



Environment

Prepared for:  
NYSDEC  
Albany, NY

Prepared by:  
AECOM  
Latham, NY  
60273289  
September 2016

# Groundwater Monitoring Report Post-ISCO Quarterly Sampling Event May 31, 2016

**Korkay, Inc.**  
**Site No. 518014**  
**Work Assignment No. D004445-20.1**





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## Acronyms and Abbreviations

DO	Dissolved Oxygen
ISCO	In Situ Chemical Oxidation
µg/L	Micrograms per Liter
Korkay	Korkay, Incorporated
AWQS	New York State Ambient Water Quality Standards and Guidance Values
NTUs	Nephelometric Turbidity Units
NYSDEC	New York State Department of Conservation
NYSDOH	New York State Department of Health
ORC-A®	Oxygen Release Compound – Advanced®
ORP	Oxidation Reduction Potential
SMP	Site Management Plan
SVOCs	Semivolatile Organic Compound
TVOCs	Total Volatile Organic Compound
VOCs	Volatile Organic Compounds

## 1.0 Introduction

### 1.1 General

This summary report documents the groundwater sampling event conducted in May 2016 at the Korkay Inc. Site (Site No. 518014), located at 70 West Main Street in the Village of Broadalbin, Fulton County, New York (Figure 1). The sampling was conducted for Work Assignment No. D004445-20.1 of the State Superfund Standby Contract between the New York State Department of Environmental Conservation (NYSDEC) and AECOM Technical Services Northeast, Inc. (AECOM).

### 1.2 Background and Objectives

Korkay, Incorporated (Korkay) was a supplier of detergents, solvents, and degreasers to the automotive industry from 1969 to 1980. Releases of chemicals at the Site contaminated soil and groundwater. Remedial actions undertaken by the NYSDEC and New York State Department of Health (NYSDOH) to date have been effective in reducing Site contamination, although subsurface soil and groundwater impacts still exist.

Groundwater investigations were conducted at the Site in July 2014 and August 2015 to further delineate and characterize on-Site and off-Site dissolved-phase groundwater impacts. In September 2015, 8 new monitoring wells (MW-17 through MW-24) were installed to aid in monitoring the nature and extent of groundwater impacts on and off Site.

The most recent 5-quarter groundwater sampling event, which is required as part of the Site Management Plan (SMP) to evaluate groundwater quality trends through the Site management phase, was completed between October 12 and 15, 2015. All on-Site and off-Site groundwater monitoring wells (Figure 2) were sampled during the event. The results of that sampling documented the extent of the groundwater contaminant plume in the shallow aquifer. A copy of the isoconcentration contour map of total volatile organic compounds (TVOCs) detected in the shallow aquifer wells during the October 2015 sampling event is included as Figure 3.

A supplemental remedial action, consisting of in-situ chemical oxidation (ISCO) injection, was conducted at the Site between October 19 and 23, 2015. The purpose of the ISCO injection was to attempt to further remediate residual soil and groundwater contamination to meet the remedial goals established for the Site. The remediation included the installation of 95 injection points. The points were installed with a direct push Geoprobe® unit. The oxidant used was activated persulfate, specifically, PersulfOx® from Regenesis Remediation Services. This oxidant has been shown to effectively reduce VOC mass with limited oxidation of certain pesticides. PersulfOx® is a catalyzed persulfate which does not require any additional activation. The PersulfOx® was applied concurrently with oxygen release compound Advanced (ORC-A®), a product that provides a sustained release of oxygen which will allow for polishing of COCs through aerobic bioremediation.

This report presents and interprets analytical results for the groundwater sampling conducted on May 31, 2016, as well as results from previous post-ISCO injection quarterly sampling events. The sampling event represented the third of eight quarterly events to be conducted over a 2-year period to monitor and evaluate the effectiveness of the ISCO treatment. The quarterly monitoring program is scheduled to continue through the summer of 2017.

## 2.0 Groundwater Sampling

Post ISCO injection groundwater monitoring will take place for two years following treatment to assist in evaluating the effectiveness of the ISCO injection. The monitoring is performed in accordance with the approved ISCO Work Plan, dated August 8, 2015. The ISCO Work Plan requires that groundwater samples be collected on a quarterly basis from five on-site groundwater monitoring wells (i.e., ASW, MW-17, MW-18, MW-22 and MW-23). Based on the recommendation made in the report for the December 8, 2015 monitoring event, off-site downgradient well MW-21 was added to the monitoring network for subsequent events. Well locations are shown in Figure 2.

### 2.1 Groundwater Sampling Methodology

Prior to purging, groundwater levels were recorded in all wells on site. The water level meter was decontaminated using deionized water and a non-phosphate detergent between each well. The groundwater was then purged with a peristaltic pump and new polyethylene tubing from the wells to be sampled. The end of the dedicated tubing was placed at the center of each well screen. Purging was conducted using low-flow techniques so that disturbances in the well and changes in water level did not occur. Water was pumped continuously and flow-rate was recorded between each 3 to 5 minute interval.

Water quality parameters were recorded using a multi parameter meter with a flow through cell. The parameters were recorded every 3 to 5 minutes until readings indicated that the groundwater stabilized. These parameters monitored included turbidity, temperature, specific conductivity, dissolved oxygen, pH, and oxygen reduction potential (ORP). Stabilization was considered complete when three consecutive readings recorded levels within the following parameters:

- Turbidity - 10% for values greater than one Nephelometric Turbidity Units (NTU)
- DO - 10%
- Specific conductance - 3%
- Temperature - 3%
- pH -  $\pm 0.1$  unit
- ORP/Eh  $\pm 10$  millivolts

Following the collection of field parameter readings, a CHEMets® Model K-7870 field test kit was used to assess the presence and relative concentration in parts per million (ppm) of persulfate present in the purge water from each monitoring well. The test results were recorded along with the standard field parameter readings on the groundwater sampling forms (Appendix A).

The groundwater samples were then collected in the appropriate bottleware provided by NYSDEC's callout laboratory, TestAmerica, who conducted all the sample analyses. Each groundwater sample was analyzed for volatile organic compounds (VOCs) by USEPA Method 8260C, SVOCs by Method 8270D and organochlorine pesticides by Method 8081B. The laboratory analytical report is included in Appendix B.



## 3.0 Results

### 3.1 Groundwater Elevation and Flow

Water level measurements were obtained prior to sampling the wells. These depth-to-water measurements were converted to water table elevations using top-of-casing elevations surveyed in November 2015.

The groundwater table elevation data, provided in Table 1, was used to produce a water table contour map of the shallow aquifer, as presented on Figure 4. Groundwater flow in the shallow water-bearing zone is from northeast to southwest, as historically observed.

### 3.2 Analytical Results

The analytical results for the six wells sampled during the May 2016 quarterly groundwater sampling event are presented in Table 2. Results from the October 2015 5-quarter sampling event (pre-ISCO injection baseline event) and post-ISCO injection quarterly events to date are also included. The data compilation in Table 2 is provided to show baseline conditions prior to the ISCO treatment and the trends in results since the treatment.

In Table 2, concentrations above relevant New York State Ambient Water Quality Standards or guidance values (AWQS) are in a shaded cell with bold typeface for ease of identification. Bolded text alone indicates a detection of the compound above the method detection limit, but below the relevant AWQS. Table 2 also includes the field parameter readings for dissolved oxygen (DO) and oxidation-reduction potential (ORP), and the persulfate test kit results.

#### Volatile Organic Compounds

Chart 1 depicts the trend in the TVOC concentration in well ASW, a pre-existing well located in the former source area with the longest sample history of the wells being monitored. Chart 2 depicts TVOC trends in the four on-Site wells (MW-17, MW-18, MW-22 and MW-23) and off-Site well MW-21. The May 2016 VOC analytical results and TVOC data trends to date are discussed below.

- The TVOC concentration in upgradient well MW-17 (424 mg/L in the field duplicate sample) was an increase over the previous result (147.9 mg/L), but remains below the October 2015 baseline concentration (591.5 mg/L). Eight compounds were detected at concentrations above relevant AWQSs. Persulfate was measured at approximately 2.1 ppm, and there was essentially no DO measured in the well (0.1 mg/L). The data indicates that oxygen and persulfate levels are depleted and due to the lack of oxidation/biodegradation, rebound is occurring in the vicinity of this well.
- No VOCs were detected in well MW-18, located near the center of the Site, representing a continued significant decreasing trend since the December 2015 event (122.2 mg/L) and October 2015 baseline concentration (1,272.4 mg/L). The data indicates that the ISCO treatment has effectively reduced contaminant levels in this well. Persulfate (10 ppm) and DO (19 mg/L) levels remained slightly elevated in this well compared to the other wells that were sampled.

- The TVOC concentration in cross gradient well MW-22 (14.2 mg/L) decreased relative to the March 2016 result (45.9 mg/L). This represents a third consecutive event with continued decreasing concentrations relative to the October 2015 baseline concentration (108.3 mg/L). Only two compounds were detected with concentrations slightly above AWQs including 1,2,4-trimethylbenzene (5.9 mg/L) and 1,3,5-trimethylbenzene (5.2 mg/L). Persulfate and DO was measured at levels of 4 ppm and 2.5 mg/L, respectively, indicating some ISCO treatment chemical may still be present in the well that could further reduce contaminant levels in this area.
- The TVOC concentration in the former source area well ASW (3,505 mg/L) increased slightly from the March 2016 result (3,059 mg/L), and represented a continued increasing trend from the October 2015 baseline concentration (1,941 mg/L). Persulfate was measured at approximately 3.5 mg/L, which is also a slight decrease from the previous event and there was essentially no DO (0.2 mg/L) measured in the well. These readings indicate that oxygen levels in the vicinity of this well may be insufficient to support further reduction in contaminant mass.
- The TVOC concentration in well MW-23 (2,300.5 mg/L), located at the downgradient Site boundary, decreased moderately from the March 2016 event (3,586.9mg/L), although it was still greater than the October 2015 baseline result (521.9 mg/L). The field parameter test results indicate that persulfate (0.2 ppm) and DO (0.17 mg/L) are depleted in this well. As with well ASW, this data indicates that oxygen levels in the vicinity of this well may be insufficient to support further reduction in contaminant mass.
- The TVOC concentration in off-site downgradient well MW-21 (1.8 mg/L) represented a slight decrease from the March 2016 event (4.51 mg/L) and a continued significant decrease from the October 2015 baseline result (453 mg/L). The persulfate level (0.7 ppm) decreased slightly from the March event (2.5 ppm) and the DO level (3.7 mg/L) remained low.

#### Semi-Volatile Organic and Organochlorine Pesticides Compounds

As shown in Table 2, the May 2016 SVOC analytical results were generally similar to the previous quarterly sample results. Contaminants detected at concentrations above the relevant AWQS were reported for only one compound (naphthalene), and those exceedances were reported in only two wells (ASW and MW-23). Review of Table 2 shows that the SVOC concentration trends since October 2015 generally mimic the TVOC trends described above.

For the organochlorine pesticides sample results, only gamma-BHC (Lindane) in well MW-22 (0.22 mg/L) was detected above the AWQS. All other results were either non-detect or less than relevant AWQs. This generally marks an improving trend from the October 2015 baseline results.

## 4.0 Summary and Conclusions

From the review of the May 2016 sampling results along with the October 2015 baseline and subsequent post-ISCO injection results, the following observations with respect to groundwater contaminant trends are made:

- The data from MW-17 indicates that some rebound in TVOC concentration may be occurring in this upgradient area of the Site. This could be a result of depleted persulfate and DO levels and/or the potential for inflow of residual groundwater impacts from the northern Site periphery, outside the ISCO treatment area.
- TVOC concentrations continued to increase slightly in the former source area well ASW. The increase may be attributed to desorption of VOCs from the soil to the aqueous phase due to the ISCO injections. Concentrations decreased slightly in MW-23 at the downgradient site boundary, but remain well above AWQs. The levels of sodium persulfate and DO in these wells appear to be depleted, suggesting that further aerobic biodegradation is unlikely to occur in this highly impacted area of the Site.
- TVOC concentrations continued to decrease moderately to significantly near the center (MW-18) and western cross-gradient (MW-22) areas of the Site. In all likelihood, the concentration changes in these wells reflect the effects of the ISCO treatment in an area of the Site outside the main former source location, and where no significant residual soil contamination remains.
- Persulfate and DO levels in well in the center of the Site (MW-18) decreased somewhat from the March results, indicating there is probably insufficient amount of residual ISCO chemicals in this area to disperse with further downgradient to the more highly impacted source area (wells ASW and MW-23).
- The SVOC concentration trends in all wells sampled in the quarterly sampling events to date essentially mimic the TVOC trends. Therefore, there does not appear to be a need to continue to collect SVOC data during the remaining post-ISCO quarterly sampling events; the TVOC data trends alone will be adequate to monitor changes in contaminant levels.
- The organochlorine pesticide concentration trends have decreased in all wells sampled during the quarterly sampling events to date. Based on this, and considering that the contaminant trend analysis for the post-ISCO monitoring program is based primarily on the VOC data, it may be acceptable to discontinue pesticide analyses from the remaining quarterly events and continue the pesticide analysis for future annual (five-quarter) events only.

## 5.0 Recommendations

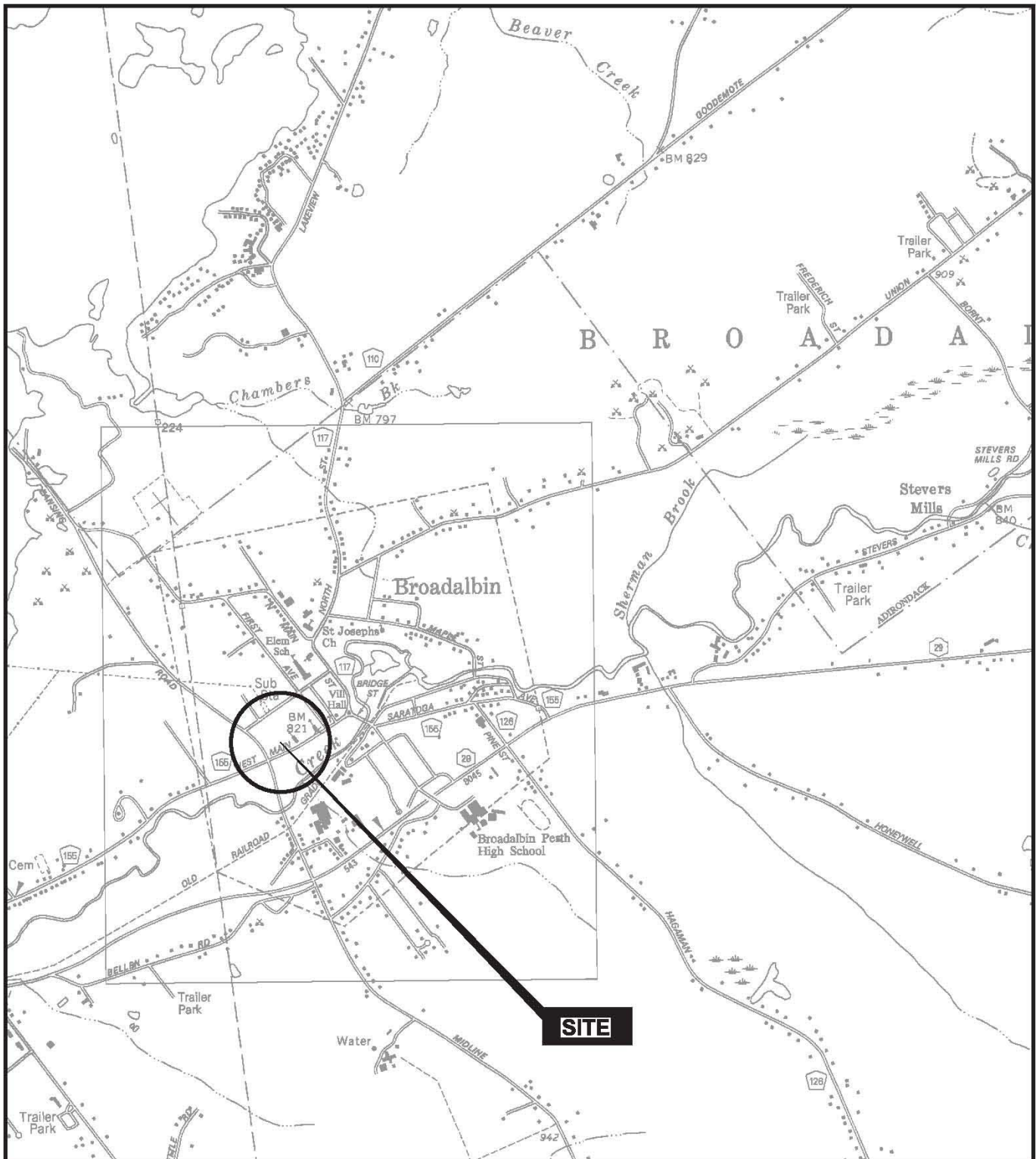
Based on the results of this monitoring event, and review of the TVOC trends to date, it is recommended that the 6 wells included in the present monitoring well sampling program (i.e., ASW, MW-17, MW-18, MW-21, MW-22 and MW-23) be unchanged for the next quarterly sampling event (September, 2016).

Changes in groundwater quality will continue to be monitored and evaluated for evidence of contaminant reduction during future quarterly sampling events. The review of changes in groundwater quality and additional recommendations will be provided as deemed necessary.

Based on the quarterly data generated to date, it appears that it would be acceptable to omit the SVOC and organochlorine pesticide sample analyses from the remaining quarterly post-ISCO sampling events.

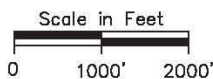
The level of active persulfate remaining in the injection area is unlikely to further reduce contaminant mass. Similarly, the amount of residual ORC in the injection area to promote aerobic degradation and reduce contaminant mass is low. Consideration should therefore be given to administering a second round of ISCO treatment, targeted on the residual hot spot areas of the Site.

## Figures



MAP REFERENCE: NYS DOT 7.5 MIN. QUADRANGLE  
 BROADALBIN SERIES

**PLAN**



**FIGURE 1**  
 SITE LOCATION PLAN  
 NYSDEC SITE ID: 5-18-014  
**KORKAY INC.**  
 70 WEST MAIN STREET  
 BROADALBIN, NEW YORK

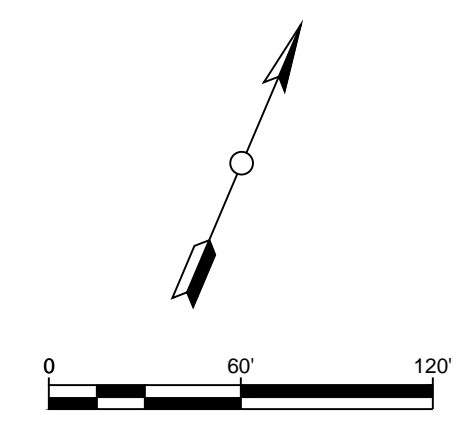
DATE: OCTOBER 2013

PROJECT NO.: 60273289



**LEGEND**

	SITE PROPERTY LINE
	PROPERTY LINE
	DEED DIVISION LINE
	CHAIN LINK FENCE LINE
	TOPOGRAPHY (1 FT.)
	CATCH BASIN
	UTILITY POLE
	LIGHT POLE
	SEWER MANHOLE
	WATER VALVE
	ELECTRIC METER
	GUY ANCHOR
	MW-18 ● MONITORING WELL



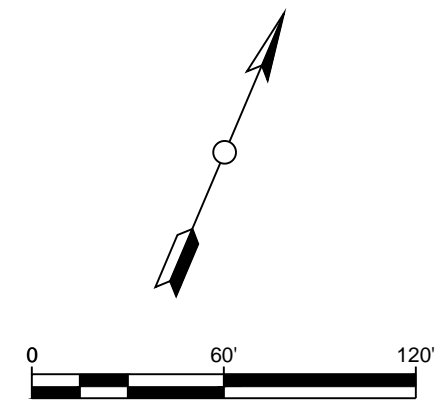
MAP REFERENCE:  
 MAPPING BASED ON A PLAN TITLED TOPOGRAPHIC SURVEY OF  
 NYSDEC INACTIVE HAZARDOUS WASTE SITE NO. 5-18-014  
 70 WEST MAIN STREET, BROADALBIN, NEW YORK  
 COUNTY OF FULTON, STATE OF NEW YORK BY, M J ENGINEERING,  
 AND LAND SURVEYING, P.C., DATED SEPTEMBER 10 2015, LAST REVISED  
 11/13/2015, INCLUDING ALL NOTES AND REFERENCES THEREIN.

Issue Status: DRAFT

EXISTING CONDITIONS



LEGEND	
	SITE PROPERTY LINE
	PROPERTY LINE
	DEED DIVISION LINE
	CHAIN LINK FENCE LINE
	TOPOGRAPHY (1 FT.)
	CATCH BASIN
	UTILITY POLE
	LIGHT POLE
	SEWER MANHOLE
	WATER VALVE
	ELECTRIC METER
	GUY ANCHOR
	MW-18 MONITORING WELL
	TOTAL VOC CONCENTRATION 5 ug/L TO 10 ug/L
	TOTAL VOC CONCENTRATION 10 ug/L TO 100 ug/L
	TOTAL VOC CONCENTRATION 100 ug/L TO 1,000 ug/L
	TOTAL VOC CONCENTRATION >1,000 ug/L



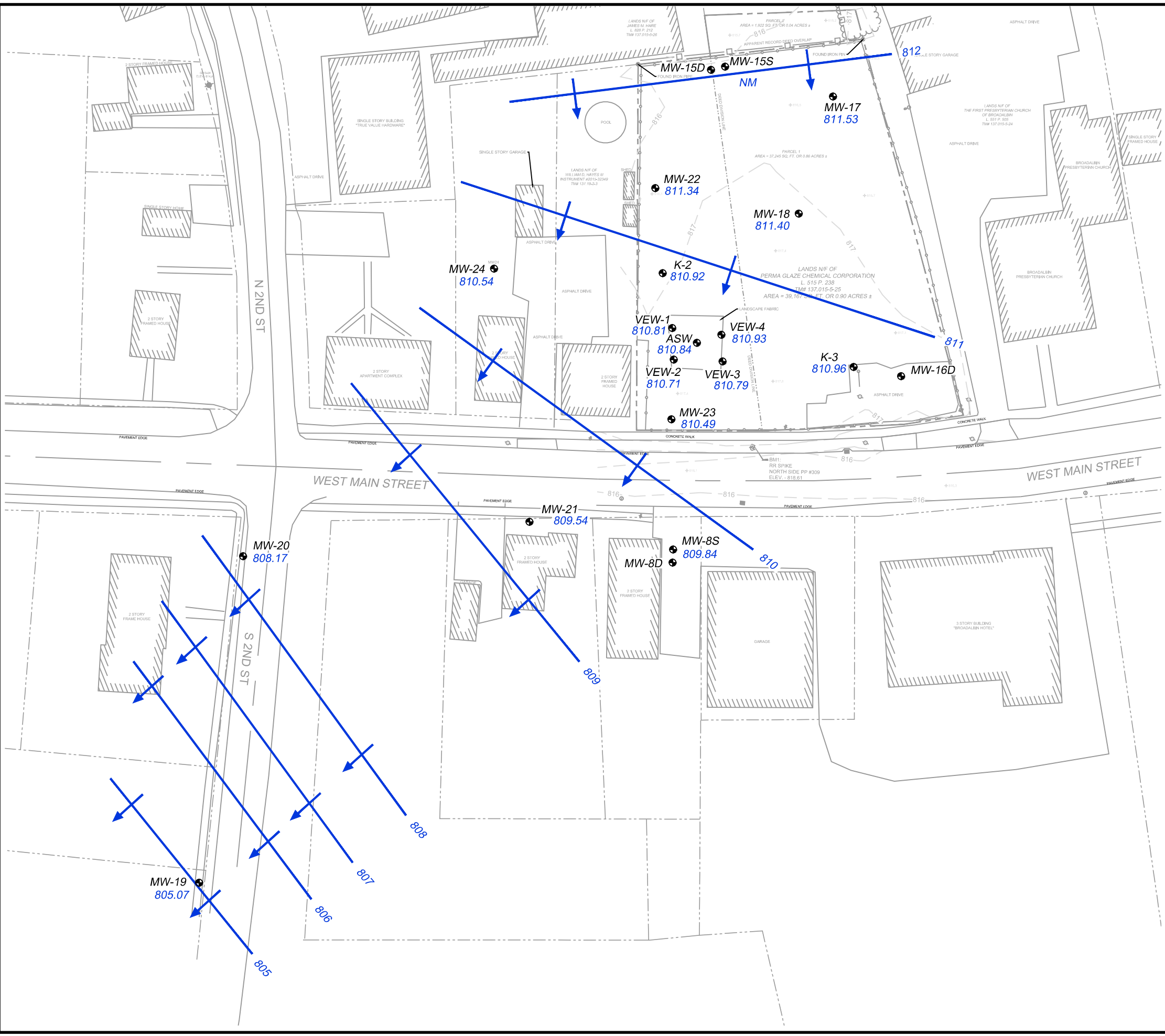
Issue Status: DRAFT

TOTAL VOC ISOCONCENTRATION  
CONTOUR MAP

OCTOBER 14, 2015

KORKAY INC.  
 NYSDEC SITE ID: 518014  
 BROADALBIN, NEW YORK  
 Project No.: 60273289 Date: JANUARY 2016





LEGEND	
	SITE PROPERTY LINE
	PROPERTY LINE
	DEED DIVISION LINE
	CHAIN LINK FENCE LINE
	TOPOGRAPHY (1 FT.)
	CATCH BASIN
	UTILITY POLE
	LIGHT POLE
	SEWER MANHOLE
	WATER VALVE
	ELECTRIC METER
	GUY ANCHOR
	MONITORING WELL
	GROUNDWATER ELEVATION (MAY 31, 2016)
	GROUNDWATER CONTOUR (MAY 31, 2016)
	APPROXIMATE GROUNDWATER FLOW DIRECTION
	NOT MEASURED

Issue Status: DRAFT

SHALLOW AQUIFER WATER TABLE  
 CONTOUR MAP  
 MAY 31, 2016

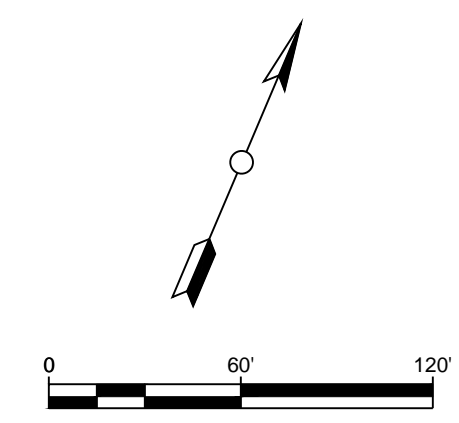
KORKAY INC.  
 NYSDEC SITE ID: 518014  
 BROADALBIN, NEW YORK  
 Project No.: 60273289 Date: JUNE 2016



**LEGEND**

- SITE PROPERTY LINE
- - - PROPERTY LINE
- - - DEED DIVISION LINE
- CHAIN LINK FENCE LINE
- 816- TOPOGRAPHY (1 FT.)
- CATCH BASIN
- ◇ UTILITY POLE
- ⊙ LIGHT POLE
- SEWER MANHOLE
- ⊕ WATER VALVE
- ⊞ ELECTRIC METER
- ⊙ GUY ANCHOR
- MW-18 ● MONITORING WELL
- TOTAL VOC CONCENTRATION 5 ug/L TO 10 ug/L
- TOTAL VOC CONCENTRATION 10 ug/L TO 100 ug/L
- TOTAL VOC CONCENTRATION 100 ug/L TO 1,000 ug/L
- TOTAL VOC CONCENTRATION >1,000 ug/L

NOTE:  
 ISOCONCENTRATION CONTOURS DASHED WHERE  
 INFERRED FROM OCTOBER 2015 SITE WIDE SAMPLE  
 RESULTS.



Issue Status: DRAFT

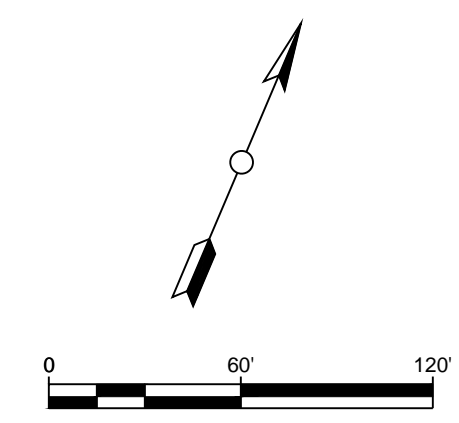
TOTAL VOC ISOCONCENTRATION  
 CONTOUR MAP  
 DECEMBER 8, 2015

**AECOM**  
 Figure: 5a

KORKAY INC.  
 NYSDEC SITE ID: 518014  
 BROADALBIN, NEW YORK  
 Project No.: 60273289 Date: JANUARY 2016



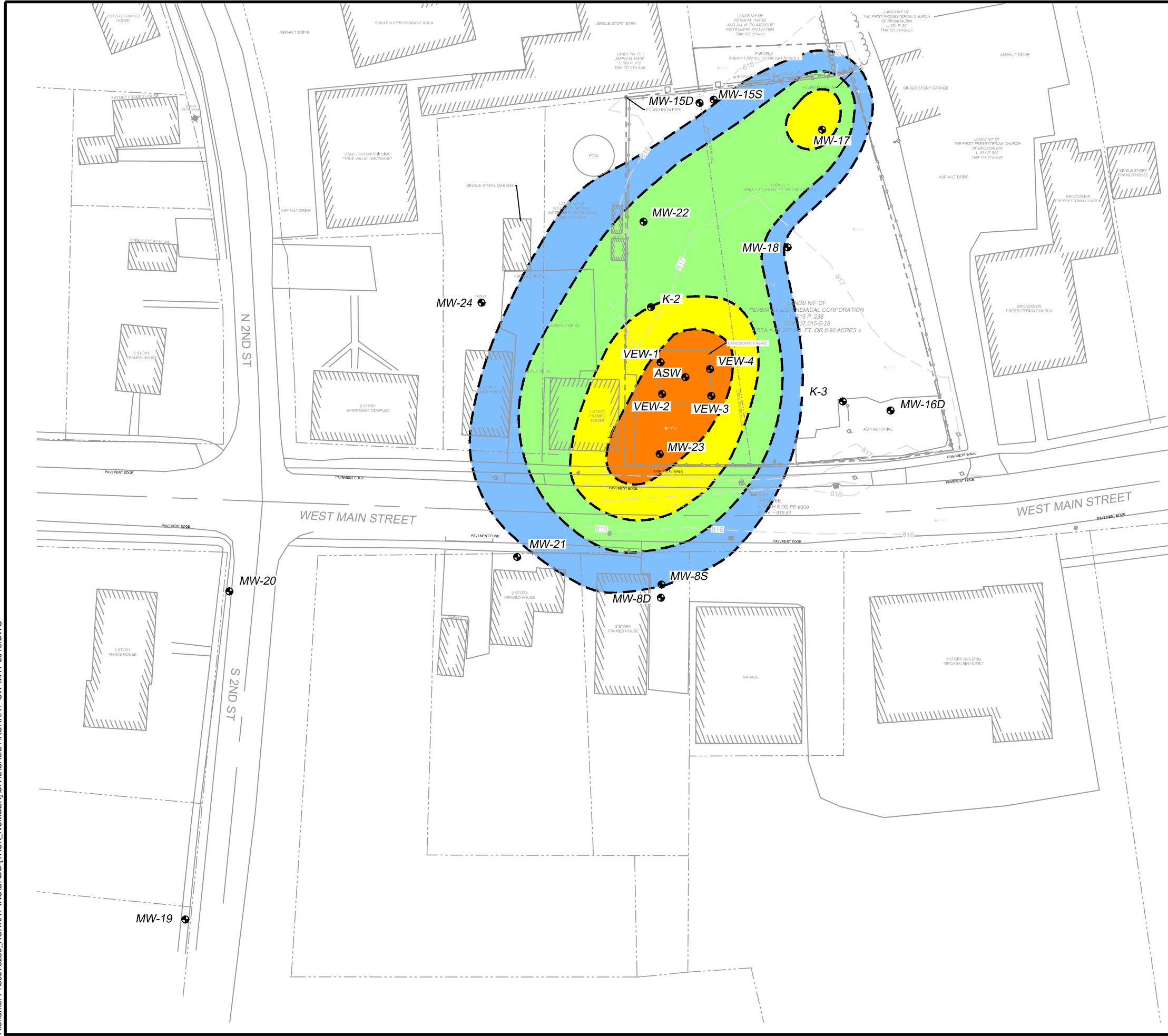
LEGEND	
	SITE PROPERTY LINE
	PROPERTY LINE
	DEED DIVISION LINE
	CHAIN LINK FENCE LINE
	TOPOGRAPHY (1 FT.)
	CATCH BASIN
	UTILITY POLE
	LIGHT POLE
	SEWER MANHOLE
	WATER VALVE
	ELECTRIC METER
	GUY ANCHOR
	MW-18 MONITORING WELL
	TOTAL VOC CONCENTRATION 5 ug/L TO 10 ug/L
	TOTAL VOC CONCENTRATION 10 ug/L TO 100 ug/L
	TOTAL VOC CONCENTRATION 100 ug/L TO 1,000 ug/L
	TOTAL VOC CONCENTRATION >1,000 ug/L



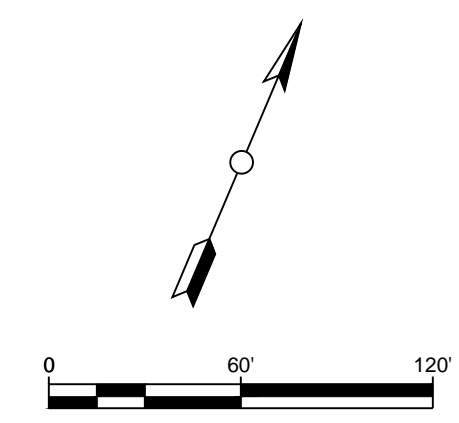
Issue Status: DRAFT

TOTAL VOC ISOCONCENTRATION  
 CONTOUR MAP  
 MARCH 8, 2016

KORKAY INC.  
 NYSDEC SITE ID: 518014  
 BROADALBIN, NEW YORK  
 Project No.: 60273289 Date: APRIL 2016



LEGEND	
	SITE PROPERTY LINE
	PROPERTY LINE
	DEED DIVISION LINE
	CHAIN LINK FENCE LINE
	TOPOGRAPHY (1 FT.)
	CATCH BASIN
	UTILITY POLE
	LIGHT POLE
	SEWER MANHOLE
	WATER VALVE
	ELECTRIC METER
	GUY ANCHOR
	MW-18 MONITORING WELL
	TOTAL VOC CONCENTRATION 5 ug/L TO 10 ug/L
	TOTAL VOC CONCENTRATION 10 ug/L TO 100 ug/L
	TOTAL VOC CONCENTRATION 100 ug/L TO 1,000 ug/L
	TOTAL VOC CONCENTRATION >1,000 ug/L



Issue Status: DRAFT

TOTAL VOC ISOCONCENTRATION  
CONTOUR MAP  
MAY 31, 2016

**AECOM**  
Figure: 5c

KORKAY INC.  
NYSDEC SITE ID: 518014  
BROADALBIN, NEW YORK  
Project No.: 60273289 Date: JUNE 2016

## Tables

**Table 1**

**Water Level Measurements  
Korkay Inc.  
Broadalbin, New York  
Site #518014**

**May 31, 2016**

<b>Well ID</b>	<b>Top of Casing Elevation**</b>	<b>Total Well Depth</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
<b>MW-8S</b>	816.04	10.49	6.20	809.84
<b>MW-8D*</b>	816.02	54.70	27.80	788.22
<b>MW-15S</b>	816.02	12.30	nm	- -
<b>MW-15D*</b>	816.13	43.20	25.15	790.98
<b>MW-16D (formerly 'Flushmount')*</b>	817.08	55.14	28.46	788.62
<b>K-2</b>	816.98	13.82	6.06	810.92
<b>K-3</b>	817.23	10.35	6.27	810.96
<b>ASW</b>	817.44	13.58	6.60	810.84
<b>VEW-1</b>	816.99	10.80	6.18	810.81
<b>VEW-2</b>	816.99	10.81	6.28	810.71
<b>VEW-3</b>	817.74	10.81	6.95	810.79
<b>VEW-4</b>	817.49	10.85	6.56	810.93
<b>MW-17</b>	816.23	14.21	4.70	811.53
<b>MW-18</b>	817.15	14.50	5.75	811.40
<b>MW-19</b>	809.28	9.40	4.21	805.07
<b>MW-20</b>	813.82	12.30	5.65	808.17
<b>MW-21</b>	816.19	9.10	6.65	809.54
<b>MW-22</b>	815.82	9.22	4.48	811.34
<b>MW-23</b>	817.21	14.25	6.72	810.49
<b>MW-24</b>	817.48	11.20	6.94	810.54

Notes:

\* Deep aquifer wells

\*\* From November 2015 site survey by M.J. Engineering and Land Surveying, P.C.

Elevations given in feet above mean sea level; depths given in feet below top of casing

<sup>1</sup> Water level measured is not shown as it was recorded prior to converting the well casing to flush-mount and resurveying the new well casing elevation.

nm = Water level not measured.

Table 2  
 Post ISCO Injection Groundwater Analytical Results  
 May 2016 Quarterly Monitoring Event  
 Korkay, Inc.  
 Broadalbin, New York (Site #518014)

Well ID	AWQS or GV	ASW				MW-17						MW-18										
		10/13/15	12/8/15	3/8/16	5/31/16	10/14/15	12/8/15	12/8/15 <sup>1</sup>	3/8/16	5/31/16	5/31/2016 <sup>1</sup>	10/14/15	12/8/15	3/8/16	5/31/16							
<b>Volatile Organic Compounds (µg/L)</b>																						
1,2,4-Trimethylbenzene	5	420	950	880	970	F1	220	5	U	5	U	61	170	200	440	15	10	U	10	U		
1,2-Dichlorobenzene	3	24	31	28	35		28	15	U	14	U	10	14	20	26	10	U	10	U	10	U	
1,3,5-Trimethylbenzene	5	260	310	340	380		140	5	U	5	U	54	100	120	180	10	U	10	U	10	U	
1,4-Dichlorobenzene	3	5.0	U	20	U	20	U	5	U	5	U	10	U	10	U	4.4	J	10	U	10	U	
2-Butanone (MEK)	50 (GV)	12	J	200	U	200	U	200	U	50	U	50	U	100	U	100	U	200	U	50	U	
4-Isopropyltoluene	5	37	39	47	58		28	5	U	5	U	6.6	J	19	25	31	3.5	J	10	U	10	U
Acetone	50 (GV)	22	J	76	J	150	J	190	J	50	U	25	J	24	J	100	U	100	U	200	U	
Carbon Disulfide	60	5	U	20	U	20	U	20	U	5	U	5	U	2.7	J	4.4	J	20	U	5	U	
Chloroethane	5	5	U	20	U	20	U	14	J	5	U	5	U	5	U	10	U	10	U	20	U	
Chloromethane	NS	5.0	U	20	U	50		70		5	U	7		7		10	U	10	U	20	U	
cis-1,2-Dichloroethene	5	24		20	U	20	U	20	U	5	U	5	U	5	U	10	U	10	U	20	U	
Cyclohexane	NS	5.0	U	20	U	20	U	20	U	5	U	5	U	5	U	10	U	10	U	20	U	
Ethylbenzene	5	110	120	130	140		4	J	5	U	5	U	10	U	10	U	20	U	46			
Isopropylbenzene	5	34	43	43	56		9.1		5	U	5	U	10	U	10	U	20	U	21			
Methylcyclohexane	NS	16	6.1	J	29		34		4.8	J	5	U	5	U	10	U	10	U	20	U		
m,p-Xylene	5	340	580	710	730	F1	21		10	U	10	U	20	U	20	U	40	U	220			
n-Butylbenzene	5	68	73	47	97		36		5	U	5	U	10	U	22		27		41			
n-Propylbenzene	5	60	78	80	110		16		5	U	5	U	10	U	10	U	20	U	42			
Methylene Chloride	5	5.0	U	20	U	14	J	20	U	5	U	5	U	5.7	J	10	U	20	U	5	U	
Naphthalene	10 (GV)	84	120	86	110		32		5	U	5	U	6.9	J	26		27		55			
o-Xylene	5	390	370	410	420	F1	32		8.2		7.8		11		23		25		120			
Styrene	5	5.0	U	20	U	20	U	20	U	5	U	5	U	10	U	10	U	20	U	5	U	
sec-Butylbenzene	5	30	30	20	47		16		5	U	5	U	10	U	7.9	J	20	U	21			
Tetrachloroethene (PCE)	5	5.0	U	20	U	15	J	34		4.6	J	4.1	J	3.6	J	10	U	10	U	18		
Toluene	5	10	20	U	20	U	10	J	5	U	5	U	10	U	10	U	20	U	5	U		
Xylene (Total)	NS	550	950	1,100	1,200	F1	53		8.2	J	7.8	J	11	J	23		25	J	340			
<b>Total VOCs<sup>2</sup></b>		<b>1,941</b>	<b>J</b>	<b>2,826.1</b>	<b>J</b>	<b>3,059</b>	<b>J</b>	<b>3,505</b>	<b>F1J</b>	<b>591.5</b>	<b>J</b>	<b>59.3</b>	<b>J</b>	<b>56.4</b>	<b>J</b>	<b>147.9</b>	<b>J</b>	<b>386.3</b>	<b>J</b>	<b>424</b>		
<b>Field Parameter Results</b>																						
DO (mg/L)	NA	ne	0.52	0	0.2	ne	0.54	0.2	0.1	ne	29	42	19									
ORP (MeV)	NA	ne	-105	-143	-93	ne	-99	-157	-165	ne	199	147	166									
Sodium Persulfate (mg/L)	NA	nt	nt	3.5	1.4	nt	nt	4.2	2.1	nt	nt	70	10									
<b>Semivolatile Organic Compounds (µg/L)</b>																						
2,4,5-Trichlorophenol	NS	4.8	U	4.6	U	5.2	U	48	U	52	U	0.56	J	0.59	J	4.7	U	4.9	U	4.7	U	
2,4-Dimethylphenol	50 (GV)	2.7	J	8.6	10	8.9	J	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	
2-Methylnaphthalene	NS	23	30	36	28	J	52	U	4.8	U	4.8	U	4.7	U	0.69	J	4.7	U	26	U		
4-Methylphenol	NS	61	59	12	95	U	100	U	0.66	J	0.62	J	7.4	J	6.7	J	5	J	9.0	J		
Acetophenone	NS	4.8	U	98	170	48	U	52	U	27	26	4.7	U	4.9	U	4.7	U	26	U	4.6	U	
Benzaldehyde	NS	4.8	U	4.6	U	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	
Biphenyl	5	1.7	J	2.2	J	2.5	J	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	
Butyl benzyl phthalate	50 (GV)	0.53	JB	4.6	U	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	
Di-n-butylphthalate	50	1.7	J	2.2	J	2.5	J	48	U	52	U	0.8	J	0.75	J	0.44	J	4.9	U	0.35	J	
Diethyl phthalate	50 (GV)	4.8	U	4.6	U	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	
Di-n-octylphthalate	50 (GV)	4.8	U	4.6	U	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	
Fluorene	50 (GV)	0.46	J	0.48	J	0.59	J	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	
Naphthalene	10 (GV)	46	68	82	65	13	J	4.8	U	4.8	U	4.8	U	9.3	8.8	26	U	4.6	U	0.78	J	
Phenol	1	4.8	U	0.48	J	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	
<b>Organochlorine Pesticides (µg/L)</b>																						
Aldrin	ND	0.50	U	0.051	J	0.49	U	0.048	U	0.035	J	0.14	J	0.16	J	0.49	U	0.25	U	0.046	U	
alpha-BHC	0.01	0.12	JB	0.23	U	0.093	J	0.048	U	0.10	U	0.086	J	0.084	J	0.49	U	0.25	U	0.046	U	
alpha-Chlordane	NS	0.50	U	0.23	U	0.49	U	0.048	U	0.098	J	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	
beta-BHC	0.04	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	
delta-BHC	0.04	0.14	J	0.12	J	0.14	J	0.019	J	0.045	J	0.25	J	0.26	J	0.16	J	0.25	U	0.046	U	
Dieldrin	0.004	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.13	J	0.13	J	0.49	U	0.25	U	0.046	U	
Endosulfan Sulfate	NS	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.27	J	0.48	U	0.49	U	0.25	U	0.046	U	
Endrin Aldehyde	5	0.50	U	0.23	U	0.49	U	0.048	U	0.042	J	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	
gamma-BHC (Lindane)	0.05	0.50	U	0.058	J	0.49	U	0.048	U	0.023	J	0.12	J	0.12	J	0.11	JB	0.25	U	0.046	U	
Heptachlor	0.04	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	
Heptachlor Epoxide	0.03	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	
Methoxychlor	35	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	
4,4-DDD	0.3	0.50	U	0.067	J	0.49	U	0.048	U	0.10	U	0.46	U	0.13	J	0.49	U	0.25	U	0.046	U	
P,P'-DDE	0.2	0.50	U	0.23	U	0.49	U	0.048	U	0.035	J	0.46	U	0.13	J	0.49	U	0.25	U	0.046	U	
gamma-Chlordane	NS	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.017	J	

Notes:  
 Results compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) (TOGs 1.1.1)  
 NS - No standard or GV.  
 ND - Non-detectable concentration  
 NA - Not applicable  
**BOLD** font indicates compound concentrations detected above method detection limits  
 Shaded cells indicate exceedance of AWQS or GV  
 U - Compound analyzed for but not detected  
 J - Estimated concentration for compound detected below the reporting limit  
 B - For organic analyses - compound detected in laboratory method blank; for inorganic analyses - indicates trace concentration below reporting limit and equal to or above the detection limit  
 F1 - MS and/or MSD recovery is outside acceptable limits  
 F2 - MS/MSD RPD exceeds control limits  
 ne - Not evaluated  
 nt - Not tested  
<sup>1</sup> - Duplicate Sample  
<sup>2</sup> - Sum of all VOC concentrations detected in the sample, except the "Xylene (Total)" concentration

Table 2  
 Post ISCO Injection Groundwater Analytical Results  
 May 2016 Quarterly Monitoring Event  
 Korkay, Inc.  
 Broadalbin, New York (Site #518014)

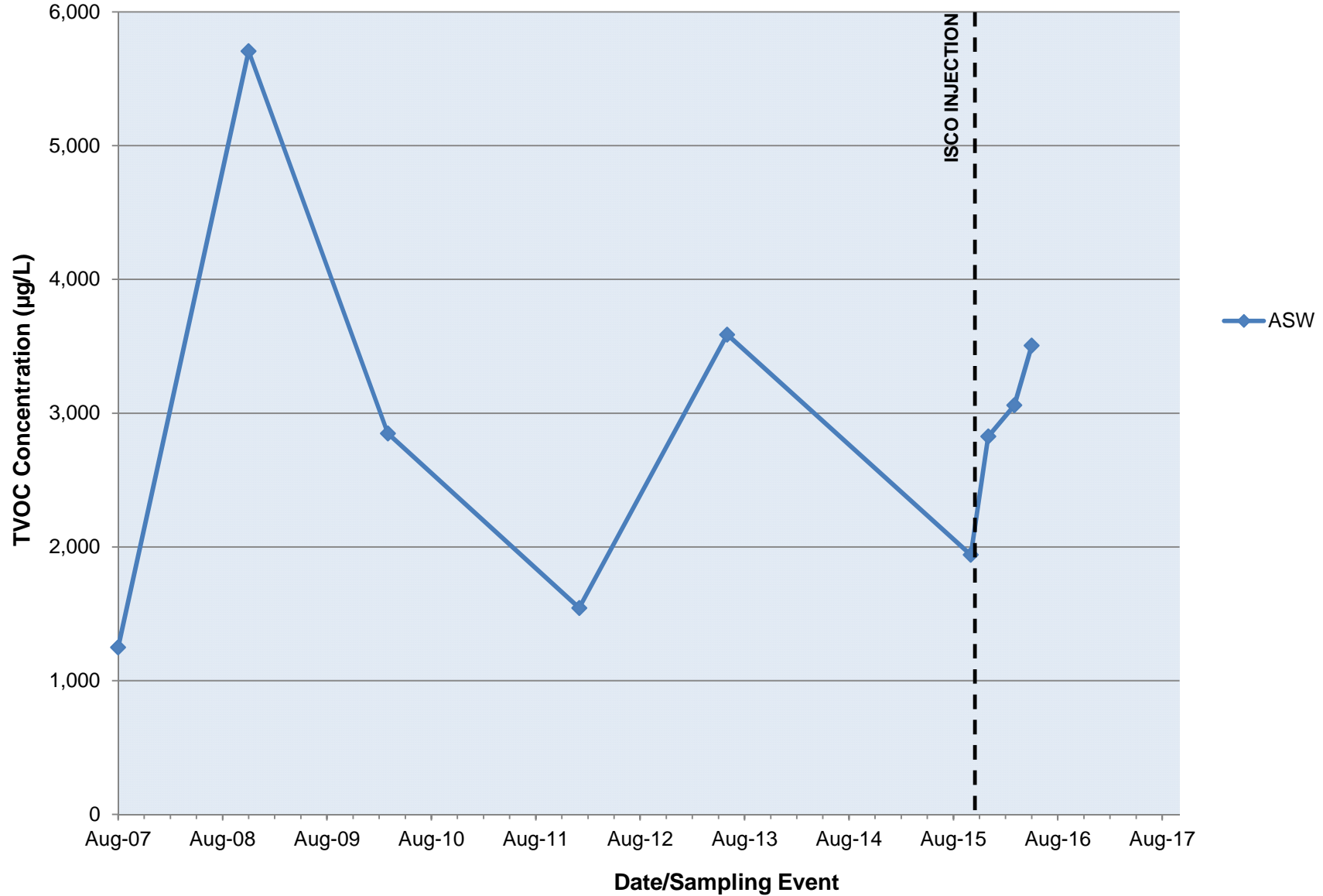
Well ID	AWQS or GV	MW-21				MW-22				MW-23				
		10/15/15	3/8/16	5/31/16		10/14/15	12/8/15	3/8/16	3/08/16 <sup>1</sup>	5/31/16	10/14/15	12/8/15	3/8/16	5/31/16
<b>Volatile Organic Compounds (µg/L)</b>														
1,2,4-Trimethylbenzene	5	140	0.91 J	1 U	21	26	19	13	5.9	110	160	770	570	
1,2-Dichlorobenzene	3	20 U	1.1 U	1 U	5 U	10 U	5 U	5 U	5 U	18	8.6	47	34	
1,3,5-Trimethylbenzene	5	39	1 U	1 U	11	13	15	16	5.2	66	49	260	200	
1,4-Dichlorobenzene	3	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	
2-Butanone (MEK)	50 (GV)	200 U	10 U	10 U	14 J	100 U	10 U	50 U	50 U	50 U	24 J	63 J	28 J	
4-Isopropyltoluene	5	12 J	1 U	1 U	6.3	8.2 J	5.8	5.1	3.1 J	16	9	38	35	
Acetone	50 (GV)	200 U	10 U	10 U	50 U	100 U	10 U	50 U	50 U	50 U	140	390	150	
Carbon Disulfide	60	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	2 J	
Chloroethane	5	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	27	8.1 J	
Chloromethane	NS	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	5 U	23	120	50	
cis-1,2-Dichloroethene	5	20 U	2.5	1.8	5 U	10 U	5 U	5 U	5 U	5.3	10	9.2 J	10 U	
Cyclohexane	NS	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	7.9 J	10 U	
Ethylbenzene	5	43	1 U	1 U	5.5	10 U	5 U	5 U	5 U	24	40	190	120	
Isopropylbenzene	5	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	7.7	10	49	41	
Methylcyclohexane	NS	20 U	1 U	1 U	3.1 J	10 U	5 U	5 U	5 U	6.1	2.1 J	19	20	
m,p-Xylene	5	54	2 U	2 U	22	20 U	10 U	10 U	10 U	100	160	890	540	
n-Butylbenzene	5	30	1 U	1 U	8	9.8 J	3.3 J	3.5 J	5 U	22	15	34	53	
n-Propylbenzene	5	15 J	1 U	1 U	5 U	10 U	5 U	5 U	5 U	12	17	79	68	
Methylene Chloride	5	20 U	1 U	1 U	5 U	10 U	5 U	3.7 J	5 U	5 U	5 U	8.8 J	10 U	
Naphthalene	10 (GV)	20 U	1 U	1 U	5 U	4.3 J	2.8 J	5 U	5 U	21	25	120	85	
o-Xylene	5	120	1 U	1 U	14	10 U	5 U	5 U	5 U	99	84	440	260	
Styrene	5	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	13	10 U	
sec-Butylbenzene	5	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	8	7.2	10 U	27	
Tetrachloroethene (PCE)	5	20 U	1 U	1 U	3.4 J	10 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	
Toluene	5	20 U	1 U	1 U	5 U	10 U	5 U	5 U	5 U	6.8	4.7 J	12	9.4 J	
Xylene (Total)	NS	170	1 U	1 U	36	20 U	10 U	10 U	10 U	200	240	1,300	800	
<b>Total VOCs<sup>2</sup></b>		<b>453 J</b>	<b>4.51 J</b>	<b>1.8</b>	<b>108.3 J</b>	<b>61.3 J</b>	<b>45.9 J</b>	<b>41.3 J</b>	<b>14.2</b>	<b>521.9</b>	<b>788.6 J</b>	<b>3,586.9 J</b>	<b>2300.5</b>	
<b>Field Parameter Results</b>														
DO (mg/L)	NA	ne	1.2	3.7	--	0.3	2.5	3.5	ne	0.53	0.15	0.17		
ORP (MeV)	NA	ne	-78	-18	--	-88	-4	4	ne	-101	-175	-145		
Sodium Persulfate (mg/L)	NA	nt	2.5	0.7	nt	nt	7	4	nt	nt	1.4	0.2		
<b>Semivolatile Organic Compounds (µg/L)</b>														
2,4,5-Trichlorophenol	NS	5.7 U	4.6 U	4.6 F2F1	5.5 U	4.9 U	4.8 U	4.7 U	4.8 U	20 U	4.6 U	19 U	4.7 U	
2,4-Dimethylphenol	50 (GV)	2.4 J	4.6 U	4.6 F2F1	5.5 U	4.9 U	4.8 U	4.7 U	4.8 U	4.9 J	4.6 J	10 J	3.8 J	
2-Methylnaphthalene	NS	5.7 U	4.6 U	4.6 F2	5.5 U	2.1 J	4.8 U	4.7 U	4.8 U	20 U	2.9 J	32	20	
4-Methylphenol	NS	1.7 J	9.2 U	9.3 F2	0.53 J	0.95 J	9.7 U	9.3 U	9.5 U	40 U	5.7 J	9.4 J	4.2 J	
Acetophenone	NS	5.7 U	4.6 U	4.6 F2F1	5.5 U	4.9 U	4.8 U	4.7 U	4.8 U	20 U	44	210	4.7 U	
Benzaldehyde	NS	5.7 U	4.6 U	4.6 F2	5.5 U	4.9 U	4.8 U	4.7 U	4.8 U	20 U	17	19 U	4.7 U	
Biphenyl	5	5.7 U	4.6 U	4.6 F2	5.5 U	4.9 U	4.8 U	4.7 U	4.8 U	20 U	4.6 U	19 U	0.95 J	
Butyl benzyl phthalate	50 (GV)	0.61 JB	4.6 U	4.6 F2F1	5.5 U	4.9 U	4.8 U	0.55 JB	4.8 U	20 U	4.6 U	19 U	4.7 U	
Di-n-butylphthalate	50	0.71 J	4.6 U	4.6 F2	1.3 J	2 J	1.3 J	1.2 J	0.48 J	2.5 J	0.91 J	2 J	1.3 J	
Diethyl phthalate	50 (GV)	5.7 U	4.6 U	4.6 F2F1	5.5 U	4.9 U	0.78 J	0.87 J	4.8 U	20 U	4.6 U	1.2 J	4.7 U	
Di-n-octylphthalate	50 (GV)	0.93 J	4.6 U	4.6 F2	5.5 U	4.9 U	4.8 U	4.7 U	4.8 U	20 U	4.6 U	19 U	4.7 U	
Fluorene	50 (GV)	5.7 U	4.6 U	4.6 F2F1	5.5 U	0.35 J	4.8 U	4.7 U	4.8 U	20 U	4.6 U	19 U	4.7 U	
Naphthalene	10 (GV)	5.7 U	4.6 U	4.6 F2	5.5 U	3.1 J	4.8 U	0.73 J	4.8 U	20 U	15	96	59	
Phenol	1	5.7 U	4.6 U	4.6 U	1.0 J	4.9 U	4.8 U	4.7 U	4.8 U	20 U	1.1 J	19 U	4.7 U	
<b>Organochlorine Pesticides (µg/L)</b>														
Aldrin	ND	0.25 U	0.098 U	0.047 U	0.53 U	0.12 J	0.044 J	0.094 J	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	
alpha-BHC	0.01	0.25 U	0.03 J	0.047 U	0.53 U	0.084 J	0.24 U	0.24 U	0.096 U	0.10 U	0.074 J	0.13 J	0.047 U	
alpha-Chlordane	NS	0.25 U	0.098 U	0.047 U	0.53 U	0.16 J	0.41	0.63	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	
beta-BHC	0.04	0.25 U	0.098 U	0.047 U	0.53 U	0.26 J	0.24 U	0.24 U	0.096 U	0.10 U	0.14 J	0.52 U	0.047 U	
delta-BHC	0.04	0.25 U	0.098 U	0.014 J	0.53 U	0.27 J	0.055 J	0.1 J	0.096 U	0.10 U	0.23 U	0.52 U	0.015 J	
Dieldrin	0.004	0.25 U	0.098 U	0.047 U	0.53 U	0.28 J	0.24 U	0.24 U	0.096 U	0.10 U	0.046 J	0.52 U	0.047 U	
Endosulfan Sulfate	NS	0.25 U	0.098 U	0.047 U	0.53 U	0.5 U	0.24 U	0.24 U	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	
Endrin Aldehyde	5	0.25 U	0.098 U	0.047 U	0.53 U	0.5 U	0.24 U	0.24 U	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	
gamma-BHC (Lindane)	0.05	0.25 U	0.017 JB	0.0089 J	0.53 U	0.12 J	0.24 U	0.24 U	0.22	0.056 J	0.077 J	0.52 U	0.047 U	
Heptachlor	0.04	0.25 U	0.098 U	0.047 U	0.53 U	0.5 U	0.24 U	0.24 U	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	
Heptachlor Epoxide	0.03	0.25 U	0.098 U	0.047 U	0.53 U	0.25 J	0.24 U	0.24 U	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	
Methoxychlor	35	0.25 U	0.098 U	0.047 U	0.53 U	0.5 U	0.24 U	0.24 U	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	
4,4-DDD	0.3	0.25 U	0.098 U	0.047 U	0.53 U	0.16 J	0.24 U	0.24 U	0.096 U	0.025 J	0.23 U	0.52 U	0.047 U	
P,P'-DDE	0.2	0.25 U	0.098 U	0.047 U	0.53 U	0.5 U	0.24 U	0.12 J	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	
gamma-Chlordane	NS	0.25 U	0.098 U	0.047 U	0.53 U	0.5 U	0.092 J	0.13 J	0.096 U	0.10 U	0.23 U	0.52 U	0.047 U	

Notes:  
 Results compared to the New York State Ambient  
 NS - No standard or GV.  
 ND - Non-detectable concentration  
 NA - Not applicable  
**BOLD** font indicates compound concentrations d  
 Shaded cells indicate exceedance of AWQS or C  
 U - Compound analyzed for but not detected  
 J - Estimated concentration for compound detect  
 B - For organic analyses - compound detected in  
 F1 - MS and/or MSD recovery is outside accepta  
 F2 - MS/MSD RPD exceeds control limits  
 ne - Not evaluated  
 nt - Not tested  
<sup>1</sup> - Duplicate Sample  
<sup>2</sup> - Sum of all VOC concentrations detected in the

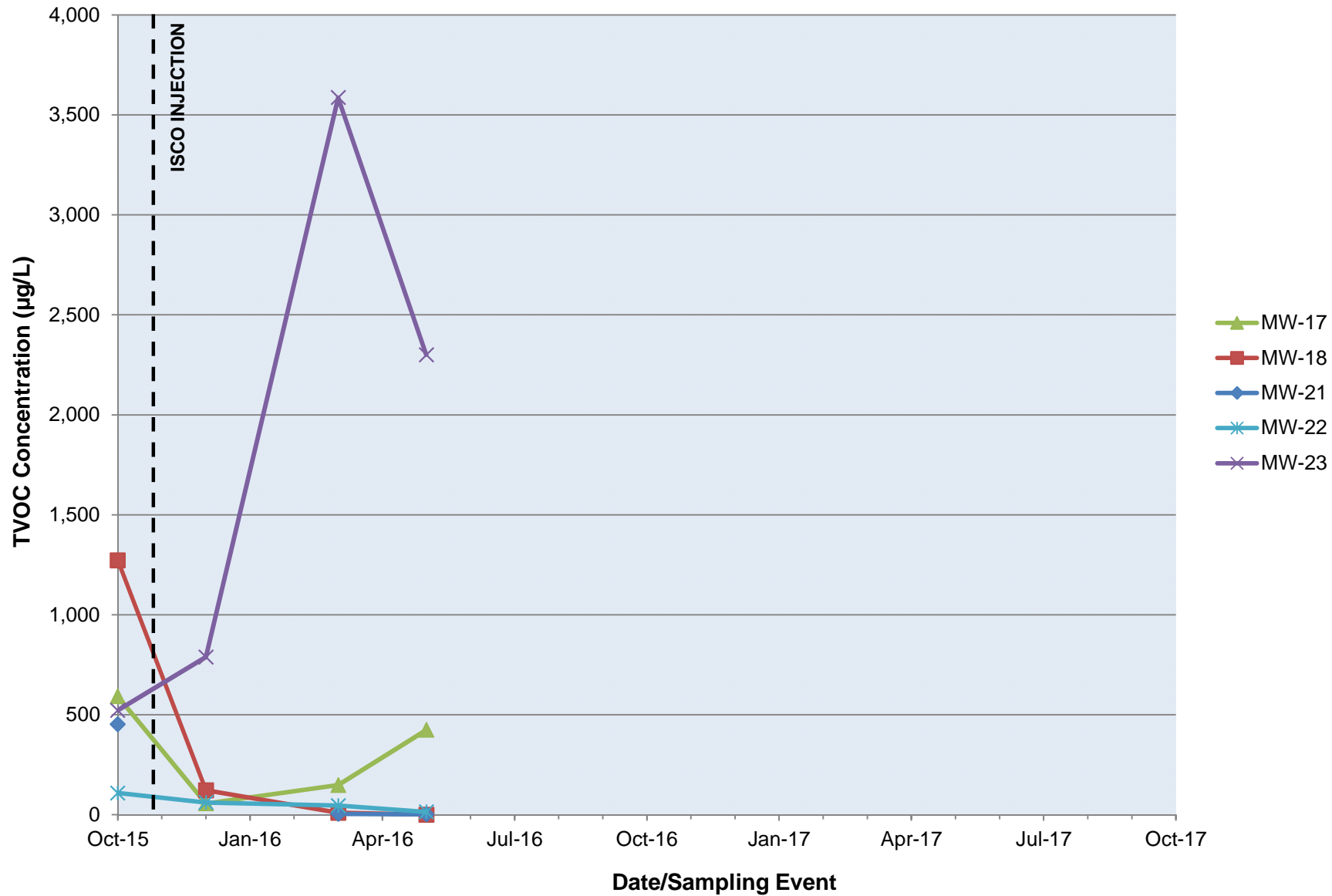


## Charts

**Chart 1**  
**Post ISCO Injection Groundwater TVOC Concentration Trends - Monitoring Well ASW**  
**Korkay Inc.**



**Chart 2**  
**Post ISCO Injection Groundwater TVOC Concentration Trends - ISCO Monitoring Wells**  
**Korkay Inc.**



## **Appendix A**

### **Groundwater Sampling Records**

### Monitoring Well Purging / Sampling Form

Project Name and Number: Korkay 60273289.00

Monitoring Well Number: ASW Date: May 31, 2016

Samplers: Ross McCredy

Sample Number: ASW 053116 QA/QC Collected? No

Purging / Sampling Method: Peristaltic Pump

1. L = Well Depth: 11.78 feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Depth to Water: 6.60 feet
4. C = Column of Water in Well: 5.18 feet
5. V = Volume of Water in Well =  $C(3.14159)(0.5D)^2(7.48)$  gal
6. 3(V) = Target Purge Volume gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50
1.5-inch	0.125

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	1.5-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5	0.088

Water Quality Readings Collected Using YSI 556 and Lamotte 2020 turbidity meter

Parameter	Units	Readings					
Time	24 hr	<u>1215</u>	<u>1220</u>	<u>1225</u>	<u>1230</u>	<u>1235</u>	<u>1240</u>
Water Level (0.33)	feet	<u>6.70</u>	<u>6.70</u>	<u>6.70</u>	<u>6.70</u>	<u>6.70</u>	<u>6.70</u>
Volume Purged	gal	<u>0</u>	<u>0.25</u>	<u>0.50</u>	<u>0.75</u>	<u>1.00</u>	<u>1.20</u>
Flow Rate	mL/min	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>
Turbidity (+/- 10%)	NTU	<u>8.48</u>	<u>2.92</u>	<u>3.53</u>	<u>2.27</u>	<u>2.11</u>	<u>2.01</u>
Dissolved Oxygen (+/- 10%)	%	<u>14.7</u>	<u>4.4</u>	<u>2.2</u>	<u>1.9</u>	<u>1.7</u>	<u>1.5</u>
Dissolved Oxygen (+/- 10%)	mg/L	<u>1.64</u>	<u>0.48</u>	<u>0.26</u>	<u>0.20</u>	<u>0.17</u>	<u>0.18</u>
Eh / ORP (+/- 10)	MeV	<u>-85.2</u>	<u>-99.1</u>	<u>-103.4</u>	<u>-74.9</u>	<u>-94.2</u>	<u>-93.3</u>
Specific Conductance (+/- 3%)	mS/cm <sup>c</sup>	<u>2.10</u>	<u>2.06</u>	<u>1.95</u>	<u>1.95</u>	<u>1.95</u>	<u>1.87</u>
Conductivity (+/- 3%)	mS/cm	<u>1.53</u>	<u>1.52</u>	<u>1.40</u>	<u>1.40</u>	<u>1.38</u>	<u>1.38</u>
pH (+/- 0.1)	pH unit	<u>6.18</u>	<u>6.22</u>	<u>6.23</u>	<u>6.23</u>	<u>6.23</u>	<u>6.24</u>
Temp (+/- 0.5)	C	<u>10.7</u>	<u>10.2</u>	<u>10.2</u>	<u>10.3</u>	<u>10.4</u>	<u>10.4</u>
Color	Visual	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Odor	Olfactory	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>

**Comments:**

Purge start time: 1212  
 Sample collection time: 1240  
purvolute: 1.4 ppm

### Monitoring Well Purging / Sampling Form

Project Name and Number: Korkay 60273289.00

Monitoring Well Number: MW-17 Date: May 31, 2016

Samplers: Ross McCredy

Sample Number: MW-17 053116 QA/QC Collected? MS/MSD DUP1-053116

Purging / Sampling Method: Peristaltic Pump

1. L = Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Depth to Water:
4. C = Column of Water in Well:
5. V = Volume of Water in Well = C(3.14159)(0.5D)<sup>2</sup>(7.48)
6. 3(V) = Target Purge Volume

14.40 feet  
0.17 feet  
4.70 feet  
 \_\_\_\_\_ feet  
 \_\_\_\_\_ gal  
 \_\_\_\_\_ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50
1.5-inch	0.125

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	1.5-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5	0.088

Water Quality Readings Collected Using YSI 556 and Lamotte 2020 turbidity meter

Parameter	Units	Readings				
		10:04	10:09	10:14	10:19	10:24
Time	24 hr					
Water Level (0.33)	feet	<u>4.85</u>	<u>5.00</u>	<u>5.10</u>	<u>5.15</u>	<u>5.19</u>
Volume Purged	gal	<u>0</u>	<u>0.25</u>	<u>0.50</u>	<u>0.70</u>	<u>1.00</u>
Flow Rate	mL/min	<u>&lt;100 mL</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>
Turbidity (+/- 10%)	NTU	<u>19.4</u>	<u>11.5</u>	<u>7.98</u>	<u>8.11</u>	<u>8.02</u>
Dissolved Oxygen (+/- 10%)	%	<u>3.1</u>	<u>1.3</u>	<u>1.8</u>	<u>1.2</u>	<u>1.1</u>
Dissolved Oxygen (+/- 10%)	mg/L	<u>0.32</u>	<u>0.14</u>	<u>0.18</u>	<u>0.15</u>	<u>0.12</u>
Eh / ORP (+/- 10)	MeV	<u>+42.7</u>	<u>-155.4</u>	<u>-162.8</u>	<u>-164.7</u>	<u>-165.2</u>
Specific Conductance (+/- 3%)	mS/cm <sup>c</sup>	<u>1.03</u>	<u>1.41</u>	<u>1.38</u>	<u>1.36</u>	<u>1.33</u>
Conductivity (+/- 3%)	mS/cm	<u>1.41</u>	<u>1.02</u>	<u>1.00</u>	<u>0.99</u>	<u>0.97</u>
pH (+/- 0.1)	pH unit	<u>6.59</u>	<u>6.63</u>	<u>6.64</u>	<u>6.65</u>	<u>6.66</u>
Temp (+/- 0.5)	C°	<u>10.8</u>	<u>10.6</u>	<u>10.6</u>	<u>10.7</u>	<u>10.7</u>
Color	Visual	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Odor	Olfactory	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>

**Comments:**  
 Purge start time: 10:02  
 Sample collection time: 10:24  
PO<sub>4</sub> sulfate: 2.1 ppm

### Monitoring Well Purging / Sampling Form

Project Name and Number: Korkay 60273289.00

Monitoring Well Number: MW-18 Date: May 31, 2016

Samplers: Ross McCredy

Sample Number: MW-18.5316 QA/QC Collected? No

Purging / Sampling Method: Peristaltic Pump

1. L = Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Depth to Water:
4. C = Column of Water in Well:
5. V = Volume of Water in Well =  $C(3.14159)(0.5D)^2(7.48)$
6. 3(V) = Target Purge Volume

14.35 feet  
0.17 feet  
5.75 feet  
8.6 feet  
1.46 gal  
4.39 gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50
1.5-inch	0.125

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	1.5-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5	0.088

Water Quality Readings Collected Using YSI 556 and Lamotte 2020 turbidity meter

Parameter	Units	Readings						
Time	24 hr	<u>1050</u>	<u>1055</u>	<u>1100</u>	<u>1105</u>	<u>1110</u>	<u>1115</u>	
Water Level (0.33)	feet	<u>5.94</u>	<u>6.25</u>	<u>6.35</u>	<u>6.40</u>	<u>6.42</u>	<u>6.42</u>	
Volume Purged	gal	<u>0</u>	<u>0.20</u>	<u>0.45</u>	<u>0.65</u>	<u>1.00</u>	<u>1.30</u>	
Flow Rate	mL/min	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	
Turbidity (+/- 10%)	NTU	<u>1332</u>	<u>76.5</u>	<u>41.7</u>	<u>13.6</u>	<u>10.0</u>	<u>9.40</u>	
Dissolved Oxygen (+/- 10%)	%	<u>21.46</u>	<u>18.7</u>	<u>16.2</u>	<u>16.9</u>	<u>16.3</u>	<u>17.1</u>	
Dissolved Oxygen (+/- 10%)	mg/L	<u>11.16</u>	<u>18.40</u>	<u>17.98</u>	<u>18.14</u>	<u>18.73</u>	<u>19.16</u>	
Eh / ORP (+/- 10)	MeV	<u>63.1</u>	<u>153.0</u>	<u>166.6</u>	<u>167.6</u>	<u>167.3</u>	<u>166.4</u>	
Specific Conductance (+/- 3%)	mS/cm <sup>c</sup>	<u>1.16</u>	<u>1.09</u>	<u>1.06</u>	<u>1.06</u>	<u>1.08</u>	<u>1.10</u>	
Conductivity (+/- 3%)	mS/cm	<u>0.84</u>	<u>0.80</u>	<u>0.76</u>	<u>0.77</u>	<u>0.78</u>	<u>0.80</u>	
pH (+/- 0.1)	pH unit	<u>6.73</u>	<u>6.83</u>	<u>6.75</u>	<u>6.71</u>	<u>6.70</u>	<u>6.68</u>	
Temp (+/- 0.5)	C°	<u>10.9</u>	<u>10.8</u>	<u>10.3</u>	<u>10.5</u>	<u>10.7</u>	<u>10.7</u>	
Color	Visual	<u>Cloudy</u>	<u>Cloudy</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	
Odor	Olfactory	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	

**Comments:**

Purge start time: 1050  
 Sample collection time: 1115

pusulfate: 10 ppm

## Monitoring Well Purging / Sampling Form

Project Name and Number: Korkay 60273289.00

Monitoring Well Number: MW-21 Date: May 31, 2016

Samplers: Ross McCredy

Sample Number: MW-21 05216 QA/QC Collected? No

Purging / Sampling Method: Peristaltic Pump

1. L = Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Depth to Water:
4. C = Column of Water in Well:
5. V = Volume of Water in Well =  $C(3.14159)(0.5D)^2(7.48)$
6. 3(V) = Target Purge Volume

11.12 feet  
0.17 feet  
6.65 feet  
 \_\_\_\_\_ feet  
 \_\_\_\_\_ gal  
 \_\_\_\_\_ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50
1.5-inch	0.125

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	1.5-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5	0.088

Water Quality Readings Collected Using YSI 556 and Lamotte 2020 turbidity meter

Parameter	Units	Readings			
Time	24 hr	<u>1350</u>	<u>1355</u>	<u>1400</u>	<u>1405</u>
Water Level (0.33)	feet	<u>6.70</u>	<u>6.78</u>	<u>6.83</u>	<u>6.82</u>
Volume Purged	gal	<u>0</u>	<u>0.30</u>	<u>0.75</u>	<u>1.10</u>
Flow Rate	mL/min	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>
Turbidity (+/- 10%)	NTU	<u>6.21</u>	<u>6.05</u>	<u>4.08</u>	<u>3.89</u>
Dissolved Oxygen (+/- 10%)	%	<u>39.6</u>	<u>40.4</u>	<u>37.5</u>	<u>33.2</u>
Dissolved Oxygen (+/- 10%)	mg/L	<u>4.38</u>	<u>4.49</u>	<u>4.12</u>	<u>3.66</u>
Eh / ORP (+/- 10)	MeV	<u>-48.3</u>	<u>-31.9</u>	<u>-22.6</u>	<u>-17.9</u>
Specific Conductance (+/- 3%)	mS/cm <sup>c</sup>	<u>1.37</u>	<u>1.37</u>	<u>1.40</u>	<u>1.38</u>
Conductivity (+/- 3%)	mS/cm	<u>0.99</u>	<u>1.00</u>	<u>1.02</u>	<u>1.00</u>
pH (+/- 0.1)	pH unit	<u>7.03</u>	<u>7.11</u>	<u>7.13</u>	<u>7.12</u>
Temp (+/- 0.5)	C <sup>o</sup>	<u>10.4</u>	<u>10.5</u>	<u>10.7</u>	<u>10.8</u>
Color	Visual	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Odor	Olfactory	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>

**Comments:**

Purge start time: 1345  
 Sample collection time: 1405

Persulfate: 0.7 ppm



### Monitoring Well Purging / Sampling Form

Project Name and Number: Korkay 60273289.00

Monitoring Well Number: MW-22 Date: May 31, 2016

Samplers: Ross McCredy

Sample Number: MW-22 053116 QA/QC Collected? No

Purging / Sampling Method: Peristaltic Pump

1. L = Well Depth: 9.25 feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Depth to Water: 4.78 feet
4. C = Column of Water in Well: 4.77 feet
5. V = Volume of Water in Well =  $C(3.14159)(0.5D)^2(7.48)$  0.81 gal
6. 3(V) = Target Purge Volume 2.43 gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50
1.5-inch	0.125

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	1.5-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5	0.088

Water Quality Readings Collected Using YSI 556 and Lamotte 2020 turbidity meter

Parameter	Units	Readings							
		1130	1135	1140	1145	1150	1155	1200	1205
Time	24 hr								
Water Level (0.33)	feet	4.60	4.70	4.78	4.84	4.90	4.92	4.94	4.94
Volume Purged	gal	0	0.15	0.30	0.50	0.67	0.78	0.95	1.15
Flow Rate	mL/min	<100	<100	<100	<100	<100	<100	<100	<100
Turbidity (+/- 10%)	NTU	79.9	31.6	20.2	17.4	16.3	9.35	7.20	8.10
Dissolved Oxygen (+/- 10%)	%	60.0	47.9	47.4	43.4	38.8	33.8	32.6	31.7
Dissolved Oxygen (+/- 10%)	mg/L	6.52	5.39	5.30	4.76	4.28	3.74	3.60	3.49
Eh / ORP (+/- 10)	MeV	113.1	114.6	110.4	48.1	19.0	1.8	1.7	4.0
Specific Conductance (+/- 3%)	mS/cm <sup>c</sup>	0.402	0.398	0.394	0.396	0.398	0.402	0.402	0.401
Conductivity (+/- 3%)	mS/cm	0.289	0.285	0.285	0.289	0.291	0.294	0.290	0.294
pH (+/- 0.1)	pH unit	6.88	6.66	6.61	6.53	6.50	6.48	6.49	6.47
Temp (+/- 0.5)	C	10.2	10.1	10.5	10.8	11.0	10.9	10.9	10.9
Color	Visual	clear	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	No	No	No	No	No	No	No	No

**Comments:**

Purge start time: 1128  
 Sample collection time: 1205  
Persulfate: 4 ppm

### Monitoring Well Purging / Sampling Form

Project Name and Number: Korkay 60273289.00

Monitoring Well Number: MW-23 Date: May 31, 2016

Samplers: Ross McCredy

Sample Number: MW-23 053116 QA/QC Collected? No

Purging / Sampling Method: Peristaltic Pump

1. L = Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Depth to Water:
4. C = Column of Water in Well:
5. V = Volume of Water in Well =  $C(3.14159)(0.5D)^2(7.48)$
6. 3(V) = Target Purge Volume

14.26 feet  
0.17 feet  
6.72 feet  
 \_\_\_\_\_ feet  
 \_\_\_\_\_ gal  
 \_\_\_\_\_ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50
1.5-inch	0.125

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch	1.5-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5	0.088

Water Quality Readings Collected Using YSI 556 and Lamotte 2020 turbidity meter

Parameter	Units	Readings				
Time	24 hr	<u>1300</u>	<u>1305</u>	<u>1310</u>	<u>1315</u>	<u>1320</u>
Water Level (0.33)	feet	<u>6.80</u>	<u>6.90</u>	<u>6.90</u>	<u>6.91</u>	<u>6.90</u>
Volume Purged	gal	<u>0</u>	<u>0.30</u>	<u>0.60</u>	<u>0.90</u>	<u>1.30</u>
Flow Rate	mL/min	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>	<u>&lt;100</u>
Turbidity (+/- 10%)	NTU	<u>8.05</u>	<u>7.06</u>	<u>8.90</u>	<u>6.31</u>	<u>6.25</u>
Dissolved Oxygen (+/- 10%)	%	<u>6.0</u>	<u>2.2</u>	<u>1.2</u>	<u>1.3</u>	<u>1.5</u>
Dissolved Oxygen (+/- 10%)	mg/L	<u>0.63</u>	<u>0.24</u>	<u>0.14</u>	<u>0.16</u>	<u>0.17</u>
Eh / ORP (+/- 10)	MeV	<u>-151.4</u>	<u>-157.1</u>	<u>-150.1</u>	<u>-145.7</u>	<u>-144.5</u>
Specific Conductance (+/- 3%)	mS/cm <sup>c</sup>	<u>5.37</u>	<u>4.01</u>	<u>4.211</u>	<u>2.08</u>	<u>2.10</u>
Conductivity (+/- 3%)	mS/cm	<u>3.84</u>	<u>2.85</u>	<u>1.51</u>	<u>1.49</u>	<u>1.50</u>
pH (+/- 0.1)	pH unit	<u>6.57</u>	<u>6.63</u>	<u>6.58</u>	<u>6.54</u>	<u>6.53</u>
Temp (+/- 0.5)	C <sup>o</sup>	<u>10.1</u>	<u>10.1</u>	<u>10.3</u>	<u>10.2</u>	<u>10.1</u>
Color	Visual	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
Odor	Olfactory	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>

**Comments:**

Purge start time: 1258  
 Sample collection time: 1320

Purge Rate: 0.2 fpm

## **Appendix B**

### **Laboratory Analytical Report**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-100905-1

Client Project/Site: Korkay, Inc. #518014

For:

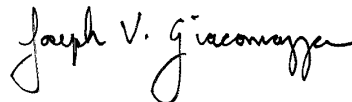
New York State D.E.C.

625 Broadway

4th Floor

Albany, New York 12233

Attn: Mr. Payson Long



Authorized for release by:

6/10/2016 3:18:51 PM

Joe Giacomazza, Project Management Assistant II

[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

[judy.stone@testamericainc.com](mailto:judy.stone@testamericainc.com)

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results through

TotalAccess

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Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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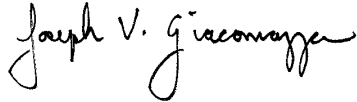
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- 11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



---

Joe Giacomazza  
Project Management Assistant II  
6/10/2016 3:18:51 PM



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# Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

## Job ID: 480-100905-1

### Laboratory: TestAmerica Buffalo

#### Narrative

#### Job Narrative 480-100905-1

#### Receipt

The samples were received on 6/1/2016 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7° C.

#### GC/MS VOA

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-17 053116 (480-100905-1) and MW-18 053116 (480-100905-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-305188 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-17 053116 (480-100905-1) and MW-18 053116 (480-100905-2).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-305367 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane and Cyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-22 053116 (480-100905-3), ASW 053116 (480-100905-4), MW-23 053116 (480-100905-5), MW-21 053116 (480-100905-6), DUP1-053116 (480-100905-7) and TRIP BLANK (480-100905-8).

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-22 053116 (480-100905-3) and DUP1-053116 (480-100905-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: ASW 053116 (480-100905-4), MW-23 053116 (480-100905-5), (480-100905-E-4 MS) and (480-100905-E-4 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria without performing re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-17 053116 (480-100905-1), MW-18 053116 (480-100905-2), MW-23 053116 (480-100905-5), MW-21 053116 (480-100905-6), DUP1-053116 (480-100905-7) and (480-100905-A-6-B MSD). These results have been reported and qualified.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-304484 and analytical batch 480-305015 recovered outside control limits for the following analyte: Benzaldehyde. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-305015 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether, Bis(2-chloroethyl)ether, Butyl benzyl phthalate, Di-n-octyl phthalate, Isophorone and N-Nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for these analytes, the data have been reported. MW-17 053116 (480-100905-1), MW-18 053116 (480-100905-2), MW-22 053116 (480-100905-3), MW-23 053116 (480-100905-5), MW-21 053116 (480-100905-6), DUP1-053116 (480-100905-7), (480-100905-A-6-A MS) and (480-100905-A-6-B MSD).

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria without performing re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: ASW 053116 (480-100905-4) and MW-23 053116 (480-100905-5). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-305211 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether, Isophorone and N-Nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.



## Case Narrative

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

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### Job ID: 480-100905-1 (Continued)

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#### Laboratory: TestAmerica Buffalo (Continued)

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: ASW 053116 (480-100905-4). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-23 053116 (480-100905-5).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-304484 and analytical batch 480-305211 recovered outside control limits for the following analyte: Benzaldehyde. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method(s) 3510C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: ASW 053116 (480-100905-4), MW-23 053116 (480-100905-5) and DUP1-053116 (480-100905-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-17 053116**

**Lab Sample ID: 480-100905-1**

**Date Collected: 05/31/16 10:24**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	3.5	ug/L			06/06/16 15:10	10
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/06/16 15:10	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			06/06/16 15:10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			06/06/16 15:10	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/06/16 15:10	10
1,1-Dichloroethane	ND		10	3.8	ug/L			06/06/16 15:10	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/06/16 15:10	10
1,1-Dichloropropene	ND		10	7.2	ug/L			06/06/16 15:10	10
1,2,3-Trichlorobenzene	ND		10	4.1	ug/L			06/06/16 15:10	10
1,2,3-Trichloropropane	ND		10	8.9	ug/L			06/06/16 15:10	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			06/06/16 15:10	10
<b>1,2,4-Trimethylbenzene</b>	<b>170</b>		10	7.5	ug/L			06/06/16 15:10	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/06/16 15:10	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/06/16 15:10	10
<b>1,2-Dichlorobenzene</b>	<b>14</b>		10	7.9	ug/L			06/06/16 15:10	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/06/16 15:10	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/06/16 15:10	10
<b>1,3,5-Trimethylbenzene</b>	<b>100</b>		10	7.7	ug/L			06/06/16 15:10	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			06/06/16 15:10	10
1,3-Dichloropropane	ND		10	7.5	ug/L			06/06/16 15:10	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/06/16 15:10	10
2,2-Dichloropropane	ND		10	4.0	ug/L			06/06/16 15:10	10
2-Butanone (MEK)	ND		100	13	ug/L			06/06/16 15:10	10
2-Chlorotoluene	ND		10	8.6	ug/L			06/06/16 15:10	10
2-Hexanone	ND		50	12	ug/L			06/06/16 15:10	10
4-Chlorotoluene	ND		10	8.4	ug/L			06/06/16 15:10	10
<b>4-Isopropyltoluene</b>	<b>19</b>		10	3.1	ug/L			06/06/16 15:10	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/06/16 15:10	10
Acetone	ND		100	30	ug/L			06/06/16 15:10	10
Benzene	ND		10	4.1	ug/L			06/06/16 15:10	10
Bromobenzene	ND		10	8.0	ug/L			06/06/16 15:10	10
Bromodichloromethane	ND		10	3.9	ug/L			06/06/16 15:10	10
Bromoform	ND		10	2.6	ug/L			06/06/16 15:10	10
Bromomethane	ND		10	6.9	ug/L			06/06/16 15:10	10
<b>Carbon disulfide</b>	<b>4.4 J</b>		10	1.9	ug/L			06/06/16 15:10	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/06/16 15:10	10
Chlorobenzene	ND		10	7.5	ug/L			06/06/16 15:10	10
Chlorobromomethane	ND		10	8.7	ug/L			06/06/16 15:10	10
Chloroethane	ND		10	3.2	ug/L			06/06/16 15:10	10
Chloroform	ND		10	3.4	ug/L			06/06/16 15:10	10
Chloromethane	ND		10	3.5	ug/L			06/06/16 15:10	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			06/06/16 15:10	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/06/16 15:10	10
Cyclohexane	ND		10	1.8	ug/L			06/06/16 15:10	10
Dibromochloromethane	ND		10	3.2	ug/L			06/06/16 15:10	10
Dibromomethane	ND		10	4.1	ug/L			06/06/16 15:10	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/06/16 15:10	10
Ethylbenzene	ND		10	7.4	ug/L			06/06/16 15:10	10
Hexachlorobutadiene	ND		10	2.8	ug/L			06/06/16 15:10	10

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-17 053116**

**Lab Sample ID: 480-100905-1**

**Date Collected: 05/31/16 10:24**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		10	3.0	ug/L			06/06/16 15:10	10
Isopropylbenzene	ND		10	7.9	ug/L			06/06/16 15:10	10
m,p-Xylene	ND		20	6.6	ug/L			06/06/16 15:10	10
Methyl acetate	ND		25	13	ug/L			06/06/16 15:10	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/06/16 15:10	10
Methylcyclohexane	ND		10	1.6	ug/L			06/06/16 15:10	10
Methylene Chloride	ND		10	4.4	ug/L			06/06/16 15:10	10
<b>Naphthalene</b>	<b>26</b>		10	4.3	ug/L			06/06/16 15:10	10
<b>n-Butylbenzene</b>	<b>22</b>		10	6.4	ug/L			06/06/16 15:10	10
N-Propylbenzene	ND		10	6.9	ug/L			06/06/16 15:10	10
<b>o-Xylene</b>	<b>23</b>		10	7.6	ug/L			06/06/16 15:10	10
<b>sec-Butylbenzene</b>	<b>7.9 J</b>		10	7.5	ug/L			06/06/16 15:10	10
Styrene	ND		10	7.3	ug/L			06/06/16 15:10	10
tert-Butylbenzene	ND		10	8.1	ug/L			06/06/16 15:10	10
Tetrachloroethene	ND		10	3.6	ug/L			06/06/16 15:10	10
Toluene	ND		10	5.1	ug/L			06/06/16 15:10	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/06/16 15:10	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/06/16 15:10	10
Trichloroethene	ND		10	4.6	ug/L			06/06/16 15:10	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/06/16 15:10	10
Vinyl acetate	ND		50	8.5	ug/L			06/06/16 15:10	10
Vinyl chloride	ND		10	9.0	ug/L			06/06/16 15:10	10
<b>Xylenes, Total</b>	<b>23</b>		20	6.6	ug/L			06/06/16 15:10	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		06/06/16 15:10	10
4-Bromofluorobenzene (Surr)	111		73 - 120		06/06/16 15:10	10
Dibromofluoromethane (Surr)	101		60 - 140		06/06/16 15:10	10
Toluene-d8 (Surr)	98		71 - 126		06/06/16 15:10	10

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.9	0.64	ug/L		06/01/16 07:30	06/04/16 05:31	1
bis (2-chloroisopropyl) ether	ND		4.9	0.51	ug/L		06/01/16 07:30	06/04/16 05:31	1
2,4,5-Trichlorophenol	ND		4.9	0.47	ug/L		06/01/16 07:30	06/04/16 05:31	1
2,4,6-Trichlorophenol	ND		4.9	0.60	ug/L		06/01/16 07:30	06/04/16 05:31	1
2,4-Dichlorophenol	ND		4.9	0.50	ug/L		06/01/16 07:30	06/04/16 05:31	1
2,4-Dimethylphenol	ND		4.9	0.49	ug/L		06/01/16 07:30	06/04/16 05:31	1
2,4-Dinitrophenol	ND		9.9	2.2	ug/L		06/01/16 07:30	06/04/16 05:31	1
2,4-Dinitrotoluene	ND		4.9	0.44	ug/L		06/01/16 07:30	06/04/16 05:31	1
2,6-Dinitrotoluene	ND		4.9	0.39	ug/L		06/01/16 07:30	06/04/16 05:31	1
2-Chloronaphthalene	ND		4.9	0.45	ug/L		06/01/16 07:30	06/04/16 05:31	1
2-Chlorophenol	ND		4.9	0.52	ug/L		06/01/16 07:30	06/04/16 05:31	1
2-Methylphenol	ND		4.9	0.39	ug/L		06/01/16 07:30	06/04/16 05:31	1
<b>2-Methylnaphthalene</b>	<b>0.69 J</b>		4.9	0.59	ug/L		06/01/16 07:30	06/04/16 05:31	1
2-Nitroaniline	ND		9.9	0.41	ug/L		06/01/16 07:30	06/04/16 05:31	1
2-Nitrophenol	ND		4.9	0.47	ug/L		06/01/16 07:30	06/04/16 05:31	1
3,3'-Dichlorobenzidine	ND		4.9	0.39	ug/L		06/01/16 07:30	06/04/16 05:31	1
3-Nitroaniline	ND		9.9	0.47	ug/L		06/01/16 07:30	06/04/16 05:31	1
4,6-Dinitro-2-methylphenol	ND		9.9	2.2	ug/L		06/01/16 07:30	06/04/16 05:31	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-17 053116**

**Lab Sample ID: 480-100905-1**

**Date Collected: 05/31/16 10:24**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		4.9	0.44	ug/L		06/01/16 07:30	06/04/16 05:31	1
4-Chloro-3-methylphenol	ND		4.9	0.44	ug/L		06/01/16 07:30	06/04/16 05:31	1
4-Chloroaniline	ND		4.9	0.58	ug/L		06/01/16 07:30	06/04/16 05:31	1
4-Chlorophenyl phenyl ether	ND		4.9	0.35	ug/L		06/01/16 07:30	06/04/16 05:31	1
<b>4-Methylphenol</b>	<b>6.7</b>	<b>J</b>	9.9	0.36	ug/L		06/01/16 07:30	06/04/16 05:31	1
4-Nitroaniline	ND		9.9	0.25	ug/L		06/01/16 07:30	06/04/16 05:31	1
4-Nitrophenol	ND		9.9	1.5	ug/L		06/01/16 07:30	06/04/16 05:31	1
Acenaphthene	ND		4.9	0.40	ug/L		06/01/16 07:30	06/04/16 05:31	1
Acenaphthylene	ND		4.9	0.37	ug/L		06/01/16 07:30	06/04/16 05:31	1
Acetophenone	ND		4.9	0.53	ug/L		06/01/16 07:30	06/04/16 05:31	1
Anthracene	ND		4.9	0.28	ug/L		06/01/16 07:30	06/04/16 05:31	1
Atrazine	ND		4.9	0.45	ug/L		06/01/16 07:30	06/04/16 05:31	1
Benzaldehyde	ND	*	4.9	0.26	ug/L		06/01/16 07:30	06/04/16 05:31	1
Benzo(a)anthracene	ND		4.9	0.36	ug/L		06/01/16 07:30	06/04/16 05:31	1
Benzo(a)pyrene	ND		4.9	0.46	ug/L		06/01/16 07:30	06/04/16 05:31	1
Benzo(b)fluoranthene	ND		4.9	0.34	ug/L		06/01/16 07:30	06/04/16 05:31	1
Benzo(g,h,i)perylene	ND		4.9	0.35	ug/L		06/01/16 07:30	06/04/16 05:31	1
Benzo(k)fluoranthene	ND		4.9	0.72	ug/L		06/01/16 07:30	06/04/16 05:31	1
Bis(2-chloroethoxy)methane	ND		4.9	0.35	ug/L		06/01/16 07:30	06/04/16 05:31	1
Bis(2-chloroethyl)ether	ND		4.9	0.39	ug/L		06/01/16 07:30	06/04/16 05:31	1
Bis(2-ethylhexyl) phthalate	ND		4.9	2.2	ug/L		06/01/16 07:30	06/04/16 05:31	1
Butyl benzyl phthalate	ND		4.9	0.99	ug/L		06/01/16 07:30	06/04/16 05:31	1
Caprolactam	ND		4.9	2.2	ug/L		06/01/16 07:30	06/04/16 05:31	1
Carbazole	ND		4.9	0.30	ug/L		06/01/16 07:30	06/04/16 05:31	1
Chrysene	ND		4.9	0.33	ug/L		06/01/16 07:30	06/04/16 05:31	1
Dibenz(a,h)anthracene	ND		4.9	0.41	ug/L		06/01/16 07:30	06/04/16 05:31	1
Di-n-butyl phthalate	ND		4.9	0.31	ug/L		06/01/16 07:30	06/04/16 05:31	1
Di-n-octyl phthalate	ND		4.9	0.46	ug/L		06/01/16 07:30	06/04/16 05:31	1
Dibenzofuran	ND		9.9	0.50	ug/L		06/01/16 07:30	06/04/16 05:31	1
Diethyl phthalate	ND		4.9	0.22	ug/L		06/01/16 07:30	06/04/16 05:31	1
Dimethyl phthalate	ND		4.9	0.36	ug/L		06/01/16 07:30	06/04/16 05:31	1
Fluoranthene	ND		4.9	0.39	ug/L		06/01/16 07:30	06/04/16 05:31	1
Fluorene	ND		4.9	0.36	ug/L		06/01/16 07:30	06/04/16 05:31	1
Hexachlorobenzene	ND		4.9	0.50	ug/L		06/01/16 07:30	06/04/16 05:31	1
Hexachlorobutadiene	ND		4.9	0.67	ug/L		06/01/16 07:30	06/04/16 05:31	1
Hexachlorocyclopentadiene	ND		4.9	0.58	ug/L		06/01/16 07:30	06/04/16 05:31	1
Hexachloroethane	ND		4.9	0.58	ug/L		06/01/16 07:30	06/04/16 05:31	1
Indeno(1,2,3-cd)pyrene	ND		4.9	0.46	ug/L		06/01/16 07:30	06/04/16 05:31	1
Isophorone	ND		4.9	0.42	ug/L		06/01/16 07:30	06/04/16 05:31	1
N-Nitrosodi-n-propylamine	ND		4.9	0.53	ug/L		06/01/16 07:30	06/04/16 05:31	1
N-Nitrosodiphenylamine	ND		4.9	0.50	ug/L		06/01/16 07:30	06/04/16 05:31	1
<b>Naphthalene</b>	<b>9.3</b>		4.9	0.75	ug/L		06/01/16 07:30	06/04/16 05:31	1
Nitrobenzene	ND		4.9	0.29	ug/L		06/01/16 07:30	06/04/16 05:31	1
Pentachlorophenol	ND		9.9	2.2	ug/L		06/01/16 07:30	06/04/16 05:31	1
Phenanthrene	ND		4.9	0.43	ug/L		06/01/16 07:30	06/04/16 05:31	1
Phenol	ND		4.9	0.38	ug/L		06/01/16 07:30	06/04/16 05:31	1
Pyrene	ND		4.9	0.34	ug/L		06/01/16 07:30	06/04/16 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	69		46 - 120	06/01/16 07:30	06/04/16 05:31	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-17 053116**

**Lab Sample ID: 480-100905-1**

**Date Collected: 05/31/16 10:24**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	33		16 - 120	06/01/16 07:30	06/04/16 05:31	1
p-Terphenyl-d14	54	X	67 - 150	06/01/16 07:30	06/04/16 05:31	1
2,4,6-Tribromophenol	106		52 - 132	06/01/16 07:30	06/04/16 05:31	1
2-Fluorobiphenyl	65		48 - 120	06/01/16 07:30	06/04/16 05:31	1
2-Fluorophenol	47		20 - 120	06/01/16 07:30	06/04/16 05:31	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.25	0.047	ug/L		06/01/16 07:52	06/07/16 14:42	5
4,4'-DDE	ND		0.25	0.059	ug/L		06/01/16 07:52	06/07/16 14:42	5
4,4'-DDT	ND		0.25	0.056	ug/L		06/01/16 07:52	06/07/16 14:42	5
Aldrin	ND		0.25	0.041	ug/L		06/01/16 07:52	06/07/16 14:42	5
alpha-BHC	ND		0.25	0.039	ug/L		06/01/16 07:52	06/07/16 14:42	5
alpha-Chlordane	ND		0.25	0.075	ug/L		06/01/16 07:52	06/07/16 14:42	5
beta-BHC	ND		0.25	0.13	ug/L		06/01/16 07:52	06/07/16 14:42	5
delta-BHC	ND		0.25	0.051	ug/L		06/01/16 07:52	06/07/16 14:42	5
Dieldrin	ND		0.25	0.050	ug/L		06/01/16 07:52	06/07/16 14:42	5
Endosulfan I	ND		0.25	0.056	ug/L		06/01/16 07:52	06/07/16 14:42	5
Endosulfan II	ND		0.25	0.061	ug/L		06/01/16 07:52	06/07/16 14:42	5
Endosulfan sulfate	ND		0.25	0.080	ug/L		06/01/16 07:52	06/07/16 14:42	5
Endrin	ND		0.25	0.070	ug/L		06/01/16 07:52	06/07/16 14:42	5
Endrin aldehyde	ND		0.25	0.083	ug/L		06/01/16 07:52	06/07/16 14:42	5
Endrin ketone	ND		0.25	0.061	ug/L		06/01/16 07:52	06/07/16 14:42	5
gamma-BHC (Lindane)	ND		0.25	0.041	ug/L		06/01/16 07:52	06/07/16 14:42	5
gamma-Chlordane	ND		0.25	0.056	ug/L		06/01/16 07:52	06/07/16 14:42	5
Heptachlor	ND		0.25	0.043	ug/L		06/01/16 07:52	06/07/16 14:42	5
Heptachlor epoxide	ND		0.25	0.037	ug/L		06/01/16 07:52	06/07/16 14:42	5
Methoxychlor	ND		0.25	0.071	ug/L		06/01/16 07:52	06/07/16 14:42	5
Toxaphene	ND		2.5	0.61	ug/L		06/01/16 07:52	06/07/16 14:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	64		20 - 120	06/01/16 07:52	06/07/16 14:42	5
Tetrachloro-m-xylene	102		36 - 120	06/01/16 07:52	06/07/16 14:42	5

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-18 053116**

**Lab Sample ID: 480-100905-2**

**Date Collected: 05/31/16 11:15**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	3.5	ug/L			06/06/16 15:37	10
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/06/16 15:37	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			06/06/16 15:37	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			06/06/16 15:37	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/06/16 15:37	10
1,1-Dichloroethane	ND		10	3.8	ug/L			06/06/16 15:37	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/06/16 15:37	10
1,1-Dichloropropene	ND		10	7.2	ug/L			06/06/16 15:37	10
1,2,3-Trichlorobenzene	ND		10	4.1	ug/L			06/06/16 15:37	10
1,2,3-Trichloropropane	ND		10	8.9	ug/L			06/06/16 15:37	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			06/06/16 15:37	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			06/06/16 15:37	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/06/16 15:37	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/06/16 15:37	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			06/06/16 15:37	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/06/16 15:37	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/06/16 15:37	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			06/06/16 15:37	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			06/06/16 15:37	10
1,3-Dichloropropane	ND		10	7.5	ug/L			06/06/16 15:37	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/06/16 15:37	10
2,2-Dichloropropane	ND		10	4.0	ug/L			06/06/16 15:37	10
2-Butanone (MEK)	ND		100	13	ug/L			06/06/16 15:37	10
2-Chlorotoluene	ND		10	8.6	ug/L			06/06/16 15:37	10
2-Hexanone	ND		50	12	ug/L			06/06/16 15:37	10
4-Chlorotoluene	ND		10	8.4	ug/L			06/06/16 15:37	10
4-Isopropyltoluene	ND		10	3.1	ug/L			06/06/16 15:37	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/06/16 15:37	10
Acetone	ND		100	30	ug/L			06/06/16 15:37	10
Benzene	ND		10	4.1	ug/L			06/06/16 15:37	10
Bromobenzene	ND		10	8.0	ug/L			06/06/16 15:37	10
Bromodichloromethane	ND		10	3.9	ug/L			06/06/16 15:37	10
Bromoform	ND		10	2.6	ug/L			06/06/16 15:37	10
Bromomethane	ND		10	6.9	ug/L			06/06/16 15:37	10
Carbon disulfide	ND		10	1.9	ug/L			06/06/16 15:37	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/06/16 15:37	10
Chlorobenzene	ND		10	7.5	ug/L			06/06/16 15:37	10
Chlorobromomethane	ND		10	8.7	ug/L			06/06/16 15:37	10
Chloroethane	ND		10	3.2	ug/L			06/06/16 15:37	10
Chloroform	ND		10	3.4	ug/L			06/06/16 15:37	10
Chloromethane	ND		10	3.5	ug/L			06/06/16 15:37	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			06/06/16 15:37	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/06/16 15:37	10
Cyclohexane	ND		10	1.8	ug/L			06/06/16 15:37	10
Dibromochloromethane	ND		10	3.2	ug/L			06/06/16 15:37	10
Dibromomethane	ND		10	4.1	ug/L			06/06/16 15:37	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/06/16 15:37	10
Ethylbenzene	ND		10	7.4	ug/L			06/06/16 15:37	10
Hexachlorobutadiene	ND		10	2.8	ug/L			06/06/16 15:37	10

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-18 053116**

**Lab Sample ID: 480-100905-2**

**Date Collected: 05/31/16 11:15**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		10	3.0	ug/L			06/06/16 15:37	10
Isopropylbenzene	ND		10	7.9	ug/L			06/06/16 15:37	10
m,p-Xylene	ND		20	6.6	ug/L			06/06/16 15:37	10
Methyl acetate	ND		25	13	ug/L			06/06/16 15:37	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/06/16 15:37	10
Methylcyclohexane	ND		10	1.6	ug/L			06/06/16 15:37	10
Methylene Chloride	ND		10	4.4	ug/L			06/06/16 15:37	10
Naphthalene	ND		10	4.3	ug/L			06/06/16 15:37	10
n-Butylbenzene	ND		10	6.4	ug/L			06/06/16 15:37	10
N-Propylbenzene	ND		10	6.9	ug/L			06/06/16 15:37	10
o-Xylene	ND		10	7.6	ug/L			06/06/16 15:37	10
sec-Butylbenzene	ND		10	7.5	ug/L			06/06/16 15:37	10
Styrene	ND		10	7.3	ug/L			06/06/16 15:37	10
tert-Butylbenzene	ND		10	8.1	ug/L			06/06/16 15:37	10
Tetrachloroethene	ND		10	3.6	ug/L			06/06/16 15:37	10
Toluene	ND		10	5.1	ug/L			06/06/16 15:37	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/06/16 15:37	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/06/16 15:37	10
Trichloroethene	ND		10	4.6	ug/L			06/06/16 15:37	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/06/16 15:37	10
Vinyl acetate	ND		50	8.5	ug/L			06/06/16 15:37	10
Vinyl chloride	ND		10	9.0	ug/L			06/06/16 15:37	10
Xylenes, Total	ND		20	6.6	ug/L			06/06/16 15:37	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		06/06/16 15:37	10
4-Bromofluorobenzene (Surr)	110		73 - 120		06/06/16 15:37	10
Dibromofluoromethane (Surr)	99		60 - 140		06/06/16 15:37	10
Toluene-d8 (Surr)	98		71 - 126		06/06/16 15:37	10

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		06/01/16 07:30	06/04/16 06:00	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		06/01/16 07:30	06/04/16 06:00	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		06/01/16 07:30	06/04/16 06:00	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		06/01/16 07:30	06/04/16 06:00	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		06/01/16 07:30	06/04/16 06:00	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		06/01/16 07:30	06/04/16 06:00	1
2,4-Dinitrophenol	ND		9.9	2.2	ug/L		06/01/16 07:30	06/04/16 06:00	1
2,4-Dinitrotoluene	ND		5.0	0.44	ug/L		06/01/16 07:30	06/04/16 06:00	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		06/01/16 07:30	06/04/16 06:00	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		06/01/16 07:30	06/04/16 06:00	1
2-Chlorophenol	ND		5.0	0.53	ug/L		06/01/16 07:30	06/04/16 06:00	1
2-Methylphenol	ND		5.0	0.40	ug/L		06/01/16 07:30	06/04/16 06:00	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		06/01/16 07:30	06/04/16 06:00	1
2-Nitroaniline	ND		9.9	0.42	ug/L		06/01/16 07:30	06/04/16 06:00	1
2-Nitrophenol	ND		5.0	0.48	ug/L		06/01/16 07:30	06/04/16 06:00	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/01/16 07:30	06/04/16 06:00	1
3-Nitroaniline	ND		9.9	0.48	ug/L		06/01/16 07:30	06/04/16 06:00	1
4,6-Dinitro-2-methylphenol	ND		9.9	2.2	ug/L		06/01/16 07:30	06/04/16 06:00	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-18 053116**

**Lab Sample ID: 480-100905-2**

**Date Collected: 05/31/16 11:15**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		06/01/16 07:30	06/04/16 06:00	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		06/01/16 07:30	06/04/16 06:00	1
4-Chloroaniline	ND		5.0	0.59	ug/L		06/01/16 07:30	06/04/16 06:00	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		06/01/16 07:30	06/04/16 06:00	1
4-Methylphenol	ND		9.9	0.36	ug/L		06/01/16 07:30	06/04/16 06:00	1
4-Nitroaniline	ND		9.9	0.25	ug/L		06/01/16 07:30	06/04/16 06:00	1
4-Nitrophenol	ND		9.9	1.5	ug/L		06/01/16 07:30	06/04/16 06:00	1
Acenaphthene	ND		5.0	0.41	ug/L		06/01/16 07:30	06/04/16 06:00	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/01/16 07:30	06/04/16 06:00	1
Acetophenone	ND		5.0	0.54	ug/L		06/01/16 07:30	06/04/16 06:00	1
Anthracene	ND		5.0	0.28	ug/L		06/01/16 07:30	06/04/16 06:00	1
Atrazine	ND		5.0	0.46	ug/L		06/01/16 07:30	06/04/16 06:00	1
Benzaldehyde	ND	*	5.0	0.27	ug/L		06/01/16 07:30	06/04/16 06:00	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/01/16 07:30	06/04/16 06:00	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/01/16 07:30	06/04/16 06:00	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/01/16 07:30	06/04/16 06:00	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/01/16 07:30	06/04/16 06:00	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/01/16 07:30	06/04/16 06:00	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		06/01/16 07:30	06/04/16 06:00	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		06/01/16 07:30	06/04/16 06:00	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		06/01/16 07:30	06/04/16 06:00	1
Butyl benzyl phthalate	ND		5.0	0.99	ug/L		06/01/16 07:30	06/04/16 06:00	1
Caprolactam	ND		5.0	2.2	ug/L		06/01/16 07:30	06/04/16 06:00	1
Carbazole	ND		5.0	0.30	ug/L		06/01/16 07:30	06/04/16 06:00	1
Chrysene	ND		5.0	0.33	ug/L		06/01/16 07:30	06/04/16 06:00	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/01/16 07:30	06/04/16 06:00	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		06/01/16 07:30	06/04/16 06:00	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		06/01/16 07:30	06/04/16 06:00	1
Dibenzofuran	ND		9.9	0.51	ug/L		06/01/16 07:30	06/04/16 06:00	1
Diethyl phthalate	ND		5.0	0.22	ug/L		06/01/16 07:30	06/04/16 06:00	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		06/01/16 07:30	06/04/16 06:00	1
Fluoranthene	ND		5.0	0.40	ug/L		06/01/16 07:30	06/04/16 06:00	1
Fluorene	ND		5.0	0.36	ug/L		06/01/16 07:30	06/04/16 06:00	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		06/01/16 07:30	06/04/16 06:00	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		06/01/16 07:30	06/04/16 06:00	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		06/01/16 07:30	06/04/16 06:00	1
Hexachloroethane	ND		5.0	0.59	ug/L		06/01/16 07:30	06/04/16 06:00	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		06/01/16 07:30	06/04/16 06:00	1
Isophorone	ND		5.0	0.43	ug/L		06/01/16 07:30	06/04/16 06:00	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		06/01/16 07:30	06/04/16 06:00	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		06/01/16 07:30	06/04/16 06:00	1
Naphthalene	ND		5.0	0.76	ug/L		06/01/16 07:30	06/04/16 06:00	1
Nitrobenzene	ND		5.0	0.29	ug/L		06/01/16 07:30	06/04/16 06:00	1
Pentachlorophenol	ND		9.9	2.2	ug/L		06/01/16 07:30	06/04/16 06:00	1
Phenanthrene	ND		5.0	0.44	ug/L		06/01/16 07:30	06/04/16 06:00	1
Phenol	ND		5.0	0.39	ug/L		06/01/16 07:30	06/04/16 06:00	1
Pyrene	ND		5.0	0.34	ug/L		06/01/16 07:30	06/04/16 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	52		46 - 120	06/01/16 07:30	06/04/16 06:00	1

TestAmerica Buffalo



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-18 053116**

**Lab Sample ID: 480-100905-2**

**Date Collected: 05/31/16 11:15**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	28		16 - 120	06/01/16 07:30	06/04/16 06:00	1
p-Terphenyl-d14	60	X	67 - 150	06/01/16 07:30	06/04/16 06:00	1
2,4,6-Tribromophenol	79		52 - 132	06/01/16 07:30	06/04/16 06:00	1
2-Fluorobiphenyl	56		48 - 120	06/01/16 07:30	06/04/16 06:00	1
2-Fluorophenol	39		20 - 120	06/01/16 07:30	06/04/16 06:00	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.049	0.0090	ug/L		06/01/16 07:52	06/07/16 15:02	1
4,4'-DDE	ND		0.049	0.011	ug/L		06/01/16 07:52	06/07/16 15:02	1
4,4'-DDT	ND		0.049	0.011	ug/L		06/01/16 07:52	06/07/16 15:02	1
Aldrin	ND		0.049	0.0079	ug/L		06/01/16 07:52	06/07/16 15:02	1
alpha-BHC	ND		0.049	0.0075	ug/L		06/01/16 07:52	06/07/16 15:02	1
alpha-Chlordane	ND		0.049	0.014	ug/L		06/01/16 07:52	06/07/16 15:02	1
beta-BHC	ND		0.049	0.024	ug/L		06/01/16 07:52	06/07/16 15:02	1
<b>delta-BHC</b>	<b>0.018</b>	<b>J</b>	0.049	0.0098	ug/L		06/01/16 07:52	06/07/16 15:02	1
Dieldrin	ND		0.049	0.0096	ug/L		06/01/16 07:52	06/07/16 15:02	1
Endosulfan I	ND		0.049	0.011	ug/L		06/01/16 07:52	06/07/16 15:02	1
Endosulfan II	ND		0.049	0.012	ug/L		06/01/16 07:52	06/07/16 15:02	1
Endosulfan sulfate	ND		0.049	0.015	ug/L		06/01/16 07:52	06/07/16 15:02	1
Endrin	ND		0.049	0.013	ug/L		06/01/16 07:52	06/07/16 15:02	1
Endrin aldehyde	ND		0.049	0.016	ug/L		06/01/16 07:52	06/07/16 15:02	1
Endrin ketone	ND		0.049	0.012	ug/L		06/01/16 07:52	06/07/16 15:02	1
gamma-BHC (Lindane)	ND		0.049	0.0078	ug/L		06/01/16 07:52	06/07/16 15:02	1
gamma-Chlordane	ND		0.049	0.011	ug/L		06/01/16 07:52	06/07/16 15:02	1
Heptachlor	ND		0.049	0.0083	ug/L		06/01/16 07:52	06/07/16 15:02	1
Heptachlor epoxide	ND		0.049	0.0072	ug/L		06/01/16 07:52	06/07/16 15:02	1
Methoxychlor	ND		0.049	0.014	ug/L		06/01/16 07:52	06/07/16 15:02	1
Toxaphene	ND		0.49	0.12	ug/L		06/01/16 07:52	06/07/16 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	37		20 - 120	06/01/16 07:52	06/07/16 15:02	1
Tetrachloro-m-xylene	85		36 - 120	06/01/16 07:52	06/07/16 15:02	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-22 053116**

**Lab Sample ID: 480-100905-3**

**Date Collected: 05/31/16 12:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.8	ug/L			06/07/16 12:03	5
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			06/07/16 12:03	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/07/16 12:03	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			06/07/16 12:03	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/07/16 12:03	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			06/07/16 12:03	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/07/16 12:03	5
1,1-Dichloropropene	ND		5.0	3.6	ug/L			06/07/16 12:03	5
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/L			06/07/16 12:03	5
1,2,3-Trichloropropane	ND		5.0	4.5	ug/L			06/07/16 12:03	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/07/16 12:03	5
<b>1,2,4-Trimethylbenzene</b>	<b>5.9</b>		5.0	3.8	ug/L			06/07/16 12:03	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/07/16 12:03	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/07/16 12:03	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/07/16 12:03	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/07/16 12:03	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/07/16 12:03	5
<b>1,3,5-Trimethylbenzene</b>	<b>5.2</b>		5.0	3.9	ug/L			06/07/16 12:03	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/07/16 12:03	5
1,3-Dichloropropane	ND		5.0	3.8	ug/L			06/07/16 12:03	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/07/16 12:03	5
2,2-Dichloropropane	ND		5.0	2.0	ug/L			06/07/16 12:03	5
2-Butanone (MEK)	ND		50	6.6	ug/L			06/07/16 12:03	5
2-Chlorotoluene	ND		5.0	4.3	ug/L			06/07/16 12:03	5
2-Hexanone	ND		25	6.2	ug/L			06/07/16 12:03	5
4-Chlorotoluene	ND		5.0	4.2	ug/L			06/07/16 12:03	5
<b>4-Isopropyltoluene</b>	<b>3.1 J</b>		5.0	1.6	ug/L			06/07/16 12:03	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/07/16 12:03	5
Acetone	ND		50	15	ug/L			06/07/16 12:03	5
Benzene	ND		5.0	2.1	ug/L			06/07/16 12:03	5
Bromobenzene	ND		5.0	4.0	ug/L			06/07/16 12:03	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/07/16 12:03	5
Bromoform	ND		5.0	1.3	ug/L			06/07/16 12:03	5
Bromomethane	ND		5.0	3.5	ug/L			06/07/16 12:03	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/07/16 12:03	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/07/16 12:03	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/07/16 12:03	5
Chlorobromomethane	ND		5.0	4.4	ug/L			06/07/16 12:03	5
Chloroethane	ND		5.0	1.6	ug/L			06/07/16 12:03	5
Chloroform	ND		5.0	1.7	ug/L			06/07/16 12:03	5
Chloromethane	ND		5.0	1.8	ug/L			06/07/16 12:03	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			06/07/16 12:03	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/07/16 12:03	5
Cyclohexane	ND		5.0	0.90	ug/L			06/07/16 12:03	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/07/16 12:03	5
Dibromomethane	ND		5.0	2.1	ug/L			06/07/16 12:03	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/07/16 12:03	5
Ethylbenzene	ND		5.0	3.7	ug/L			06/07/16 12:03	5
Hexachlorobutadiene	ND		5.0	1.4	ug/L			06/07/16 12:03	5

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-22 053116**

**Lab Sample ID: 480-100905-3**

**Date Collected: 05/31/16 12:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		5.0	1.5	ug/L			06/07/16 12:03	5
Isopropylbenzene	ND		5.0	4.0	ug/L			06/07/16 12:03	5
m,p-Xylene	ND		10	3.3	ug/L			06/07/16 12:03	5
Methyl acetate	ND		13	6.5	ug/L			06/07/16 12:03	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			06/07/16 12:03	5
Methylcyclohexane	ND		5.0	0.80	ug/L			06/07/16 12:03	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/07/16 12:03	5
Naphthalene	ND		5.0	2.2	ug/L			06/07/16 12:03	5
n-Butylbenzene	ND		5.0	3.2	ug/L			06/07/16 12:03	5
N-Propylbenzene	ND		5.0	3.5	ug/L			06/07/16 12:03	5
o-Xylene	ND		5.0	3.8	ug/L			06/07/16 12:03	5
sec-Butylbenzene	ND		5.0	3.8	ug/L			06/07/16 12:03	5
Styrene	ND		5.0	3.7	ug/L			06/07/16 12:03	5
tert-Butylbenzene	ND		5.0	4.1	ug/L			06/07/16 12:03	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/07/16 12:03	5
Toluene	ND		5.0	2.6	ug/L			06/07/16 12:03	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/07/16 12:03	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/07/16 12:03	5
Trichloroethene	ND		5.0	2.3	ug/L			06/07/16 12:03	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/07/16 12:03	5
Vinyl acetate	ND		25	4.3	ug/L			06/07/16 12:03	5
Vinyl chloride	ND		5.0	4.5	ug/L			06/07/16 12:03	5
Xylenes, Total	ND		10	3.3	ug/L			06/07/16 12:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		06/07/16 12:03	5
4-Bromofluorobenzene (Surr)	103		73 - 120		06/07/16 12:03	5
Dibromofluoromethane (Surr)	102		60 - 140		06/07/16 12:03	5
Toluene-d8 (Surr)	96		71 - 126		06/07/16 12:03	5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.8	0.62	ug/L		06/01/16 07:30	06/04/16 06:29	1
bis (2-chloroisopropyl) ether	ND		4.8	0.50	ug/L		06/01/16 07:30	06/04/16 06:29	1
2,4,5-Trichlorophenol	ND		4.8	0.46	ug/L		06/01/16 07:30	06/04/16 06:29	1
2,4,6-Trichlorophenol	ND		4.8	0.58	ug/L		06/01/16 07:30	06/04/16 06:29	1
2,4-Dichlorophenol	ND		4.8	0.49	ug/L		06/01/16 07:30	06/04/16 06:29	1
2,4-Dimethylphenol	ND		4.8	0.48	ug/L		06/01/16 07:30	06/04/16 06:29	1
2,4-Dinitrophenol	ND		9.5	2.1	ug/L		06/01/16 07:30	06/04/16 06:29	1
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L		06/01/16 07:30	06/04/16 06:29	1
2,6-Dinitrotoluene	ND		4.8	0.38	ug/L		06/01/16 07:30	06/04/16 06:29	1
2-Chloronaphthalene	ND		4.8	0.44	ug/L		06/01/16 07:30	06/04/16 06:29	1
2-Chlorophenol	ND		4.8	0.51	ug/L		06/01/16 07:30	06/04/16 06:29	1
2-Methylphenol	ND		4.8	0.38	ug/L		06/01/16 07:30	06/04/16 06:29	1
2-Methylnaphthalene	ND		4.8	0.57	ug/L		06/01/16 07:30	06/04/16 06:29	1
2-Nitroaniline	ND		9.5	0.40	ug/L		06/01/16 07:30	06/04/16 06:29	1
2-Nitrophenol	ND		4.8	0.46	ug/L		06/01/16 07:30	06/04/16 06:29	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		06/01/16 07:30	06/04/16 06:29	1
3-Nitroaniline	ND		9.5	0.46	ug/L		06/01/16 07:30	06/04/16 06:29	1
4,6-Dinitro-2-methylphenol	ND		9.5	2.1	ug/L		06/01/16 07:30	06/04/16 06:29	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-22 053116**

**Lab Sample ID: 480-100905-3**

**Date Collected: 05/31/16 12:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		4.8	0.43	ug/L		06/01/16 07:30	06/04/16 06:29	1
4-Chloro-3-methylphenol	ND		4.8	0.43	ug/L		06/01/16 07:30	06/04/16 06:29	1
4-Chloroaniline	ND		4.8	0.56	ug/L		06/01/16 07:30	06/04/16 06:29	1
4-Chlorophenyl phenyl ether	ND		4.8	0.33	ug/L		06/01/16 07:30	06/04/16 06:29	1
4-Methylphenol	ND		9.5	0.34	ug/L		06/01/16 07:30	06/04/16 06:29	1
4-Nitroaniline	ND		9.5	0.24	ug/L		06/01/16 07:30	06/04/16 06:29	1
4-Nitrophenol	ND		9.5	1.5	ug/L		06/01/16 07:30	06/04/16 06:29	1
Acenaphthene	ND		4.8	0.39	ug/L		06/01/16 07:30	06/04/16 06:29	1
Acenaphthylene	ND		4.8	0.36	ug/L		06/01/16 07:30	06/04/16 06:29	1
Acetophenone	ND		4.8	0.52	ug/L		06/01/16 07:30	06/04/16 06:29	1
Anthracene	ND		4.8	0.27	ug/L		06/01/16 07:30	06/04/16 06:29	1
Atrazine	ND		4.8	0.44	ug/L		06/01/16 07:30	06/04/16 06:29	1
Benzaldehyde	ND	*	4.8	0.25	ug/L		06/01/16 07:30	06/04/16 06:29	1
Benzo(a)anthracene	ND		4.8	0.34	ug/L		06/01/16 07:30	06/04/16 06:29	1
Benzo(a)pyrene	ND		4.8	0.45	ug/L		06/01/16 07:30	06/04/16 06:29	1
Benzo(b)fluoranthene	ND		4.8	0.32	ug/L		06/01/16 07:30	06/04/16 06:29	1
Benzo(g,h,i)perylene	ND		4.8	0.33	ug/L		06/01/16 07:30	06/04/16 06:29	1
Benzo(k)fluoranthene	ND		4.8	0.70	ug/L		06/01/16 07:30	06/04/16 06:29	1
Bis(2-chloroethoxy)methane	ND		4.8	0.33	ug/L		06/01/16 07:30	06/04/16 06:29	1
Bis(2-chloroethyl)ether	ND		4.8	0.38	ug/L		06/01/16 07:30	06/04/16 06:29	1
Bis(2-ethylhexyl) phthalate	ND		4.8	2.1	ug/L		06/01/16 07:30	06/04/16 06:29	1
Butyl benzyl phthalate	ND		4.8	0.95	ug/L		06/01/16 07:30	06/04/16 06:29	1
Caprolactam	ND		4.8	2.1	ug/L		06/01/16 07:30	06/04/16 06:29	1
Carbazole	ND		4.8	0.29	ug/L		06/01/16 07:30	06/04/16 06:29	1
Chrysene	ND		4.8	0.31	ug/L		06/01/16 07:30	06/04/16 06:29	1
Dibenz(a,h)anthracene	ND		4.8	0.40	ug/L		06/01/16 07:30	06/04/16 06:29	1
<b>Di-n-butyl phthalate</b>	<b>0.48</b>	<b>J</b>	4.8	0.30	ug/L		06/01/16 07:30	06/04/16 06:29	1
Di-n-octyl phthalate	ND		4.8	0.45	ug/L		06/01/16 07:30	06/04/16 06:29	1
Dibenzofuran	ND		9.5	0.49	ug/L		06/01/16 07:30	06/04/16 06:29	1
Diethyl phthalate	ND		4.8	0.21	ug/L		06/01/16 07:30	06/04/16 06:29	1
Dimethyl phthalate	ND		4.8	0.34	ug/L		06/01/16 07:30	06/04/16 06:29	1
Fluoranthene	ND		4.8	0.38	ug/L		06/01/16 07:30	06/04/16 06:29	1
Fluorene	ND		4.8	0.34	ug/L		06/01/16 07:30	06/04/16 06:29	1
Hexachlorobenzene	ND		4.8	0.49	ug/L		06/01/16 07:30	06/04/16 06:29	1
Hexachlorobutadiene	ND		4.8	0.65	ug/L		06/01/16 07:30	06/04/16 06:29	1
Hexachlorocyclopentadiene	ND		4.8	0.56	ug/L		06/01/16 07:30	06/04/16 06:29	1
Hexachloroethane	ND		4.8	0.56	ug/L		06/01/16 07:30	06/04/16 06:29	1
Indeno(1,2,3-cd)pyrene	ND		4.8	0.45	ug/L		06/01/16 07:30	06/04/16 06:29	1
Isophorone	ND		4.8	0.41	ug/L		06/01/16 07:30	06/04/16 06:29	1
N-Nitrosodi-n-propylamine	ND		4.8	0.52	ug/L		06/01/16 07:30	06/04/16 06:29	1
N-Nitrosodiphenylamine	ND		4.8	0.49	ug/L		06/01/16 07:30	06/04/16 06:29	1
Naphthalene	ND		4.8	0.73	ug/L		06/01/16 07:30	06/04/16 06:29	1
Nitrobenzene	ND		4.8	0.28	ug/L		06/01/16 07:30	06/04/16 06:29	1
Pentachlorophenol	ND		9.5	2.1	ug/L		06/01/16 07:30	06/04/16 06:29	1
Phenanthrene	ND		4.8	0.42	ug/L		06/01/16 07:30	06/04/16 06:29	1
Phenol	ND		4.8	0.37	ug/L		06/01/16 07:30	06/04/16 06:29	1
Pyrene	ND		4.8	0.32	ug/L		06/01/16 07:30	06/04/16 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	76		46 - 120	06/01/16 07:30	06/04/16 06:29	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-22 053116**

**Lab Sample ID: 480-100905-3**

**Date Collected: 05/31/16 12:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	35		16 - 120	06/01/16 07:30	06/04/16 06:29	1
p-Terphenyl-d14	83		67 - 150	06/01/16 07:30	06/04/16 06:29	1
2,4,6-Tribromophenol	125		52 - 132	06/01/16 07:30	06/04/16 06:29	1
2-Fluorobiphenyl	85		48 - 120	06/01/16 07:30	06/04/16 06:29	1
2-Fluorophenol	48		20 - 120	06/01/16 07:30	06/04/16 06:29	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.096	0.018	ug/L		06/01/16 07:52	06/07/16 15:21	2
4,4'-DDE	ND		0.096	0.022	ug/L		06/01/16 07:52	06/07/16 15:21	2
4,4'-DDT	ND		0.096	0.021	ug/L		06/01/16 07:52	06/07/16 15:21	2
Aldrin	ND		0.096	0.016	ug/L		06/01/16 07:52	06/07/16 15:21	2
alpha-BHC	ND		0.096	0.015	ug/L		06/01/16 07:52	06/07/16 15:21	2
alpha-Chlordane	ND		0.096	0.028	ug/L		06/01/16 07:52	06/07/16 15:21	2
beta-BHC	ND		0.096	0.048	ug/L		06/01/16 07:52	06/07/16 15:21	2
delta-BHC	ND		0.096	0.019	ug/L		06/01/16 07:52	06/07/16 15:21	2
Dieldrin	ND		0.096	0.019	ug/L		06/01/16 07:52	06/07/16 15:21	2
Endosulfan I	ND		0.096	0.021	ug/L		06/01/16 07:52	06/07/16 15:21	2
Endosulfan II	ND		0.096	0.023	ug/L		06/01/16 07:52	06/07/16 15:21	2
Endosulfan sulfate	ND		0.096	0.030	ug/L		06/01/16 07:52	06/07/16 15:21	2
Endrin	ND		0.096	0.026	ug/L		06/01/16 07:52	06/07/16 15:21	2
Endrin aldehyde	ND		0.096	0.031	ug/L		06/01/16 07:52	06/07/16 15:21	2
Endrin ketone	ND		0.096	0.023	ug/L		06/01/16 07:52	06/07/16 15:21	2
gamma-BHC (Lindane)	ND		0.096	0.015	ug/L		06/01/16 07:52	06/07/16 15:21	2
<b>gamma-Chlordane</b>	<b>0.22</b>		0.096	0.021	ug/L		06/01/16 07:52	06/07/16 15:21	2
Heptachlor	ND		0.096	0.016	ug/L		06/01/16 07:52	06/07/16 15:21	2
Heptachlor epoxide	ND		0.096	0.014	ug/L		06/01/16 07:52	06/07/16 15:21	2
Methoxychlor	ND		0.096	0.027	ug/L		06/01/16 07:52	06/07/16 15:21	2
Toxaphene	ND		0.96	0.23	ug/L		06/01/16 07:52	06/07/16 15:21	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	31		20 - 120	06/01/16 07:52	06/07/16 15:21	2
Tetrachloro-m-xylene	65		36 - 120	06/01/16 07:52	06/07/16 15:21	2

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: ASW 053116**

**Lab Sample ID: 480-100905-4**

**Date Collected: 05/31/16 12:40**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	7.0	ug/L			06/07/16 12:30	20
1,1,1-Trichloroethane	ND		20	16	ug/L			06/07/16 12:30	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			06/07/16 12:30	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			06/07/16 12:30	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			06/07/16 12:30	20
1,1-Dichloroethane	ND		20	7.6	ug/L			06/07/16 12:30	20
1,1-Dichloroethene	ND		20	5.8	ug/L			06/07/16 12:30	20
1,1-Dichloropropene	ND		20	14	ug/L			06/07/16 12:30	20
1,2,3-Trichlorobenzene	ND		20	8.2	ug/L			06/07/16 12:30	20
1,2,3-Trichloropropane	ND		20	18	ug/L			06/07/16 12:30	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			06/07/16 12:30	20
<b>1,2,4-Trimethylbenzene</b>	<b>970</b>	<b>F1</b>	20	15	ug/L			06/07/16 12:30	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			06/07/16 12:30	20
1,2-Dibromoethane	ND		20	15	ug/L			06/07/16 12:30	20
<b>1,2-Dichlorobenzene</b>	<b>35</b>		20	16	ug/L			06/07/16 12:30	20
1,2-Dichloroethane	ND		20	4.2	ug/L			06/07/16 12:30	20
1,2-Dichloropropane	ND		20	14	ug/L			06/07/16 12:30	20
<b>1,3,5-Trimethylbenzene</b>	<b>380</b>		20	15	ug/L			06/07/16 12:30	20
1,3-Dichlorobenzene	ND		20	16	ug/L			06/07/16 12:30	20
1,3-Dichloropropane	ND		20	15	ug/L			06/07/16 12:30	20
1,4-Dichlorobenzene	ND		20	17	ug/L			06/07/16 12:30	20
2,2-Dichloropropane	ND		20	8.0	ug/L			06/07/16 12:30	20
2-Butanone (MEK)	ND		200	26	ug/L			06/07/16 12:30	20
2-Chlorotoluene	ND		20	17	ug/L			06/07/16 12:30	20
2-Hexanone	ND		100	25	ug/L			06/07/16 12:30	20
4-Chlorotoluene	ND		20	17	ug/L			06/07/16 12:30	20
<b>4-Isopropyltoluene</b>	<b>58</b>		20	6.2	ug/L			06/07/16 12:30	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			06/07/16 12:30	20
<b>Acetone</b>	<b>190</b>	<b>J</b>	200	60	ug/L			06/07/16 12:30	20
Benzene	ND		20	8.2	ug/L			06/07/16 12:30	20
Bromobenzene	ND		20	16	ug/L			06/07/16 12:30	20
Bromodichloromethane	ND		20	7.8	ug/L			06/07/16 12:30	20
Bromoform	ND		20	5.2	ug/L			06/07/16 12:30	20
Bromomethane	ND		20	14	ug/L			06/07/16 12:30	20
Carbon disulfide	ND		20	3.8	ug/L			06/07/16 12:30	20
Carbon tetrachloride	ND		20	5.4	ug/L			06/07/16 12:30	20
Chlorobenzene	ND		20	15	ug/L			06/07/16 12:30	20
Chlorobromomethane	ND		20	17	ug/L			06/07/16 12:30	20
<b>Chloroethane</b>	<b>14</b>	<b>J</b>	20	6.4	ug/L			06/07/16 12:30	20
Chloroform	ND		20	6.8	ug/L			06/07/16 12:30	20
<b>Chloromethane</b>	<b>70</b>		20	7.0	ug/L			06/07/16 12:30	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			06/07/16 12:30	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			06/07/16 12:30	20
Cyclohexane	ND		20	3.6	ug/L			06/07/16 12:30	20
Dibromochloromethane	ND		20	6.4	ug/L			06/07/16 12:30	20
Dibromomethane	ND		20	8.2	ug/L			06/07/16 12:30	20
Dichlorodifluoromethane	ND		20	14	ug/L			06/07/16 12:30	20
<b>Ethylbenzene</b>	<b>140</b>		20	15	ug/L			06/07/16 12:30	20
Hexachlorobutadiene	ND		20	5.6	ug/L			06/07/16 12:30	20

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: ASW 053116**

**Lab Sample ID: 480-100905-4**

**Date Collected: 05/31/16 12:40**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		20	6.0	ug/L			06/07/16 12:30	20
<b>Isopropylbenzene</b>	<b>56</b>		20	16	ug/L			06/07/16 12:30	20
<b>m,p-Xylene</b>	<b>730</b>	<b>F1</b>	40	13	ug/L			06/07/16 12:30	20
Methyl acetate	ND		50	26	ug/L			06/07/16 12:30	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			06/07/16 12:30	20
<b>Methylcyclohexane</b>	<b>34</b>		20	3.2	ug/L			06/07/16 12:30	20
Methylene Chloride	ND		20	8.8	ug/L			06/07/16 12:30	20
<b>Naphthalene</b>	<b>110</b>		20	8.6	ug/L			06/07/16 12:30	20
<b>n-Butylbenzene</b>	<b>97</b>		20	13	ug/L			06/07/16 12:30	20
<b>N-Propylbenzene</b>	<b>110</b>		20	14	ug/L			06/07/16 12:30	20
<b>o-Xylene</b>	<b>420</b>	<b>F1</b>	20	15	ug/L			06/07/16 12:30	20
<b>sec-Butylbenzene</b>	<b>47</b>		20	15	ug/L			06/07/16 12:30	20
Styrene	ND		20	15	ug/L			06/07/16 12:30	20
tert-Butylbenzene	ND		20	16	ug/L			06/07/16 12:30	20
<b>Tetrachloroethene</b>	<b>34</b>		20	7.2	ug/L			06/07/16 12:30	20
<b>Toluene</b>	<b>10</b>	<b>J</b>	20	10	ug/L			06/07/16 12:30	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			06/07/16 12:30	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			06/07/16 12:30	20
Trichloroethene	ND		20	9.2	ug/L			06/07/16 12:30	20
Trichlorofluoromethane	ND		20	18	ug/L			06/07/16 12:30	20
Vinyl acetate	ND		100	17	ug/L			06/07/16 12:30	20
Vinyl chloride	ND		20	18	ug/L			06/07/16 12:30	20
<b>Xylenes, Total</b>	<b>1200</b>	<b>F1</b>	40	13	ug/L			06/07/16 12:30	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		06/07/16 12:30	20
4-Bromofluorobenzene (Surr)	104		73 - 120		06/07/16 12:30	20
Dibromofluoromethane (Surr)	102		60 - 140		06/07/16 12:30	20
Toluene-d8 (Surr)	97		71 - 126		06/07/16 12:30	20

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		48	6.2	ug/L		06/01/16 07:30	06/06/16 10:11	10
bis (2-chloroisopropyl) ether	ND		48	5.0	ug/L		06/01/16 07:30	06/06/16 10:11	10
2,4,5-Trichlorophenol	ND		48	4.6	ug/L		06/01/16 07:30	06/06/16 10:11	10
2,4,6-Trichlorophenol	ND		48	5.8	ug/L		06/01/16 07:30	06/06/16 10:11	10
2,4-Dichlorophenol	ND		48	4.9	ug/L		06/01/16 07:30	06/06/16 10:11	10
<b>2,4-Dimethylphenol</b>	<b>8.9</b>	<b>J</b>	48	4.8	ug/L		06/01/16 07:30	06/06/16 10:11	10
2,4-Dinitrophenol	ND		95	21	ug/L		06/01/16 07:30	06/06/16 10:11	10
2,4-Dinitrotoluene	ND		48	4.3	ug/L		06/01/16 07:30	06/06/16 10:11	10
2,6-Dinitrotoluene	ND		48	3.8	ug/L		06/01/16 07:30	06/06/16 10:11	10
2-Chloronaphthalene	ND		48	4.4	ug/L		06/01/16 07:30	06/06/16 10:11	10
2-Chlorophenol	ND		48	5.1	ug/L		06/01/16 07:30	06/06/16 10:11	10
2-Methylphenol	ND		48	3.8	ug/L		06/01/16 07:30	06/06/16 10:11	10
<b>2-Methylnaphthalene</b>	<b>28</b>	<b>J</b>	48	5.7	ug/L		06/01/16 07:30	06/06/16 10:11	10
2-Nitroaniline	ND		95	4.0	ug/L		06/01/16 07:30	06/06/16 10:11	10
2-Nitrophenol	ND		48	4.6	ug/L		06/01/16 07:30	06/06/16 10:11	10
3,3'-Dichlorobenzidine	ND		48	3.8	ug/L		06/01/16 07:30	06/06/16 10:11	10
3-Nitroaniline	ND		95	4.6	ug/L		06/01/16 07:30	06/06/16 10:11	10
4,6-Dinitro-2-methylphenol	ND		95	21	ug/L		06/01/16 07:30	06/06/16 10:11	10

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: ASW 053116**

**Lab Sample ID: 480-100905-4**

**Date Collected: 05/31/16 12:40**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		48	4.3	ug/L		06/01/16 07:30	06/06/16 10:11	10
4-Chloro-3-methylphenol	ND		48	4.3	ug/L		06/01/16 07:30	06/06/16 10:11	10
4-Chloroaniline	ND		48	5.6	ug/L		06/01/16 07:30	06/06/16 10:11	10
4-Chlorophenyl phenyl ether	ND		48	3.3	ug/L		06/01/16 07:30	06/06/16 10:11	10
4-Methylphenol	ND		95	3.4	ug/L		06/01/16 07:30	06/06/16 10:11	10
4-Nitroaniline	ND		95	2.4	ug/L		06/01/16 07:30	06/06/16 10:11	10
4-Nitrophenol	ND		95	15	ug/L		06/01/16 07:30	06/06/16 10:11	10
Acenaphthene	ND		48	3.9	ug/L		06/01/16 07:30	06/06/16 10:11	10
Acenaphthylene	ND		48	3.6	ug/L		06/01/16 07:30	06/06/16 10:11	10
Acetophenone	ND		48	5.2	ug/L		06/01/16 07:30	06/06/16 10:11	10
Anthracene	ND		48	2.7	ug/L		06/01/16 07:30	06/06/16 10:11	10
Atrazine	ND		48	4.4	ug/L		06/01/16 07:30	06/06/16 10:11	10
Benzaldehyde	ND	*	48	2.5	ug/L		06/01/16 07:30	06/06/16 10:11	10
Benzo(a)anthracene	ND		48	3.4	ug/L		06/01/16 07:30	06/06/16 10:11	10
Benzo(a)pyrene	ND		48	4.5	ug/L		06/01/16 07:30	06/06/16 10:11	10
Benzo(b)fluoranthene	ND		48	3.2	ug/L		06/01/16 07:30	06/06/16 10:11	10
Benzo(g,h,i)perylene	ND		48	3.3	ug/L		06/01/16 07:30	06/06/16 10:11	10
Benzo(k)fluoranthene	ND		48	7.0	ug/L		06/01/16 07:30	06/06/16 10:11	10
Bis(2-chloroethoxy)methane	ND		48	3.3	ug/L		06/01/16 07:30	06/06/16 10:11	10
Bis(2-chloroethyl)ether	ND		48	3.8	ug/L		06/01/16 07:30	06/06/16 10:11	10
Bis(2-ethylhexyl) phthalate	ND		48	21	ug/L		06/01/16 07:30	06/06/16 10:11	10
Butyl benzyl phthalate	ND		48	9.5	ug/L		06/01/16 07:30	06/06/16 10:11	10
Caprolactam	ND		48	21	ug/L		06/01/16 07:30	06/06/16 10:11	10
Carbazole	ND		48	2.9	ug/L		06/01/16 07:30	06/06/16 10:11	10
Chrysene	ND		48	3.1	ug/L		06/01/16 07:30	06/06/16 10:11	10
Dibenz(a,h)anthracene	ND		48	4.0	ug/L		06/01/16 07:30	06/06/16 10:11	10
Di-n-butyl phthalate	ND		48	3.0	ug/L		06/01/16 07:30	06/06/16 10:11	10
Di-n-octyl phthalate	ND		48	4.5	ug/L		06/01/16 07:30	06/06/16 10:11	10
Dibenzofuran	ND		95	4.9	ug/L		06/01/16 07:30	06/06/16 10:11	10
Diethyl phthalate	ND		48	2.1	ug/L		06/01/16 07:30	06/06/16 10:11	10
Dimethyl phthalate	ND		48	3.4	ug/L		06/01/16 07:30	06/06/16 10:11	10
Fluoranthene	ND		48	3.8	ug/L		06/01/16 07:30	06/06/16 10:11	10
Fluorene	ND		48	3.4	ug/L		06/01/16 07:30	06/06/16 10:11	10
Hexachlorobenzene	ND		48	4.9	ug/L		06/01/16 07:30	06/06/16 10:11	10
Hexachlorobutadiene	ND		48	6.5	ug/L		06/01/16 07:30	06/06/16 10:11	10
Hexachlorocyclopentadiene	ND		48	5.6	ug/L		06/01/16 07:30	06/06/16 10:11	10
Hexachloroethane	ND		48	5.6	ug/L		06/01/16 07:30	06/06/16 10:11	10
Indeno(1,2,3-cd)pyrene	ND		48	4.5	ug/L		06/01/16 07:30	06/06/16 10:11	10
Isophorone	ND		48	4.1	ug/L		06/01/16 07:30	06/06/16 10:11	10
N-Nitrosodi-n-propylamine	ND		48	5.2	ug/L		06/01/16 07:30	06/06/16 10:11	10
N-Nitrosodiphenylamine	ND		48	4.9	ug/L		06/01/16 07:30	06/06/16 10:11	10
<b>Naphthalene</b>	<b>65</b>		48	7.3	ug/L		06/01/16 07:30	06/06/16 10:11	10
Nitrobenzene	ND		48	2.8	ug/L		06/01/16 07:30	06/06/16 10:11	10
Pentachlorophenol	ND		95	21	ug/L		06/01/16 07:30	06/06/16 10:11	10
Phenanthrene	ND		48	4.2	ug/L		06/01/16 07:30	06/06/16 10:11	10
Phenol	ND		48	3.7	ug/L		06/01/16 07:30	06/06/16 10:11	10
Pyrene	ND		48	3.2	ug/L		06/01/16 07:30	06/06/16 10:11	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		46 - 120	06/01/16 07:30	06/06/16 10:11	10

TestAmerica Buffalo



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: ASW 053116**

**Lab Sample ID: 480-100905-4**

**Date Collected: 05/31/16 12:40**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	27		16 - 120	06/01/16 07:30	06/06/16 10:11	10
p-Terphenyl-d14	39	X	67 - 150	06/01/16 07:30	06/06/16 10:11	10
2,4,6-Tribromophenol	110		52 - 132	06/01/16 07:30	06/06/16 10:11	10
2-Fluorobiphenyl	74		48 - 120	06/01/16 07:30	06/06/16 10:11	10
2-Fluorophenol	40		20 - 120	06/01/16 07:30	06/06/16 10:11	10

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.048	0.0088	ug/L		06/01/16 07:52	06/07/16 15:41	1
4,4'-DDE	ND		0.048	0.011	ug/L		06/01/16 07:52	06/07/16 15:41	1
4,4'-DDT	ND		0.048	0.010	ug/L		06/01/16 07:52	06/07/16 15:41	1
Aldrin	ND		0.048	0.0077	ug/L		06/01/16 07:52	06/07/16 15:41	1
alpha-BHC	ND		0.048	0.0073	ug/L		06/01/16 07:52	06/07/16 15:41	1
alpha-Chlordane	ND		0.048	0.014	ug/L		06/01/16 07:52	06/07/16 15:41	1
beta-BHC	ND		0.048	0.024	ug/L		06/01/16 07:52	06/07/16 15:41	1
<b>delta-BHC</b>	<b>0.019</b>	<b>J</b>	0.048	0.0095	ug/L		06/01/16 07:52	06/07/16 15:41	1
Dieldrin	ND		0.048	0.0093	ug/L		06/01/16 07:52	06/07/16 15:41	1
Endosulfan I	ND		0.048	0.010	ug/L		06/01/16 07:52	06/07/16 15:41	1
Endosulfan II	ND		0.048	0.011	ug/L		06/01/16 07:52	06/07/16 15:41	1
Endosulfan sulfate	ND		0.048	0.015	ug/L		06/01/16 07:52	06/07/16 15:41	1
Endrin	ND		0.048	0.013	ug/L		06/01/16 07:52	06/07/16 15:41	1
Endrin aldehyde	ND		0.048	0.016	ug/L		06/01/16 07:52	06/07/16 15:41	1
Endrin ketone	ND		0.048	0.011	ug/L		06/01/16 07:52	06/07/16 15:41	1
gamma-BHC (Lindane)	ND		0.048	0.0076	ug/L		06/01/16 07:52	06/07/16 15:41	1
gamma-Chlordane	ND		0.048	0.010	ug/L		06/01/16 07:52	06/07/16 15:41	1
Heptachlor	ND		0.048	0.0081	ug/L		06/01/16 07:52	06/07/16 15:41	1
Heptachlor epoxide	ND		0.048	0.0071	ug/L		06/01/16 07:52	06/07/16 15:41	1
Methoxychlor	ND		0.048	0.013	ug/L		06/01/16 07:52	06/07/16 15:41	1
Toxaphene	ND		0.48	0.11	ug/L		06/01/16 07:52	06/07/16 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	36		20 - 120	06/01/16 07:52	06/07/16 15:41	1
Tetrachloro-m-xylene	69		36 - 120	06/01/16 07:52	06/07/16 15:41	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-23 053116**

**Lab Sample ID: 480-100905-5**

**Date Collected: 05/31/16 13:20**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	3.5	ug/L			06/07/16 12:57	10
1,1,1-Trichloroethane	ND		10	8.2	ug/L			06/07/16 12:57	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			06/07/16 12:57	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			06/07/16 12:57	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			06/07/16 12:57	10
1,1-Dichloroethane	ND		10	3.8	ug/L			06/07/16 12:57	10
1,1-Dichloroethene	ND		10	2.9	ug/L			06/07/16 12:57	10
1,1-Dichloropropene	ND		10	7.2	ug/L			06/07/16 12:57	10
1,2,3-Trichlorobenzene	ND		10	4.1	ug/L			06/07/16 12:57	10
1,2,3-Trichloropropane	ND		10	8.9	ug/L			06/07/16 12:57	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			06/07/16 12:57	10
<b>1,2,4-Trimethylbenzene</b>	<b>570</b>		10	7.5	ug/L			06/07/16 12:57	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			06/07/16 12:57	10
1,2-Dibromoethane	ND		10	7.3	ug/L			06/07/16 12:57	10
<b>1,2-Dichlorobenzene</b>	<b>34</b>		10	7.9	ug/L			06/07/16 12:57	10
1,2-Dichloroethane	ND		10	2.1	ug/L			06/07/16 12:57	10
1,2-Dichloropropane	ND		10	7.2	ug/L			06/07/16 12:57	10
<b>1,3,5-Trimethylbenzene</b>	<b>200</b>		10	7.7	ug/L			06/07/16 12:57	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			06/07/16 12:57	10
1,3-Dichloropropane	ND		10	7.5	ug/L			06/07/16 12:57	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			06/07/16 12:57	10
2,2-Dichloropropane	ND		10	4.0	ug/L			06/07/16 12:57	10
<b>2-Butanone (MEK)</b>	<b>28 J</b>		100	13	ug/L			06/07/16 12:57	10
2-Chlorotoluene	ND		10	8.6	ug/L			06/07/16 12:57	10
2-Hexanone	ND		50	12	ug/L			06/07/16 12:57	10
4-Chlorotoluene	ND		10	8.4	ug/L			06/07/16 12:57	10
<b>4-Isopropyltoluene</b>	<b>35</b>		10	3.1	ug/L			06/07/16 12:57	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			06/07/16 12:57	10
<b>Acetone</b>	<b>150</b>		100	30	ug/L			06/07/16 12:57	10
Benzene	ND		10	4.1	ug/L			06/07/16 12:57	10
Bromobenzene	ND		10	8.0	ug/L			06/07/16 12:57	10
Bromodichloromethane	ND		10	3.9	ug/L			06/07/16 12:57	10
Bromoform	ND		10	2.6	ug/L			06/07/16 12:57	10
Bromomethane	ND		10	6.9	ug/L			06/07/16 12:57	10
<b>Carbon disulfide</b>	<b>2.0 J</b>		10	1.9	ug/L			06/07/16 12:57	10
Carbon tetrachloride	ND		10	2.7	ug/L			06/07/16 12:57	10
Chlorobenzene	ND		10	7.5	ug/L			06/07/16 12:57	10
Chlorobromomethane	ND		10	8.7	ug/L			06/07/16 12:57	10
<b>Chloroethane</b>	<b>8.1 J</b>		10	3.2	ug/L			06/07/16 12:57	10
Chloroform	ND		10	3.4	ug/L			06/07/16 12:57	10
<b>Chloromethane</b>	<b>50</b>		10	3.5	ug/L			06/07/16 12:57	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			06/07/16 12:57	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			06/07/16 12:57	10
Cyclohexane	ND		10	1.8	ug/L			06/07/16 12:57	10
Dibromochloromethane	ND		10	3.2	ug/L			06/07/16 12:57	10
Dibromomethane	ND		10	4.1	ug/L			06/07/16 12:57	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			06/07/16 12:57	10
<b>Ethylbenzene</b>	<b>120</b>		10	7.4	ug/L			06/07/16 12:57	10
Hexachlorobutadiene	ND		10	2.8	ug/L			06/07/16 12:57	10

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-23 053116**

**Lab Sample ID: 480-100905-5**

**Date Collected: 05/31/16 13:20**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		10	3.0	ug/L			06/07/16 12:57	10
<b>Isopropylbenzene</b>	<b>41</b>		10	7.9	ug/L			06/07/16 12:57	10
<b>m,p-Xylene</b>	<b>540</b>		20	6.6	ug/L			06/07/16 12:57	10
Methyl acetate	ND		25	13	ug/L			06/07/16 12:57	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			06/07/16 12:57	10
<b>Methylcyclohexane</b>	<b>20</b>		10	1.6	ug/L			06/07/16 12:57	10
Methylene Chloride	ND		10	4.4	ug/L			06/07/16 12:57	10
<b>Naphthalene</b>	<b>85</b>		10	4.3	ug/L			06/07/16 12:57	10
<b>n-Butylbenzene</b>	<b>53</b>		10	6.4	ug/L			06/07/16 12:57	10
<b>N-Propylbenzene</b>	<b>68</b>		10	6.9	ug/L			06/07/16 12:57	10
<b>o-Xylene</b>	<b>260</b>		10	7.6	ug/L			06/07/16 12:57	10
<b>sec-Butylbenzene</b>	<b>27</b>		10	7.5	ug/L			06/07/16 12:57	10
Styrene	ND		10	7.3	ug/L			06/07/16 12:57	10
tert-Butylbenzene	ND		10	8.1	ug/L			06/07/16 12:57	10
Tetrachloroethene	ND		10	3.6	ug/L			06/07/16 12:57	10
<b>Toluene</b>	<b>9.4 J</b>		10	5.1	ug/L			06/07/16 12:57	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			06/07/16 12:57	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			06/07/16 12:57	10
Trichloroethene	ND		10	4.6	ug/L			06/07/16 12:57	10
Trichlorofluoromethane	ND		10	8.8	ug/L			06/07/16 12:57	10
Vinyl acetate	ND		50	8.5	ug/L			06/07/16 12:57	10
Vinyl chloride	ND		10	9.0	ug/L			06/07/16 12:57	10
<b>Xylenes, Total</b>	<b>800</b>		20	6.6	ug/L			06/07/16 12:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		06/07/16 12:57	10
4-Bromofluorobenzene (Surr)	102		73 - 120		06/07/16 12:57	10
Dibromofluoromethane (Surr)	103		60 - 140		06/07/16 12:57	10
Toluene-d8 (Surr)	97		71 - 126		06/07/16 12:57	10

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Biphenyl</b>	<b>0.95 J</b>		4.7	0.61	ug/L		06/01/16 07:30	06/04/16 07:28	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		06/01/16 07:30	06/04/16 07:28	1
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		06/01/16 07:30	06/04/16 07:28	1
2,4,6-Trichlorophenol	ND		4.7	0.57	ug/L		06/01/16 07:30	06/04/16 07:28	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		06/01/16 07:30	06/04/16 07:28	1
<b>2,4-Dimethylphenol</b>	<b>3.8 J</b>		4.7	0.47	ug/L		06/01/16 07:30	06/04/16 07:28	1
2,4-Dinitrophenol	ND		9.3	2.1	ug/L		06/01/16 07:30	06/04/16 07:28	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		06/01/16 07:30	06/04/16 07:28	1
2,6-Dinitrotoluene	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 07:28	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		06/01/16 07:30	06/04/16 07:28	1
2-Chlorophenol	ND		4.7	0.50	ug/L		06/01/16 07:30	06/04/16 07:28	1
2-Methylphenol	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 07:28	1
<b>2-Methylnaphthalene</b>	<b>20</b>		4.7	0.56	ug/L		06/01/16 07:30	06/04/16 07:28	1
2-Nitroaniline	ND		9.3	0.39	ug/L		06/01/16 07:30	06/04/16 07:28	1
2-Nitrophenol	ND		4.7	0.45	ug/L		06/01/16 07:30	06/04/16 07:28	1
3,3'-Dichlorobenzidine	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 07:28	1
3-Nitroaniline	ND		9.3	0.45	ug/L		06/01/16 07:30	06/04/16 07:28	1
4,6-Dinitro-2-methylphenol	ND		9.3	2.1	ug/L		06/01/16 07:30	06/04/16 07:28	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-23 053116**

**Lab Sample ID: 480-100905-5**

Date Collected: 05/31/16 13:20

Matrix: Water

Date Received: 06/01/16 01:30

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		4.7	0.42	ug/L		06/01/16 07:30	06/04/16 07:28	1
4-Chloro-3-methylphenol	ND		4.7	0.42	ug/L		06/01/16 07:30	06/04/16 07:28	1
4-Chloroaniline	ND		4.7	0.55	ug/L		06/01/16 07:30	06/04/16 07:28	1
4-Chlorophenyl phenyl ether	ND		4.7	0.33	ug/L		06/01/16 07:30	06/04/16 07:28	1
<b>4-Methylphenol</b>	<b>4.2</b>	<b>J</b>	9.3	0.34	ug/L		06/01/16 07:30	06/04/16 07:28	1
4-Nitroaniline	ND		9.3	0.23	ug/L		06/01/16 07:30	06/04/16 07:28	1
4-Nitrophenol	ND		9.3	1.4	ug/L		06/01/16 07:30	06/04/16 07:28	1
Acenaphthene	ND		4.7	0.38	ug/L		06/01/16 07:30	06/04/16 07:28	1
Acenaphthylene	ND		4.7	0.36	ug/L		06/01/16 07:30	06/04/16 07:28	1
Acetophenone	ND		4.7	0.50	ug/L		06/01/16 07:30	06/04/16 07:28	1
Anthracene	ND		4.7	0.26	ug/L		06/01/16 07:30	06/04/16 07:28	1
Atrazine	ND		4.7	0.43	ug/L		06/01/16 07:30	06/04/16 07:28	1
Benzaldehyde	ND	*	4.7	0.25	ug/L		06/01/16 07:30	06/04/16 07:28	1
Benzo(a)anthracene	ND		4.7	0.34	ug/L		06/01/16 07:30	06/04/16 07:28	1
Benzo(a)pyrene	ND		4.7	0.44	ug/L		06/01/16 07:30	06/04/16 07:28	1
Benzo(b)fluoranthene	ND		4.7	0.32	ug/L		06/01/16 07:30	06/04/16 07:28	1
Benzo(g,h,i)perylene	ND		4.7	0.33	ug/L		06/01/16 07:30	06/04/16 07:28	1
Benzo(k)fluoranthene	ND		4.7	0.68	ug/L		06/01/16 07:30	06/04/16 07:28	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		06/01/16 07:30	06/04/16 07:28	1
Bis(2-chloroethyl)ether	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 07:28	1
Bis(2-ethylhexyl) phthalate	ND		4.7	2.1	ug/L		06/01/16 07:30	06/04/16 07:28	1
Butyl benzyl phthalate	ND		4.7	0.93	ug/L		06/01/16 07:30	06/04/16 07:28	1
Caprolactam	ND		4.7	2.1	ug/L		06/01/16 07:30	06/04/16 07:28	1
Carbazole	ND		4.7	0.28	ug/L		06/01/16 07:30	06/04/16 07:28	1
Chrysene	ND		4.7	0.31	ug/L		06/01/16 07:30	06/04/16 07:28	1
Dibenz(a,h)anthracene	ND		4.7	0.39	ug/L		06/01/16 07:30	06/04/16 07:28	1
<b>Di-n-butyl phthalate</b>	<b>1.3</b>	<b>J</b>	4.7	0.29	ug/L		06/01/16 07:30	06/04/16 07:28	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		06/01/16 07:30	06/04/16 07:28	1
Dibenzofuran	ND		9.3	0.48	ug/L		06/01/16 07:30	06/04/16 07:28	1
Diethyl phthalate	ND		4.7	0.21	ug/L		06/01/16 07:30	06/04/16 07:28	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		06/01/16 07:30	06/04/16 07:28	1
Fluoranthene	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 07:28	1
Fluorene	ND		4.7	0.34	ug/L		06/01/16 07:30	06/04/16 07:28	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		06/01/16 07:30	06/04/16 07:28	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		06/01/16 07:30	06/04/16 07:28	1
Hexachlorocyclopentadiene	ND		4.7	0.55	ug/L		06/01/16 07:30	06/04/16 07:28	1
Hexachloroethane	ND		4.7	0.55	ug/L		06/01/16 07:30	06/04/16 07:28	1
Indeno(1,2,3-cd)pyrene	ND		4.7	0.44	ug/L		06/01/16 07:30	06/04/16 07:28	1
Isophorone	ND		4.7	0.40	ug/L		06/01/16 07:30	06/04/16 07:28	1
N-Nitrosodi-n-propylamine	ND		4.7	0.50	ug/L		06/01/16 07:30	06/04/16 07:28	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		06/01/16 07:30	06/04/16 07:28	1
Nitrobenzene	ND		4.7	0.27	ug/L		06/01/16 07:30	06/04/16 07:28	1
Pentachlorophenol	ND		9.3	2.1	ug/L		06/01/16 07:30	06/04/16 07:28	1
Phenanthrene	ND		4.7	0.41	ug/L		06/01/16 07:30	06/04/16 07:28	1
Phenol	ND		4.7	0.36	ug/L		06/01/16 07:30	06/04/16 07:28	1
Pyrene	ND		4.7	0.32	ug/L		06/01/16 07:30	06/04/16 07:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	70		46 - 120	06/01/16 07:30	06/04/16 07:28	1
Phenol-d5	38		16 - 120	06/01/16 07:30	06/04/16 07:28	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-23 053116**

**Lab Sample ID: 480-100905-5**

**Date Collected: 05/31/16 13:20**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl-d14	51	X	67 - 150	06/01/16 07:30	06/04/16 07:28	1
2,4,6-Tribromophenol	124		52 - 132	06/01/16 07:30	06/04/16 07:28	1
2-Fluorobiphenyl	80		48 - 120	06/01/16 07:30	06/04/16 07:28	1
2-Fluorophenol	49		20 - 120	06/01/16 07:30	06/04/16 07:28	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Naphthalene</b>	<b>59</b>		23	3.6	ug/L		06/01/16 07:30	06/06/16 10:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	74		46 - 120	06/01/16 07:30	06/06/16 10:41	5
Phenol-d5	38		16 - 120	06/01/16 07:30	06/06/16 10:41	5
<i>p</i> -Terphenyl-d14	50	X	67 - 150	06/01/16 07:30	06/06/16 10:41	5
2,4,6-Tribromophenol	111		52 - 132	06/01/16 07:30	06/06/16 10:41	5
2-Fluorobiphenyl	84		48 - 120	06/01/16 07:30	06/06/16 10:41	5
2-Fluorophenol	50		20 - 120	06/01/16 07:30	06/06/16 10:41	5

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.047	0.0086	ug/L		06/01/16 07:52	06/07/16 16:01	1
4,4'-DDE	ND		0.047	0.011	ug/L		06/01/16 07:52	06/07/16 16:01	1
4,4'-DDT	ND		0.047	0.010	ug/L		06/01/16 07:52	06/07/16 16:01	1
Aldrin	ND		0.047	0.0075	ug/L		06/01/16 07:52	06/07/16 16:01	1
alpha-BHC	ND		0.047	0.0072	ug/L		06/01/16 07:52	06/07/16 16:01	1
alpha-Chlordane	ND		0.047	0.014	ug/L		06/01/16 07:52	06/07/16 16:01	1
beta-BHC	ND		0.047	0.023	ug/L		06/01/16 07:52	06/07/16 16:01	1
<b>delta-BHC</b>	<b>0.015</b>	<b>J</b>	0.047	0.0093	ug/L		06/01/16 07:52	06/07/16 16:01	1
Dieldrin	ND		0.047	0.0091	ug/L		06/01/16 07:52	06/07/16 16:01	1
Endosulfan I	ND		0.047	0.010	ug/L		06/01/16 07:52	06/07/16 16:01	1
Endosulfan II	ND		0.047	0.011	ug/L		06/01/16 07:52	06/07/16 16:01	1
Endosulfan sulfate	ND		0.047	0.015	ug/L		06/01/16 07:52	06/07/16 16:01	1
Endrin	ND		0.047	0.013	ug/L		06/01/16 07:52	06/07/16 16:01	1
Endrin aldehyde	ND		0.047	0.015	ug/L		06/01/16 07:52	06/07/16 16:01	1
Endrin ketone	ND		0.047	0.011	ug/L		06/01/16 07:52	06/07/16 16:01	1
gamma-BHC (Lindane)	ND		0.047	0.0074	ug/L		06/01/16 07:52	06/07/16 16:01	1
gamma-Chlordane	ND		0.047	0.010	ug/L		06/01/16 07:52	06/07/16 16:01	1
Heptachlor	ND		0.047	0.0079	ug/L		06/01/16 07:52	06/07/16 16:01	1
Heptachlor epoxide	ND		0.047	0.0069	ug/L		06/01/16 07:52	06/07/16 16:01	1
Methoxychlor	ND		0.047	0.013	ug/L		06/01/16 07:52	06/07/16 16:01	1
Toxaphene	ND		0.47	0.11	ug/L		06/01/16 07:52	06/07/16 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	41		20 - 120	06/01/16 07:52	06/07/16 16:01	1
Tetrachloro-m-xylene	64		36 - 120	06/01/16 07:52	06/07/16 16:01	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-21 053116**

**Lab Sample ID: 480-100905-6**

**Date Collected: 05/31/16 14:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/07/16 13:24	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/07/16 13:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/07/16 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/07/16 13:24	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/07/16 13:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/07/16 13:24	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/07/16 13:24	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			06/07/16 13:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			06/07/16 13:24	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/07/16 13:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/07/16 13:24	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			06/07/16 13:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/07/16 13:24	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/07/16 13:24	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/07/16 13:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/07/16 13:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/07/16 13:24	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			06/07/16 13:24	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/07/16 13:24	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			06/07/16 13:24	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/07/16 13:24	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/07/16 13:24	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/07/16 13:24	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			06/07/16 13:24	1
2-Hexanone	ND		5.0	1.2	ug/L			06/07/16 13:24	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			06/07/16 13:24	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			06/07/16 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/07/16 13:24	1
Acetone	ND		10	3.0	ug/L			06/07/16 13:24	1
Benzene	ND		1.0	0.41	ug/L			06/07/16 13:24	1
Bromobenzene	ND		1.0	0.80	ug/L			06/07/16 13:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/07/16 13:24	1
Bromoform	ND		1.0	0.26	ug/L			06/07/16 13:24	1
Bromomethane	ND		1.0	0.69	ug/L			06/07/16 13:24	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/07/16 13:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/07/16 13:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/07/16 13:24	1
Chlorobromomethane	ND		1.0	0.87	ug/L			06/07/16 13:24	1
Chloroethane	ND		1.0	0.32	ug/L			06/07/16 13:24	1
Chloroform	ND		1.0	0.34	ug/L			06/07/16 13:24	1
Chloromethane	ND		1.0	0.35	ug/L			06/07/16 13:24	1
<b>cis-1,2-Dichloroethene</b>	<b>1.8</b>		1.0	0.81	ug/L			06/07/16 13:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/07/16 13:24	1
Cyclohexane	ND		1.0	0.18	ug/L			06/07/16 13:24	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/07/16 13:24	1
Dibromomethane	ND		1.0	0.41	ug/L			06/07/16 13:24	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/07/16 13:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/07/16 13:24	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			06/07/16 13:24	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-21 053116**

**Lab Sample ID: 480-100905-6**

**Date Collected: 05/31/16 14:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		1.0	0.30	ug/L			06/07/16 13:24	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/07/16 13:24	1
m,p-Xylene	ND		2.0	0.66	ug/L			06/07/16 13:24	1
Methyl acetate	ND		2.5	1.3	ug/L			06/07/16 13:24	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/07/16 13:24	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/07/16 13:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/07/16 13:24	1
Naphthalene	ND		1.0	0.43	ug/L			06/07/16 13:24	1
n-Butylbenzene	ND		1.0	0.64	ug/L			06/07/16 13:24	1
N-Propylbenzene	ND		1.0	0.69	ug/L			06/07/16 13:24	1
o-Xylene	ND		1.0	0.76	ug/L			06/07/16 13:24	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			06/07/16 13:24	1
Styrene	ND		1.0	0.73	ug/L			06/07/16 13:24	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			06/07/16 13:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/07/16 13:24	1
Toluene	ND		1.0	0.51	ug/L			06/07/16 13:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/07/16 13:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/07/16 13:24	1
Trichloroethene	ND		1.0	0.46	ug/L			06/07/16 13:24	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/07/16 13:24	1
Vinyl acetate	ND		5.0	0.85	ug/L			06/07/16 13:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/07/16 13:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/07/16 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		06/07/16 13:24	1
4-Bromofluorobenzene (Surr)	98		73 - 120		06/07/16 13:24	1
Dibromofluoromethane (Surr)	102		60 - 140		06/07/16 13:24	1
Toluene-d8 (Surr)	96		71 - 126		06/07/16 13:24	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	F2	4.6	0.61	ug/L		06/01/16 07:30	06/04/16 07:57	1
bis (2-chloroisopropyl) ether	ND	F2	4.6	0.48	ug/L		06/01/16 07:30	06/04/16 07:57	1
2,4,5-Trichlorophenol	ND	F2 F1	4.6	0.45	ug/L		06/01/16 07:30	06/04/16 07:57	1
2,4,6-Trichlorophenol	ND	F2 F1	4.6	0.57	ug/L		06/01/16 07:30	06/04/16 07:57	1
2,4-Dichlorophenol	ND	F2 F1	4.6	0.47	ug/L		06/01/16 07:30	06/04/16 07:57	1
2,4-Dimethylphenol	ND	F2 F1	4.6	0.46	ug/L		06/01/16 07:30	06/04/16 07:57	1
2,4-Dinitrophenol	ND	F2	9.3	2.1	ug/L		06/01/16 07:30	06/04/16 07:57	1
2,4-Dinitrotoluene	ND	F2 F1	4.6	0.42	ug/L		06/01/16 07:30	06/04/16 07:57	1
2,6-Dinitrotoluene	ND	F2 F1	4.6	0.37	ug/L		06/01/16 07:30	06/04/16 07:57	1
2-Chloronaphthalene	ND	F2	4.6	0.43	ug/L		06/01/16 07:30	06/04/16 07:57	1
2-Chlorophenol	ND	F2	4.6	0.49	ug/L		06/01/16 07:30	06/04/16 07:57	1
2-Methylphenol	ND	F2	4.6	0.37	ug/L		06/01/16 07:30	06/04/16 07:57	1
2-Methylnaphthalene	ND	F2	4.6	0.56	ug/L		06/01/16 07:30	06/04/16 07:57	1
2-Nitroaniline	ND	F2 F1	9.3	0.39	ug/L		06/01/16 07:30	06/04/16 07:57	1
2-Nitrophenol	ND	F2 F1	4.6	0.45	ug/L		06/01/16 07:30	06/04/16 07:57	1
3,3'-Dichlorobenzidine	ND	F2	4.6	0.37	ug/L		06/01/16 07:30	06/04/16 07:57	1
3-Nitroaniline	ND		9.3	0.45	ug/L		06/01/16 07:30	06/04/16 07:57	1
4,6-Dinitro-2-methylphenol	ND	F2 F1	9.3	2.0	ug/L		06/01/16 07:30	06/04/16 07:57	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-21 053116**

**Lab Sample ID: 480-100905-6**

**Date Collected: 05/31/16 14:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND	F2 F1	4.6	0.42	ug/L		06/01/16 07:30	06/04/16 07:57	1
4-Chloro-3-methylphenol	ND	F2 F1	4.6	0.42	ug/L		06/01/16 07:30	06/04/16 07:57	1
4-Chloroaniline	ND		4.6	0.55	ug/L		06/01/16 07:30	06/04/16 07:57	1
4-Chlorophenyl phenyl ether	ND	F2	4.6	0.33	ug/L		06/01/16 07:30	06/04/16 07:57	1
4-Methylphenol	ND	F2	9.3	0.33	ug/L		06/01/16 07:30	06/04/16 07:57	1
4-Nitroaniline	ND	F2 F1	9.3	0.23	ug/L		06/01/16 07:30	06/04/16 07:57	1
4-Nitrophenol	ND		9.3	1.4	ug/L		06/01/16 07:30	06/04/16 07:57	1
Acenaphthene	ND	F2 F1	4.6	0.38	ug/L		06/01/16 07:30	06/04/16 07:57	1
Acenaphthylene	ND	F2 F1	4.6	0.35	ug/L		06/01/16 07:30	06/04/16 07:57	1
Acetophenone	ND	F2	4.6	0.50	ug/L		06/01/16 07:30	06/04/16 07:57	1
Anthracene	ND	F2 F1	4.6	0.26	ug/L		06/01/16 07:30	06/04/16 07:57	1
Atrazine	ND	F2	4.6	0.43	ug/L		06/01/16 07:30	06/04/16 07:57	1
Benzaldehyde	ND	F2 *	4.6	0.25	ug/L		06/01/16 07:30	06/04/16 07:57	1
Benzo(a)anthracene	ND	F2	4.6	0.33	ug/L		06/01/16 07:30	06/04/16 07:57	1
Benzo(a)pyrene	ND	F2	4.6	0.44	ug/L		06/01/16 07:30	06/04/16 07:57	1
Benzo(b)fluoranthene	ND	F2	4.6	0.32	ug/L		06/01/16 07:30	06/04/16 07:57	1
Benzo(g,h,i)perylene	ND	F2	4.6	0.33	ug/L		06/01/16 07:30	06/04/16 07:57	1
Benzo(k)fluoranthene	ND		4.6	0.68	ug/L		06/01/16 07:30	06/04/16 07:57	1
Bis(2-chloroethoxy)methane	ND	F2 F1	4.6	0.33	ug/L		06/01/16 07:30	06/04/16 07:57	1
Bis(2-chloroethyl)ether	ND	F2 F1	4.6	0.37	ug/L		06/01/16 07:30	06/04/16 07:57	1
Bis(2-ethylhexyl) phthalate	ND	F2	4.6	2.0	ug/L		06/01/16 07:30	06/04/16 07:57	1
Butyl benzyl phthalate	ND	F2 F1	4.6	0.93	ug/L		06/01/16 07:30	06/04/16 07:57	1
Caprolactam	ND		4.6	2.0	ug/L		06/01/16 07:30	06/04/16 07:57	1
Carbazole	ND	F2 F1	4.6	0.28	ug/L		06/01/16 07:30	06/04/16 07:57	1
Chrysene	ND	F2 F1	4.6	0.31	ug/L		06/01/16 07:30	06/04/16 07:57	1
Dibenz(a,h)anthracene	ND	F2	4.6	0.39	ug/L		06/01/16 07:30	06/04/16 07:57	1
Di-n-butyl phthalate	ND	F2	4.6	0.29	ug/L		06/01/16 07:30	06/04/16 07:57	1
Di-n-octyl phthalate	ND	F2	4.6	0.44	ug/L		06/01/16 07:30	06/04/16 07:57	1
Dibenzofuran	ND	F2	9.3	0.47	ug/L		06/01/16 07:30	06/04/16 07:57	1
Diethyl phthalate	ND	F2 F1	4.6	0.20	ug/L		06/01/16 07:30	06/04/16 07:57	1
Dimethyl phthalate	ND	F2 F1	4.6	0.33	ug/L		06/01/16 07:30	06/04/16 07:57	1
Fluoranthene	ND	F2	4.6	0.37	ug/L		06/01/16 07:30	06/04/16 07:57	1
Fluorene	ND	F2 F1	4.6	0.33	ug/L		06/01/16 07:30	06/04/16 07:57	1
Hexachlorobenzene	ND	F2	4.6	0.47	ug/L		06/01/16 07:30	06/04/16 07:57	1
Hexachlorobutadiene	ND		4.6	0.63	ug/L		06/01/16 07:30	06/04/16 07:57	1
Hexachlorocyclopentadiene	ND	F2	4.6	0.55	ug/L		06/01/16 07:30	06/04/16 07:57	1
Hexachloroethane	ND	F2	4.6	0.55	ug/L		06/01/16 07:30	06/04/16 07:57	1
Indeno(1,2,3-cd)pyrene	ND	F2	4.6	0.44	ug/L		06/01/16 07:30	06/04/16 07:57	1
Isophorone	ND	F2 F1	4.6	0.40	ug/L		06/01/16 07:30	06/04/16 07:57	1
N-Nitrosodi-n-propylamine	ND	F2 F1	4.6	0.50	ug/L		06/01/16 07:30	06/04/16 07:57	1
N-Nitrosodiphenylamine	ND	F2	4.6	0.47	ug/L		06/01/16 07:30	06/04/16 07:57	1
Naphthalene	ND	F2	4.6	0.71	ug/L		06/01/16 07:30	06/04/16 07:57	1
Nitrobenzene	ND	F2	4.6	0.27	ug/L		06/01/16 07:30	06/04/16 07:57	1
Pentachlorophenol	ND	F2	9.3	2.0	ug/L		06/01/16 07:30	06/04/16 07:57	1
Phenanthrene	ND	F2 F1	4.6	0.41	ug/L		06/01/16 07:30	06/04/16 07:57	1
Phenol	ND		4.6	0.36	ug/L		06/01/16 07:30	06/04/16 07:57	1
Pyrene	ND	F2 F1	4.6	0.32	ug/L		06/01/16 07:30	06/04/16 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	89		46 - 120	06/01/16 07:30	06/04/16 07:57	1

TestAmerica Buffalo



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-21 053116**

**Lab Sample ID: 480-100905-6**

**Date Collected: 05/31/16 14:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	40		16 - 120	06/01/16 07:30	06/04/16 07:57	1
p-Terphenyl-d14	86		67 - 150	06/01/16 07:30	06/04/16 07:57	1
2,4,6-Tribromophenol	133	X	52 - 132	06/01/16 07:30	06/04/16 07:57	1
2-Fluorobiphenyl	96		48 - 120	06/01/16 07:30	06/04/16 07:57	1
2-Fluorophenol	58		20 - 120	06/01/16 07:30	06/04/16 07:57	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.047	0.0086	ug/L		06/01/16 07:52	06/07/16 16:21	1
4,4'-DDE	ND		0.047	0.011	ug/L		06/01/16 07:52	06/07/16 16:21	1
4,4'-DDT	ND		0.047	0.010	ug/L		06/01/16 07:52	06/07/16 16:21	1
Aldrin	ND		0.047	0.0076	ug/L		06/01/16 07:52	06/07/16 16:21	1
alpha-BHC	ND		0.047	0.0072	ug/L		06/01/16 07:52	06/07/16 16:21	1
alpha-Chlordane	ND		0.047	0.014	ug/L		06/01/16 07:52	06/07/16 16:21	1
beta-BHC	ND		0.047	0.023	ug/L		06/01/16 07:52	06/07/16 16:21	1
<b>delta-BHC</b>	<b>0.014</b>	<b>J</b>	0.047	0.0094	ug/L		06/01/16 07:52	06/07/16 16:21	1
Dieldrin	ND		0.047	0.0092	ug/L		06/01/16 07:52	06/07/16 16:21	1
Endosulfan I	ND		0.047	0.010	ug/L		06/01/16 07:52	06/07/16 16:21	1
Endosulfan II	ND		0.047	0.011	ug/L		06/01/16 07:52	06/07/16 16:21	1
Endosulfan sulfate	ND		0.047	0.015	ug/L		06/01/16 07:52	06/07/16 16:21	1
Endrin	ND		0.047	0.013	ug/L		06/01/16 07:52	06/07/16 16:21	1
Endrin aldehyde	ND		0.047	0.015	ug/L		06/01/16 07:52	06/07/16 16:21	1
Endrin ketone	ND		0.047	0.011	ug/L		06/01/16 07:52	06/07/16 16:21	1
<b>gamma-BHC (Lindane)</b>	<b>0.0089</b>	<b>J</b>	0.047	0.0075	ug/L		06/01/16 07:52	06/07/16 16:21	1
gamma-Chlordane	ND		0.047	0.010	ug/L		06/01/16 07:52	06/07/16 16:21	1
Heptachlor	ND		0.047	0.0080	ug/L		06/01/16 07:52	06/07/16 16:21	1
Heptachlor epoxide	ND		0.047	0.0069	ug/L		06/01/16 07:52	06/07/16 16:21	1
Methoxychlor	ND		0.047	0.013	ug/L		06/01/16 07:52	06/07/16 16:21	1
Toxaphene	ND		0.47	0.11	ug/L		06/01/16 07:52	06/07/16 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	45		20 - 120	06/01/16 07:52	06/07/16 16:21	1
Tetrachloro-m-xylene	74		36 - 120	06/01/16 07:52	06/07/16 16:21	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: DUP1-053116**

**Lab Sample ID: 480-100905-7**

**Date Collected: 05/31/16 00:00**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	7.0	ug/L			06/07/16 13:50	20
1,1,1-Trichloroethane	ND		20	16	ug/L			06/07/16 13:50	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			06/07/16 13:50	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			06/07/16 13:50	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			06/07/16 13:50	20
1,1-Dichloroethane	ND		20	7.6	ug/L			06/07/16 13:50	20
1,1-Dichloroethene	ND		20	5.8	ug/L			06/07/16 13:50	20
1,1-Dichloropropene	ND		20	14	ug/L			06/07/16 13:50	20
1,2,3-Trichlorobenzene	ND		20	8.2	ug/L			06/07/16 13:50	20
1,2,3-Trichloropropane	ND		20	18	ug/L			06/07/16 13:50	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			06/07/16 13:50	20
<b>1,2,4-Trimethylbenzene</b>	<b>200</b>		20	15	ug/L			06/07/16 13:50	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			06/07/16 13:50	20
1,2-Dibromoethane	ND		20	15	ug/L			06/07/16 13:50	20
1,2-Dichlorobenzene	ND		20	16	ug/L			06/07/16 13:50	20
1,2-Dichloroethane	ND		20	4.2	ug/L			06/07/16 13:50	20
1,2-Dichloropropane	ND		20	14	ug/L			06/07/16 13:50	20
<b>1,3,5-Trimethylbenzene</b>	<b>120</b>		20	15	ug/L			06/07/16 13:50	20
1,3-Dichlorobenzene	ND		20	16	ug/L			06/07/16 13:50	20
1,3-Dichloropropane	ND		20	15	ug/L			06/07/16 13:50	20
1,4-Dichlorobenzene	ND		20	17	ug/L			06/07/16 13:50	20
2,2-Dichloropropane	ND		20	8.0	ug/L			06/07/16 13:50	20
2-Butanone (MEK)	ND		200	26	ug/L			06/07/16 13:50	20
2-Chlorotoluene	ND		20	17	ug/L			06/07/16 13:50	20
2-Hexanone	ND		100	25	ug/L			06/07/16 13:50	20
4-Chlorotoluene	ND		20	17	ug/L			06/07/16 13:50	20
<b>4-Isopropyltoluene</b>	<b>25</b>		20	6.2	ug/L			06/07/16 13:50	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			06/07/16 13:50	20
Acetone	ND		200	60	ug/L			06/07/16 13:50	20
Benzene	ND		20	8.2	ug/L			06/07/16 13:50	20
Bromobenzene	ND		20	16	ug/L			06/07/16 13:50	20
Bromodichloromethane	ND		20	7.8	ug/L			06/07/16 13:50	20
Bromoform	ND		20	5.2	ug/L			06/07/16 13:50	20
Bromomethane	ND		20	14	ug/L			06/07/16 13:50	20
Carbon disulfide	ND		20	3.8	ug/L			06/07/16 13:50	20
Carbon tetrachloride	ND		20	5.4	ug/L			06/07/16 13:50	20
Chlorobenzene	ND		20	15	ug/L			06/07/16 13:50	20
Chlorobromomethane	ND		20	17	ug/L			06/07/16 13:50	20
Chloroethane	ND		20	6.4	ug/L			06/07/16 13:50	20
Chloroform	ND		20	6.8	ug/L			06/07/16 13:50	20
Chloromethane	ND		20	7.0	ug/L			06/07/16 13:50	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			06/07/16 13:50	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			06/07/16 13:50	20
Cyclohexane	ND		20	3.6	ug/L			06/07/16 13:50	20
Dibromochloromethane	ND		20	6.4	ug/L			06/07/16 13:50	20
Dibromomethane	ND		20	8.2	ug/L			06/07/16 13:50	20
Dichlorodifluoromethane	ND		20	14	ug/L			06/07/16 13:50	20
Ethylbenzene	ND		20	15	ug/L			06/07/16 13:50	20
Hexachlorobutadiene	ND		20	5.6	ug/L			06/07/16 13:50	20

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: DUP1-053116**

**Lab Sample ID: 480-100905-7**

**Date Collected: 05/31/16 00:00**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		20	6.0	ug/L			06/07/16 13:50	20
Isopropylbenzene	ND		20	16	ug/L			06/07/16 13:50	20
m,p-Xylene	ND		40	13	ug/L			06/07/16 13:50	20
Methyl acetate	ND		50	26	ug/L			06/07/16 13:50	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			06/07/16 13:50	20
Methylcyclohexane	ND		20	3.2	ug/L			06/07/16 13:50	20
Methylene Chloride	ND		20	8.8	ug/L			06/07/16 13:50	20
<b>Naphthalene</b>	<b>27</b>		20	8.6	ug/L			06/07/16 13:50	20
<b>n-Butylbenzene</b>	<b>27</b>		20	13	ug/L			06/07/16 13:50	20
N-Propylbenzene	ND		20	14	ug/L			06/07/16 13:50	20
<b>o-Xylene</b>	<b>25</b>		20	15	ug/L			06/07/16 13:50	20
sec-Butylbenzene	ND		20	15	ug/L			06/07/16 13:50	20
Styrene	ND		20	15	ug/L			06/07/16 13:50	20
tert-Butylbenzene	ND		20	16	ug/L			06/07/16 13:50	20
Tetrachloroethene	ND		20	7.2	ug/L			06/07/16 13:50	20
Toluene	ND		20	10	ug/L			06/07/16 13:50	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			06/07/16 13:50	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			06/07/16 13:50	20
Trichloroethene	ND		20	9.2	ug/L			06/07/16 13:50	20
Trichlorofluoromethane	ND		20	18	ug/L			06/07/16 13:50	20
Vinyl acetate	ND		100	17	ug/L			06/07/16 13:50	20
Vinyl chloride	ND		20	18	ug/L			06/07/16 13:50	20
<b>Xylenes, Total</b>	<b>25 J</b>		40	13	ug/L			06/07/16 13:50	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		06/07/16 13:50	20
4-Bromofluorobenzene (Surr)	100		73 - 120		06/07/16 13:50	20
Dibromofluoromethane (Surr)	97		60 - 140		06/07/16 13:50	20
Toluene-d8 (Surr)	98		71 - 126		06/07/16 13:50	20

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		4.7	0.61	ug/L		06/01/16 07:30	06/04/16 08:26	1
bis (2-chloroisopropyl) ether	ND		4.7	0.49	ug/L		06/01/16 07:30	06/04/16 08:26	1
2,4,5-Trichlorophenol	ND		4.7	0.45	ug/L		06/01/16 07:30	06/04/16 08:26	1
2,4,6-Trichlorophenol	ND		4.7	0.57	ug/L		06/01/16 07:30	06/04/16 08:26	1
2,4-Dichlorophenol	ND		4.7	0.48	ug/L		06/01/16 07:30	06/04/16 08:26	1
2,4-Dimethylphenol	ND		4.7	0.47	ug/L		06/01/16 07:30	06/04/16 08:26	1
2,4-Dinitrophenol	ND		9.4	2.1	ug/L		06/01/16 07:30	06/04/16 08:26	1
2,4-Dinitrotoluene	ND		4.7	0.42	ug/L		06/01/16 07:30	06/04/16 08:26	1
2,6-Dinitrotoluene	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 08:26	1
2-Chloronaphthalene	ND		4.7	0.43	ug/L		06/01/16 07:30	06/04/16 08:26	1
2-Chlorophenol	ND		4.7	0.50	ug/L		06/01/16 07:30	06/04/16 08:26	1
2-Methylphenol	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 08:26	1
2-Methylnaphthalene	ND		4.7	0.56	ug/L		06/01/16 07:30	06/04/16 08:26	1
2-Nitroaniline	ND		9.4	0.39	ug/L		06/01/16 07:30	06/04/16 08:26	1
2-Nitrophenol	ND		4.7	0.45	ug/L		06/01/16 07:30	06/04/16 08:26	1
3,3'-Dichlorobenzidine	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 08:26	1
3-Nitroaniline	ND		9.4	0.45	ug/L		06/01/16 07:30	06/04/16 08:26	1
4,6-Dinitro-2-methylphenol	ND		9.4	2.1	ug/L		06/01/16 07:30	06/04/16 08:26	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: DUP1-053116**

**Lab Sample ID: 480-100905-7**

**Date Collected: 05/31/16 00:00**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		4.7	0.42	ug/L		06/01/16 07:30	06/04/16 08:26	1
4-Chloro-3-methylphenol	ND		4.7	0.42	ug/L		06/01/16 07:30	06/04/16 08:26	1
4-Chloroaniline	ND		4.7	0.55	ug/L		06/01/16 07:30	06/04/16 08:26	1
4-Chlorophenyl phenyl ether	ND		4.7	0.33	ug/L		06/01/16 07:30	06/04/16 08:26	1
<b>4-Methylphenol</b>	<b>5.0</b>	<b>J</b>	9.4	0.34	ug/L		06/01/16 07:30	06/04/16 08:26	1
4-Nitroaniline	ND		9.4	0.23	ug/L		06/01/16 07:30	06/04/16 08:26	1
4-Nitrophenol	ND		9.4	1.4	ug/L		06/01/16 07:30	06/04/16 08:26	1
Acenaphthene	ND		4.7	0.38	ug/L		06/01/16 07:30	06/04/16 08:26	1
Acenaphthylene	ND		4.7	0.36	ug/L		06/01/16 07:30	06/04/16 08:26	1
Acetophenone	ND		4.7	0.51	ug/L		06/01/16 07:30	06/04/16 08:26	1
Anthracene	ND		4.7	0.26	ug/L		06/01/16 07:30	06/04/16 08:26	1
Atrazine	ND		4.7	0.43	ug/L		06/01/16 07:30	06/04/16 08:26	1
Benzaldehyde	ND	*	4.7	0.25	ug/L		06/01/16 07:30	06/04/16 08:26	1
Benzo(a)anthracene	ND		4.7	0.34	ug/L		06/01/16 07:30	06/04/16 08:26	1
Benzo(a)pyrene	ND		4.7	0.44	ug/L		06/01/16 07:30	06/04/16 08:26	1
Benzo(b)fluoranthene	ND		4.7	0.32	ug/L		06/01/16 07:30	06/04/16 08:26	1
Benzo(g,h,i)perylene	ND		4.7	0.33	ug/L		06/01/16 07:30	06/04/16 08:26	1
Benzo(k)fluoranthene	ND		4.7	0.68	ug/L		06/01/16 07:30	06/04/16 08:26	1
Bis(2-chloroethoxy)methane	ND		4.7	0.33	ug/L		06/01/16 07:30	06/04/16 08:26	1
Bis(2-chloroethyl)ether	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 08:26	1
Bis(2-ethylhexyl) phthalate	ND		4.7	2.1	ug/L		06/01/16 07:30	06/04/16 08:26	1
Butyl benzyl phthalate	ND		4.7	0.94	ug/L		06/01/16 07:30	06/04/16 08:26	1
Caprolactam	ND		4.7	2.1	ug/L		06/01/16 07:30	06/04/16 08:26	1
Carbazole	ND		4.7	0.28	ug/L		06/01/16 07:30	06/04/16 08:26	1
Chrysene	ND		4.7	0.31	ug/L		06/01/16 07:30	06/04/16 08:26	1
Dibenz(a,h)anthracene	ND		4.7	0.39	ug/L		06/01/16 07:30	06/04/16 08:26	1
<b>Di-n-butyl phthalate</b>	<b>0.35</b>	<b>J</b>	4.7	0.29	ug/L		06/01/16 07:30	06/04/16 08:26	1
Di-n-octyl phthalate	ND		4.7	0.44	ug/L		06/01/16 07:30	06/04/16 08:26	1
Dibenzofuran	ND		9.4	0.48	ug/L		06/01/16 07:30	06/04/16 08:26	1
Diethyl phthalate	ND		4.7	0.21	ug/L		06/01/16 07:30	06/04/16 08:26	1
Dimethyl phthalate	ND		4.7	0.34	ug/L		06/01/16 07:30	06/04/16 08:26	1
Fluoranthene	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 08:26	1
Fluorene	ND		4.7	0.34	ug/L		06/01/16 07:30	06/04/16 08:26	1
Hexachlorobenzene	ND		4.7	0.48	ug/L		06/01/16 07:30	06/04/16 08:26	1
Hexachlorobutadiene	ND		4.7	0.64	ug/L		06/01/16 07:30	06/04/16 08:26	1
Hexachlorocyclopentadiene	ND		4.7	0.55	ug/L		06/01/16 07:30	06/04/16 08:26	1
Hexachloroethane	ND		4.7	0.55	ug/L		06/01/16 07:30	06/04/16 08:26	1
Indeno(1,2,3-cd)pyrene	ND		4.7	0.44	ug/L		06/01/16 07:30	06/04/16 08:26	1
Isophorone	ND		4.7	0.40	ug/L		06/01/16 07:30	06/04/16 08:26	1
N-Nitrosodi-n-propylamine	ND		4.7	0.51	ug/L		06/01/16 07:30	06/04/16 08:26	1
N-Nitrosodiphenylamine	ND		4.7	0.48	ug/L		06/01/16 07:30	06/04/16 08:26	1
<b>Naphthalene</b>	<b>8.8</b>		4.7	0.71	ug/L		06/01/16 07:30	06/04/16 08:26	1
Nitrobenzene	ND		4.7	0.27	ug/L		06/01/16 07:30	06/04/16 08:26	1
Pentachlorophenol	ND		9.4	2.1	ug/L		06/01/16 07:30	06/04/16 08:26	1
Phenanthrene	ND		4.7	0.41	ug/L		06/01/16 07:30	06/04/16 08:26	1
Phenol	ND		4.7	0.37	ug/L		06/01/16 07:30	06/04/16 08:26	1
Pyrene	ND		4.7	0.32	ug/L		06/01/16 07:30	06/04/16 08:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		46 - 120	06/01/16 07:30	06/04/16 08:26	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: DUP1-053116**

**Lab Sample ID: 480-100905-7**

**Date Collected: 05/31/16 00:00**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	32		16 - 120	06/01/16 07:30	06/04/16 08:26	1
p-Terphenyl-d14	49	X	67 - 150	06/01/16 07:30	06/04/16 08:26	1
2,4,6-Tribromophenol	112		52 - 132	06/01/16 07:30	06/04/16 08:26	1
2-Fluorobiphenyl	76		48 - 120	06/01/16 07:30	06/04/16 08:26	1
2-Fluorophenol	48		20 - 120	06/01/16 07:30	06/04/16 08:26	1

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.046	0.0084	ug/L		06/01/16 07:52	06/07/16 16:40	1
4,4'-DDE	ND		0.046	0.011	ug/L		06/01/16 07:52	06/07/16 16:40	1
4,4'-DDT	ND		0.046	0.010	ug/L		06/01/16 07:52	06/07/16 16:40	1
Aldrin	ND		0.046	0.0074	ug/L		06/01/16 07:52	06/07/16 16:40	1
alpha-BHC	ND		0.046	0.0070	ug/L		06/01/16 07:52	06/07/16 16:40	1
alpha-Chlordane	ND		0.046	0.014	ug/L		06/01/16 07:52	06/07/16 16:40	1
beta-BHC	ND		0.046	0.023	ug/L		06/01/16 07:52	06/07/16 16:40	1
delta-BHC	ND		0.046	0.0091	ug/L		06/01/16 07:52	06/07/16 16:40	1
Dieldrin	ND		0.046	0.0090	ug/L		06/01/16 07:52	06/07/16 16:40	1
Endosulfan I	ND		0.046	0.010	ug/L		06/01/16 07:52	06/07/16 16:40	1
Endosulfan II	ND		0.046	0.011	ug/L		06/01/16 07:52	06/07/16 16:40	1
Endosulfan sulfate	ND		0.046	0.014	ug/L		06/01/16 07:52	06/07/16 16:40	1
Endrin	ND		0.046	0.013	ug/L		06/01/16 07:52	06/07/16 16:40	1
Endrin aldehyde	ND		0.046	0.015	ug/L		06/01/16 07:52	06/07/16 16:40	1
Endrin ketone	ND		0.046	0.011	ug/L		06/01/16 07:52	06/07/16 16:40	1
gamma-BHC (Lindane)	ND		0.046	0.0073	ug/L		06/01/16 07:52	06/07/16 16:40	1
<b>gamma-Chlordane</b>	<b>0.017</b>	<b>J</b>	0.046	0.010	ug/L		06/01/16 07:52	06/07/16 16:40	1
Heptachlor	ND		0.046	0.0078	ug/L		06/01/16 07:52	06/07/16 16:40	1
Heptachlor epoxide	ND		0.046	0.0068	ug/L		06/01/16 07:52	06/07/16 16:40	1
Methoxychlor	ND		0.046	0.013	ug/L		06/01/16 07:52	06/07/16 16:40	1
Toxaphene	ND		0.46	0.11	ug/L		06/01/16 07:52	06/07/16 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	44		20 - 120	06/01/16 07:52	06/07/16 16:40	1
Tetrachloro-m-xylene	58		36 - 120	06/01/16 07:52	06/07/16 16:40	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-100905-8**

**Date Collected: 05/31/16 00:00**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/07/16 14:17	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/07/16 14:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/07/16 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/07/16 14:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/07/16 14:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/07/16 14:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/07/16 14:17	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			06/07/16 14:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			06/07/16 14:17	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/07/16 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/07/16 14:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			06/07/16 14:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/07/16 14:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/07/16 14:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/07/16 14:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/07/16 14:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/07/16 14:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			06/07/16 14:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/07/16 14:17	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			06/07/16 14:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/07/16 14:17	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/07/16 14:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/07/16 14:17	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			06/07/16 14:17	1
2-Hexanone	ND		5.0	1.2	ug/L			06/07/16 14:17	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			06/07/16 14:17	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			06/07/16 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/07/16 14:17	1
Acetone	ND		10	3.0	ug/L			06/07/16 14:17	1
Benzene	ND		1.0	0.41	ug/L			06/07/16 14:17	1
Bromobenzene	ND		1.0	0.80	ug/L			06/07/16 14:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/07/16 14:17	1
Bromoform	ND		1.0	0.26	ug/L			06/07/16 14:17	1
Bromomethane	ND		1.0	0.69	ug/L			06/07/16 14:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/07/16 14:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/07/16 14:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/07/16 14:17	1
Chlorobromomethane	ND		1.0	0.87	ug/L			06/07/16 14:17	1
Chloroethane	ND		1.0	0.32	ug/L			06/07/16 14:17	1
Chloroform	ND		1.0	0.34	ug/L			06/07/16 14:17	1
Chloromethane	ND		1.0	0.35	ug/L			06/07/16 14:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/07/16 14:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/07/16 14:17	1
Cyclohexane	ND		1.0	0.18	ug/L			06/07/16 14:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/07/16 14:17	1
Dibromomethane	ND		1.0	0.41	ug/L			06/07/16 14:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/07/16 14:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/07/16 14:17	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			06/07/16 14:17	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-100905-8**

**Date Collected: 05/31/16 00:00**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		1.0	0.30	ug/L			06/07/16 14:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/07/16 14:17	1
m,p-Xylene	ND		2.0	0.66	ug/L			06/07/16 14:17	1
Methyl acetate	ND		2.5	1.3	ug/L			06/07/16 14:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/07/16 14:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/07/16 14:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/07/16 14:17	1
Naphthalene	ND		1.0	0.43	ug/L			06/07/16 14:17	1
n-Butylbenzene	ND		1.0	0.64	ug/L			06/07/16 14:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			06/07/16 14:17	1
o-Xylene	ND		1.0	0.76	ug/L			06/07/16 14:17	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			06/07/16 14:17	1
Styrene	ND		1.0	0.73	ug/L			06/07/16 14:17	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			06/07/16 14:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/07/16 14:17	1
Toluene	ND		1.0	0.51	ug/L			06/07/16 14:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/07/16 14:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/07/16 14:17	1
Trichloroethene	ND		1.0	0.46	ug/L			06/07/16 14:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/07/16 14:17	1
Vinyl acetate	ND		5.0	0.85	ug/L			06/07/16 14:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/07/16 14:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/07/16 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		06/07/16 14:17	1
4-Bromofluorobenzene (Surr)	101		73 - 120		06/07/16 14:17	1
Dibromofluoromethane (Surr)	96		60 - 140		06/07/16 14:17	1
Toluene-d8 (Surr)	96		71 - 126		06/07/16 14:17	1

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-17 053116**

**Date Collected: 05/31/16 10:24**

**Date Received: 06/01/16 01:30**

**Lab Sample ID: 480-100905-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	305188	06/06/16 15:10	GVF	TAL BUF
Total/NA	Prep	3510C			304484	06/01/16 07:30	CPH	TAL BUF
Total/NA	Analysis	8270D		1	305015	06/04/16 05:31	LMW	TAL BUF
Total/NA	Prep	3510C			304498	06/01/16 07:52	CPH	TAL BUF
Total/NA	Analysis	8081B		5	305400	06/07/16 14:42	MAN	TAL BUF

**Client Sample ID: MW-18 053116**

**Date Collected: 05/31/16 11:15**

**Date Received: 06/01/16 01:30**

**Lab Sample ID: 480-100905-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	305188	06/06/16 15:37	GVF	TAL BUF
Total/NA	Prep	3510C			304484	06/01/16 07:30	CPH	TAL BUF
Total/NA	Analysis	8270D		1	305015	06/04/16 06:00	LMW	TAL BUF
Total/NA	Prep	3510C			304498	06/01/16 07:52	CPH	TAL BUF
Total/NA	Analysis	8081B		1	305400	06/07/16 15:02	MAN	TAL BUF

**Client Sample ID: MW-22 053116**

**Date Collected: 05/31/16 12:05**

**Date Received: 06/01/16 01:30**

**Lab Sample ID: 480-100905-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	305367	06/07/16 12:03	NMD1	TAL BUF
Total/NA	Prep	3510C			304484	06/01/16 07:30	CPH	TAL BUF
Total/NA	Analysis	8270D		1	305015	06/04/16 06:29	LMW	TAL BUF
Total/NA	Prep	3510C			304498	06/01/16 07:52	CPH	TAL BUF
Total/NA	Analysis	8081B		2	305400	06/07/16 15:21	MAN	TAL BUF

**Client Sample ID: ASW 053116**

**Date Collected: 05/31/16 12:40**

**Date Received: 06/01/16 01:30**

**Lab Sample ID: 480-100905-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	305367	06/07/16 12:30	NMD1	TAL BUF
Total/NA	Prep	3510C			304484	06/01/16 07:30	CPH	TAL BUF
Total/NA	Analysis	8270D		10	305211	06/06/16 10:11	LMW	TAL BUF
Total/NA	Prep	3510C			304498	06/01/16 07:52	CPH	TAL BUF
Total/NA	Analysis	8081B		1	305400	06/07/16 15:41	MAN	TAL BUF

TestAmerica Buffalo



# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

**Client Sample ID: MW-23 053116**

**Lab Sample ID: 480-100905-5**

**Date Collected: 05/31/16 13:20**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	305367	06/07/16 12:57	NMD1	TAL BUF
Total/NA	Prep	3510C			304484	06/01/16 07:30	CPH	TAL BUF
Total/NA	Analysis	8270D		1	305015	06/04/16 07:28	LMW	TAL BUF
Total/NA	Prep	3510C	DL		304484	06/01/16 07:30	CPH	TAL BUF
Total/NA	Analysis	8270D	DL	5	305211	06/06/16 10:41	LMW	TAL BUF
Total/NA	Prep	3510C			304498	06/01/16 07:52	CPH	TAL BUF
Total/NA	Analysis	8081B		1	305400	06/07/16 16:01	MAN	TAL BUF

**Client Sample ID: MW-21 053116**

**Lab Sample ID: 480-100905-6**

**Date Collected: 05/31/16 14:05**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305367	06/07/16 13:24	NMD1	TAL BUF
Total/NA	Prep	3510C			304484	06/01/16 07:30	CPH	TAL BUF
Total/NA	Analysis	8270D		1	305015	06/04/16 07:57	LMW	TAL BUF
Total/NA	Prep	3510C			304498	06/01/16 07:52	CPH	TAL BUF
Total/NA	Analysis	8081B		1	305400	06/07/16 16:21	MAN	TAL BUF

**Client Sample ID: DUP1-053116**

**Lab Sample ID: 480-100905-7**

**Date Collected: 05/31/16 00:00**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	305367	06/07/16 13:50	NMD1	TAL BUF
Total/NA	Prep	3510C			304484	06/01/16 07:30	CPH	TAL BUF
Total/NA	Analysis	8270D		1	305015	06/04/16 08:26	LMW	TAL BUF
Total/NA	Prep	3510C			304498	06/01/16 07:52	CPH	TAL BUF
Total/NA	Analysis	8081B		1	305400	06/07/16 16:40	MAN	TAL BUF

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-100905-8**

**Date Collected: 05/31/16 00:00**

**Matrix: Water**

**Date Received: 06/01/16 01:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	305367	06/07/16 14:17	NMD1	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Certification Summary

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

## Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

1

2

3

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11

# Method Summary

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: New York State D.E.C.  
Project/Site: Korkay, Inc. #518014

TestAmerica Job ID: 480-100905-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100905-1	MW-17 053116	Water	05/31/16 10:24	06/01/16 01:30
480-100905-2	MW-18 053116	Water	05/31/16 11:15	06/01/16 01:30
480-100905-3	MW-22 053116	Water	05/31/16 12:05	06/01/16 01:30
480-100905-4	ASW 053116	Water	05/31/16 12:40	06/01/16 01:30
480-100905-5	MW-23 053116	Water	05/31/16 13:20	06/01/16 01:30
480-100905-6	MW-21 053116	Water	05/31/16 14:05	06/01/16 01:30
480-100905-7	DUP1-053116	Water	05/31/16 00:00	06/01/16 01:30
480-100905-8	TRIP BLANK	Water	05/31/16 00:00	06/01/16 01:30

**Client Information**  
 Client Contact: **Mr. Chris French**  
 Company: **AECOM, Inc.**  
 Address: **40 British American Blvd**  
 City: **Latham**  
 State, Zip: **NY, 12110**  
 Phone: **518-402-9625(Tel)**  
 Email: **chris.french@aecom.com**  
 Project Name: **Korkay, Inc. #518014**  
 Site:

**Sampler:** **Ross McReady**  
**Lab PM:** **Stone, Judy L**  
**Phone:** **518 951 2200**  
**E-Mail:** **judy.stone@testamericainc.com**

**Due Date Requested:**  
**TAT Requested (days):** **STD**

**PO #:** **Callout 122730**  
**WO #:** **60273289.3**  
**Project #:** **48005347**  
**SSOW#:**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Viewwater, Seawater, Groundwater, Wastewater, Other)	Hold Filtered Sample (Yes or No)	8260C - (MOD) TCL list OLM04.2	8270D - TCL SVOA - OLM04.2	8081B - TCL Pesticides - OLM04.2	Analysis Reques
MW-17 053116	5/31/16	1024	G	Water		X	X	X	
MW-18 053116		1115		Water		X	X	X	
MW-22 053116		1205		Water		X	X	X	
ASW 053116		1240		Water		X	X	X	
MW-23 053116		1320		Water		X	X	X	
MW-21 053116		1405		Water		X	X	X	
DUP1 - 053116		-	G	Water		X	X	X	
Trip Blank		-	-	Water		X			

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Deliverable Requested:** I, II, III, IV, Other (specify)

**Empty Kit Relinquished by:** **Ross McReady**  
 Date/Time: **5/31/16 14:30**

**Relinquished by:** **Ross McReady**  
 Date/Time: **6/1/16 01:30**

**Relinquished by:**   
 Date/Time:

**Custody Seals Intact:** **A Yes A No**  
**Custody Seal No.:** **0.7**



**COC No:** 480-83565-19690.1  
**Page:** Page 1 of 1  
**Job #:**

**Preservation Codes:**  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - NaHSO4  
 F - MeOH  
 G - Amchlor  
 H - Ascorbic Acid  
 I - Ice  
 J - DI Water  
 K - EDTA  
 L - EDA  
 Other:

**Preservation Codes:**  
 M - Hexane  
 N - None  
 O - AsNaO2  
 P - Na2O4S  
 Q - Na2SO3  
 R - Na2SO3  
 S - H2SO4  
 T - TSP Dodecahydrate  
 U - Acetone  
 V - MCAA  
 W - ph 4-5  
 Z - other (specify)

**Special Instructions/Note:**

**Albany**

480501

**Sample Disposal (A fee may be assessed if samples are retained for longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements:**

**Period of Shipment:**  
 Received by: **Ross McReady** Date/Time: **5/31/16 14:30**  
 Received by: **Ross McReady** Date/Time: **6/1/16 01:30**

**Cooler Temperature(s) °C and Other Remarks:**



# Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-100905-1

**Login Number: 100905**

**List Number: 1**

**Creator: Williams, Christopher S**

**List Source: TestAmerica Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

