fluoranthene	mg/kg	< 0.5	0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5	0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5	0.5	Pass	
Benzyl chloride	mg/kg	< 0.5	0.5	Pass	
Bis(2-chloroethoxy)methane	mg/kg	< 0.5	0.5	Pass	
Bis(2-chloroisopropyl)ether	mg/kg	< 0.5	0.5	Pass	
Bis(2-ethylhexyl)phthalate	mg/kg	< 0.5	0.5	Pass	
Butyl benzyl phthalate	mg/kg	< 0.5	0.5	Pass	
Chrysene	mg/kg	< 0.5	0.5	Pass	
d-BHC	mg/kg	< 0.5	0.5	Pass	
Di-n-butyl phthalate	mg/kg	< 0.5	0.5	Pass	
Di-n-octyl phthalate	mg/kg	< 0.5	0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5	0.5	Pass	
Dibenz(a.j)acridine	mg/kg	< 0.5	0.5	Pass	
Dibenzofuran	mg/kg	< 0.5	0.5	Pass	
Dieldrin	mg/kg	< 0.5	0.5	Pass	
Diethyl phthalate	mg/kg	< 0.5	0.5	Pass	
Dimethyl phthalate	mg/kg	< 0.5	0.5	Pass	
Dimethylaminoazobenzene	mg/kg	< 0.5	0.5	Pass	
Diphenylamine	mg/kg	< 0.5	0.5	Pass	
Endosulfan I	mg/kg	< 0.5	0.5	Pass	
Endosulfan II	mg/kg	< 0.5	0.5	Pass	
Endosulfan sulphate	mg/kg	< 0.5	0.5	Pass	
Endrin	mg/kg	< 0.5	0.5	Pass	
Endrin aldehyde	mg/kg	< 0.5	0.5	Pass	
Endrin ketone	mg/kg	< 0.5	0.5	Pass	
Fluoranthene	mg/kg	< 0.5	0.5	Pass	
Fluorene	mg/kg	< 0.5	0.5	Pass	
g-BHC (Lindane)	mg/kg	< 0.5	0.5	Pass	
Heptachlor	mg/kg	< 0.5	0.5	Pass	
Heptachlor epoxide	mg/kg	< 0.5	0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5	0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5	0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 0.5	0.5	Pass	
Hexachloroethane	mg/kg	< 0.5	0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5	0.5	Pass	
Methoxychlor	mg/kg	< 0.5	0.5	Pass	
N-Nitrosodibutylamine	mg/kg	< 0.5	0.5	Pass	
N-Nitrosodipropylamine	mg/kg	< 0.5	0.5	Pass	
N-Nitrosopiperidine	mg/kg	< 0.5	0.5	Pass	
Naphthalene	mg/kg	< 0.5	0.5	Pass	



Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Nitrobenzene	mg/kg	< 0.5		0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5		0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5		0.5	Pass	
Pentachlorophenol	mg/kg	< 1		1.0	Pass	
Phenanthrene	mg/kg	< 0.5		0.5	Pass	
Phenol	mg/kg	< 0.5		0.5	Pass	
Pronamide	mg/kg	< 0.5		0.5	Pass	
Pyrene	mg/kg	< 0.5		0.5	Pass	
Trifluralin	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Metals M13 USEPA 6010/6020 Heavy Metals & USEPA 7470/7	1 Mercury					
Arsenic	mg/kg	< 2		2	Pass	
Barium	mg/kg	< 10		10	Pass	
Beryllium	mg/kg	< 2		2	Pass	
Cadmium	mg/kg	< 0.4		0.4	Pass	
Chromium	mg/kg	< 5		5	Pass	
Cobalt	mg/kg	< 5		5	Pass	
Copper	mg/kg	< 5		5	Pass	
Lead	mg/kg	< 5		5	Pass	
Manganese	mg/kg	< 5		5	Pass	
Mercurv	ma/ka	< 0.1		0.1	Pass	
Nickel	ma/ka	< 5		5	Pass	
Vanadium	ma/ka	< 10		10	Pass	[]
Zinc	ma/ka	< 5		5	Pass	[]
LCS - % Recovery					1 400	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions TRF MGT 100A	I C6-C36 -					
TRH C6-C9	%	110		70-130	Pass	
LCS - % Recovery						
Volatile Organics USEPA 8260 - MGT 350A Volatile Organics	by GCMS					
1.1-Dichloroethene	%	93		70-130	Pass	
1.1.1-Trichloroethane	%	92		70-130	Pass	
1.2-Dichloroethane	%	104		70-130	Pass	
Benzene	%	99		70-130	Pass	
Carbon Tetrachloride	%	87		70-130	Pass	
Ethylbenzene	%	110		70-130	Pass	
m&p-Xylenes	%	124		70-130	Pass	
Toluene	%	113		70-130	Pass	
Trichloroethene	%	88		70-130	Pass	
Xylenes - Total	%	123		70-130	Pass	
LCS - % Recovery				•		
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fraction	s LM-					
TRH C6-C10	%	115		70-130	Pass	
LCS - % Recovery				•		
Semivolatile Organics USEPA 8270 Semivolatile Organics						
1.2.4-Trichlorobenzene	%	76		70-130	Pass	
2-Chlorophenol	%	87		30-130	Pass	
4-Chloro-3-methylphenol	%	78		30-130	Pass	
4-Nitrophenol	%	49		30-130	Pass	
Acenaphthene	%	81		70-130	Pass	
Pentachlorophenol	%	30		30-130	Pass	
Phenol	%	87		30-130	Pase	
Pyrene	%	70		70-130	Pase	
	70	10	<u> </u>	10100	1 435	



Test			Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Metals M13 USEPA 6010/6020 Heav	vy Metals & USEP	A 7470/7	1 Mercury				
Arsenic			%	87	80-120	Pass	
Barium			%	113	80-120	Pass	
Beryllium			%	103	80-120	Pass	
Cadmium			%	100	80-120	Pass	
Chromium			%	103	80-120	Pass	
Cobalt			%	100	80-120	Pass	
Copper			%	108	80-120	Pass	
Lead			%	102	80-120	Pass	
Manganese			%	105	80-120	Pass	
Mercury			%	105	75-125	Pass	
Nickel			%	102	80-120	Pass	
Vanadium			%	100	80-120	Pass	
Zinc			%	96	80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance	Pass Limits	Qualifying Code
Spike - % Recovery							
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1			
TRH C6-C9	M13-Ap17025	NCP	%	88	70-130	Pass	
TBH C10-C14	M13-Ap15903	NCP	%	125	70-130	Pass	
Spike - % Recovery			,,,		10.00	1 400	
Volatile Organics				Result 1			
1.1-Dichloroethene	M13-Ap17025	NCP	%	94	70-130	Pass	
1 1 1-Trichloroethane	M13-Ap17025	NCP	%	91	70-130	Pass	
1 2-Dichlorobenzene	M13-Ap17025	NCP	%	108	70-130	Pass	
1.2-Dichloroethane	M13-Ap17025	NCP	%	98	70-130	Pass	
Benzene	M13-Ap17025	NCP	/0	01 01	70-130	Pass	
Carbon Tetrachloride	M13-Ap17025	NCP	%	84	70-130	Pass	
Ethylbenzene	M13-Ap17025	NCP	/0	70	70-130	Pass	
m&n-Xylenes	M13-Ap17025	NCP	%	94	70-130	Pass	
o-Xylene	M13-Ap17025	NCP	%	86	70-130	Pass	
Toluene	M13-Ap17025	NCP	%	85	70-130	Pass	
Trichloroethene	M13-Ap17025	NCP	%	80	70-130	Pass	
Xylenes - Total	M13-Ap17025	NCP	%	91	70-130	Pass	
Spike - % Recovery	111077p17020	1101	70	01	10100	1 400	
Total Recoverable Hydrocarbons -	Draft 2010 NEPM	Fraction	\$	Result 1	1		
TRH C6-C10	M13-Ap17025	NCP	%	88	70-130	Pass	
TRH >C10-C16	M13-Ap15903	NCP	%	122	70-130	Pass	
Spike - % Recovery	- WHO 7 (p10000	1101	70	122	10100	1 400	
Semivolatile Organics				Result 1	1		
1.2.4-Trichlorobenzene	M13-Ap12426	NCP	%	86	70-130	Pass	
1 4-Dichlorobenzene	M13-Ap12426	NCP	%	89	70-130	Pass	
2-Chlorophenol	M13-Ap12426	NCP	%	86	30-130	Pass	
2 4-Dinitrotoluene	M13-Ap12426	NCP	%	70	70-130	Pass	
4-Chloro-3-methylphenol	M13-Ap12426	NCP	%	75	30-130	Pass	
4-Nitrophenol	M13-Ap12426	NCP	%	43	30-130	Pass	
Acenaphthene	M13-Ap12426	NCP	%	91	70-130	Pass	
N-Nitrosodipropylamine	M13-Ap12426	NCP	%	82	70-130	Pass	
Pentachlorophenol	M13-An12426	NCP	%	67	30-130	Pass	
Phenol	M13-An12426	NCP	%	89	30-130	Pass	
Pyrene	M13-An12426	NCP	%	95	70-130	Pass	
Spike - % Recovery							
Metals M13				Result 1			
Arsenic	M13-Ap15504	NCP	%	83	75-125	Pass	
Barium	M13-Ap15452	CP	%	94	75-125	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Beryllium	M13-Ap15452	CP	%	85			75-125	Pass	
Cadmium	M13-Ap15452	CP	%	87			75-125	Pass	
Chromium	M13-Ap15272	NCP	%	91			75-125	Pass	
Cobalt	M13-Ap15452	CP	%	80			75-125	Pass	
Copper	M13-Ap15452	CP	%	98			75-125	Pass	
Lead	M13-Ap15452	СР	%	87			75-125	Pass	
Manganese	M13-Ap15452	CP	%	85			75-125	Pass	
Mercury	M13-Ap15452	CP	%	91			70-130	Pass	
Nickel	M13-Ap12773	NCP	%	80			75-125	Pass	
Vanadium	M13-Ap15272	NCP	%	89			75-125	Pass	
Zinc	M13-Ap15272	NCP	%	111			75-125	Pass	
Taat	Lab Commis ID	QA	Unite	Desult 4			Acceptance	Pass	Qualifving
Test	Lab Sample ID	Source	Units	Result 1			Limits	Limits	Code
Duplicate							r		
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C6-C9	M13-Ap14893	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M13-Ap15903	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M13-Ap15903	NCP	mg/kg	520	460	13	30%	Pass	
TRH C29-C36	M13-Ap15903	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dibromoethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	M13-Ap14893	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
1.2-Dichloroethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Propanone (Acetone)	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Allyl chloride	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Benzene	M13-Ap14893	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	M13-Ap14893	NCP	ma/ka	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	M13-Ap14893	NCP	mg/ka	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	M13-Ap14893	NCP	mg/ka	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	M13-Ap14893	NCP	ma/ka	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	M13-Ap14893	NCP	ma/ka	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	M13-Ap14893	NCP	ma/ka	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	M13-Ap14893	NCP	mg/ka	< 0.05	< 0.05	<1	30%	Pass	



Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
cis-1.3-Dichloropropene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dichlorodifluoromethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Ethylbenzene	M13-Ap14893	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
lodomethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
m&p-Xylenes	M13-Ap14893	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
o-Xylene	M13-Ap14893	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Styrene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toluene	M13-Ap14893	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	M13-Ap14893	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Xylenes - Total	M13-Ap14893	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate							1		
Total Recoverable Hydrocarbons -	Draft 2010 NEPM	Fraction	s	Result 1	Result 2	RPD			
Naphthalene	M13-Ap14893	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M13-Ap14893	NCP	ma/ka	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M13-Ap15903	NCP	ma/ka	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M13-Ap15903	NCP	ma/ka	490	430	14	30%	Pass	
TRH >C34-C40	M13-Ap15903	NCP	ma/ka	< 100	< 100	<1	30%	Pass	
Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
Semivolatile Organics 2-Methyl-4.6-dinitrophenol	M13-Ap12426	NCP	ma/ka	Result 1	Result 2	RPD <1	30%	Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene	M13-Ap12426 M13-Ap12426	NCP NCP	mg/kg mg/kg	Result 1 < 5 < 0.5	Result 2 < 5 < 0.5	RPD <1 <1	30% 30%	Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine	M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP	mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1 <1 <1	30% 30% 30%	Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5 < 0.5	RPD <1 <1 <1 <1 <1	30% 30% 30%	Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5 < 0.5 < 0.5	RPD <1 <1 <1 <1 <1 <1 <1	30% 30% 30% 30%	Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4-Trichlorobenzene 1.2.4-5-Tetrachlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4-5-Tetrachlorobenzene 1.3-Dichlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4.5-Tetrachlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3.5-Trichlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4.5-Tetrachlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.4.5-Tetrachlorobenzene 1.2.4.5-Tetrachlorobenzene 1.3-Dichlorobenzene 1.3.5-Trichlorobenzene 1.4-Dichlorobenzene 2-Chloronaphthalene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4.5-Tetrachlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4.5-Tetrachlorobenzene 1.3-Dichlorobenzene 1.3-5-Trichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-Methylnaphthalene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4.5-Tetrachlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-Methylnaphthalene 2-Methylnaphthalene	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4.5-Tetrachlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-Methylphenol (o-Cresol) 2-Naphthylamine	M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Trichlorobenzene 1.3-Trichlorobenzene 1.3-Trichlorobenzene 1.3-Dichlorobenzene 2.4.5-Tetrachlorobenzene 1.3-Dichlorobenzene 2.Chlorophenol 2-Methylnaphthalene 2-Methylphenol (o-Cresol) 2-Naphthylamine 2-Nitroaniline	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5 < 0.5 < 0.5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3.5-Trichlorobenzene 1.3-Dichlorobenzene 2.4.5-Tetrachlorobenzene 1.3-Dichlorobenzene 2.Chloronaphthalene 2-Chloronaphthalene 2-Methylnaphthalene 2-Methylphenol (o-Cresol) 2-Naphthylamine 2-Nitroaniline 2-Nitrophenol	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.5-Tetrachlorobenzene 1.3-Dichlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 2.4.5-Tetrachlorobenzene 1.3.5-Trichlorobenzene 2.Chloronaphthalene 2-Chlorophenol 2-Methylnaphthalene 2-Methylphenol (o-Cresol) 2-Naphthylamine 2-Nitrophenol 2-Nitrophenol	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.4-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-5-Trichlorobenzene 1.4-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-Methylphenol (o-Cresol) 2-Naphthylamine 2-Nitroaniline 2-Nitrophenol 2-Picoline 2.3.4-6-Tetrachlorophenol	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.4-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 2.4-Trichlorobenzene 2.4-Dichlorobenzene 2Chloronaphthalene 2-Chlorophenol 2-Nethylnaphthalene 2-Nethylphenol (o-Cresol) 2-Naphthylamine 2-Nitroaniline 2-Nitrophenol 2-Picoline 2.3.4.6-Tetrachlorophenol 2 4-Dichlorophenol	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-5-Trithorobenzene 1.3-5-Trichlorobenzene 1.4-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-Methylphenol (o-Cresol) 2-Naphthylamine 2-Nitroaniline 2.Nitrophenol 2.3.4.6-Tetrachlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5	Result 2 < 5 < 0.5 < 0.5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.3.5-Tetrachlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 1.4-Dichlorobenzene 2-Chloronaphthalene 2-Chlorophenol 2-Methylphenol (o-Cresol) 2-Naphthylamine 2-Nitroaniline 2.3.4.6-Tetrachlorophenol 2.Nitrophenol 2-Nitrophenol 2.4-Dichlorophenol 2.3.4.6-Tetrachlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5	Result 2 < 5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.3.5-Tetrachlorobenzene 1.3.5-Tetrachlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 2.Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene 2-Methylphenol (o-Cresol) 2-Naphthylamine 2-Nitroaniline 2.3.4.6-Tetrachlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2-Nitrophenol 2-Nitrophenol 2-Nitrophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Result 1 < 5	Result 2 < 5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	
Semivolatile Organics 2-Methyl-4.6-dinitrophenol 1-Chloronaphthalene 1-Naphthylamine 1.2-Dichlorobenzene 1.2.3-Trichlorobenzene 1.2.3.4-Tetrachlorobenzene 1.2.3.5-Tetrachlorobenzene 1.2.4-Trichlorobenzene 1.2.4-Trichlorobenzene 1.3.5-Tetrachlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 1.3.5-Trichlorobenzene 2.4.5-Tetrachlorobenzene 2.Chloronaphthalene 2-Chloronaphthalene 2-Chloronaphthalene 2-Nethylphenol (o-Cresol) 2-Naphthylamine 2-Nitrophenol 2-Picoline 2.3.4.6-Tetrachlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2.4-Dichlorophenol 2.4-Dinitrophenol 2.4-Dinitrophenol 2.4-Dinitrotoluene 2.4 5-Trichlorophenol	M13-Ap12426 M13-Ap12426	NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP	mg/kg mg/kg	Result 1 < 5	Result 2 < 5	RPD <1	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass Pass Pass	



Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2.4.6-Trichlorophenol	M13-Ap12426	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.6-Dinitrotoluene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M13-Ap12426	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
3-Methylcholanthrene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3.3'-Dichlorobenzidine	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Aminobiphenyl	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Bromophenyl phenyl ether	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M13-Ap12426	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
4-Chlorophenyl phenyl ether	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Nitrophenol	M13-Ap12426	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
4.4'-DDD	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDE	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDT	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
7.12-Dimethylbenz(a)anthracene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-BHC	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acetophenone	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aniline	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-BHC	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Benzyl chloride	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroethoxy)methane	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroisopropyl)ether	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-ethylhexyl)phthalate	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Butyl benzyl phthalate	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
d-BHC	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-butyl phthalate	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Di-n-octyl phthalate	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.j)acridine	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenzofuran	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diethyl phthalate	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethyl phthalate	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethylaminoazobenzene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diphenylamine	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	M13-Ap12426	NCP	mg/ka	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M13-Ap12426	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M13-Ap12426	NCP	mg/ka	< 0.5	< 0.5	<1	30%	Pass	
g-BHC (Lindane)	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	



Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
Heptachlor	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor epoxide	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobutadiene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorocyclopentadiene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachloroethane	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodibutylamine	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodipropylamine	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosopiperidine	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Nitrobenzene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorobenzene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachloronitrobenzene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorophenol	M13-Ap12426	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Phenanthrene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenol	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pronamide	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trifluralin	M13-Ap12426	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M13			Result 1	Result 2	RPD				
Arsenic	M13-Ap15452	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Barium	M13-Ap15452	CP	mg/kg	24	23	4.0	30%	Pass	
Beryllium	M13-Ap15452	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	M13-Ap15452	CP	mg/kg	0.9	0.8	22	30%	Pass	
Chromium	M13-Ap15452	CP	mg/kg	67	63	7.0	30%	Pass	
Cobalt	M13-Ap15452	CP	mg/kg	5.6	< 5	19	30%	Pass	
Copper	M13-Ap15452	CP	mg/kg	6.2	6.4	4.0	30%	Pass	
Lead	M13-Ap15452	CP	mg/kg	18	16	17	30%	Pass	
Manganese	M13-Ap15452	CP	mg/kg	61	51	17	30%	Pass	
Mercury	M13-Ap15452	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M13-Ap15452	CP	mg/kg	10	8.0	25	30%	Pass	
Vanadium	M13-Ap15452	CP	mg/kg	180	160	8.0	30%	Pass	
Zinc	M13-Ap15452	CP	mg/kg	7.3	7.2	2.0	30%	Pass	


mgt

Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

CodeDescription601The LORs have been raised due to matrix interferenceN01F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles
(Purge & Trap analysis).N01Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have
been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed
all QAQC acceptance criteria, and are entirely technically valid.N04F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX

Authorised By

 Natalie Krasselt
 Client Services

 Stacey Jenkins
 Senior Analyst-Organic (VIC)

 Carroll Lee
 Senior Analyst-Volatile (VIC)

 Emily Rosenberg
 Senior Analyst-Metal (VIC)

Glenn Jackson Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofies [ng] shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofies [ng] be liable for consequential damages including, but not limited to, kat precedent or consequential admages including, but not be reported execution to the reported execution to the reported execution to the reported execution.

Data Quality Review Fire Training College, Fiskville, Vic

This appendix reviews the uality Assurance (A) and uality Control (C) documentation. uality Assurance encompasses the actions, procedures, checks and decisions undertaken to ensure sample integrity and representativeness, as well as the reliability and accuracy of analysis results. The A documentation should also include an indication of the Data uality Objectives sought in relation to each significant action, test or process involved in the assessment.

C activities measure the effectiveness of the A procedures by undertaking testing and comparing results to previously established objectives. C work will include the internal laboratory testing as well as results of C samples submitted such as trip blanks and duplicates. The quality of the information and/or data is deemed satisfactory when the C results demonstrate that agreed objectives have been met.

The A/ C is part of the data validation exercise. The findings are summarised below:

QA/QC Aspects	Evidence & Evaluation				
	QA Documentation				
	The buried drum investigation was carried out in accordance with the proposed scope of works, as documented in the proposal (212163.3Proposal01.1 and 212163.3Variation01.1) issued to the Client.				
Project uality Plan/Work Plan and Data uality Objectives	A quality control program was implemented during the Investigation and the quality assurance procedures used have been documented in the report. In addition, a health and safety plan was also included as part of the report.				
	The buried drum investigation was carried out in accordance with the Job Safety Analysis (JSA) and Occupational Health and Safety (OHS) plan for the site. A detailed work plan for the site assessment works was also provided, which included details of the soil validation phase of work.				
	The Data uality Objectives were expressed in terms of the purpose of the assessment and the relevant assessment criteria.				
	Data Representativeness				
Use of Composites	No composites were used during the investigation.				
Holding Times	Chain of custody and laboratory reports provided evidence of holding times. All holding times were in conformance with Table 4 in AS4482.1-2005.				
Background samples	No offsite soil samples were collected, as the scope of the assessment was limited to targeted soil sampling.				
Verification of field procedures	The methodology conducted during this investigation is documented in the body of the report, and was generally in conformance with the work plan and the requirements of the field work standard practice.				

QA/QC Aspects	Evidence & Evaluation
	Data Precision & Accuracy
C Testing – Blind Replicates (Primary Lab)	Soil Acceptance Criteria: RPD 50% Soil Samples Analysed: 35 Blind Replicate Samples Analysed: 4 Blind Replicate Analyte Pairs: 232 Number of Analyte Pairs Exceeding Criteria: 0 Percentage of Analyte Pairs Exceeding Criteria: 0 There were no RPD exceedances. RPD calculations were not calculated for a large number of analyte pairs as either or both of the pairs were less than the limit of reporting. The RPD calculations are present in Appendix B of the ESA.
C Testing – Split Replicates (Secondary Lab)	Soil Acceptance Criteria: RPD 50% Soil Samples Analysed: 35 Blind Replicate Samples Analysed: 1 Blind Replicate Analyte Pairs: 135 Number of Analyte Pairs Exceeding Criteria: 0 Percentage of Analyte Pairs Exceeding Criteria: 0 There were no RPD exceedances. RPD calculations were not calculated for a large number of analyte pairs as either or both of the pairs were less than the limit of reporting. The RPD calculations are present in Appendix B of the ESA. Secondary samples for the first soil sampling event were not considered necessary as the primary purpose of this investigation was to gather visual evidence of the presence or absence of possible buried drums, therefore should not significantly affect the outcome of the buried drums investigation.
Trip Blanks	Five trip blanks were collected and placed on hold pending primary sample results. All soil samples analysed for SVOC and VOC were reported below LOR, indicating that no cross contamination occurred during transit.
Laboratory Internal C	 Evidence of the laboratories' internal C testing is present and complete in the reports. ALS (Primary) and MGT (Secondary) performed internal C with adequate testing and satisfactory results. The A/ C program comprised of a total of 116 matrix spikes, 842 individual method blanks and 1112 laboratory duplicates, and 833 laboratory control spikes (LCS). All laboratory blanks reported below LOR. 6 analytes reported RPDs above the accepted 30% exceedance level. RPD exceedances are confined to metals (barium, manganese, nickel, zinc and beryllium) and 1-23-Dibromo-3-chloropropane. The level of exceedance is considered insignificant and probably related to sample heterogeneity and the low analyte concentrations of analyte pairs. 110 analytes reported recoveries outside the D. L range for LCS of 70-
	130%. However out of the 110 analytes, 8 analytes (less than 1%) reported

QA/QC Aspects	Evidence & Evaluation
	LCS recoveries slightly outside the acceptable recovery range provided by the laboratories suggesting minimal analyte loss during analysis.
	17 Matrix spikes reported recoveries outside the D I acceptable recovery range of 70-130%. However all matrix spikes fall within the Matrix spikes range provided by the laboratory.
	The exceedances do not significantly affect the outcome of the buried drums investigation due to minor concentration of contamination in the primary samples.
Laboratory Method Detection Limit	Laboratory reports indicate the method detection limits (LORs) were generally lower than the respective assessment criteria.
NATA endorsement of laboratory reports	Laboratory reports from ALS and MGT were stamped with the NATA endorsement stamp and signature.
Calibration of Field	All equipment used during the soil investigation was calibrated by the supplier prior to use.
Equipment	The equipment calibration certificates are provided in Appendix G.
Decontamination and Equipment Blanks	Six rinsate blanks were collected and put on hold. The rinsate blanks were not analysed given that soil samples were collected directly into sample jars from either from the disposable plastic push tubes or from the centre of the excavator bucket. Therefore the possibility of cross contamination was minimal.
	Data Comparability
Standard Procedures	Fieldwork procedures are detailed in the reports and are comparable for each phase of assessment.
ualified Personnel	The reports have indicated that the staff involved in managing and reviewing the project and those involved in fieldwork are qualified personnel.
Volatile Losses	There is no evidence of significant volatile losses, as there were no significant PID readings reported and laboratory reported no detectable concentrations of SVOC and VOC.
Sample Integrity	Field Chain of Custody/Laboratory request forms can be found in the reports.
	Data Completeness
Completeness of test	The scope of work undertaken was generally consistent with that required to characterise the site as set out in the Work Plan.
program	Field splits for the first soil sampling event were not considered to be required for the current scope of work and thus were not analysed.
Validity of Data Set	The data quality review indicates no significant systematic errors in the data collection process and therefore, the data set used as the basis of the assessment is considered valid and complete.

Appendix G 13 Pages

Fieldwork Record Sheets

Calibration Certificates Fieldwork Daily Report



Ashurst

Gas Calibration Certificate

Instrument MX6 Serial No. 12041QS-006 Sensors OFCH



Air-Met Scientific Pty Ltd 1300 137 067

Item	Test	Pass		Com	ments	
Battery	Charge Condition	1				
	Fuses	1				
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Capacity	1				
	Recharge OK?	1				
Switch/keypad	Operation	1				
Display	Intensity	1				
	Operation (segments)	1		0		
Grill Filter	Condition	1				
	Seal	1				
Pump	Operation	1				
	Filter	1				
	Flow	1	and a second			
	Valves, Diaphragm	1				
PCB	Condition	1				
Connectors	Condition	1			page - 0	And Date
			Low	High	TWA	STEL
Sensor	Oxygen	1	19.50%	23.50%	N/A	N/A
	LEL	1	5.00%	10.00%	N/A	N/A
	CO	1	90ppm	400ppm	30ppm	60ppm
	H2S	1	30ppm	50ppm	10ppm	15ppm
	an an de anna l'er anna l'er anna e anna an anna anna anna anna an	1		101	1 1	1111
	Serif and another for the first state of the first	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			-41	
Alarms	Beeper	1				and the second sec
	Settings	1				
Software	Version					
Datalogger	Operation				and a second	
Download	Operation	and a second			and an and a second	
Other tests:					and a second	

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode	Aspirated mode				
Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No	Instrument Reading
02		20.90%	NATA	Fresh Air	20.90%
LEL		50% LEL Methane	NATA	1026ME	50% LEL Methane
CO		96 ppm	NATA	1026ME	96 ppm
H2S		26 ppm	NATA	1026ME	26 ppm
		1			

Gillian Cromie

Calibrated by:

Calibration date:

31/07/2012

Next calibration due:

27/01/2013

(dro



EQUIPMENT QUALITY REPORT MiniRae 3000 PID: 373

The following equipment has been issued as follows:

M

Equipment is clean and filters replaced

Pump, lamp and battery voltage check

Cal Parameter	lbaum Results Standard	Result	Alam Settings	Gal C	tas Expiry Date
Fresh Air	0ppm	6 O ppm	Hi Alarm 100ppm		
Isobutylene	100ppm*	100 ppm	Lo Alarm 25ppm	aufus	12014
Correction				0	

Date: 03 - 29 - 2013Calibrated by: -

*For quality control purposes Hydro Terra can supply gas calibration data

Please check that the following items are received and all items are returned. Please clean equipment before retuning. A minimum \$20 service/repair charge applies to any unclean or damaged items.

fem	HT Id No	Sent	Returned
MiniRae 3000 PID (plus yellow rubber boot)	273	1	
Duick guide sheet	×/A	V	
Manual	N/A	V	
nlet probe	N/A	~	
Spare water trap filter(s) Qty	N/A	/	
Charger 240/110V to 12V 500mA	N/A		
Spare alkaline battery compartment with batteries 5 V's	N/A	V,	
Carry case	N/A	V	
Test and tag requested			
Date: 05-09-3011		5	

2 Wingrove Street • Alphington • VIC• 3078 • Australia Telephone: 03 9490 1422 • Fax: 03 9490 1452 Email: <u>info@hydroterra.com.au</u> Internet: <u>www.hydroterra.com.au</u>

HydroTerra

Y

EQUIPMENT QUALITY REPORT MiniRae 3000 PID:

The following equipment has been issued as follows:

1

NOTES:

Equipment is clean and filters replaced

Pump, lamp and battery voltage check

E Č	alibration Results Standard	Result	Alarm Settings Cal Gas Expiry Date
Fresh Air	Oppm	ppm	Hi Alarm 100ppm
Isobutylene	100ppm*	100 ppm	Lo Alarm 25ppm 1900 105 2014
Correction			
Date: Calibrated by:	19/9/12 - Hogh		

*For quality control purposes HydroTerra can supply gas calibration data

Please check that the following items are received and all items are returned. Please clean equipment before retuning. A minimum S20 service/repair charge applies to any unclean or damaged items.

The same of the second state of	HIT Id No.	Sent	Returned
MiniPae 3000 PID (plus vellow rubber boot)	902		
Quick guide sheet	N/A	1	
Manual	N/A	/	
Inlet probe	N/A	1	
Spare water tran filter(s) Oty 1	N/A	V	
Charger 240/110V to 12V 500mA	. N/A	1	
Spare alkaline battery compartment with batteries /	50V's N/A	1	
Spare arkanne battery comparatient man batterie e	N/A	1	
Test and tag requested	1		
Equipment voltage	e-delivery Calibration te	est Complete	
Date: 19/9/1/2			
Checked by: Reg h		Jan and	
HT JOB NO: 67-39 CI	JENTS REF: P/O No:	212163	3.3
			/

2 Wingrove Street • Alphington • VIC• 3078 • Australia Telephone: 03 9490 1422 • Fax: 03 9490 1452 Email: <u>info@hydroterra.com.au</u> Internet: <u>www.hydroterra.com.au</u> **ThermoFisher** SCIENTIFIC

Pass?

P

RENTALS

Equipment Report - MINIRAE 2000 PID

This Gas Meter has been performance checked and calibrated as follows:

Lamp	Compound	Concentration	Zero	Span	Traceability Lot #	Pass?
10.6 eV	Isobutylene	106 ppm	0.0 ppm	105 ppm	60503	ď

Alarm Limits

High	100 ppm
Low	50 ppm

Bump Test Date **Target Gas** 10 06 ppm 3

> Performance check (pump, lamp, sensor) Data cleared Filters checked

Reading

105 ppm

☑ Battery Status _____ ☑ 10 minutes test complete

Spare battery status (Min 5.5 volts)

	Tag No:	00	8	603
	Valid to:	9	7	13 -
Date:	10th	A	pn	(. 2013.
Signed		to	2	e

Please check that the following items are received and that all items are cleaned and decontaminated before return. A minimum \$30 cleaning / service / repair charge may be applied to any unclean or damaged items. Items not returned will be billed for at the full replacement cost.

Sent	Returned	ltem CCV
2		MiniRAE 2000 PID / Operational Check / Battery Status
P.		Lamp 10-6eV, Compound Set to: Sobuly lace Clfactor:
7	Ē	Protective yellow rubber boot
		Inlet probe (attached to PID)
E/	Ē	Spare water trap filter(s) Qty 3
DX I	Ē	Charger 240V to 12V 500mA
Z	Ē	Instruction Manual behind foam on the lid of case
Ī	Ē	Quick Guide Sheet behind foam on the lid of case "
R	Ē	Spare Alkaline Battery Compartment with batteries
EV.	Ē	Inline Moisture trap Filter Guide Laminated
- n-		Calibration regulator & tubing (optional)
	<u> </u>	Data cable and Software CD (optional)
D	Ē	Carry Case
H	H	Check to confirm electrical safety (tag must be valid)
		······································
Datas //	0/11/13	

Date:

Sin	ned	.1	0
oigi	icu	1.	-

TFS Reference	34926.	Return Date: / /
Customer Reference	212163.3	Return Time:
Equipment ID	PIDMIN2B	Condition on return:
Equipment Serial No.		

"We do more than give you great equipment ... We give you great solutions!"

Phone: /Ere	o Coll) 1300 735 295	Fax: (Free Call) 1800 675 123	Er	nall: RentalsAU@Thermofisher.com
Melbourne Branch 5 Carlbbean Drive,	Sydney Branch Level 1, 4 Talavera Road, North Rade 2113	Adelaide Branch 27 Beulah Road, Norwood, South Australia 5067	Brisbane Branch Unit 2/5 Ross St Newstead 4006	Perth Branch 121 Beringarra Ave Malaga WA 6090
Issue 7	Noningeo zina	Nov 12		G0553



Project Details	
Project Name: Buried Drums and Target soil Investigation	Job Number: 212163.1
Site Address: 4549 Geelong Ballan Rd Fiskville	PP/PM: ALP/ LMR
Client Company/Contact: CFA	Date: 6/7/202
Persons Present: MCD	Notes By: MCD

Site Activities	Yes	Comment/Details
PESA Site Inspection / Interview personnel		
Inspect or supervise bores/test pits/ observe sampling/ remediation works	/	BURIED DRUMS
Audit fieldwork methods QA/QC		
Soil sampling - test pit / soil bore / soil grab	~	3 soils around 2 ust
Soil gas / LFG investigation		
Groundwater bore construction / GME / Groundwater levels / sampling		
Geotechnical Investigation		
Compaction Control Tests		
Field consumables used? (if so what?)		These must be charged via timesheet
Photographs (Digital)		
Supplementary notes attached	· · · · · · ·	
Weather Conditions & Temperature	T: 17 °C	strong winds, slight rain doudy
- SIGN IN TO RECEPTION - GU THEOREH INDUCTION - SEARCH FOR THREE AND SITE: DSPEAK TO PAD JASSE SHOW AND UST WEAPILO - STAKET WORK C 91157 Q WEAR HANGERLY, AND CLEAR	, TOOL 150 D MARTY SSOR FO NOS AND POSSIBI S SITE	NO MEETING AND JSH (08:4) NO MEETING AND JSH (08:4) NO MEETING ON SITE ACCESS. DRUM LOCATION I LE DRUM WEATING SITE FOR SOCULCES
- LUNCH @ 12:30. - DMM LEALES SITE @ 1.00		
· CARDOO ANS LEAVE SITE @	2.00	



Sec. 9.

Integrated Management System Procedure Manual QF3.01 – Fieldwork Daily Report

QF3.01 - Fieldwork Daily Report

Project Details	
Project Name: Buried Drums and Target soil Investigation	Job Number: 212163.1
Site Address: 4549 Geelong Ballan Rd Fiskville	PP/PM: ALP/ LMR
Client Company/Contact: CFA	Date: 5/09/2012
Persons Present: MCD CARDNO AUS (RAMA + BENS)	Notes By: MCD

	Yes	Comment/Details
PESA Site Inspection / Interview personnel		
Inspect or supervise bores/test pits/ observe sampling/ remediation works	1	
Audit fieldwork methods QA/QC		
Soil sampling - test pit / soil bore / soil grab		
Soil gas / LFG investigation		
Groundwater bore construction / GME / Groundwater levels / sampling		
Geotechnical Investigation		
Compaction Control Tests		
Field consumables used? (if so what?)		These must be charged via timesheet
Photographs (Digital)		
Supplementary notes attached		
Weather Conditions & Temperature	T: [7 °C	Sunny wihely
· STAR-(ED NOD @ 110	LEA.	



Project'Details	
Project Name: Buried Drums and Target soil Investigation	Job Number: 212163.1
Site Address: 4549 Geelong Ballan Rd Fiskville	PP/PM: ALP/ LMR
Client Company/Contact: CFA	Date: 7/9/2012
Persons Present: MCD and	Notes By: MCD

Site Activities	Yes	Gomment/Details
PESA Site Inspection / Interview personnel		
Inspect or supervise bores/test pits/ observe sampling/ remediation works	1	
Audit fieldwork methods QA/QC		
Soil sampling test pit / soil bore / soil grab	1	
Soil gas / LFG investigation		
Groundwater bore construction / GME / Groundwater levels / sampling		
Geotechnical Investigation		
Compaction Control Tests		
Field consumables used? (if so what?)		These must be charged via timesheet
Photographs (Digital)		
Supplementary notes attached		
Weather Conditions & Temperature	T: 🔌 °C	windy. Parchy rain.
- Begun Q Site 2, 1 other site 1, 2 and Ran reach locations. - Contacted pumps info states another to email - Grass unoble to email - to location informated while - Emisted site 1 TP1 - Commenced site 1 TP1 - Commenced site 1 . 5 C - Contacted site 1 . 5 C - Contacted site 1 . 5 C - Contacted site 1 . 5 C	C 9:6 S 10 S 10 S 10 S 10 Vale S Vale S Vale S Vale S S 00 S 100 S 100 S 100 S 100 S 100 S 100	 Alter inspecting See if excavator in of situation, Aug in other si



Project Details		
Project Name: CFA fiskville	Job Number: &12163 - 3	
Site Address: Fisker Ile	PP/PM: DMM SD	
Client Company/Contact: LFA	Date: 25 9/12	
Persons Present: SD, Bdb.K, Aus	Notes By: SD	

Site Activities	Yes	Comment/Details
PESA Site Inspection / Interview personnel	-	
Inspect or supervise bores/test pits/ observe sampling/ remediation works	~	
Audit fieldwork methods QA/QC	/	
Soil sampling - test pit soil bore / soil grab		
Soil gas / LFG investigation		
Groundwater bore construction / GME / Groundwater levels / sampling	-	
Geotechnical Investigation	-	
Compaction Control Tests	-	
Field consumables used? (if so what?)		These must be charged via timesheet
Photographs (Digital)	1	
Supplementary notes attached		
Weather Conditions & Temperature	T: 16 °C	

Notes / Sketch Plan:

Weather - Sunny, slightly windy it and chilly.

-> Meet Rus, Bob (metal detector) onsite - 8:05 mm -> wait at reception. -> Qus - excavator driver onsite - 9:00 am

Excavate golf coarse and simple

Excavate near helicopter pad any sample.

Left site at 4:10pm.



Project Details	
Project Name: CFA	Job Number: 212163-3
Site Address: Fisterille	PP/PM: UMR/DOMM
Client Company/Contact: Martin	Date: 26 9/12
Persons Present: SO, Bob:K, Aus	Notes By: SO

Site Activities	Yes	Comment/Details
PESA Site Inspection / Interview personnel	-	
Inspect or supervise bores/test pits/ observe sampling/ remediation works	1	
Audit fieldwork methods QA/QC	-	
Soil sampling test pit? soil bore / soil grab	~	
Soil gas / LFG investigation	-	
Groundwater bore construction / GME / Groundwater levels / sampling	-	
Geotechnical Investigation	-	
Compaction Control Tests	-	
Field consumables used? (if so what?)	/	These must be charged via timesheet
Photographs (Digital)	1	
Supplementary notes attached	1	
Weather Conditions & Temperature	T: 22°C	

Notes / Sketch Plan:

Weather - Sunny and windy Arrival on site - 6:20am Ans & Bob on site - 8:35am Start at helicoplex area - 8:55mm Move to area near road - 11.30 am Left site at 2:00pm N



Project Details	
Job Number: 212163.3	
PP/PM: LJM/ DMM	
Date: 1 /04/2013	
Notes By: MCD	

	Yes	CommenuDelalis
PESA Site Inspection / Interview personnel		
Inspect or supervise bores/test pits/ observe sampling/ remediation works		
Audit fieldwork methods QA/QC		
Soil sampling - test pit / soil bore / soil grab		execution of 25 rest pits
Soil gas / LFG investigation		
Groundwater bore construction / GME / Groundwater levels / sampling		
Geotechnical Investigation		
Compaction Control Tests		m started in teacher
Field consumables used? (if so what?)		These must be charged via antesided
Photographs (Digital)		
Supplementary notes attached		
Weather Conditions & Temperature	T: 17°C	toagy, RAIN, COLD
on site		U Š
- signed in @ 9:04, reno member @ 9:10 Went Attachment I (Buried dru - PW- Birief with Aus. o	Hevars, throug throug ths inve ind Exc	with Butch-CCF4 staff h Induction, JS4 ond estigation 7.
- signed in @ 9:04, rend member @ 9:10 Went Attachment I (Buried dru - FW Brief with Aus o - Marked Locations,	Heraus , Hhrang Mh 3 inve unal Ex. Aus clea	with Butch-CCF4 staff h Induction, JSA and estigation? courts Ins locations
- signed in @ 9:04, rend member @ 9:10 Went Attachment J (Buried dru - FW Birief with Aus. d - Marked Locations, * Surveyor pegs loca @ 9:30	Herans, Hirang ang inve and Exc Aus clea Hions c	with Butch (CF4 staff h Induction JSA and Estigation) could be ars locators and starts surveying

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Project Details	
Project Name: Targeted soil Contamination Assessment , Fiskville	Job Number: 212163.3
Site Address: 4549 Geelong Ballan Road Fiskville	PP/PM: LJM/ DMM
Client Company/Contact: Ashurts	Date: 12/04/2013
Persons Present: MCD	Notes By: MCD

	Yes	Comment/Details
PESA Site Inspection / Interview personnel		
Inspect or supervise bores/test pits/ observe sampling/ remediation works		
Audit fieldwork methods QA/QC	_	
Soil sampling - test pit / soil bore / soil grab	×	Execuction of test pits
Soil gas / LFG investigation		
Groundwater bore construction / GME / Groundwater levels / sampling		
Geotechnical Investigation	ш. —	
Compaction Control Tests		
Field consumables used? (if so what?)		These must be charged via timesheet
Photographs (Digital)		
Supplementary notes attached		
Weather Conditions & Temperature	T: 19 °C	Supple
- CONTACT DMM @ - LUNCH @ 12:30 - CONTINUE TEST PI-	& 7:51 8:20, UP1 pm.	AM. DATE OF FW
- START TP - A3Q-16 - COUTACT DMM @ - LUNCH @ 12:30 - COUTINGE TEST PI- - FINISH TP @ S (MARTIN) @ 5:10 - COUTACT DMM @ - LEAUE SITE @	2 7:15 8:20, UP PM TTING 2 :00, SPE WHILE E 5:15 T	AM. DATE OF FW 1:00 TAK TO SITE CONTACT BRCAUMOR PACKS UP. O INFORM HIM JOB (MIET
- START TP - A3Q-16 - CONTACT DMM @ - LINCH @ 12:30 - CONTINUE TEST PI- - FINISH TP @ S (MARTIN) @ 5:10 - CONTACT DMM @ - LEALE SITE @ S - BACK @ MELR	e 7:5, up pm. TTING e 00, spe 00, spe 000, spe 00, spe 00 , spe 00, spe 00 , sp	AM. DATE OF FW 1:00 DAK TO SITE CONTACT BKCAUMOR PACKS UP. D INFORM HIM JOB COMLETI
- START TP - A3Q-16 - CONTACT DMM @ - UNICH @ 12:30 - CONTINUE TEST PI- - FINISH TP @ S (MARTIN') @ 5:10 - CONTACT DMM @ - LEALE SITE @ S - BACK @ MELB (27:5/8:20, uppm.TTING $2:00, spewhile 5:15 Th:3027:30$.	AM. DATE OF FW 100 AK TO SITE CONTACT BKCANATOR PACKS UP. O INFORM HIM JOB COMPETING
- START TP - A3Q-16 - CONTACT DMM @ - LINCH @ 12:30 - CONTINUE TEST PI- - FINISH TP @ S (MARTIN) @ 5:10 - CONTACT DMM @ - LEALE SITE @ S - BACK @ MELB (13/04/13	27:5 8:20, upp pm. TTING 2 $00, spe00, spe00, spe5:15$ Th 30 27:30.	AM. DATE OF FW 100 DAK TO SITE CONTACT DAK TO SITE CONTACT DAK TO SITE CONTACT DAK TO SITE CONTACT

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QF3.01 - Quality Control Sample Register

Project Details		
Project Name: CFA - Builed Drum I Avestigation	Job Number: 212163-3	
Site Address: Fiskerine	PP/PM: & UNR/DMM	
Client Company/Contact: CFA	Date: 26 912	
Persons Present: SD, AUS, Bub (meral detector)	Notes By: So	

Quality Control Requirements

Standard QC Sample Requirements (see Proposal for project specific details)		
Rinsate Blank:	1/day (even if only placed on hold)	
DI Water Blank:	1/day (even if only placed on hold)	
Blind Replicate (Primary List):	1 in 20 primary samples	
Split Replicate (Secondary List):	1 in 20 primary samples	
Labelling		

Samples to be labelled QC##_date where "##" is a numerical sequence commencing at 01 for each field event and date is the date of sampling in ddmmyyyy format (e.g. QC01_03112010)

Quality Control Sample Register		
QC Sample e.g. QC01_03112010	Primary Sample	Description
QCI	TPA1 18-0.5	Duplicate
QC2	TPA1 8-0.5	Triplicate
QC3	TPA2/2-0-5	Duplicate
gc4	TPAZ 2-0.5	Triplicate



QF3.01 – Quality Control Sample Register

Project Details	
Project Name: Targeted soil Contamination Assessment , Fiskville	Job Number: 212163.3
Site Address: 4549 Geelong Ballan Road Fiskville	PP/PM: LJM/ DMM
Client Company/Contact: Ashurts	Date: 11/04/2013
Persons Present: MCD	Notes By: MCD

Quality Control Requirements

Standard QC Sample Requirements (see Proposal for project specific details)

DI Water Blank:1/day (even if only placed on hold)Trip Blank:1/day or 1/esky (if volatiles are suspected or present at site)Blind Replicate (Primary List):1 in 20 primary samplesSplit Replicate (Secondary List):1 in 20 primary samples	Rinsate Blank:	1/day (even if only placed on hold)
Trip Blank:1/day or 1/esky (if volatiles are suspected or present at site)Blind Replicate (Primary List):1 in 20 primary samplesSplit Replicate (Secondary List):1 in 20 primary samples	DI Water Blank:	1/day (even if only placed on hold)
Blind Replicate (Primary List): 1 in 20 primary samples Split Replicate (Secondary List): 1 in 20 primary samples	Trip Blank:	1/day or 1/esky (if volatiles are suspected or present at site)
Split Replicate (Secondary List): 1 in 20 primary samples	Blind Replicate (Primary List):	1 in 20 primary samples
	Split Replicate (Secondary List):	1 in 20 primary samples

Labelling

Samples to be labelled QC##_date where "##" is a numerical sequence commencing at 01 for each field event and date is the date of sampling in ddmmyyyy format (e.g. QC01_03112010)

Quality Control Sample Register			
QC Sample e.g. QC01_03112010	Primary Sample	Description	Dl Water Batch Number
QC01/ 116413	-1P-A1-35/0	BLIDD SAMPLE (SOIL)	
QC02/ 110413	TP-A1-35%	SPLIT SAMPLE (SUL)	
QC03/ 116413	TP-A1-36/6	1 BUND SAMPLE (SOIL)	
QC04/ 110413	TP-41-36/t	I SPLIT SAMPLE (SOL)	
QC05/ 1264 13	TP-A30-10/0	BUND SAMPLE (SOL)	
QC06/ 120413	TP-A30-10/0	SPLIT SAMPLE (SDIG	
QC08/ 126415	1P-A30 -06/0	SPLITD SAMPLE (Sa)	
QC09/ 110413	1	RINSATE	
QC10/ 126413		KINSATE	
QC11/ 110413		TPIP BLANK	
OC12/120413		TPIP BLANK 1	
Q.C.13 /1241		TRIP BLANK	
QC07/120418	5 -1P-A30-6	(101 BUND: SAMPLE	
QUUT/MUNK	N	1 Stup S (Sen)	
1			

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Appendix H 3 Pages

Information About Environmental Reports



Ashurst

1. Introduction

This document explains the Environmental Site Assessment (ESA) process and the context that applies to the use of Environmental Reports issued by Cardno Lane Piper.

2. What is an ESA?

Environmental Site Assessments (ESA) are undertaken for a range of purposes, specific to the brief issued by the client in each case. The scope may include one or a combination of any of the following:

- □ A factual report of the condition of a portion of the site or one aspect of an entire site.
- □ Assessment of the contamination levels in soil to be removed from a site a waste classification assessment.
- □ Validation of the success of remediation of a site or a portion of a site.
- Provision of a professional opinion about the suitability of a site for one or more uses, in terms of its contamination status.

The scope of any ESA needs to be defined at the outset.

An ESA is not an Environmental Audit. Such audits are undertaken in accordance with the provisions of regulations enacted in various states of Australia, and are referred to as Site Audits in some jurisdictions. Statutory audits provide certification by EPA accredited auditors that a site is suitable for one or more uses. An ESA may provide similar advice but cannot be used in place of an audit if the latter is required by regulation in any instance. However in some circumstances and jurisdictions an ESA is sufficient to provide "environmental sign-off" of a site.

An ESA may be undertaken for due diligence purposes, to establish whether the site has been impacted to the extent that some beneficial uses of the site may be precluded. Due diligence audits in many cases may be completed as non-statutory Audits, although in some jurisdictions they can also be statutory audits, if defined as such at the outset.

3. The ESA Process

The Client generally initiates the ESA process by specifying a brief which identifies the specific objectives of the assessment. If not, it is the consultants' duty to so specify the ESA

In the case of an ESA to provide an opinion about the suitability of the site for use, it would be conducted in accordance with NEPM (Site Assessment). Such ESA would not commence until a thorough site history assessment (Phase 1 Assessment: to identify the potential for significant contamination at a site) is conducted. However, where the history is unclear, a broad screening of chemical parameters can be used to test environmental media. This normally includes a broad range of organic and inorganic compounds and elements, often referred to as an Environmental Screen.

(In the case of an ESA for a purpose other than to provide an opinion about the suitability of the site for use, it is not always necessary to undertake a Phase 1 assessment.)

The ESA requires sampling of soil at representative locations across the site. A NATA accredited laboratory performs the analysis of soil. It is impractical for all of the soil to be assessed. The ESA is often based on a statistical method of grid or random sampling, augmented by targeted sampling at locations known or suspected to be contaminated. Guidance on sampling strategy and density is provided in Australian Standard AS4482.1–2005. However, some considerable degree of judgement is still required in the application of any sampling and testing strategy. For example the blanket application of the "hot spot" method presented in this standard is often inappropriate given its limitations.

The field program also investigates the likelihood of contamination below the site surface. Field investigations must sample and test fill as well as the natural soils. If contamination is found then it is common for further work to be undertaken to characterise, to the extent practical, its vertical and horizontal extent. However, where fill is encountered and testing shows it to be uncontaminated, it must be realised that the heterogeneous nature of the material might mean that not all pockets of contaminated material can be detected using normal sampling regimes. EPA guidelines for auditors, that may be relevant for an ESA, indicate the need in all cases to consider the potential for groundwater contamination in any site. This does not mean all sites need to be drilled to sample groundwater, but it is most often the case. Most hydrogeological settings and groundwater conditions are complex and vary in space and time. The condition of groundwater is investigated to identify if any beneficial use or environmental value of groundwater is precluded due to contamination.

As previously stated for soil, all groundwater at the site cannot be tested. The environmental investigations are conducted in accordance with industry standards and guidelines (e.g. EPA Vic Pub 668). This provides a level of confidence that a sufficiently comprehensive assessment of the groundwater at the site is achieved.

Where an investigation shows that groundwater is polluted, consideration should be given to assessing the risks and the need for and practicality of any clean up.

4. Environmental Assessment Report

The ESA Report details the findings of the ESA. It provides summary information on the site definition, the reasons for the assessment and other relevant facts. It reviews the scope and quality of the site investigations, laboratory testing and data analyses undertaken. These reports also present a review of the contamination status of the site, the need for any further clean up, and an opinion on the suitability of the site for a range of beneficial uses and land uses such as "residential – low density", "commercial" etc, as appropriate.

However, as noted above, some ESA have a narrow scope such as for classification of waste soil for removal from site, and do not make conclusions on suitability of site for use.

The ESA Report generally includes copies of other documents and reports, necessary to support the assessment findings, presented as appendices. These can contain more detailed information than the body of the ESA Report. Care should be taken to also read the appended documents and the ESA report in full.

Cardno Lane Piper generally issues reports in electronic form (e-Report) on CD ROM. ESA Reports are issued in this format as Adobe AcrobatTM PDF files. However, a paper copy of the executive summary of the ESA Report is generally issued to the client, and others as required by the brief or by regulation.

5. Limitations of Environmental Assessment Report

The ESA Report is prepared in a manner that can be easily read by a lay person with a legitimate interest in the contamination status of the site, such as the site owner or occupier, EPA and Local Planning Authority. The ESA report is not intended for use by other parties or for other purposes. Anyone who uses the assessment report for purposes other than specified in the report, does so at their own risk.

The site should only be used for one or more of the beneficial uses and land uses identified in the ESA as suitable.

The conditions and qualifications may apply to the suitability of the site for use, and it is the responsibility of the Client to be cognizant of and accept these in accepting the report. Cardno Lane Piper are only responsible for the issuing of the ESA report but accepts no liability for the costs incurred in the implementation of ESA findings.

The ESA provides a "snapshot" of the site conditions at the time of the site investigation. Consequently, the report may not be valid at a later time if there has been any change to the contamination status of the site in that time. Verification of the status of the site may be required in cases where a significant time has elapsed, or site conditions have changed since the assessment and audit.

The ESA is necessarily limited by constraints such as time, cost and available information; although normal professional practice at the time has been applied with all due care to prepare the report. A necessary requirement of this process is the horizontal and vertical interpolation of data from discrete locations. However, site conditions are homogenous generally not and some discrepancies will occur between the actual and predicted results at locations not directly sampled. There is a risk that contamination may occur at the site and not be identified by a competent investigation and assessment. The approach adopted in sampling (a combination of statistically based grid and judgmental sampling) seeks to reduce, but cannot eliminate, this risk.

Where unexpected occurrences of contamination arise, subsequent to the issue of the ESA Report, Cardno Lane Piper should be permitted to make an interpretation of these facts in relation to the ESA Report findings. Consequently, the Client should inform Cardno Lane Piper and seek their opinion. Cardno Lane Piper accepts no liability for costs incurred due to such unexpected

T6.01 About ESA Reports

occurrences, given the inherent uncertainties in the assessment process.

Cardno Lane Piper uses information provided by other parties as the basis for the ESA, and reliance on this information is at the discretion of Cardno Lane Piper. However, however Cardno Lane Piper cannot guarantee any of the facts, findings or conclusions presented by other parties. Cardno Lane piper will not be liable for the use of information, provided by others that is subsequently found to be intentionally misleading.

The ESA Report is not and does not purport to be anything other than a contaminated land ESA. It is not a geotechnical report and bore logs reproduced are for interpretation of the likely distribution of contamination. They are not intended for geotechnical interpretations and may not be adequate for this purpose.

The ESA Report is not intended to be a comprehensive analysis of the presence and associated risk of asbestos in buildings and services. Where asbestos in buildings and services is known or likely, the report may only caution that an appropriately qualified person be engaged to undertake demolition to avoid contamination of the site.

Cardno Lane Piper Pty Ltd

1 July 2011