October 1, 2015

Payson Long New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233

Subject: Korkay, Inc. Site #5-18-014

2015 Direct-Push Groundwater Investigation Summary

Dear Mr. Long,

This letter has been prepared to report the results of the direct push groundwater investigation completed at the Korkay Site ("the Site") (NYSDEC ID: 5-18-014) in August 2015. The work was completed in accordance with the work plan submitted to the New York State Department of Environmental Conservation (NYSDEC) on July 29, 2015. This work was performed under New York State Superfund Standby Contract Work Assignment number D007626-20. The purpose of this investigation was to complete the delineation of the off-site groundwater contaminant plume and provide the data necessary to select locations for up to five new permanent off-site monitoring wells.

Site Background

Korkay, Incorporated (Korkay) located in Broadalbin, NY (Figure 1), was a supplier of detergents, solvents, and degreasers to the automotive industry from 1969 to 1980. Korkay purchased bulk quantities of chemicals that were stored on-site for repackaging and/or blending into commercial products including automobile wax, and hand cleaners. In addition to the commercial products being produced, Korkay also operated as a drum reclamation facility. Drums were accepted containing a variety and quantity of chemicals that remains undetermined. The drums were emptied of any remaining chemicals, washed, rinsed and relined. This process was conducted without appropriate containment of the chemicals, and chemical laden rinsate being discharged through the facilities septic system or directly to the ground surface. The NYSDEC and NYSDOH inspected the Site in 1979 and documented the occurrence of these activities. In 1980, Korkay installed a 4,000 gallon above ground storage tank (AST) to appropriately contain the residual chemicals and rinsate generated from drum reclamation. Reports and Site documentation indicate that the drums contained acetone, isopropyl alcohol, degreasers, and perfumes as well as other chemicals.

Methods

A total of 14 (GW-24 to GW-37) direct push borings were installed between August 3, 2015 and August 4, 2015. The approximate locations of the borings are presented on Figure 2. The boring locations have been surveyed by our subcontracted licensed surveyor and will be included in future maps once the site base map is completed.

At each boring, soil was collected in 4 foot intervals in 1.5 inch core barrel with acetate liners. The cores were examined by an AECOM geologist and were screened with a photo ionization detector (PID) for the presence of volatile organic compounds (VOCs). Observations and PID readings were recorded on boring logs (Appendix A). The borings were advanced below the groundwater table, typically found 5 to 8 feet below ground surface (bgs). Once at the desired depth, a 4 foot retractable screen (SP-10) was positioned at the water table to collect grab groundwater samples utilizing a peristaltic pump. The SP-10 sampler was decontaminated by washing with a non-phosphate cleanser, and rinsing with potable water between samples. Dedicated tubing was used for the collection of each sample.

Groundwater samples were analyzed for VOCs (Method 8260C), semivolitile organic compounds SVOCs (Method 8270D) and organochlorine pesticides (Method 8081B). The samples were put on ice and were shipped under chain of custody for analysis at Test America in Buffalo, NY.

Soil Observations

The geology observed was consistent with the other investigations conducted at the Site. The subsurface soil is a fine to coarse sand with some silt that becomes finer with depth. The sand and silt grades to a clay unit. The clay was generally encountered between 9 and 11 ft bgs. The clay surface was not encountered in six borings (GW-25, GW-26, GW-30, GW-31, GW-33 and GW-34) which were drilled to a total depth of 12 ft. bgs. The RI report characterized the clay unit as an aquitard which prevents or limits downward migration of impacted groundwater.

Black and gray staining was observed in 4 of the 14 borings, including GW-26, GW-27, GW-29 and GW-36 and typically corresponded to elevated PID readings. This finding is consistent with historical observations of soil cores at the Site. The most significantly elevated PID readings were detected in borings GW-26 (386 ppm) and GW-36 (94 ppm), both in samples collected from the 8 to 12 foot depth interval. The highest PID reading in the remaining borings was 6,100 ppb (GW-27).

Laboratory Results

VOCs

The groundwater VOC results are presented in Table 1. One or more VOCs were detected above NYSDEC ambient water quality standards (AWQS) in 10 of 14 groundwater samples. The detected constituents exceeding the AWQS include primarily petroleum hydrocarbon VOCs and to a lesser extent chlorinated hydrocarbon VOCs such as 1,2,4-dichlorobenzene and cis-1,2-dichloroethene (DCE). DCE was detected in four borings (GW-29, GW-30, GW-31 and GW-32) located furthest downgradient from the Korkay Site, and may represent a breakdown compound of tetrachloroethene (PCE), previously detected on-site. The highest concentration of total dissolved phase VOCs was 1,609 μ g/L was detected in the sample GW-30, which was collected at the property between West Main Street and South 2nd Avenue, south-southwest of the Korkay Site.

SVOCs

Dissolved phase SVOC results are reported on Table 2. SVOCs that were detected above the AWQS included 2,4-dimethylphenol in sample GW-29 and GW-30, naphthalene in sample GW-30,

and bis(2-ethyl hexyl) phthalate in sample GW-25. Bis- phthalate is a common laboratory contaminant and is not believed to be a Site-related contaminant.

Pesticides

Pesticide results are reported on Table 3. Pesticides were detected above AWQS in 7 of the samples collected during this investigation. In general, where AWQS exceedances were detected, the reported concentrations were just slightly above the relevant Standard. A majority of the pesticide detections were flagged with a "J" indicating that the result is less than the recording limit but greater than the detection limit and the result is considered estimated. This adds a level of uncertainty in comparing these data to the AWQS. The pesticide results may be biased high due to the fact that these were temporary sampling points and the samples were relatively turbid and that the pesticides may more likely be adsorbed onto the soil particles.

Conclusions and Recommendations

The extent of dissolved-phase groundwater impacts off-Site appear to be greater than previous groundwater investigations and monitoring suggested. Based on the results of the July 2014 and August 2015 off-Site groundwater investigations, the plume extends to the south-southwest of the Site, as shown in Figure 2. The downgradient extent of the plume does not appear to be completely delineated.

It is recommended that four new off-Site monitoring wells be installed to further define the off-Site plume limits, and provide points for future downgradient plume monitoring following completion of the on-Site In-Situ Chemical Oxidation injection program to be completed in the fall of 2015. The location of the four proposed wells are numbered 1 through 4 on Figure 2. The objectives for these locations are as follows:

- Well number 1 will be installed at a location to verify the southwestern plume limit. Note that the off-Site southeastern plume limit is defined by existing well pair MW-8S/MW-8D.
- Wells 2 and 3 will be installed at off-Site midplume locations based on the 2014 and 2015 groundwater investigation results.
- Well 4 will be located further south-southwest from the Site and along the approximate inferred plume axis, as indicated in Figure 2, in attempt to better define the downgradient plume limit.

Methods for the installation and development of the monitoring wells are included in the work plan submitted to the New York State Department of Environmental Conservation (NYSDEC) on July 29, 2015.

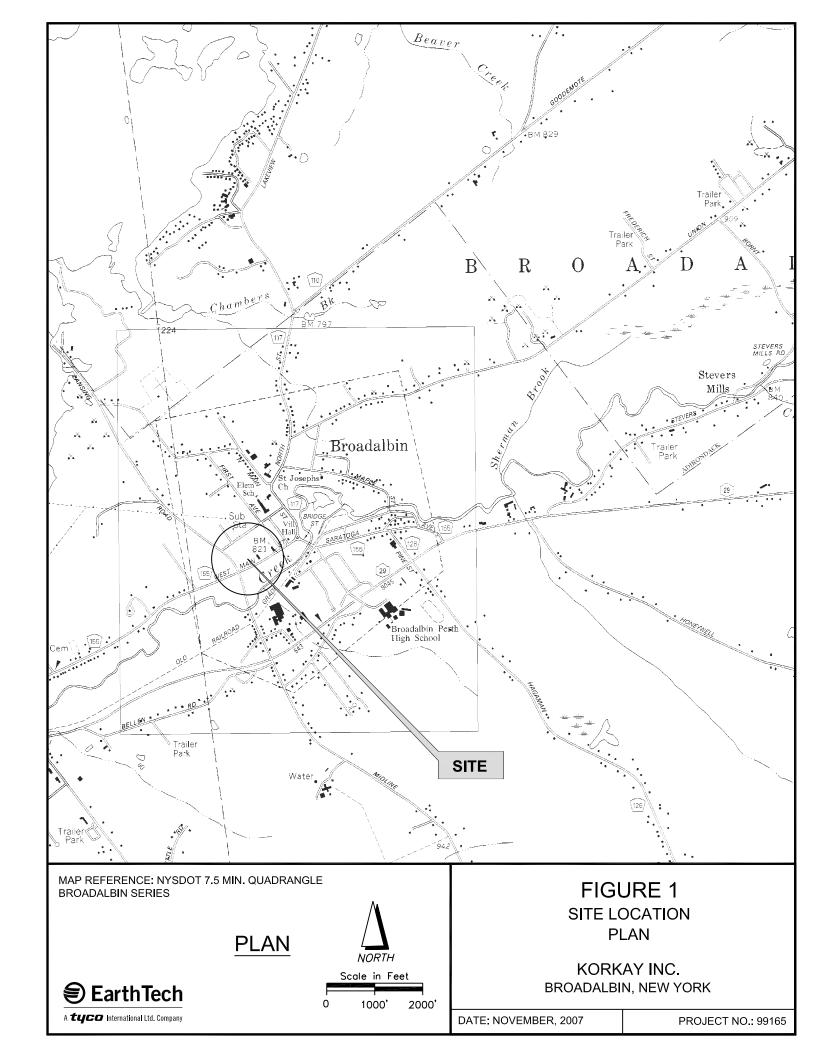
Should you have any questions, please do not hesitate to contact Walt Howard at walter.howard@aecom.com or (518) 951-2387 or John Santacroce at John.Santacroce@aecom.com.

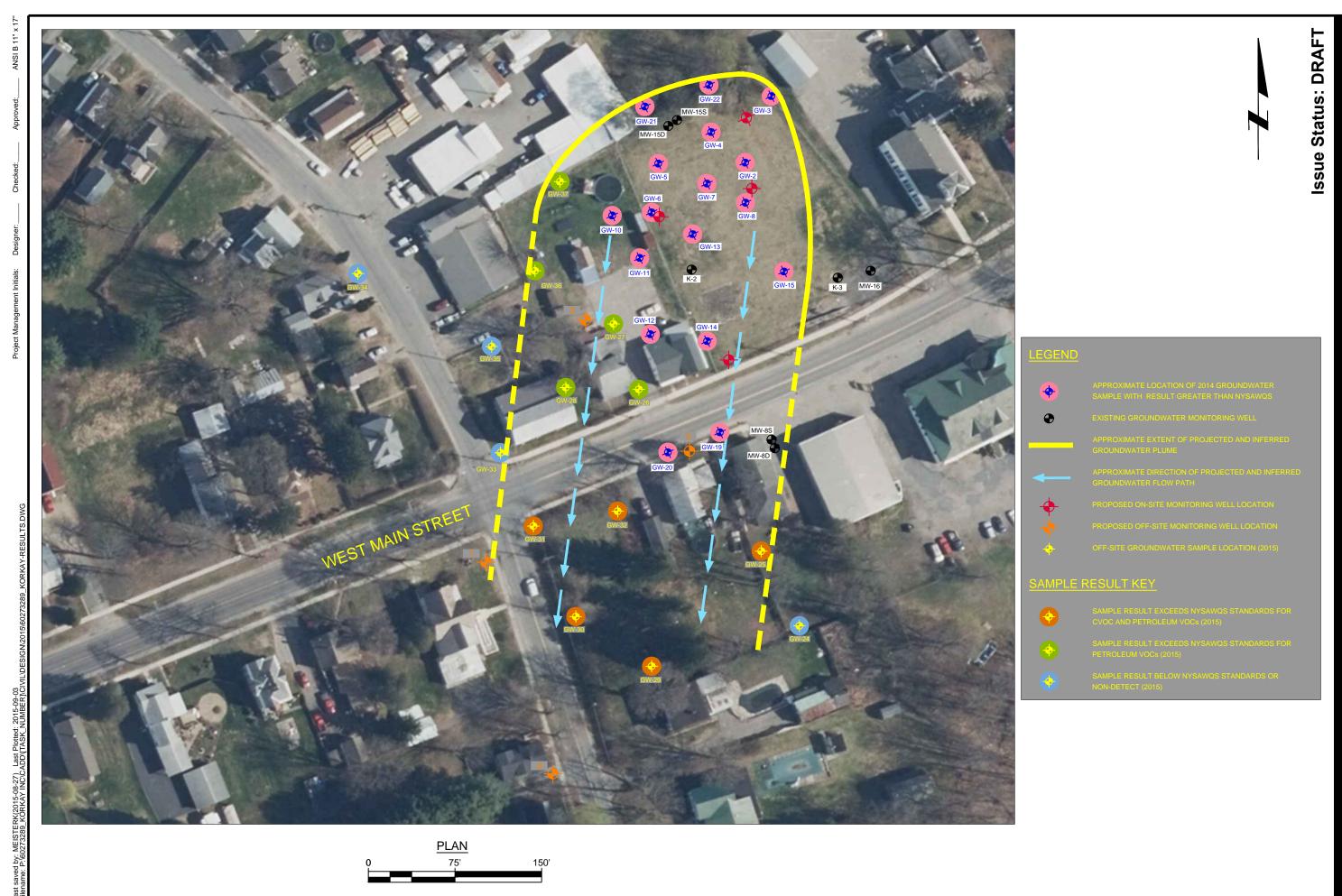
Yours sincerely,

Willa O. Home

Walter Howard Project Manager

Figures





KORKAY INC.

NYSDEC SITE ID: 5-18-014

BROADALBIN, NEW YORK

Project No.: 60273289 Date: AUGUST 2015

PROPOSED OFF-SITE MONITORING WELL LOCATION PLAN



Tables

Table 1

VOC Results

Korkay August 2015 Groundwater Investigation

Sample Location				Off Site	South						Off Sit	e West			
Sample ID	NYSDEC	GW-24	GW-25	GW-29	GW-30	GW-31	GW-32	GW-26	GW-27	GW-28	GW-33	GW-34	GW-35	GW-36	GW-37
Sample Date	AWQS & GV	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/3/2015	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015
Sample Time	ug/L	1:00 PM	2:00 PM	8:40 AM	9:20 AM	10:00 AM	10:30 AM	3:00 PM	3:30 PM	4:06 PM	11:25 AM	12:10 PM	1:40 PM	2:10 PM	3:05 PM
VOCs ug/L															
STARS List VOCs (Petroleum)															
1,2,4-Trimethylbenzene	5	ND	5.4	250	450	130	ND	110	55	59	ND	ND	ND	21	5.4
1,3,5-Trimethylbenzene	5	ND	ND	62	97	25	ND	34	ND	ND	ND	ND	ND	3.8	ND
Ethylbenzene	5	ND	ND	67	110	42	17	4.4 J	13	9.0 J	ND	ND	ND	2.1	ND
N-Propylbenzene	5	ND	3.8 J	38	72	32	7	18	7.5 J	7.0 J	ND	ND	ND	5.9	2.5
n-Butylbenzene	5	ND	5.2	19	59	29	4.9 J	38	6.8 J	ND	ND	ND	ND	4.4	2.5
sec-Butylbenzene	5	ND	7	13	40	25	4.8 J	23	ND	ND	ND	ND	ND	2.7	7.8
tert-Butylbenzene	5	ND	0.85 J												
Isopropylbenzene	5	ND	ND	21	39	20	6	6.7	ND	ND	ND	ND	ND	2.1	ND
Toluene	5	ND	ND	7.4 J	ND										
4-Isopropyltoluene	5	ND	ND	12	16	4.6 J	ND	19	ND	ND	ND	ND	ND	2.9	1.1
o-Xylene	5	ND	ND	100	180	44	ND	5.9	31	ND	ND	ND	ND	3.8	ND
m,p-Xylene	5	ND	ND	180	150	26	ND	6.7	10	ND	ND	ND	ND	3.9	ND
Xylenes, Total	5	ND	ND	280	330	70	ND	15	41	ND	ND	ND	ND	7.7	ND
Naphthalene	10	ND	ND	23	12	9.3	ND	6.5	ND	ND	ND	ND	ND	9.4	ND
TCL List VOCs Non-STARs List															
1,1-Dichloroethane	5	ND													
1,2-Dichlorobenzene	3	ND	10	18	20	11	7.7	ND							
1,2,3-Trichlorobenzene	5	ND													
1,2,3-Trichloropropane	0.04	ND													
1,1,2,2-Tetrachloroethane	5	ND													
1,2,4-Trichlorobenzene	5	ND													
1,4-Dichlorobenzene	3	ND													
2-Butanone (MEK)	NS	ND													
Acetone	50	ND	4.5 J	ND											
Bromodichloromethane	NS	ND													
Carbon disulfide	60	ND	0.68 J ^	ND											
Chloroform	7	ND	1.4	1.7											
cis-1,2-Dichloroethene	5	ND	ND	14	19	9.5	6.1	ND							
Cyclohexane	NS	ND	ND	ND	3.4 J	1.9 J	ND								
Dichlorodifluoromethane	5	ND													
Methylcyclohexane	NS	ND	3.0 J	5.2 J	12	7.2	1.7 J	6	1.6 J	ND	ND	ND	ND	1.2	0.41 J
Tetrachloroethene	5	ND	0.60 J	ND	ND										
Trichloroethene	5	ND													

Bold- Analyte was detected in laboratory analysis

Highlight- Analyte was detected above the NYSDEC AWQS or Guidance Value

NS- No Standard

ND- Not detected above MDL

J - Result is estimated, detection was below the RL but above the MDL

Table 2 SVOC Results Korkay August 2015 Groundwater Investigation

Sample Location				Off Site So	outh						Off Site	e West			
Sample ID	NYSDEC	GW-24	GW-25	GW-29	GW-30	GW-31	GW-32	GW-26	GW-27	GW-28	GW-33	GW-34	GW-35	GW-36	GW-37
Sample Date	AWQS & GV	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/3/2015	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015
Sample Time	ug/L	1:00 PM	2:00 PM	8:40 AM	9:20 AM	10:00 AM	10:30 AM	3:00 PM	3:30 PM	4:06 PM	11:25 AM	12:10 PM	1:40 PM	2:10 PM	3:05 PM
SVOCs ug/L															
2,4-Dimethylphenol	1*	ND	ND	4.5 J	2.3 J	0.64 J	ND								
2-Methylnaphthalene	NS	ND	ND	5.9	0.92 J	ND									
2-Methylphenol	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	NS	0.57 JB	ND	ND	20 B	9.6 B	0.54 J B	ND	ND	ND	0.40 J B	0.59 J B	0.52 J B	3.8 J B	0.57 J B
Benzo(a)anthracene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	Non-Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	2.1 J	19	ND	3.9 J	2.1 J	ND	2.8 J	ND	ND	ND	ND	ND	3.3 J	3.6 J
Butyl benzyl phthalate	50	0.59 J	0.62 J	ND	0.43 J	0.61 J	0.55 J	0.59 J	0.56 J	ND	ND	0.45 J	ND	ND	ND
Caprolactam	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	5	4.4 J	0.76 J	0.33 J	0.47 J	ND									
Di-n-butyl phthalate	50	2.7 J	ND	0.94 J	1.9 J	1.0 J	0.97 J	ND	0.89 J	0.64 J	ND	0.40 J	0.54 J	1.3 J	0.62 J
Di-n-octyl phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	21	8	5.4	ND	2.2 J	ND	ND	ND	ND	ND	7.1	ND
Phenanthrene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold- Analyte was detected in laboratory analysis

Highlight- Analyte was detected above the NYSDEC AWQS or Guidance Value

*Sum of all Phenols

NS- No Standard

ND- Not detected above MDL

B-Compound detected in laboratory control blank.

J - Result is estimated, detection was below the RL but above the MDL

Table 3 Pesticides Results Korkay August 2015 Groundwater Investigation

Sample Location	NYSDEC			Off Site	South						Off Sit	e West			
Sample ID	AWQS & GV	GW-24	GW-25	GW-29	GW-30	GW-31	GW-32	GW-26	GW-27	GW-28	GW-33	GW-34	GW-35	GW-36	GW-37
Sample Date	ug/L	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/3/2015	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015
Sample Time	G .	1:00 PM	2:00 PM	8:40 AM	9:20 AM	10:00 AM	10:30 AM	3:00 PM	3:30 PM	4:06 PM	11:25 AM	12:10 PM	1:40 PM	2:10 PM	3:05 PM
Pesticides ug/L															
4,4'-DDD	0.3	0.033 J	0.017 J	ND	0.05 J	0.015 J	0.063 J	0.0094 J	ND	ND	0.042 J	ND	0.018 J	ND	0.013 J
4,4'-DDE	0.2	0.014 J	0.020 J	ND	ND	0.026 J	0.080 J	0.012 J	0.017 J	ND	0.033 J	0.073 J	0.033 J	0.029 J	0.026 J
4,4'-DDT	0.2	ND	ND	ND	ND	0.032 J	ND	0.023 J	0.023 J	0.19 J	0.033 J	0.073 J	0.025 J	0.025 J	0.025 J
Aldrin	Non-Detect	ND	0.0080 J	ND	ND	0.048 J	ND	0.032 J	0.040 J	ND	0.014 J	ND	ND	0.013 J	ND
alpha-BHC	0.01	0.014 J	ND	0.027 J	ND	ND	0.016 J	ND	0.026 J	ND	0.023 J	ND	ND	ND	ND
alpha-Chlordane	0.05**	ND	ND	0.017 J	ND	ND	ND	0.04 J	0.31	ND	0.015 J	ND	ND	0.020 J	ND
beta-BHC	0.04	ND													
Dieldrin	0.004	ND	ND	ND	ND	0.042 J	ND	0.015 J	0.041 J	ND	ND	ND	ND	ND	ND
Endosulfan I	NS	ND	ND	ND	ND	ND	ND	0.18	0.17	ND	0.040 J	ND	ND	ND	ND
Endosulfan II	NS	ND	ND	ND	ND	0.027 J	ND	ND	0.036 J	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NS	0.023 J	ND	ND	ND	ND	ND	0.042 J	ND						
Endrin	Non-Detect	ND	ND	ND	ND	ND	ND	0.014 J	0.013 J	ND	ND	ND	ND	ND	ND
Endrin aldehyde	5	ND	0.026 J	0.028 J	ND	0.037 J	0.043 J	0.045 J	ND	ND	ND	0.069 J	0.023 J	ND	ND
Endrin ketone	5	ND	ND	ND	0.11 J	ND									
delta-BHC	0.04	ND	ND	0.011 J	ND	ND	ND	ND	0.017 J	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.05	ND	ND	ND	ND	0.0094 J	ND	0.0092 J	0.021 J	ND	ND	ND	ND	ND	ND
gamma-Chlordane	0.05**	ND	ND	ND	ND	ND	ND	0.020 J	0.18	ND	ND	ND	ND	ND	ND
Heptachlor	0.04	0.025 J	ND	ND	ND	ND	ND	ND	0.049	ND	0.017 J	ND	ND	ND	ND
Heptachlor epoxide	0.03	ND	ND	ND	ND	ND	ND	0.052	ND	ND	ND	ND	0.017 J	ND	ND
Methoxychlor	35	0.025 J	ND	0.042 J	ND	0.16	ND	0.053	ND	ND	0.051	ND	ND	0.058	ND
Toxaphene	0.06	ND													

Bold- Analyte was detected in laboratory analysis

Highlight- Analyte was detected above the NYSDEC AWQS or Guidance Value
** Sum of all Chlordanes

NS- No Standard

ND- Not detected above MDL

B-Compound detected

J - Result is estimated, detection was below the RL but above the MDL

Boring Logs



40 British American Boulevard Latham, New York 12110 Phone: (518) 951-2200 Fax: (518) 951-2300

RM

BOREHOLE LOG

BORING ID #: **GW-24**

START DATE: 8/3/15 END DATE: 8/3/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' LATITUDE:

PROJECT NO.: 60273289

DRILLER: Layne DEPTH TO BEDROCK:

INSPECTOR:

PROJECT MANAGER:

Walter Howard

BORING LOCATION:

DRILLING METHOD: TOTAL DEPTH DRILLED: WEATHER CONDITIONS:

Geoprobe 12' Sunny, 90

LONGITUDE: ELEVATION AND DATUM:

NA

								HAMMER	SAMPLER	ST. WATER	DATE 1:	DEPTH 1:	TIME 1:
F	IELD	SAMI	PLE INFO		TION		WEIGHT(S)		BI III III	LEVELS	DATE 2:	DEPTH 2:	TIME 2:
(8)			PID Headspace(ppb)	ODOR OBSERVED	\mathbf{S}	VISIBLE PRODUC	FALL TYPE			CASING	TUBE	CORE	RIG TYPE:
et bg		Y	ace(ER	YSI	ROL	ID/OD						
(fee	ount	ER	dsp	OBS	AAL	EPI						A AMERICA O CARA	WATER LEVE
DEPTH (feet bgs)	Blow Count	RECOVERY	Не	OR	LAB ANALYSIS	IBI		C	GEOLOGIC DES	SCRIPTION		LITHOLOGY/ SOIL TYPE	_
DE	Blo	RE	PIL	σо	LA	VIS							REMARKS
0.0			900.0				0 - 2: Light bro)				
		2.5		z		z	2 - 2.5: SAA; r	noist					
2.0													
2.0													
4.0			1222.0				4 - 7.2: SAA; v	wet					WT @ 4'
		3.2		z		z							
		3.2				_							
6.0													
8.0			3500.0				8 - 8.5: Brown	FM SAND: we	ot .				
0.0			2000.0				8.5 - 11: Brown						
		4.0	3224.0	Z		Z		, ,	,				
10.0													
									Collected GW-2				
12.0									Set screen	8 - 12'			
12.0													
14.0													
16.0													
18.0													
20.0													



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NA

BOREHOLE LOG

BORING ID #: **GW-25**

START DATE: 8/3/15 END DATE: 8/3/15

PROJECT NAME: Korkay, Inc
SITE LOCATION: 70 W Main St Broadalbin, NY
DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2"
TOTAL DEPTH REACHED: 12'
LATITUDE:

PROJECT NO.: **60273289** BORING LOCATION:

DRILLER: Layne
DEPTH TO BEDROCK:
INSPECTOR: RM
LONGITUDE:

PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 12'
WEATHER CONDITIONS: Sunny, 90
ELEVATION AND DATUM:

LATTI	JDE:						LONG	iTTUDE:		ELEVATI	ON AND DATUM:		
F	TELD S	SAMI	PLE INFO	RMA	TION		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
bgs)			ce(ppb)	ERVED	YSIS	ODUCI	FALL TYPE ID/OD			CASING	TUBE	CORE	RIG TYPE:
DEPTH (feet bgs)	Blow Count	RECOVERY	PID Headspace(ppb)	ODOR OBSERVED	LAB ANALYSIS	VISIBLE PRODUC	15/05	G	SEOLOGIC DES	SCRIPTION		LITHOLOGY/ SOIL TYPE	WATER LEVEL
0.0		2.3	1177.0	Z		z	0 - 0.5: Dark b						
2.0													
4.0		2.5	2100.0	z		Z	4 - 5: SAA 5 - 6.5: Gray F	M SAND; wet					WT @ 5'
6.0													
8.0		3.0	2700.0	z		z	8 - 11: SAA; w	et					
10.0								1	Collected GW-2 Set screen				
12.0													
14.0													
16.0													
18.0													
20.0													



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BOREHOLE LOG

BORING ID #: **GW-26**

START DATE: 8/3/15 END DATE: 8/3/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' PROJECT NO.: 60273289

BORING LOCATION: DRILLER: DEPTH TO BEDROCK: PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe Layne NA TOTAL DEPTH DRILLED: 12' Sunny, 90 WEATHER CONDITIONS: INSPECTOR: RM

LATITU	JDE:						LONG	GITUDE:		ELEVAT	ION AND DATUM	:	
F	IELD	SAMI	PLE INFO	RMA	ΓΙΟΝ		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
t bgs)		,	ace(ppb)	ERVED	YSIS	RODUCT	FALL TYPE ID/OD			CASING	TUBE	CORE	RIG TYPE:
DEPTH (feet bgs)	Blow Count	RECOVERY	PID Headspace(ppb)	ODOR OBSERVED	TAB ANALYSIS	VISIBLE PRODUC		G	EOLOGIC DES	SCRIPTION		LITHOLOGY/ SOIL TYPE	WATER LEVEL
0.0		2.2	600.0	Z		Z	0 - 1.5: Black F 1.5 - 2.2: Light						
2.0													
4.0			750.0				4 - 6: Light bro						WT @ 6'
		3.0		z		Z	6 - 7: Gray/bro	wn FMC SANI	O; wet				
6.0													
8.0		3.3	384 ppm 10 ppm 338 ppm 122 ppm	N			8 - 9: Gray/blac 9 - 10: Brown l 10 - 11.3: Ligh	FM SAND; wet	t.	ack FM SAND(od	lor) @ 10.2'		
-			l				I					ı	I

Collected GW-26 @ 15:00 Set screen 8 - 12' 12.0 14.0 16.0 18.0 20.0



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BOREHOLE LOG

BORING ID #: **GW-27**

START DATE: 8/3/15 END DATE: 8/3/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' LATITUDE:

PROJECT NO.: 60273289

BORING LOCATION: DRILLER: DEPTH TO BEDROCK: PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Layne Geoprobe TOTAL DEPTH DRILLED: 12' INSPECTOR: WEATHER CONDITIONS: RMSunny, 90 LONGITUDE: ELEVATION AND DATUM:

	IEL D	CAMI	DLE INEO	DMA	TION			HAMMER	SAMPLER	ST. WATER	DATE 1:	DEPTH 1:	TIME 1:
F	IELD	SAMI	PLE INFO		HON		WEIGHT(S)			LEVELS	DATE 2:	DEPTH 2:	TIME 2:
€			PID Headspace(ppb)	ODOR OBSERVED	S	VISIBLE PRODUCT	FALL TYPE			CASING	TUBE	CORE	RIG TYPE:
bga			()eo	ER.	YSI	OD	ID/OD						-
feet	ınt	ЗRУ	lspa	BSI	AL.	PR	ID/OD	1	1				WATER LEVEL
DEPTH (feet bgs)	Blow Count	RECOVERY	leac	R O	LAB ANALYSIS	3LE		C	EOLOGIC DE	SCRIPTION		LITHOLOGY/	
EPI	OW	ECC	DF	[OG	ÅB.	SIE		O	EOLOGIC DE	SCRIF TION		SOIL TYPE	-
	B]	R			Ľ	>							REMARKS
0.0			0.0					FMC SAND; ov					
		3.0		z		z	1.5 - 3: Light b	rown FM SAN	D; dry				
2.0													
4.0			1780.0			İ	4 - 7: Tan FM0	C SAND; dry; n	io odors				
						1		,, ,					
		3.0		Z		Z							
6.0													
6.0													
-			50.50.0										
8.0			6060.0					lack FMC SAN					WT @ 8'
		4.0		z		z	9.5 - 12: Brow	n Clay with Silt	; soft; high plas	ticity; wet			
			3081.0										
10.0													
									Collected GW-2	27 @ 15:30			
									Set screen	8 - 12'			
12.0									-				
14.0													
14.0													
160					1							+	
16.0													
18.0													
20.0													



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BOREHOLE LOG

BORING ID #: **GW-28**

START DATE: 8/3/15 END DATE: 8/3/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' LATITUDE:

PROJECT NO.: 60273289

BORING LOCATION: DRILLER: DEPTH TO BEDROCK: PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe Layne NA TOTAL DEPTH DRILLED: 12' INSPECTOR: WEATHER CONDITIONS: RMSunny, 90 LONGITUDE: ELEVATION AND DATUM:

	TEL D	C 4 3 4	N E DIEG	D) () (TION			HAMMER	SAMPLER	ST. WATER	DATE 1:	DEPTH 1:	TIME 1:
Г	TELD	SAMI	PLE INFO		HON		WEIGHT(S)			LEVELS CASING	DATE 2:	DEPTH 2:	TIME 2:
(SS)			PID Headspace(ppb)	ODOR OBSERVED	SI	VISIBLE PRODUC	FALL TYPE			CASING	TUBE	CORE	RIG TYPE:
et bg		Y	ace	SER	YS	ROI	ID/OD						
DEPTH (feet bgs)	Blow Count	RECOVERY	adsb	OBS	LAB ANALYSIS	EP						LITHOLOGY/	WATER LEVE
E	N C	CO	не (OR	ΒA	(BE		C	GEOLOGIC DES	SCRIPTION		LITHOLOGY/ SOIL TYPE	-
DE	Blo	RE	PIL	ОО	LA	VIS							REMARKS
0.0			1400.0				0 - 2.5: Black I	FMC SAND; ov	verburden				
		2.5		z		z							
2.0													
4.0			280.0				4 - 7: SAA; dry	v					
1.0		2.2	1900.0			_			ne SAND; wet				
		3.3		Z		Z			,				
6.0													WT @ 7'
			4200.0				0.07.0	T) (()))					
8.0			3051.0				8 - 9.5: Brown						
		3.5	3031.0	Z		Z	9.5 - 11.5: Bro	wn Siit and iine	e Sand; wet; odo	Г			
10.0													
									Collected GW-2	28 @ 16:06			
									Set screen	8 - 12'			
12.0													
14.0													
14.0													
16.0													
40.5													
18.0													
20.0													



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NA

BOREHOLE LOG

BORING ID #: **GW-29**

START DATE: 8/4/15 END DATE: 8/4/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2"
TOTAL DEPTH REACHED: 12'
LATITUDE:

PROJECT NO.: **60273289** BORING LOCATION:

DRILLER: Layne
DEPTH TO BEDROCK:
INSPECTOR: RM
LONGITUDE:

PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 12'
WEATHER CONDITIONS: Sunny, 70
ELEVATION AND DATUM:

							F	HAMAED	CAMPLED	ST. WATER	DATE 1.	DEPEN 1.	TDATE 1.
F	IELD	SAMI	PLE INFO	RMA'	TION		WEIGHT(S)	HAMMER	SAMPLER	LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
			(qc	Ð		Ð	FALL			CASING	TUBE	CORE	RIG TYPE:
gs)			PID Headspace(ppb)	ODOR OBSERVED	SIS	VISIBLE PRODUC	TYPE						
at b		Y	ace	Ë	XS	80	ID/OD						
DEPTH (feet bgs)	Blow Count	RECOVERY	dsp)BS	LAB ANALYSIS	Π.							WATER LEVE
Ξ	ũ	00	Hea	8	₹	BL		C	SEOLOGIC DES	SCRIPTION		LITHOLOGY/	
H	low	Ö	ē	2	ΑB	ISI			202001032	701th 1101		SOIL TYPE	-
		R			ļ	>							REMARKS
0.0			0.0				0 - 3: Brown-B	lack FM SANI	O; dry; no odors				
		3.0		z		z							
		3.0											
2.0													
2.0													
					<u> </u>	<u> </u>							
4.0			765.0				4 - 5.5: SAA; n	noist; no odors					
		2.0	1300.0	_		_	5.5 - 7: Brown						
		3.0		Z		Z		,	,				WT @ 5.5'
													W1 @ 5.5
6.0													
8.0			3700.0				8 - 10: Brown l	FMC SAND: w	et: black laver (9.1 - 9.3'; no od	ors		
			245.0						igh plasticity; so				
		4.0		Z		Z	10 - 12. Blown	Clayey-Bitt, ii	ign plasticity, so	11			
10.0													
									Collected GW-2	9 @ 08:40			
									Set screen	8 - 12'			
12.0													
14.0													
		<u> </u>		<u> </u>		<u> </u>							
16.0			-										
18.0													
20.0					1								
20.0							ļ						



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BOREHOLE LOG

BORING ID #: **GW-30**

START DATE: 8/4/15 END DATE: 8/4/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2"
TOTAL DEPTH REACHED: 12'
LATITUDE:

PROJECT NO.: **60273289**

BORING LOCATION:
DRILLER: Layne
DEPTH TO BEDROCK:
INSPECTOR: RM

PROJECT MANAGER: DRILLING METHOD:

Walter Howard

Geoprobe 12'

TOTAL DEPTH DRILLED: WEATHER CONDITIONS: ELEVATION AND DATUM:

Sunny, 75

TITUDE:	LONG	GITUDE:		ELEVAT	ION AND DATU	M:
FIELD SAMPLE INFORMATION		HAMMER	SAMPLER	ST. WATER	DATE 1:	DEP
FIELD SAMPLE INFORMATION	WEIGHT(C)			LEVELC	DATE O	DED

FIE	ELD S	SAMF	LE INFO	RMA	ΓΙΟΝ		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
			(qdı	ED		UC	FALL			CASING	TUBE	CORE	RIG TYPE:
DEPTH (feet bgs)		λ.	PID Headspace(ppb)	ODOR OBSERVED	LAB ANALYSIS	VISIBLE PRODUC	TYPE ID/OD					+	1
(feel	ount	ERY	qsb)BS	[AL]	E PR		I					WATER LEVEL
ĦŢ.	Blow Count	RECOVERY	Hea	OR (% AN	BL		G	EOLOGIC DE	SCRIPTION		LITHOLOGY/ SOIL TYPE	
DEF	Blov	REC	PID	ODO	LAE	VIS						SOILTIFE	REMARKS
0.0			100.0				0 - 1: Black org	ganic overburde	en				
		2.5		z		z	1 - 2.5: Brown	FMC SAND; d	lry; no odors				
2.0													
4.0			584.0				4 - 8: Brown F	MC SAND; mo	oist; no odor				
		4.0		Z		z							
													WT @ 5.5'
6.0													
6.0													
8.0			565.0				8 - 12: Brown l	FM SAND; wet	t; loose; no odor	S			
		4.0		z		z							
100													
10.0													
									Collected GW-3	30 @ 09:20			
									Set screen				
12.0													
14.0													
14.0													
16.0													
18.0													
20.0													



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NA

BOREHOLE LOG

BORING ID #: **GW-31**

START DATE: 8/4/15 END DATE: 8/4/15

PROJECT NAME: Korkay, Inc
SITE LOCATION: 70 W Main St Broadalbin, NY
DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2"
TOTAL DEPTH REACHED: 12'
LATITUDE:

PROJECT NO.: **60273289** BORING LOCATION:

DRILLER: Layne
DEPTH TO BEDROCK:
INSPECTOR: RM
LONGITUDE:

PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 12'
WEATHER CONDITIONS: Sunny, 80
ELEVATION AND DATUM:

								HAMMED	CAMDIED	CT WATER	DATE 1:	DEDTH 1.	TIME 1.
F	IELD	SAMI	PLE INFO	RMA'	TION		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
			(pp)	ED		JC	FALL			<u>CASING</u>	TUBE	CORE	RIG TYPE:
DEPTH (feet bgs)			PID Headspace(ppb)	ODOR OBSERVED	LAB ANALYSIS	VISIBLE PRODUCT	TYPE				-		
eet	nt	RY	spac	3SE	Ľ	PR(ID/OD						WATER LEV
H (f	Blow Count	RECOVERY	ead	[O]	Ž	LE		_				LITHOLOGY/	
3PT.) MC	CO	ΗC	OOR	B/	SIB		C	SEOLOGIC DES	CRIPTION		SOIL TYPE	-
DE	Ble	RE			LA	ĪΛ							REMARKS
0.0			100.0				0 - 2.6: Light b	rown FM(+)C	SAND; dry				
		2.6		z		z							
		2.0		7									
2.0													
4.0			38.0				4 - 5.5: SAA						
4.0			20.0					rown EM CAN	D; wet; no odor				
		3.0		Z		Z	3.3 - 7. Light 0	IOWII FINI SAIN	D, wet, no odoi				WT @ 5.5
													W 1 @ 3.3
- 0													
6.0													
			620.0										
8.0			628.0				8 - 10: SAA						
		4.0	2600.0	Z		z	10 - 11: Brown	MC SAND; w	et; loose				
10.0													
									Collected GW-3	1 @ 10:00			
									Set screen 8	3 - 12'			
12.0													
14.0													
16.0													
·													
18.0													
10.0													



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BOREHOLE LOG

BORING ID #: **GW-32**

START DATE: 8/4/15 END DATE: 8/4/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

DRILLING CO.: Parratt Wolf BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' LATITUDE: PROJECT NO.: **60273289**BORING LOCATION:

DRILLER: Layne
DEPTH TO BEDROCK:
INSPECTOR: RM
LONGITUDE:

PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 12'
WEATHER CONDITIONS: Sunny, 80
ELEVATION AND DATUM:

LEVATION AND DATOM.

							1		G + 3 CDV FID	OF WATER	D. 1 mm 1	D FIDERY 1	
F	IELD	SAMI	PLE INFO	RMA'	TION		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
			(q	Ω		5	FALL			CASING	TUBE	CORE	RIG TYPE:
(SS)			(dd)	VE.	IS	Ĭ	TYPE						1
şq ı			ice(ER	YS	100	ID/OD						1
DEPTH (feet bgs)	Blow Count	RECOVERY	PID Headspace(ppb)	ODOR OBSERVED	CAB ANALYSIS	VISIBLE PRODUC		1		WATER LEVEL			
) н	Cor	VE.	eac	0~	Ž	E			EOI OGIG DE	CDIDTION		LITHOLOGY/	
F	8	\mathcal{O}	НС	ğ	B,	SB		C	SEOLOGIC DES	SCRIPTION		SOIL TYPE	-
DE	Ble	RE	ПΑ	10	LA	ΛI							REMARKS
0.0			52.0				0 - 3: Tan FM0	C SAND; dry; n	o odors				
								- · · · · · · · · · · · · · · · · · · ·					
		3.0		Z		Z							
2.0													
					-	-							+
4.0			5.5				4 - 5.5: SAA						
		3.5	1800.0	z		z			D; wet; no odor				
		0.0					7 - 7.5: Brown	M(+)C SAND:	wet; loose; no	odors			WT @ 5.5'
6.0													
0.0													
8.0			2300.0				8 - 11: Brown	FM SAND; we	t; loose; no odor	S			
			2500.0						ose; soft; high pl				
		4.0		Z		Z	11 12. Blows	i biity City, ioc					
10.0													
									Collected GW-3	32 @ 10:30			
									Set screen				
12.0									211 5616511				
12.0													
14.0													
				-		-							
16.0													
18.0													
18.0													
20.0													



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BOREHOLE LOG

BORING ID #: **GW-33**

START DATE: 8/4/15 END DATE: 8/4/15

PROJECT NAME: Korkay, Inc
SITE LOCATION: 70 W Main St Broadalbin, NY
DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2"
TOTAL DEPTH REACHED: 12'
LATITUDE:

PROJECT NO.: **60273289**

BORING LOCATION:
DRILLER: Layne
DEPTH TO BEDROCK:
INSPECTOR: RM

LONGITUDE:

PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe
TOTAL DEPTH DRILLED: 12'
WEATHER CONDITIONS: Sunny, 80
ELEVATION AND DATUM:

F	TELD	SAMI	PLE INFO	RMA'	TION		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
_			(qd	GD		JC	FALL			CASING	TUBE	CORE	RIG TYPE:
(sgo			e(p)	SVI	SIS	Д	TYPE						
DEPTH (feet bgs)	<u> </u>	X	PID Headspace(ppb)	ODOR OBSERVED	LAB ANALYSIS	VISIBLE PRODUC	ID/OD	<u> </u>					
(fe	unc	ER	lspı	OBC	ΕŽ	田田				WATER LEVEL			
TH.	Ö	0.0	Нея	×	A	BL		G	EOLOGIC DES	SCRIPTION		LITHOLOGY/	
ЭË	Blow Count	RECOVERY	Œ	ğ	AB	IS]			SOIL TYPE	- DEMARKS			
	Щ	R	40.0		Н								REMARKS
0.0			40.0				0 - 1: Tan FMC	C SAND; dry; n	o odors				
		1.0		z		z							
		1.0											
2.0													
2.0													
	<u> </u>			<u> </u>									
4.0			28.0				4 - 6: Brown M	I(+)C SAND: d	ry; loose; no od	ors			
								. ,	,,,				
		2.0		Z		Z							
6.0													
0.0			2.0				0 11 4 D	E() M GANE					NAME OF OR
8.0			2.0				8 - 11.4: Brown	n F(+)M SANL	; wet; no odors				WT @ 8'
		3.4		z		z							
10.0													
									Callantal CW 3	22 @ 11.25			
									Collected GW-3				
									Set screen	8 - 12'			
12.0													
14.0													
14.0													
16.0													
18.0													
					1	-	+					+	+
20.0				l	1	1							1



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BOREHOLE LOG

BORING ID #: **GW-34**

START DATE: 8/4/15 END DATE: 8/4/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' LATITUDE:

PROJECT NO.: 60273289

BORING LOCATION: DRILLER: DEPTH TO BEDROCK: INSPECTOR:

PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe Layne TOTAL DEPTH DRILLED: 12' WEATHER CONDITIONS: RMSunny, 80 LONGITUDE: ELEVATION AND DATUM:

							ı	HANG CED	CANDY ED	CT WATER	DAME 1	DEDELL 1	TED CE 1
F	IELD	SAMI	PLE INFO	RMA	TION		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
			(qo	Ü		Ð	FALL			CASING	TUBE	CORE	RIG TYPE:
(sg)			id)a	\$VE	SIS	DQ	TYPE						
et b	t	X	pace	SEI	ΓX	RO	ID/OD						
ej)	oun	Æ	adsj	OB	ΑĀ	ĒP			I ITTIOL OCU	WATER LEVEL			
, TH	νC	20	Не	J.R	3 A.	IBI		G	SEOLOGIC DES	SCRIPTION		LITHOLOGY/ SOIL TYPE	
DEPTH (feet bgs)	Blow Count	RECOVERY	PID Headspace(ppb)	ODOR OBSERVED	LAB ANALYSIS	VISIBLE PRODUC			SOILTIFE	REMARKS			
0.0]		14.0			Ĺ	0 - 2.5: Light b	rown FM SAN	D: dry: no odors	1			TEEN THEIR
0.0							2.3. Eight 0	10 1111 111 111 111 1	D, dr y, no odon	,			
		2.5		Z		Z							
2.0													
2.0													
			2100			-							
4.0			2100.0				4 - 7: Light bro	own M(+)C SA	ND; wet				
		3.0		z		z							
													WT @ 5.5'
6.0													
8.0			2.0				8 - 9: Light bro	own MC SAND	; loose; no odor	s			
		4.0		_		z	9 - 10: Brown 1						
		4.0		Z		2							
) - 12: Brown Silty SAND; very compact; wet; no odors					
10.0													
10.0													
									Collected GW-3	24 @ 12-10			
									Set screen				
12.0									Set screen	5 - 12			
12.0													
14.0													
						<u> </u>							ļ
16.0													
18.0													
20.0													



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BOREHOLE LOG

BORING ID #: **GW-35**

START DATE: 8/4/15 END DATE: 8/4/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' LATITUDE:

PROJECT NO.: 60273289

Layne INSPECTOR: RM

PROJECT MANAGER:

Walter Howard

BORING LOCATION: DRILLER: DEPTH TO BEDROCK:

LONGITUDE:

DRILLING METHOD: TOTAL DEPTH DRILLED: WEATHER CONDITIONS:

Geoprobe 12' Sunny, 80

ELEVATION AND DATUM:

											ION THE BITTON		
F	IELD	SAMI	PLE INFO	RMA	TION		WEIGHT(S) LEVELS DATE 2:				DEPTH 1: DEPTH 2:	TIME 1: TIME 2:	
			(pb)	ED		UCI	FALL			CASING	TUBE	CORE	RIG TYPE:
pgs			ce(p	ERV	SIS?	OD	TYPE ID/OD						
DEPTH (feet bgs)	ınt	RECOVERY	PID Headspace(ppb)	ODOR OBSERVED	LAB ANALYSIS	VISIBLE PRODUC	ID/OD	1					WATER LEVEI
) HI	Blow Count	OVE	leac	R O	AN	3LE			LITHOLOGY/				
EP	low	EC	ID I	DO	AB	ISI			GEOLOGIC DES	CKII HOIV		SOIL TYPE	-
	В	R	0.0		1	>	0.1.0						REMARKS
0.0			0.0				0 - 1: Concrete						
		2.4		Z		Z	1 - 2.4: Light b	orown FM(+) SA	AND; dry; no od	ors			
2.0													
2.0													
4.0			1120.0				4 - 6.2: SAA						
+.∪			965.0				6.2 - 8: Brown	FMC SAND:	vet: no odors				
		4.0		Z		Z	0.2 - 0. Blown	i we britte, v	wet, no odors				WT @ 6.2'
6.0													
8.0			1112.0				8 - 11: Brown	F(+)M SAND;	firm; compact; n	o odors			
		3.0		z		z	11 - 11.2: Brov	11 - 11.2: Brown Silt					
		5.0		_									
10.0													
									Set screen 8	3 - 12'			
12.0													
14.0													
16.0													
10.0													
18.0													
10.0													
20.0													



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BOREHOLE LOG

GW-36 BORING ID #:

START DATE: 8/4/15 END DATE: 8/4/15

PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' LATITUDE:

PROJECT NO.: 60273289 BORING LOCATION:

DRILLER: Layne DEPTH TO BEDROCK: INSPECTOR: RMLONGITUDE:

PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe TOTAL DEPTH DRILLED: 12' WEATHER CONDITIONS: Sunny, 80

ELEVATION AND DATUM:

L21111C								GITODE.			ON THE BITTON			
F	IELD	SAM	PLE INFO	RMA	TION		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:	
			<u> </u>	Ω		5	FALL			CASING	TUBE	CORE CORE	RIG TYPE:	
(SS)			[dd)	VE	IS	Ŋ	TYPE	TYPE CASING TOBE COR				<u> </u>	MG TITE.	
DEPTH (feet bgs)		7	PID Headspace(ppb)	ODOR OBSERVED	LAB ANALYSIS	VISIBLE PRODUC	ID/OD]	
fee	Blow Count	RECOVERY	dsb	BS	AL.	PF		1	1		•		WATER LEVEL	
H.	Col	M	leac	80	AN	Ξ̈́			LITHOLOGY/					
EPT	OW	33	DE	Θ.	B	SIE			SEOLOGIC DE	SCRIFTION		SOIL TYPE	-	
DI	Bl	RI	Ы	Ō	Ľ	[>				REMARKS				
0.0			0.0				0 - 2.5: Light b	orown FMC SA	ND; dry					
		2.5		_		_								
		2.5		Z		Z								
2.0														
4.0			58.0				4 - 6.1: Brown	FM(+)C SANI	D. drv					
7.0			1950.0				6.1 - 7: SAA; v		-, ar j					
		3.0	1750.0	Z		Z	0.1 - /: SAA; V	wei						
													WT @ 6.1'	
6.0														
			04											
8.0			94 ppm				8 - 8.7: Black l							
		3.3	2500.0	Y		z	8.7 - 11.3: Bro	7 - 11.3: Brown Silty-Sand; compact; no odors						
						, ,								
10.0														
10.0														
									Collected GW-3					
									Set screen	8 - 12'				
12.0														
14.0														
16.0														
10.0														
18.0														
20.0						1								
20.0			<u> </u>		<u> </u>	<u> </u>	ļ							



40 British American Boulevard Latham, New York 12110 Phone: (518) 951-2200 Fax: (518) 951-2300

BOREHOLE LOG

BORING ID #: **GW-37**

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PROJECT NAME: Korkay, Inc SITE LOCATION: 70 W Main St Broadalbin, NY DRILLING CO.: Parratt Wolff

BOREHOLE DIAMETER: 2" TOTAL DEPTH REACHED: 12' LATITUDE:

PROJECT NO.: 60273289

BORING LOCATION: DRILLER: Layne DEPTH TO BEDROCK:

INSPECTOR:

RM

PROJECT MANAGER:

Walter Howard

DRILLING METHOD: Geoprobe TOTAL DEPTH DRILLED: 12' WEATHER CONDITIONS: ELEVATION AND DATUM:

Sunny, 80

LATITUDE:								ECTOR: GITUDE:	RM		ION AND DATUM:	Sunny, 80	
F	IELD	SAMI	PLE INFO	RMA'	ΓΙΟΝ		WEIGHT(S)	HAMMER	SAMPLER	ST. WATER LEVELS	DATE 1: DATE 2:	DEPTH 1: DEPTH 2:	TIME 1: TIME 2:
-			(qdo	ED	70	UC	FALL			CASING	TUBE	CORE	RIG TYPE:
t bgs		Y	ace(p	ERV	YSE	SOD	TYPE ID/OD						<u> </u>
DEPTH (feet bgs)	Blow Count	RECOVERY	PID Headspace(ppb)	ODOR OBSERVED	LAB ANALYSIS	VISIBLE PRODUCT			LITHOLOGY/	WATER LEVEL			
EPTF	ow (ECO,	Д Не	DOR	AB A	SIB		G	SOIL TYPE	-			
0.0	Bj	R	五 12.0	0	L,	Λ	0 - 2: Light bro	EMC CAN	Di den				REMARKS
0.0		2.0	12.0	_			0 - 2. Light bid	WII FWIC SAIN.	D, dry				
		2.0		Z		Z							
2.0													
4.0			492.0				4 - 7: SAA; we	t					WT @ 4'
		3.0		Z		z							
6.0													
8.0			680.0				8 - 9: SAA; we						
		4.0	500.0	z		z	9 - 12: Gray/br	- 12: Gray/brown Clayey-Silt; compact; firm; no odors					
10.0													
									Collected GW-3 Set screen				
12.0									Bet sereen	5-12			
14.0													
16.0													
10.0													
40.0													
18.0													
20.0					<u> </u>]						