TEKLAB, INC.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004 FAX: 618-344-1005

July 03, 2008

Derek Ingram
Philip Environmental
210 West Sand Bank Road
Columbia, IL 62236-0230

TEL: (618) 281-7173 FAX: (618) 281-5120



NELAP Accredited #100226

RE: A831-735002-012901-225/IP Champaign 62403053 **WorkOrder:** 08060975

Dear Derek Ingram:

TEKLAB, INC received 1 sample on 6/27/2008 3:20:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ideather A. White

Heather A. White Project Manager (618)344-1004 ex.20



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004 FAX: 618-344-1005

Client: Philip Environmental SAMPLE SUMMARY

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060975 Report Date: 03-Jul-08

Lab Sample ID	Client Sample ID	Fractions	Collection Date
08060975-001	WW-2	3	6/27/2008 7:45:00 AM

TEKLAB, INC.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004 FAX: 618-344-1005

Client: Philip Environmental **CASE NARRATIVE**

Project: A831-735002-012901-225/IP Champaign 62403053

LabOrder: 08060975

Report Date: 03-Jul-08 Cooler Receipt Temp: 10.4 °C

State accreditations:

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count (> 200 CFU)

Q - QC criteria failed or noncompliant CCV

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

- Unknown hydrocarbon

NELAP - IL ELAP and NELAP Accredited Field of Testing IDPH - IL Dept. of Public Health C - Client requested RL below

D - Diluted out of sample

E - Value above quantitation range

H - Holding time exceeded

MI - Matrix interference

DNI - Did not ignite



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004 FAX: 618-344-1005

LABORATORY RESULTS

Client: Philip Environmental Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 08060975 Client Sample ID: WW-2

Report Date: 03-Jul-08 Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed Ana	alyst
EPA 600 350.1 R2.0 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		1.43	mg/L	1	6/30/2008 11:59:57 AM	BED
EPA 600 351.2 R2.0 (TOTAL)								
Total Kjeldahl Nitrogen (as N)	NELAP	0.29		2.86	mg/L	1	7/2/2008 10:52:29 AM	BED
STANDARD METHOD 18TH ED.	4500-H B, LABORA	TORY	ANALYZE	<u>D</u>				
Lab pH	NELAP	1.00		12.1		1	6/27/2008 5:49:00 PM	LMK
STANDARD METHODS 18TH ED	o. 5210 B							
Biochemical Oxygen Demand	NELAP	5	E	101	mg/L	1	6/27/2008 6:10:00 PM	TWN

Sample Narrative

Standard Methods 18th Ed. 5210 B

Results are estimated, biased high.

Laboratory control sample did not recover within QC limits.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004 FAX: 618-344-1005

Client: Philip Environmental DATES REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060975 Report Date: 03-Jul-08

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date	Analysis Date
08060975-001A	WW-2	6/27/2008	Waste Water	Standard Methods 18th Ed. 5210 B	6/27/2008	6/27/2008
08060975-001B				EPA 600 350.1 R2.0 (Total)		6/30/2008
				EPA 600 351.2 R2.0 (Total)		7/2/2008
08060975-001C				Standard Method 18th Ed. 4500-H B, Laboratory Analyzed		6/27/2008

ANALYTICAL QC SUMMARY REPORT

Key QC concepts:

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
 - **DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- **DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
 - PQL Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
 - RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
 - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
 - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
 - Surr Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers

DF -	Dilı	ıtion	Fac	tor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count (> 200 CFU)

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

C - Client requested RL below PQL

D - Diluted out of sample

IDPH - IL Dept. of Public Health

O - QC criteria failed

- Unknown hydrocarbon

MI - Matrix interference

DNI - Did not ignite

E - Value above quantitation range

H - Holding time exceeded

NELAP - IL ELAP and NELAP Accredited

Lab Order: 08060975

Report Date: 03-Jul-08

Project: A831-735002-012901-225/IP Champaign 62403053

ANALYTICAL QC SUMMARY REPORT

TestCode: A_NH3_E_AT_350.1R2

Sample ID: MBLK		SampType:				Units: mg/L		Prep Da			RunNo: 11		
Client ID: ZZZZZ	ZZ	Batch ID:	R110026					Analysis Da	te: 6/30/2 0	008	SeqNo: 19	89410	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ia (as N)		< 0.10	0.10									
Sample ID: LCS	S	SampType:	LCS			Units: mg/L		Prep Da	te:		RunNo: 11 0	0026	
Client ID: ZZZZZ	ZZ	Batch ID:	R110026					Analysis Da	te: 6/30/2 0	800	SeqNo: 19	89412	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ia (as N)		2.45	0.10	2.500	0	98.1	90	110				
Sample ID: 08060	0975-001B MS S	SampType:	MS			Units: mg/L		Prep Da	te:		RunNo: 110	0026	
Sample ID: 08060 Client ID: WW-2		SampType: Batch ID:				Units: mg/L		Prep Da Analysis Da		008	RunNo: 11 0 SeqNo: 19 0		
				PQL	SPK value	Units: mg/L SPK Ref Val	%REC	Analysis Da	te: 6/30/20	008 RPD Ref Val			Qual
Client ID: WW-2	2MS		R110026	PQL 0.10	SPK value	-	%REC 96.8	Analysis Da	te: 6/30/20		SeqNo: 19	89438	Qual
Client ID: ww-2 Analyte	zMS ia (as N)		R110026 Result 3.37			SPK Ref Val		Analysis Da	te: 6/30/20 HighLimit 115		SeqNo: 19	RPDLimit	Qual
Client ID: WW-2 Analyte Nitrogen, Ammonia	2MS ia (as N) 0975-001B MSD S	Batch ID:	R110026 Result 3.37			SPK Ref Val	96.8	Analysis Da LowLimit 85	HighLimit 115	RPD Ref Val	SeqNo: 19 8	RPDLimit	Qual
Client ID: WW-2 Analyte Nitrogen, Ammonia Sample ID: 08060	2MS ia (as N) 0975-001B MSD S	Batch ID: SampType:	R110026 Result 3.37		2.000	SPK Ref Val	96.8	Analysis Da LowLimit 85 Prep Da Analysis Da	HighLimit 115 te: 6/30/20	RPD Ref Val	SeqNo: 198 %RPD RunNo: 110	RPDLimit	Qual

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign 62403053

TestCode: A_TKN_E_AT_351.2R2

Lab Order: 08060975 **Report Date:** 03-Jul-08

Sample ID: MBLK	SampType: MBLK			Units: mg/L		Prep Da	te:		RunNo: 11	0101	
Client ID: ZZZZZZ	Batch ID: R110101					Analysis Da	te: 7/2/20 0	8	SeqNo: 19 9	91281	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Kjeldahl Nitrogen (as N)	< 0.21	0.21									
Sample ID: LCS	SampType: LCS			Units: mg/L		Prep Da	te:		RunNo: 11 0	0101	
Client ID: ZZZZZZ	Batch ID: R110101					Analysis Da	te: 7/2/200	8	SeqNo: 19	91282	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Kjeldahl Nitrogen (as N)	9.72	0.21	10.00	0	97.2	85	115				
Sample ID: 08060975-001B MS	SampType: MS			Units: mg/L		Prep Da	te:		RunNo: 11	0101	
, , ,	SampType: MS Batch ID: R110101			Units: mg/L				8	RunNo: 11 0 SeqNo: 19 9		
Sample ID: 08060975-001B MS		PQL	SPK value	Units: mg/L SPK Ref Val	%REC	Prep Da Analysis Da	te: 7/2/200	8 RPD Ref Val			Qual
Sample ID: 08060975-001B MS Client ID: WW-2MS	Batch ID: R110101			_	%REC	Prep Da Analysis Da	te: 7/2/200		SeqNo: 19	91284	Qual
Sample ID: 08060975-001B MS Client ID: WW-2MS Analyte	Batch ID: R110101 Result 16.6	PQL	SPK value	SPK Ref Val		Prep Da Analysis Da LowLimit	te: 7/2/200 HighLimit 115		SeqNo: 19	91284 RPDLimit	Qual
Sample ID: 08060975-001B MS Client ID: WW-2MS Analyte Total Kjeldahl Nitrogen (as N)	Batch ID: R110101 Result 16.6	PQL	SPK value	SPK Ref Val		Prep Da Analysis Da LowLimit 85	te: 7/2/200 HighLimit 115 te:	RPD Ref Val	SeqNo: 19 9	91284 RPDLimit	Qual
Sample ID: 08060975-001B MS Client ID: WW-2MS Analyte Total Kjeldahl Nitrogen (as N) Sample ID: 08060975-001B MSE	Batch ID: R110101 Result 16.6 D SampType: MSD	PQL	SPK value	SPK Ref Val		Prep Da Analysis Da LowLimit 85 Prep Da	HighLimit 115 te: 7/2/200	RPD Ref Val	SeqNo: 199 %RPD RunNo: 110	91284 RPDLimit	Qual

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060975 **Report Date:** 03-Jul-08

ANALYTICAL QC SUMMARY REPORT

TestCode: I_BOD_M_AT

Sample ID: LCS-45947 Client ID: ZZZZZZ	SampType: LCS Batch ID: 45947			Units: mg/L SOP 2030	Prep Date: 6/27/2008 Analysis Date: 6/27/2008	RunNo: 110095 SeqNo: 1991192
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref V	al %RPD RPDLimit Qual
Biochemical Oxygen Demand	303	5	198.0	0	153.0 84.6 115.4	SE
Sample ID: 08060975-001A-DU Client ID: WW-2DUP	P SampType: DUP Batch ID: 45947			Units: mg/L SOP 2030	Prep Date: 6/27/2008 Analysis Date: 6/27/2008	RunNo: 110095 SeqNo: 1991197
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref V	al %RPD RPDLimit Qual
Biochemical Oxygen Demand	102	5			101	0 0.985 40 E
Sample ID: LCSQC-45947 Client ID: ZZZZZZ	SampType: LCSQC Batch ID: 45947			Units: mg/L SOP 2030	Prep Date: 6/27/2008 Analysis Date: 6/27/2008	RunNo: 110095 SeqNo: 1991200
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref V	al %RPD RPDLimit Qual
Biochemical Oxygen Demand	40	5	29.30	0	136.5 70 129	SE

Project: A831-735002-012901-225/IP Champaign 62403053

Lab Order: 08060975 **Report Date:** 03-Jul-08

ANALYTICAL QC SUMMARY REPORT

TestCode: I_PH_M_AT_NF

Sample ID: Client ID:	LCS-R109951	SampType: LCS Batch ID: R109951			Units:		Prep Da		008	RunNo: 109951 SeqNo: 1988202	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLin	nit Qual
Lab pH		6.99	1.00	7.000	0	99.9	99.1	100.9			
Sample ID: Client ID:	LCS-R109951 ZZZZZZ	SampType: LCS Batch ID: R109951			Units:		Prep Da Analysis Da		008	RunNo: 109951 SeqNo: 1988631	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLin	nit Qual
Lab pH		7.00	1.00	7.000	0	100	99.1	100.9			
Sample ID: Client ID:	08060975-001CDUP WW-2DUP	SampType: DUP Batch ID: R109951			Units:		Prep Da Analysis Da		008	RunNo: 109951 SeqNo: 1988633	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLin	nit Qual
Lab pH		12.1	1.00						12.12	0.165	10

TEKLAB, INC.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004 FAX: 618-344-1005

Client: Philip Environmental			RECEIVING CH	IECK LIST
Project: A831-735002-012901-225/IP	Champaigr	62403053		
Lab Order: 08060975	G			
Report Date: 03-Jul-08				
Carrier: Rachael Husan		Received By: EC		
Completed by:		Reviewed by:	CO- 1.11 11	1
Completed by:	_	On:	Elizabeth a. Hh	rleg
27-Jun-08		28-Jun-08	V	ν
Erin Clarke		20 3011 00	Elizabeth A. Hurley	
Pages to follow: Chain of custody 1	Extra pages in	cluded 0		
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present	Temp °C 10.4
Custody seals intact on shippping container/cooler?	Yes 🗌	No 🗌	Not Present	•
Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Present 🗹	
Type of thermal preservation?	None	Ice 🗹	Blue Ice	Dry Ice
Chain of custody present?	Yes 🗸	No 🗌		
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌		
Samples in proper container/bottle?	Yes 🗹	No 🗌		
Sample containers intact?	Yes 🗸	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸			
All samples received within holding time?	Yes 🗹	No 🗌	<u></u>	
Reported field parameters measured:	Field	Lab 🗹	NA	
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗆		
When thermal preservation is required, samples are complied 0.1°C - 6.0°C, or when samples are received on ice the sar				
Water - VOA vials have zero headspace?	Yes	No 🗆	No VOA vials submitted	✓
Water - pH acceptable upon receipt?	Yes 🗸	No 🗌		
Any No responses	must be detailed	I below or on the	COC.	
	- — — — — —	. — — — — —		



Chain of Custody Record

	ğ	y Record	Drown Man
	210 West Sand Bank Hoad (6: P.O. Box 230 (8(Columbia, IL 62236-0230 (6:	(618) 281-7173 Phone (800) 733-7173 (618) 281-5120 Fax	ial No. B 0889(
Project Name: AMMAN IP Champar Myriget Mgr.: Devel Friga	4	Apalyses by Method Name	
Project Number: CO24 3053 Co	Cost Code: 024 SDI	Say	Laboratory Temperature upon Receipt
Sampler(s): L HUSA		יסל יפל	
Laboratory Name: Tel Lab	ter ses es tr *	8 h	0025.500
子 マ	Solution Nation	10	
Sample Number and (deptn)	Time	>	Comments (Field PID) Lab ID #'s
WASH WOLL MANAGES (C.)	7 Sh1012	\ \ \ \	
			AMPRIORRY I, MRUCERO WI
			T/20 20 1/2010\$
			7
Samples Iced:	ON [Lab Directives:
Preservatives (ONLY for Water Samples)		Requested TAT: Rush Fax and/or Mail Results to: T. T.	□ 5 Days Of TD □ Other
VOC Soil (5035)	Sodium Bisulfate/Methanol Undrahlario poid ond/or Sulfurio poid		
Metals	Nitric acid (HNO ₃) Sodium hydroxide (NaOH)	uidelines:	
Other (Specify)		* Special:	
Simplifies	Relinquished by:	ł	Received by:
Carrer / All Oll INO.	Labol Hu	28 62103 1520	Signature Date Time
Distribution: WHITE to Lab CANARY to PM PINK to QA/QC PE-179 (6/03)	QA/QC GREEN to Sampler		Shaded Areas to be Completed by Lab