Ameren Labadie

Piezometer and Boring Locations/Elevations KdG Project 080086-0005

Designation	Shifteda	Desilor	Geomil Maxilon	Ripoldlagaiton
P-155	991943.98	728065.97	الدانية الكالك الكالم المساد فالمساد فالمساد المساد	Below the west have a better a large of the same has a second with the con-
P-156			463.44	466.27
C-157	991964.30	728791.30	464.89	467.60 ***
	991919.96	729107.35	464.1	***
C-157A	991925.41	729106.30	464.0	
P-158	991945.43	729368.05	464.72	467.63
C-159	991906.89	729691.99	463.8	***
P-160	991884.45	729979.25	463.70	466.42
C-161	991888.46	730278.18	463.2	***
P-162	991801.20	730561.78	463.28	465.98
C-163	991897.76	730886.02	462.3	***
P-164	991871.12	731169.33	463.42	465.83
P-165	991660.67	727734.64	464.05	466.80
C-166	991654.39	728048.68	464.2	***
P-167	991646.82	728350.01	463.60	466.56
C-168	991635.63	728804.08	464.0	***
C-168A	991644.97	728805.72	464.2	***
P-169	991653.97	729053.82	464.75	467.42
C-170	991620.18	729392,25	464.0	***
P-171	991629.80	729636.72	463.97	466.87
C-172	991596.82	729981.26	463.2	***
P-173	991592.90	730278.01	463.40	466.33
C-174	991581.45	730570.70	463.5	***
P-175	991556.51	730873.59	463.57	466.06
B-176	991570.90	731163,53	462.7	***
P-177	991336.76	728049.81	464.07	466.87
C-178	991342,28	728334.65	463.9	***
P-179	991350.86	728780.92	464.19	466.93
C-180	991331.60	729095.02	464.3	***
P-181	991334.49	729380.23	464.42	467.35
C-182	991324.63	729674.16	464,5	***
P-183	991309.56	729980.89	463.40	465.96
C-184	991307.04	730272.57	463.2	***
P-185	991289.70	730564.03	463.75	466.43
C-186	991283.38	730857.67	463.4	***
P-187	991308.51	731386.11	462.85	465.67
B-188	991065.40	728033,59	464.9	***
P-189	991059.00	728325.94	464.91	467.93
C-190	991041.41	728854.90	463,2	407.93 ***
P-191	991041.41	729099.94		
			464.41	467.10 ***
C-192	991029.27	729372.42	464.3	***

Horizontal Datum: Missouri State Plane Coordinates - NAD 83 (Feet)
Vertical Datum: NAVD 88 (Feet)

Note: Ground Elevation at Piezometer is a Chiseled Square on the Concrete Pad

Ameren Labadie

Piezometer and Boring Locations/Elevations KdG Project 080086-0005

Designation	Kinding	Desting	Committeeston	12)p3-illayitton
P-193	991026.43	729688.59	464.11	467.00
C-194	991014.62	729967.60	463.2	***
P-195	991065.81	730256.04	463.44	466.07
C-196	990995.86	730560.69	463.5	***
P-197	990891.95	730883.14	463.54	466.10
C-198	990764.91	728321.53	463.7	***
P-199	990738.72	728782.05	465.28	468.13
B-200	990737.06	729073.29	464.8	***
C-200	990737.64	729076.02	464.8	***
P-201	990567.70	729279.14	464.65	467.47
B-202	990727.02	729660.51	463.8	***

Horizontal Datum: Missouri State Plane Coordinates - NAD 83 (Feet)

Vertical Datum: NAVD 88 (Feet)

Note: Ground Elevation at Piezometer is a Chiseled Square on the Concrete Pad

ST. LOUIS | BELLEVILLE

AMEREN LABADIE PLANT MONUMENT RECORD BOOK

KdG Project No. 080086-0001 and 080086-0004

RECEIVED

JUN 2 3 2009

REITZ&JENS, SIC.

Kuhlmann design Group, Inc. 2008-2009

Telephone: 314.434.8898 Fax: 314.434.8280

кdG

June 11, 2009

Ms. Jo Ann Thee, P.E.
Consulting Engineer
Environmental Project Engineering
Ameren U.E.
Power Operations Services
3700 South Lindbergh Boulevard
Mail Code F-604
St. Louis, Missouri 63127

Re: Ameren Labadie Plant

KdG Project No. 080086-0001 and 080086-0004

Dear Ms. Thee:

This letter is to certify to Ameren U.E. that Kuhlmann design Group, Inc. performed the following Survey Services and provided the deliverables described below:

BASIC SERVICES:

Kuhlmann design Group, Inc. constructed and surveyed six new survey control monuments, determined their horizontal and vertical position, and installed orange carsonite posts or bollards near each monument as part of their deliverables.

DELIVERABLES:

MO State Plane Coordinates – (East Zone 2401) NAD '83 (horizontal) and NAVD '88 (vertical) positioning were provided on all monuments. The information provided in this binder includes an area map for ease in referencing the individual data sheets, photographs of the monuments (2-20) away looking in cardinal directions) and (1 - near view looking down on the top of the monument), the monument coordinates and elevations, and a written description of its location. Recovery ties to key monuments are also included.

Kuhlmann design Group, Inc.

Michael S. Huber, MO P.L.S. No. 002491

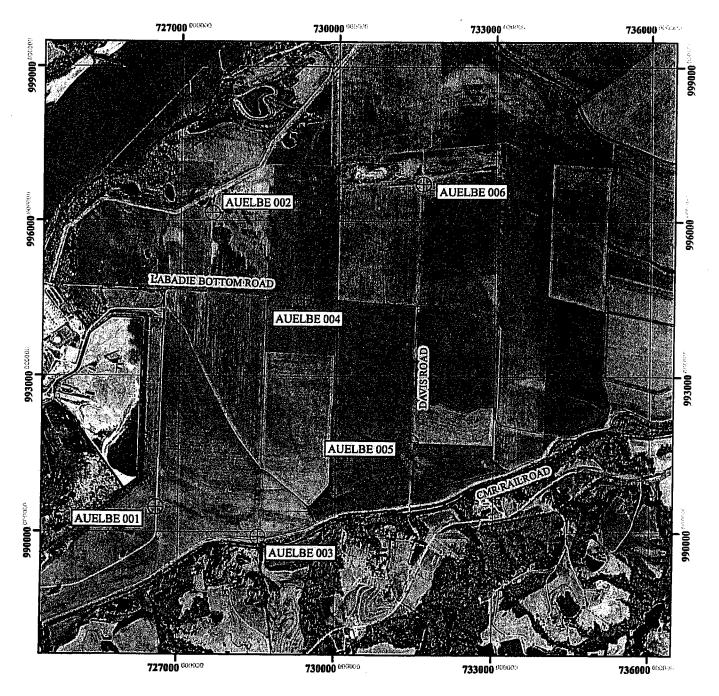
Expires: 12/31/2009

MSH:lma

cc: Mr. Paul Reitz w/Enclosures

1:\2008\080086\0004\Thee 061109 lit.doc

Labadie Power Plant Control Monuments



Designation	Northing	Easting	Elevation
AUELBE-001	990484.82	726569.78	467.19
AUELBE-002	996166.50	727588.30	470.70
AUELBE-003	989921.39	728508.32	467.59
AUELBE-004	994487.79	729353.29	467.02
AUELBE-005	991746.97	731438.28	462.78
AUELBE-006	996729.00	731621.70	467.67



Coordinates are based on: The Missouri Coordinate System of 1983 (East Zone - 2401) Converted from Meters to U.S. Feet

1,500	750	0	1,500	3,000	4,500 Feet
L					

Elevations are based on: NAVD'88

AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

MONUMENT ID: AUELBE	001
DATE SET: NOVEMBER 2008	
DESCRIPTION OF MONUMENT	: 12" DIAMETER CONCRETE (30" DEEP) WITH
	: GEOGRAPHIC REFERENCE SYSTEM / AMEREN
	SURVEY MARKER / DO NOT DISTURB

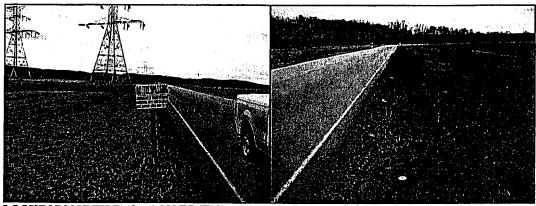
LOCATION: ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.1 MILE NORTH OF CURVE IN ROAD, AND APPROXIMATELY 0.1 MILE SOUTH OF GRAVEL ENTRANCE. BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS 3.2' WEST OF WEST EDGE OF LABADIE BOTTOM ROAD. 10.5' SOUTH OF NO TRESPASSING SIGN. AND 87.7' NORTH OF NO TRESPASSING SIGN.

REMARKS: TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH AN ORANGE CARSONITE POST.

PHOTOGRAPHS				
ORIENTATION PHOTO	CLOSE-UP PHOTO			
DATE: NOVEMBER 2008	DATE: NOVEMBER 2008			
DISTANCE FROM MONUMENT: 20'	REMARKS:			
BEARING FROM CAMERA NORTH AND SOUTH	7			

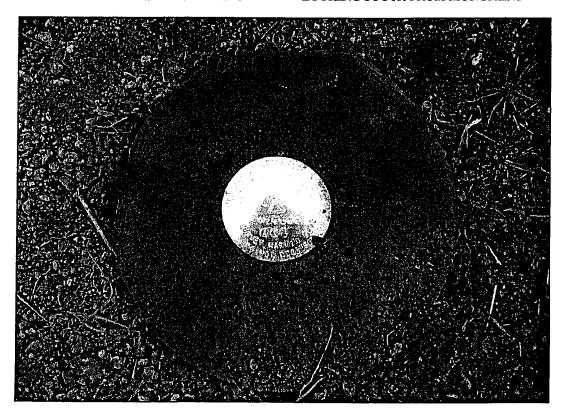
MONUMENT ID: AUELBE 001

DATE: NOVEMBER 2008



LOOKING NORTH FROM MONUMENT

LOOKING SOUTH FROM MONUMENT



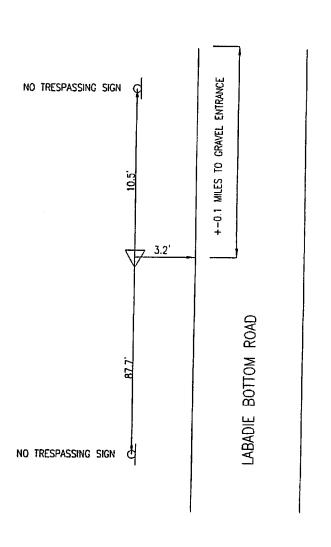
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 001 / 2008 / SURVEY MARKER / DO NOT DISTURB

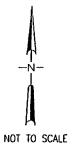
LOCATION: ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.1 MILE NORTH OF CURVE IN ROAD, AND APPROXIMATELY 0.1 MILE SOUTH OF A GRAVEL ENTRANCE, BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS 3.2' WEST OF WEST EDGE OF LABADIE BOTTOM ROAD, 10.5' SOUTH OF NO TRESPASSING SIGN, AND 87.7' NORTH OF NO TRESPASSING SIGN. MONUMENT IS WITNESSED BY AN ORANGE CARSONITE POST.

AMEREN LABADIE	MISSOURI STATE PI	LANE COORDINATES	ELEVATION
MONUMENT # 001	N 990484.82	E 726569.78	467.19

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE001





AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

MONUMENT ID: AUELBE 0	. 002	BE	AUEL	ID:	T	MEN	UN	N	O	M	ľ
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DATE SET: NOVEMBER 2008

DESCRIPTION OF MONUMENT: 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 002 / 2008 / SURVEY MARKER / DO NOT DISTURB

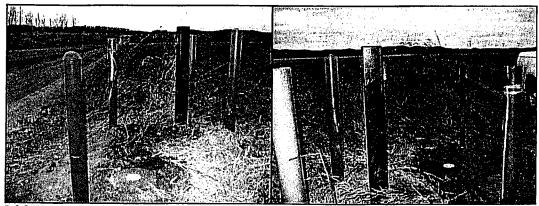
LOCATION: ALONG DIRT ROAD, APPROXIMATELY 0.3 MILE NORTH OF LABADIE BOTTOM ROAD, BEING NORTHEAST OF EXISTING POWER PLANT. MONUMENT IS 5.0' EAST OF EAST EDGE OF DIRT ROAD, AND 3.5' SOUTHWEST OF PIEZOMETER.

REMARKS: TOP OF MONUMENT IS FLUSH WITH GROUND, MONUMENT AND PIEZOMETER ARE SURROUNDED BY FOUR ORANGE BOLLARDS 6" IN DIAMETER.

PHOTOGRAPHS					
ORIENTATION PHOTO	CLOSE-UP PHOTO				
DATE: NOVEMBER 2008	DATE: NOVEMBER 2008				
DISTANCE FROM MONUMENT: 20'	REMARKS:				
BEARING FROM CAMERA NORTH AND SOUTH	7				

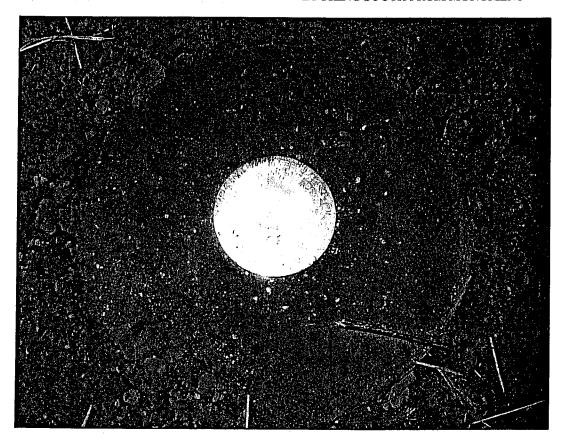
MONUMENT ID: AUELBE 002

DATE: NOVEMBER 2008



LOOKING NORTH FROM MONUMENT

LOOKING SOUTH FROM MONUMENT



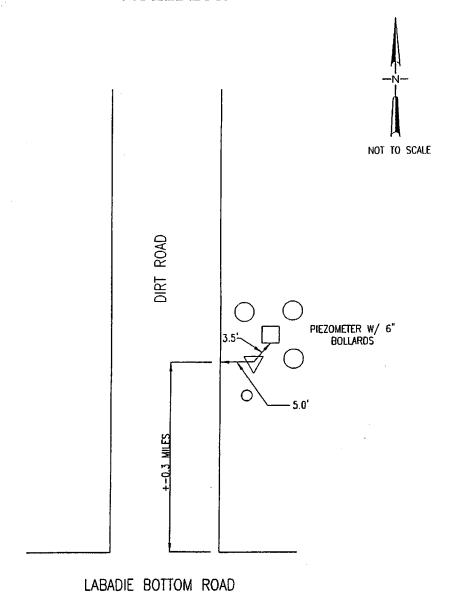
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 002 / 2008 / SURVEY MARKER / DO NOT DISTURB

LOCATION: ALONG DIRT ROAD, APPROXIMATELY 0.3 MILE NORTH OF LABADIE BOTTOM ROAD, BEING NORTHEAST OF EXISTING POWER PLANT. MONUMENT IS 5.0' EAST OF EAST EDGE OF DIRT ROAD, AND 3.5' SOUTHWEST OF PIEZOMETER. MONUMENT AND PIEZOMETER ARE SURROUNDED BY FOUR ORANGE BOLLARDS 6" IN DIAMETER.

AMEREN LABADIE	MICCOLDICTATED	ANE COORDINATES	Et EVATION
		LANE COORDINATES	ELEVATION
MONUMENT # 002	N 996166.50	E 727588.30	470.70

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE002



AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

MONUMENT	'ID: Al	JELBE	003
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DATE SET: NOVEMBER 2008

DESCRIPTION OF MONUMENT: 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 003 / 2008 / SURVEY MARKER / DO NOT DISTURB

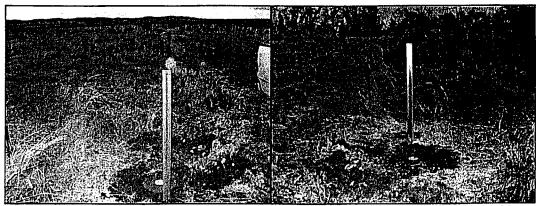
LOCATION: ALONG A FIELD ROAD, APPROXIMATELY 0.9 MILE SOUTH OF LABADIE BOTTOM ROAD, BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS WEST OF WEST EDGE OF FIELD ROAD, APPROXIMAELY 150' SOUTH OF A PIEZOMETER SURROUNDED BY THREE 6" BOLLARDS, AND APPROXIMATELY 280' NORTHWEST OF AN IRON PIN WITH A 2" ALUMINUM CAP.

REMARKS: TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH AN ORANGE CARSONITE POST.

PHOTOGRAPHS				
ORIENTATION PHOTO	CLOSE-UP PHOTO			
DATE: NOVEMBER 2008	DATE: NOVEMBER 2008			
DISTANCE FROM MONUMENT: 20'	REMARKS:			
BEARING FROM CAMERA NORTH AND SOUTH	7			

MONUMENT ID: AUELBE 003

DATE: NOVEMBER 2008



LOOKING NORTH FROM MONUMENT

LOOKING SOUTH FROM MONUMENT

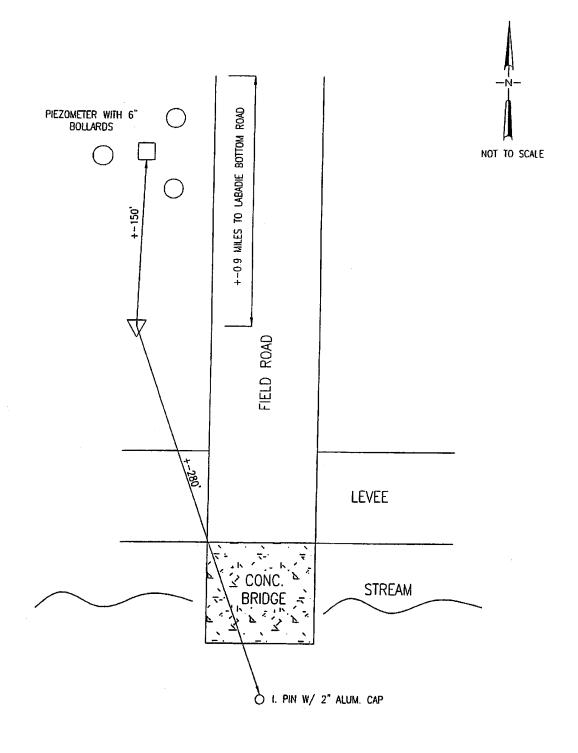


DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 003 / 2008 / SURVEY MARKER / DO NOT DISTURB

LOCATION: ALONG A FIELD ROAD, APPROXIMATELY 0.9 MILE SOUTH OF LABADIE BOTTOM ROAD, BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS WEST OF WEST EDGE OF FIELD ROAD, APPROXIMATELY 150' SOUTH OF A PIEZOMETER SURROUNDED BY THREE 6" BOLLARDS, AND APPROXIMATELY 280' NORTHWEST OF AN IRON PIN WITH A 2" ALUMINUM CAP. MONUMENT IS WITNESSED BY AN ORANGE CARSONITE POST.

AMEREN LABADIE	MISSOURI STATE PL	ANE COORDINATES	ELEVATION
MONUMENT # 003	N 989921.39	E 728508.32	467.59

AMEREN LABADIE MONUMENT RECOVERY TIES AUELBE003



AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

MONUMENT ID: AUELBE	E 004
DATE SET: APRIL 2009	
ALUMINUM CAP. INSCRIPTION REA	VT: 12" DIAMETER CONCRETE (30" DEEP) WITH DS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN S / SURVEY MARKER / DO NOT DISTURB
ROAD, BEING EASTERLY OF EXISTING	OTTOM ROAD, APPROXIMATELY 0.4 MILE WEST OF DAVIS NG POWER PLANT. MONUMENT IS 6.0' SOUTH OF THE ROAD AND 705' EAST OF A 42" DIAMETER TREE.
REMARKS: TOP OF MONUMENT I	
	PHOTOGRAPHS
ORIENTATION PHOTO	CLOSE-UP PHOTO
DATE: APRIL 2009	DATE: APRIL 2009

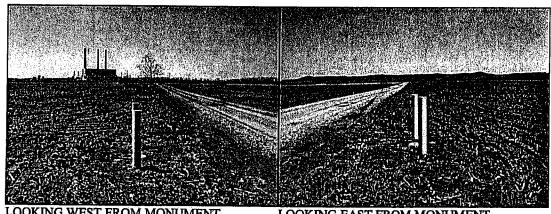
REMARKS:

DISTANCE FROM MONUMENT: 20'

BEARING FROM CAMERA: WEST AND EAST

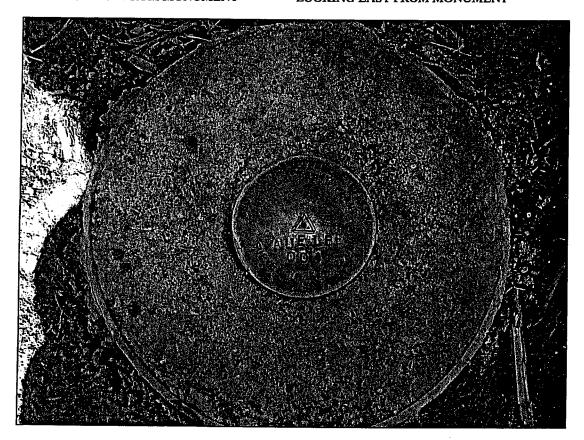
MONUMENT ID: AUELBE 004

DATE: APRIL 2009



LOOKING WEST FROM MONUMENT

LOOKING EAST FROM MONUMENT



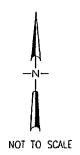
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 004 / 2008 / SURVEY MARKER / DO NOT DISTURB

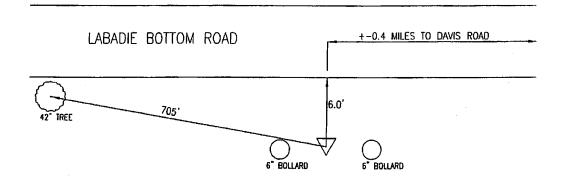
LOCATION: ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.4 MILE WEST OF DAVIS ROAD, BEING EASTERLY OF EXISTING POWER PLANT. MONUMENT IS 6.0' SOUTH OF THE SOUTH EDGE OF LABADIE BOTTOM ROAD AND 705' EAST OF A 42" DIAMETER TREE. MONUMENT IS WITNESSED BY TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

AMEREN LABADIE	MISSOURI STATE PI	LANE COORDINATES	ELEVATION
MONUMENT # 004	N 994487.79	E 729353.29	467.02
112 0 2 1 0 1 1 0 0 1	11 224401.12	15 127333,29	407.02

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE004





AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

٨	ЛС	76	ĴΤ	IN	ARI	VТ	ID:	ΔΥ	H	RE	005
13		"	٧.	ノハ		1 I	w	ΔL	JEL	DL	UUJ

DATE SET: APRIL 2009

DESCRIPTION OF MONUMENT: 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 005 / 2008 / SURVEY MARKER / DO NOT DISTURB

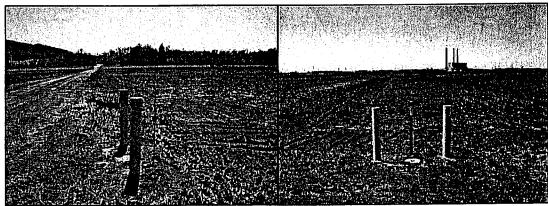
LOCATION: ALONG DAVIS ROAD, APPROXIMATELY 0.5 MILE SOUTH OF LABADIE BOTTOM ROAD, AND APPROXIMATELY 0.25 MILE NORTH OF RAILROAD TRACKS. MONUMENT BEING EASTERLY OF EXISTING POWER PLANT. MONUMENT IS 6.0' WEST OF THE WEST EDGE OF DAVIS ROAD, 26.5' NORTH OF THE WEST END OF A 24" CMP, AND 47.1' NORTHWEST OF THE EAST END OF A 24" CMP.

REMARKS: TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

PHOTOGRAPHS										
ORIENTATION PHOTO	CLOSE-UP PHOTO									
DATE: APRIL 2009	DATE: APRIL 2009									
DISTANCE FROM MONUMENT: 20'	REMARKS:									
BEARING FROM CAMERA: SOUTH AND WEST	7									

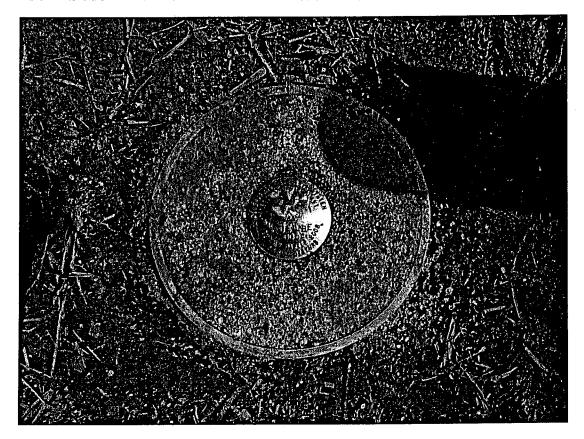
MONUMENT ID: AUELBE 005

DATE: APRIL 2009



LOOKING SOUTH FROM MONUMENT

LOOKING WEST FROM MONUMENT



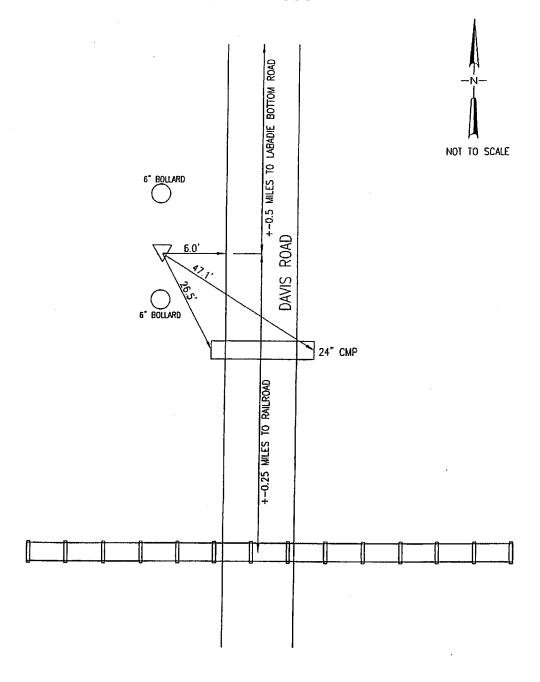
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 005 / 2008 / SURVEY MARKER / DO NOT DISTURB

LOCATION: ALONG DAVIS ROAD, APPROXIMATELY 0.5 MILE SOUTH OF LABADIE BOTTOM ROAD, AND APPROXIMATELY 0.25 MILE NORTH OF RAILROAD TRACKS. MONUMENT BEING EASTERLY OF THE EXISTING POWER PLANT. MONUMENT IS 6.0' WEST OF THE WEST EDGE OF DAVIS ROAD, 26.5' NORTH OF THE WEST END OF A 24" CMP, AND 47.1' NORTHWEST OF THE EAST END OF A 24" CMP. MONUMENT IS WITNESSED BY TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

AMEREN LABADIE	MISSOURI STATE PI	ANE COORDINATES	ELEVATION
MONUMENT # 005	N 991746.97	E 731438.28	462.78

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE005



AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

MONUMENT ID: AUELBE 006

DATE SET: APRIL 2009

DESCRIPTION OF MONUMENT: 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 006 / 2008 / SURVEY MARKER / DO NOT DISTURB

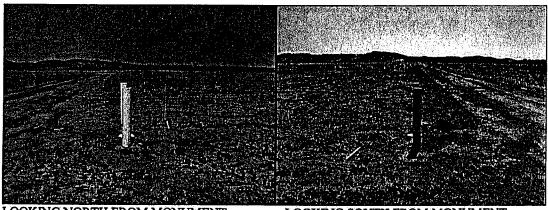
LOCATION: ALONG A DIRT ROAD LOCATED APPROXIMATELY 0.5 MILE NORTH FROM THE INTERSECTION OF DAVIS ROAD AND LABADIE BOTTOM ROAD, BEING NORTHEAST OF THE EXISTING POWER PLANT. MONUMENT IS 6.0' EAST OF THE EAST EDGE OF DIRT ROAD, AND APPROXIMATELY 0.15 MILE SOUTH OF THE INTERSECTION WITH ANOTHER DIRT ROAD.

REMARKS: TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

	PHOTOGRAPHS
ORIENTATION PHOTO	CLOSE-UP PHOTO
DATE: APRIL 2009	DATE: APRIL 2009
DISTANCE FROM MONUMENT: 20'	REMARKS:
BEARING FROM CAMERA: NORTH AND SOUTH	7

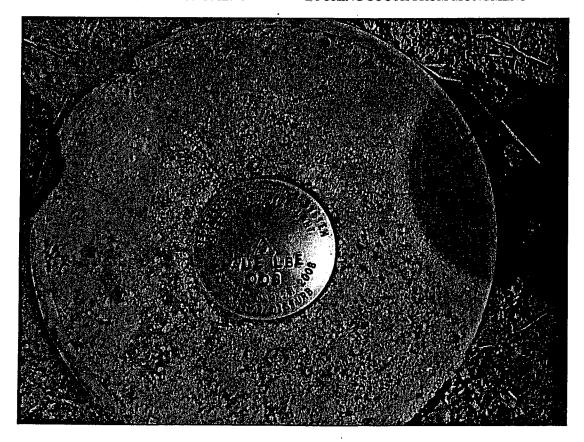
MONUMENT ID: AUELBE 006

DATE: APRIL 2009



LOOKING NORTH FROM MONUMENT

LOOKING SOUTH FROM MONUMENT



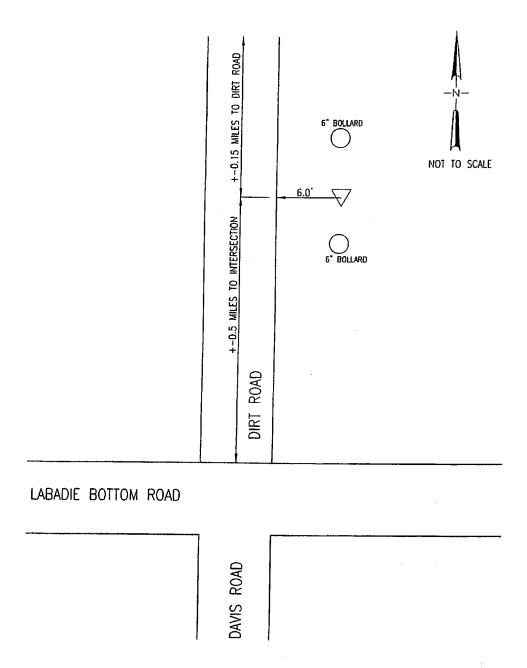
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 006 / 2008 / SURVEY MARKER / DO NOT DISTURB

LOCATION: ALONG A DIRT ROAD LOCATED APPROXIMATELY 0.5 MILE NORTH FROM THE INTERSECTION OF DAVIS ROAD AND LABADIE BOTTOM ROAD, BEING NORTHEAST OF THE EXISTING POWER PLANT. MONUMENT IS 6.0' EAST OF THE EAST EDGE OF DIRT ROAD, AND APPROXIMATELY 0.15 MILE SOUTH OF THE INTERSECTION WITH ANOTHER DIRT ROAD. MONUMENT IS WITNESSED BY TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

AMEREN LABADIE	MISSOURI STATE PL	ANE COORDINATES	ELEVATION
MONUMENT # 006	N 996729.00	E 731621.70	467.67

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE006



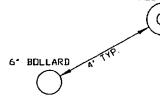
AMEREN LABADIE PLANT GRS CONTROL MONUMENT

ON-SITE

6' BOLLARD

OFF-SITE VIEW FROM ABOVE

10' CONCRETE WITH 4' ALUMINUM DISC



30"

6' BOLLARD

10' CONCRETE WITH 4' ALUMINUM DISC



POST

4" DISC

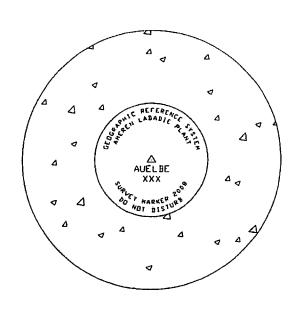
10"-24" SLEEVE (PVC OR CONCRETE D FORM)

Δ

TAPERS FROM 6" 10' TO 12'

#5 REBAR

4' LONG SET IN CENTER OF CONC.



SECTION A-A

DATE:

1-8-09

SHEET 1 OF 1

Kuhlmann Design Group, Inc.

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66 Progress Parkway

St. Louis, Missouri 63043-3706

Tel: (314) 621-8898

(618) 234-8898

St. Louis, Missouri Belleville, Illinois

Mike Carlson

From:

Tom Gredell

Sent:

Thursday, June 25, 2009 8:01 AM

To:

Mike Carlson; Theron Broadfoot; Bill Adams

Cc:

Tom Gredell

Subject:

FW: Labadie Survey Monument Record Book Attachments: Labadie Survey Monument Book -061109.pdf

FYI – all of you may need to be aware of this information at some point in time. Please see that a hard copy and an electronic copy are filed in the Labadie file where it can be retrieved over the next three to four years (the anticipated length of the Labadie Project).

Thomas R. Gredell, P.E. GREDELL Engineering Resources, Inc. 573-659-9078 (office) 866-892-0727 (office - toll free) 573-659-9079 (fax) 573-645-9078 (cell phone) tomg@ger-inc.biz (e-mail)

From: Paul Reitz [mailto:preitz@reitzjens.com] Sent: Wednesday, June 24, 2009 8:35 AM

To: Thee, JoAnn; Tom Gredell Cc: Jeff Fouse; Michael Fink

Subject: Labadie Survey Monument Record Book

KdG prepared the attached book for use at the Labadie UWL. A hard copy will be given to JoAnn later today. If you have questions let me know.

Paul H. Reitz, P.E., C.F.M. Principal Reitz & Jens, Inc.

Visit us on the web at www.ReitzJens.com



Please consider the environment before printing.

Appendix 7

Certification Records

Detailed Site Investigation Proposed Utility Waste Disposal Area Ameren Labadie Power Plant



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Yes		⊠ Ye	es	MOL	JNT	МО	UNT		HOLE FI	LUSH MOUNT	WAS PLAC	CED	SURFAC		⊠ Co	oncrete		
☐ No)			ft.		ft.		in.		ft.	GROUT	İ		ther	_	
	LE	NGTH	DIAMET	ER	WEIGHT OR SDR#	DIAME	TER OF	MATERIA			·			LENGT	'H OF	MATERIAL		_
RISER	•				40	į .				nemoplasti	c (PVC)	SE/	NTONITE AL	SEAL		Slurry		
PIPE DETAIL	28	It. JED	2 in.		L 40	0.69	ft. SECOND	Oth						3 ft.			lar	
DETAIL		Yes		M	Saturated	7000 [ydrated 🖾	·		FROM	PTH TO	F	ORMATION	DESCRIPTION	_
		No			Saturateu Both Zone		i Yes, Hy				Yes 📋	NO	0	11.5	Cla	ay and Sil	t	
DDIMADY		LENGTH								Y FILTER PAG	KIENGT		11.5	25		ne Sand		
PRIMARY FILTER											W 2211011	•	25	35	Me	edium Sar	ıd	
PACK		12.7	ft.			22.3	ft.			1	5 ft.							-
		🛭 Ben	tonite SI	lurry		☐ Cerr	ent/Bent	tonite SI	urry	LENGTH	·		1					Ì
ANNULAR SEAL	۱ ۱	☐ Non	Siurry E	Bento	nite Type	☐ Bag	s of Cem	ent Use	d	ļ								
						□ % of	Bentonit	te Used										ĺ
						☑ Wate	er Used/E	3ag 25	gal.	17.8	ft.				ŀ			1
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SCREEN					HOLE	ł	SCREEN			Thermop	lastic (P	VC)						١
) ft.	2"		8.2		24.7 ft.		Other _			·]		1			
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STATIC WAT	ER L	EVEL		1	<u> </u>		DATE WELL	DRILLING	WAS CO	MPLETED			1 1					1
NA FEET I							9-18]					
	ar /	' ' '	n L	OR)			PERMIT NU 2876M	MBER					1		Ì			
I hereby	erti	fy that	the mo	nitor	ing well h	erein de	scribed	was co	nstructe	ith	1				•			
the Depar	tme	ont of N	latural I	Reso	urces req	uiremen	ts for the	e const	ruction o	3.			1					
1/ -	Ä,			1	a)	2836	NUMBER	DATE 10-12-09										
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OWNER A		s					СПҮ	, —			17 STAT	E T	ZIP CODE			'DNR Yes, Attac	h a copy or		
1901 C		eau A	ve.				St.	Louis			MC	- 1	63166		pro	vide numb	er of variance.		
SITE NAMI		_							1	TNAME			-		L				
Labadie		ver P	lant						Paul P	1ke						-			
226 Lal	oadie	Pow	er Plan	nt Rd N	MC LB	D-645			Labad	ie			i i	TATE O	- 1	CODE			
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TYPE OF		×	Above (Ground	LENGT PROTE	H OF CTIVE CA	ASING	DIAMETE	R OF TIVE CASIN		TER AND I			TECTIVE	Ø:	Steel	LOCKING CAP?		
SURFACE COMPLET			Flush M								G WAS PL	ACED		ERIAL		Aluminum	⊠ Yes		
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□ No	- 1	□ No				t.		£		• -		_	GROUT	ETION		ther			
	LENG	STH .	DIAMET	ER W	EIGHT	DIAME	TER OF	ft.	AL	in.		ft.		LENG	_	MATERIAL			
				O	R SDR#	DRILLI	HOLE			nermoplas	ic (PVC)		NTONITE	SEAL	IN OF	Slumy	□Pellets		
RISER PIPE	281	t.	2 in.	4	0	0.69	ft.	☐ Oth		_	•	SE	AL	3 ft.		1	iar		
DETAIL	GLU						SECON	DARY FIL	TER PAC	К		·		PTH	F	<u> </u>	DESCRIPTION		
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	X	40	_		h Zones				☐ Yes i	_			0 4.6	4.6 35		ay and Sil	t		
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SCREEN	10	4	2"	4	8.25	i	24.7 ft.	1	Other	23 111011110	Jiasuc (F	VC)	ł						
Multiple C	۰	_		s 🗆 No					Remedi	ation 🔲	/00		-{						
Submit a		•										d	$T_{D:}$						
size of al	I cas	ing, h	ole dia	meters	and gr	out use	d.				typo an	u	35ft		1				
STATIC WAT NA FEET I			Riflic POL	LT/	•		PATE WEL 9-18	L DRILLIN	G WAS CO	MPLETED]		•				
SIGNATURE					 -		ERMIT NU	JMBER		_			-						
1/11	en!	<u> </u>	w				2876M		<u> </u>										
I hereby o	ertif	y that	the mo	nitoring	well he	rein de	scribed	was co	nstructe	d in accor	dance v	vith]						
SIGNATURE	(WE)	DKILLI	R)	vesonic	es indr	PERMIT		DATE	ruction (or monitor	ing well	s.	4 1						
<i>II</i> .	H	ur	20	ZS_		2836		10	15-1	クラ									
SIGNATURE	(MPPR	ENTICE	Y			PERMIT I	NUMBER	DATE					TOTA	L DEP	TH:				
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INFOR	MAT	ION S	SUPPL	IED B	Y PRIM	ARY (ONTRA	CTOR	OR DR	ILLING C	ONTRA	ACTO)R	100 (1000) 1					
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Amerer OWNER A		S					CITY				19 STAT	F I	ZIP CODE			DNR Yes Attac	n a copy or		
1901 C	houte	eau A	ve.				1	Louis			МО	1	63166		prov	vide numb	er of variance.		
SITE NAME					. *				CONTAC		1 2,120		05100						
Labadie		ver P	ant						Paul P	ike									
226 Lal		Pow	er Plan	nt Rd.	MC LB	D-645			Labad	ia				ATE	1	CODE			
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Gas I		_		☐ Mor	_		,		Materia		Landfill					s Petroleum Products Only			
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AREA	CO	UNTY		EL	EVATION	-	<u> </u>	ater Lev	el Drawd		SMALLES	-	□ svoc	S RGEST		Pesticides/	lerbicides		
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TYPE OF		T	Above (LENG	TH OF ECTIVE C	ASING	DIAMETE	R OF IVE CASIN		TER AND D			TECTIVE	П	Steel	LOCKING CAP?		
SURFACE		1	Flush M		'''		ASING	FROIECI	IVE CASIN		OLE PROTI G WAS PLA		1	NG ERIAL		Muminum	⊠ Yes		
		<u> </u>			5				in.	12 in.	2 ft.					Plastic	□ No		
WEEP HOL	1.	VENTED Yes		LENGT MOUNT	H OF FLUS		METER OF	FLUSH	DIAMET HOLE FL	ER AND DEP LUSH MOUNT	TH OF THE	CED	SURFAC	E	⊠ Cc	oncrete			
□ No	- 1 '	⊠ No				_							GROUT	TION					
	LENG		DIAMET	FR V	VEIGHT	ft. DIAME	TER OF	ft.	^1	in.		ft.				her			
					R SDR#	DRILL	HOLE			nermoplast	ic (PVC)	BEI	NTONITE	LENGT SEAL	TH OF	MATERIAL Slurry	Pellets		
RISER PIPE	28 f	t. I	4 in.	4	0	0.85	#		er	·····opidoc	10 (1 10)	SEA	AL	3 ft.			☐ Peliets lar ☐ Chips		
DETAIL	GLUE	D				1 0.00		ECONDARY FILTER PACK						PTH	FC	<u> </u>	DESCRIPTION		
ŀ		'es		⊠ Sa	turated 2	Zone	Unsat	Unsaturated Zone Hydrated ⊠ Yes □ No						TO	4				
	⊠ N	lo			th Zones				☐ Yes I		_		0	7			Clay, Silt, VF		
PRIMARY	LE	NGTH		DEPTH	то тор о	F PRIMAP	Y FILTER F	PACK S	ECONDAR	Y FILTER PAG	CK LENGTI	1	┪		Sar	nd			
FILTER PACK	١.	 .											7	20	Fin	e sand			
		3.7 f				21.1	ft.			1.	2 ft.				1 111	ic sailu			
ANNULAR	J		onite SI	•			nent/Ben		-	LENGTH									
SEAL		Non	Słurry E	Bentonit	е Туре	☐ Bag	s of Cem	ent Use	d				20	30	Me	dium San	d		
						□ % o	f Bentoni	te Used		160]						
			_				er Used/l		gal.	16.9	ft.		30	35	Con	ana Cand	w/ Gravel		
WELL	LEN	STH	DIA	METER	OF DE	RILL	DEPTH TO TOP OF			MATERIAL					100	nse sanu	w/ Glavei		
SCREEN					HOLE		SCREEN	1		☑ Thermor	olastic (P	VC)			1				
AA 123 5 5	10		4"		10.3		24.5 ft.		Other										
Multiple C				s 🛭 N						ation 🗌 Y			4 !						
size of all	oditio I casi	nai a na. h	s built ole dia	diagrai	ms show	wing w	ell consi ad	truction	details	including	type an	d							
STATIC WAT				1	drid gi			L DRILLING	G WAS COM	MPLETED									
			URWIS		-		10-19						TD: 35ft		1				
SIGNATION	PRIM	RY CO	NURACTO	DR) 		- 1	PERMIT NU 2876M	MBER					1 3311						
i hereby d	ertify	that 1	he mo	nitoring	well he			wae co	as constructed in accordance with										
tne vepan	tmen	ÇOT Na	aturai F	Resourc	es requ	iiremen	its for th	e const	ruction o	d in accord	uance w ing well:	ιτη \$.							
SIGNATURE	NO CE	DRILLE	R)/			PERMIT	NUMBER	DATE						•					
SIGNATURE (ne	<u> </u>		2836 PERMIT	NUMBER	DATE	3-26-	フフ	··		TOTAL	D					
MO 780-1415	100.00		TUDN O	OMDI =					ECTION S				TOTA	. VEP	'IH:				



OFFICE USE ONLY REF NO:	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
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					WELI ON RE)	ENTER	ED .			APPI	ROVED BY	D	ATE	ROUTE	
INFORM	VA 1							Ph1 ACTOR	Ph2 OR DRI	Ph3 ILLING CO	NTRA	сто	R	4.00			
OWNER N	AME							Bahadis I ada a		<u> </u>	WELL				VA	RIANCE G	RANTED
Ameren OWNER AL		99					CITY	,		·	20				1 = -	DNR	h a aaaaa
1901 CI			ve.					Louis			STATE MO	- 1	ZIP CODE 63166				h a copy or er of variance.
SITE NAME	•						1		CONTACT		1110		05100				
Labadie			lant						Paul P	ike			1 000	A T.D.			
226 Lab			er Plan	t Rd	MC LB	D-645			Labadi	ie			MO 63055				
PROPOSED) USI	OF WE	LL.					OF POTEN	TIAL SITE				MONITORI	NG FOR:	CHECK	ALL THAT AF	
☐ Gas N		_			nitoring zometers		4		Material Assessm		andfill	Ì					Products Only
	5001	1 11011			201116(61)	•	l		el Drawdo		U.S.T.	1	☐ Explo			Vietals Pesticides/i	□ VOC
AREA		OUNTY rankli	•		LEVATION						ALLES	Т		RGEST	الحا	03401003/1	161DIGIGES
LOCATION			ш] (2465'		-			•	1/4		% l	1W	1/4		
Lat. 38		_ •	34	_'2			Se	ection 17	<u> </u>	Township					_	_2 🛭 Ea:	st 🔲 West
Long. 90		 -	49	36	LENG	TH OF	<u> </u>	DIAMETEI	ROF	DIAMETE	D AND D	EDTU (DE DEC	TECTIVE			100/11/00/17
TYPE OF SURFACE			Above C	Ground		ECTIVE CA	SING		TVE CASING		PROTE	CTIVE	CASI			Steel	LOCKING CAP? Yes
COMPLET	ΠON		Flush M	lount	5	ft.		Δv	:4 in.		2 ft.		MAI	ERIAL	_	Numinum Plastic	□ No
WEEP HOLI	E?		D CAP?	LENG1 MOUN	H OF FLUS			F FLUSH	DIAMETE	R AND DEPTH USH MOUNT W	OF THE		SURFAC	F		oncrete	
⊠ Yes	Ì	⊠ Ye		11,001	•	""	J141		HOLE PL	W INDOM NED.	AS PLAC	יבט	COMPLE				
□ No	I EN	☐ No	DIAMET	ED I	WEIGHT	ft.	ER OF	ft.		in.		ft.	01.001			ther	-
	LLI	ioin	DIAME		OR SDR#	DRILL			_	ermoplastic	(PVC)		ITONITE	LENGT SEAL	H OF	MATERIAL Slurry	□Pellets
RISER PIPE	28	ft.	2 in.	·	40	0.69	ft.	Oth		_	(, , ,	SEA	ıL.	3 ft.			lar Chips
DETAIL	GLU	JED					SECONDARY FILTER PACK						DE FROM	PTH	F	<u> </u>	DESCRIPTION
		Yes	ļ	⊠ Sa	aturated 2		☐ Unsaturated Zone Hydrated ☑ Yes ☐ No							16.2	۱.,		
		No			th Zones			•	☐ Yes [0 16.2	35		ay and Sil	t Fine Sand
PRIMARY FILTER	· '	LENGTH		DEPTH	то тор о	F PRIMAR	Y FILTER	PACK	SECONDARY	Y FILTER PACK	LENGTH			 	'	Ty I IIIC -	riic band
PACK		12.8	ft.			22.0	ft.			1.9	ft.						
		⊠ Ben	tonite SI	urry		☐ Cem	ent/Ber	ntonite SI	urry	LENGTH			1				
ANNULAR SEAL	۱ ۱	☐ Non	Slurry E	3entoni	te Type	☐ Bag	s of Cen	nent Use	d								
OLAL						□ % of	Benton	ite Used									
						☑ Water	er Used	/Bag 25	gal.	17.1	ft.						
WELL	LE	NGTH	DIA	METER	DIAM OF DI	RILL	DEPTH TOP OF	·		MATERIAL			1	!			
SCREEN		_			HOLE	1	SCREEN	_		Thermopla	ıstic (P'	VC)					
14-18-1- 0	_	0 ft.	2"		8.25		24.5 ft.		Other						i		
Multiple C				diagram						ation			TD		}		
size of al	ll ca	ısing, I	hole dia	meter	s and g	rout use	ed.	su ucuon	uetans i	including ty	pe and	3	TD: 35ft]		
STATIC WAT NA FEET I			Phys. Box	A	-			LL DRILLIN	G WAS COM	MPLETED							
SIGNATURE	_	_//_					9-18 PERMIT N	UMBER		· · · · · · · · · · · · · · · · · · ·			•		İ		
/ ///-		/ for					PERMIT NUMBER 2876M										
I hereby of	ert	ify that	the mo	nitorin Resour	ig well h	erein de	scribed was constructed in accordance with ts for the construction of monitoring wells.										İ
SIGNATURE	(WE	L OFFICE	ER)	\ /	100		NUMBER	BER DATE									
SIGNATURE		DENTIC	Ma	<u>/l_</u>		2836	NUMBER	MBER DATE									
JOHAIURE	(494F)		<i>''</i>		TTER FA		NUMBER	LAIE				i	TOTA	L DEP	TH:		



OFFICE USE ONLY REF NO.	DATE RECEIVED
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ENTERED	APPROVED BY DATE ROUTE

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Amerei OWNER A		s		······································			I CITY					22 STATE		ZIP CODE			/ DNR Yes. Attac	h a conv or
1901 C	houte	au A	ve.					Louis			J	MO	- 1	63166		pro	ovide numb	er of variance.
SITE NAME									CONTAC		ME	IVIO		03100				
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AREA	1.00	UNTY					<u></u> □ w:	ater Lev	vel Drawd	lown				□ svo	<u>cs</u>		Pesticides/l	- - - - - - - - - - - - - - - - - - -
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Long. 90		- -	49	' 26.	LENGT	HOE	<u> </u>	DIAMETI			DIAMETER	_	_					
TYPE OF SURFACE			Above (Ground		CTIVE C	ASING		TIVE CASIN		THE HOLE CASING W	PROTEC	CTIVE	CAS		K	Steel	LOCKING CAP?
COMPLET			Flush M	lount	_	_	1	_					Æυ	MAT	ERIAL		Aluminum	□ No
WEEP HOL	E? \	/ENTE	D CAP?	LENGTH	OF FLUS	ft.	METER OF	6 FLUSH	x6 in.		12 in. :					<u> </u>	Plastic	
⊠ Yes		⊠ Ye		MOUNT			UNT		HOLE F	LUSH	MOUNT WA	S PLACI	ED	SURFAC		⊠c	Concrete	
☐ No	[□ No)		f	<u>.</u>		ft.		in.			ft.	GROUT			Other	_
	LENG	TH	DIAMET		EIGHT.		TER OF	MATER					14.		LENG	TH OF	MATERIAL	
					R SDR#	DRILL	HOLE	☐ Ste	eel 🖾 T	hemo	oplastic (PVC)	BEN	ITONITE	SEAL		⊠Slurry	□Pellets
RISER PIPE	28 f	t.	4 in.	4()	0.85		Ot					OL.	•	3 ft.		□Granu	iar
DETAIL	GLUE								LTER PAC						PTH	F	ORMATION	DESCRIPTION
	□ Y						☐ Unsat	urated ?	Zone H	lydrat	ed 🛛 Ye	s 🔲 N	10	FROM 0	8 8	┥		
	⊠ N	lo			n Zones		-		☐ Yes					8	25		ne sand, si	
PRIMARY	, LE	NGTH		DEPTH T	O TOP OF	PRIMAR	Y FILTER I	PACK	SECONDAR	RY FILT	TER PACK L	EŃGTH		1			ery nne sa: lt, and clay	nd, fine sand,
FILTER PACK	١,	4 ft.				21.5		ĺ						25	35			medium sand
			lamita Ci				ft.			LIFN	1.7	ft.		4			ne sand, tra	
ANNULAR	.			lurry	•				-					ļ				
SEAL	. -	Non	Slurry E	Bentonite	Туре	Bag	s of Cem	ent Us	ed]				ļ	}			
					į	□ % of	Bentoni	ite Used	d	1,0	0							
							er Used/		gal.	16.	.8	ft.						
WELL	LEN	GTH	DIA	METER	OF DR	ᄔ	DEPTH TO TOP OF	<u> </u>			TERIAL			1	ļ			
SCREEN	i				HOLE	ľ	SCREEN	- 1	Steel	⊠ Th	emoplas	itic (PV	/C)	[.		-		
	10		4"		10.3		24.6 ft.		Other _									
Multiple C				s 🛛 No					r Remed									
Submit a size of al	II casi	ing, h	as built nole dia	diagran meters	ns shov and gr	ving we out use	ell cons ed.	tructio	n details	inclu	ading typ	e and		TD: 35ft				
STATIC WAT			-	1				L DRILLI	NG WAS CO	MPLET	ΓED			33				
SIGNATION			80RING				10-07	II todo	·			-						
	-		122				PERMIT NU 2876M	MDEK										
I hereby o	ertify	that	the mo	nitoring	well he	rein de	scribed	cribed was constructed in accordance with								1		
SIGNATURE	rtmen	tof N	latural i	Resourc	es requ	iremen	ts for th	for the construction of monitoring wells.								1		
	w					2836	NUMBER			AC.	•							
SIGNATURE			<u> </u>				NUMBER	DATE	0-12.	- 0 7		···-		TOTA	DEF	TL.		
NO 780-1/15			F-100 /	OMD! ET								- ·		IJIA	_ ~	· m		



OFFICE USE ONLY REF NO.	DATE RECEIVED
C.R.NO.	CHECK NO.
STATE WELL NUMBER	REVENUE NO.
ENTERED DEC DEC	APPROVED BY DATE ROUTE

		CEF	RTIFIC	ATIC	ON RE	CORI)	ENTER	ED Ph2	Ph3		APPI	ROVED BY	· 0	ATE	ROUTE			
INFORI	MA	TION S	SUPPL	IED B	Y PRIM	ARY C	ONTRA	CTOR	OR DR	ILLING CO				121.41					
OWNER N										-	WELL	NUMB	ER			RIANCE G	RANTED		
OWNER AL		SS					CITY		•		24 STATE		ZIP CODE			' DNR Yes. Attac	h a copy or		
1901 CI		teau A	ve.				St.	Louis			МО	- I	63166				er of variance.		
Labadie	_	war Di	lant						CONTAC Paul P										
SITE ADDR			iani						CITY				STA	ATE	ZIP	CODE			
226 Lab	oadi	e Pow	er Plan	t Rd.,	MC LE	D-645	45 Labadie						M	0	63	63055			
PROPOSED Gas N				□мо	nitoring		1		TIAL SITE Material	. .					CHECK ALL THAT APPLY) S Petroleum Products Only				
☐ Extrac		-			zometer	s			Assessm	-	andfill U.S.T.		☐ Explos			Petroleum I Metals	Products Only		
	,								el Drawde		_		SVOC			Pesticides/I	_		
AREA 1		OUNTY rankli	n		LEVATION 2465'					SI	ALLES	Γ	LA	RGEST			-		
LOCATION	OF V	/ELL			9103		1				¼ _		% N	1W	_14				
Lat. 38		° .	34	_', <u>-2</u>		n	Se	ction 17	·	Township	44 No	rth		Ī	– Range	_2 🛭 Eas	st 🔲 West		
Long. 90	-				LENG	TH OF	<u> </u>	DIAMETE		DIAMETE	R AND DI	PTH (OF PROT	ECTIVE			LOCKING CAP?		
TYPE OF SURFACE	-		Above (PROT	ECTIVE CA	ASING	PROTECT	TIVE CASIN	G THE HOLI	PROTE	CTIVE	CASI	NG	_	Steel Aluminum	⊠ Yes		
COMPLET	rion		Flush M	ount	5	ft.		43	4 in.	12 in.	2 ft.					Plastic	□ No		
WEEP HOLI	E?		D CAP?	LENGT	TH OF FLU		METER OF		DIAMETI	ER AND DEPTH USH MOUNT W	OF THE	FD.	SURFAC	E	N C	oncrete	<u> </u>		
⊠ Yes □ No	1	⊠ Ye □ No					•				,,,,,,		COMPLE GROUT	TION		ther			
	LEN	IGTH .	DIAMET	ER I	WEIGHT	ft.	TER OF	ft.	Δ1	in.		ft.		1500			-		
					OR SDR#	DRILL	HOLE		_	nermoplastic	(PVC)		TONITE	LENGT SEAL	HUF	MATERIAL Siurry	□Pellets		
RISER PIPE	28	ft.	2 in.	4	40	0.69	ft.	☐ Oth		_	`	SEA	\L	3 ft.			lar □Chips		
DETAIL		JED							TER PAC				FROM		F	ORMATION	DESCRIPTION		
		Yes					☐ Unsaturated Zone Hydrated ☒ Yes ☐ No							14.5	٦,				
	Ø				oth Zone		If Yes, Hydrated ☐ Yes ☐ No WARY FILTER PACK SECONDARY FILTER PACK LENGTH							34		ay and Sil ne - Medi			
PRIMARY FILTER	· '	ENGTH		DEPTH	то тор с	F PRIMAR	Y FILTER I	PACK S	SECONDAR	Y FILTER PACK	LENGTH		34	35		parse Sand			
PACK		13.0 1	ft.			22.0	ft.			1.2	ft.								
		⊠ Bent	tonite SI	urry		☐ Cerr	ent/Ben	tonite Si	urry	LENGTH			1						
ANNULAR SEAL	۱ ا	☐ Non	Slurry E	3entoni	te Type	☐ Bag	s of Cem	ent Use	d										
ULAL						☐ % of	Bentoni	ite Used											
						☑ Water	er Used/	Bag 25	gal.	17.8	ft.								
WELL	LE	NGTH	DIA	METER	DIAM OF D	ETER RILL	DEPTH TO	L		MATERIAL			1						
SCREEN	1		1		HOLE		SCREEN	l		X Thermopla	stic (P	VC)							
) ft.	2"		8.25		24.7 ft.		Other _										
Multiple C				s 🛭 N					Remedi				TD:		-				
Submit additional as built diagrams showing waste of all casing, hole diameters and grout use								truction	details	including ty	pe and	1	35ft		}				
STATIC WAT	ER L	EVEL	20	1	· ······ J		DATE WEL	L DRILLIN	G WAS CO	MPLETED			1 1						
NA FEET I							9-18						1		. 				
		11/1	N	<u> </u>			PERMIT NUMBER 2876M												
I hereby	ert	fy that	the mo	nitorin	g well h	erein de	escribed was constructed in accordance with					ith	i i						
SIGNATURE	we WE	DRILLI	iatural i	Kesouf	rces req		ts for th	or the construction of monitoring wells.									İ		
1/ 8		un	July 1	Le		2836	10-12-09												
SIGNATURE	(APF	RENTICE	1)			PERMIT	NUMBER	DATE		 			TOTAL	_ DEF	TH:				
						L.,,							<u> </u>						



OFFICE USE ONLY	DATE RECEIVED
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REF NO.	
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STATE WELL NUMBER	REVENUE NO
ENTERED	APPROVED BY DATE ROUTE

					ON RE			Ph1	RED Ph2	Ph3	3	7 X	14.5	ROVED BY		ATE						
INFORM	MAT	ION S	JUPPLI	IED BY	/ PRIM/	ARY CO	ONTR/	ACTOR	OR DRI	ILLING	CON	TRAC	<u> </u>	IR	**************************************							
OWNER NA Ameren	IAME								_		1	WELL N	ÜMBF	ĒR		VAF	RIANCE GI					
OWNER AD		.ss	<u>.</u>				CITY	<u>r</u>				27 STATE		ZIP CODE		┥ᆸ	' DNR Yes. Attach	h a copy or				
1901 CI		teau A	.ve				St.	Louis				МО		63166		prov	vide numbe	er of variance.				
SITE NAME	_	D.							CONTACT Paul Di					<u> </u>		-!						
Labadie			<u>ant</u>						Paul Pi	ike				T ST.	ATE	7ID (CODE					
226 Lab	badie	e Powe	er Plan	ıt Rd., '	MC LB	D-645		,	Labadi	ie				MO		630						
PROPOSE	E OF WEL	LL				TYPE			MONITORIN	MONITORING FOR: (CHECK ALL THAT APPLY)												
☐ Gas N		-		☐ Mon	_				s Material	_	⊠ Lan							Products Only				
☐ Extrac	ction	Weil	,	⊠ Piez	zometers	•			Assessme	_	🗖 L.U.	.S.T.		☐ Explos			Metals	□ voc				
AREA		OUNTY		E	LEVATION		1 1 44	ater Leve	vel Drawdo	JWN	SMA	ALLEST		SVOC	RGEST		Pesticides/F	lerbicides				
1	F	ranklii			2465'																	
LOCATION				. Et	- "			1/	-					% N		_						
Lat. 38_ Long. 90			33 <u> </u>	' _59 ' 31			36	action 17	'	Fownsnip	P <u> </u> 44	4 Nor	rth		H	Range	_2 🖾 Eas	st 🔲 West				
TYPE OF					LENGT	TH OF ECTIVE CA	ARING	DIAMETER	ER OF	DIAM	AETER /	AND DE	PTH (OF PROT	TECTIVE	⊠ :	Steel	LOCKING CAP?				
SURFACE	E		Above G		F110.2	JOHNE C.	Silvo	PROILS.	IVE UNUITE	CASI	ING WA	PROTEC AS PLACI	;Tiv⊨ ;ED	E CASIN MATE			Aluminum	⊠ Yes				
COMPLET			Flush Mo		5			47	x4 in.		n. 2						Plastic	□ No				
WEEP HOL	E?		D CAP?	LENGTI	H OF FLUS		METER O'	OF FLUSH	DIAMETE	ER AND DEF	FPTH OF	F THE	<u>-</u>	SURFACE	E	г	oncrete	<u> </u>				
⊠ Yes		⊠ Ye		,,,,,			/14.			.Uan w.c	Al Atro-	3 MLNOL	ا تا:	COMPLE		ł —	_					
□ No		☐ No	1	1		ft.		ft.		in.			ft.	GROU,			ther					
.	LEN	NGTH	DIAMETI		WEIGHT OR SDR#	DIAMET DRILL H		MATERIA C Stee			-41- /F		BEI	NTONITE	LENGT SEAL	H OF	MATERIAL.	-				
RISER	28	!	2 in.	1	40	2.50		Oth	eel 🛛 Th	ЮППОріас	stic (r		SEA		İ		Slurry					
PIPE DETAIL	GLU		<u>/ 2 III.</u>			0.69 f			her	=			—		3 ft. PTH		_1	Jar Chips				
		Yes	ſ	⊠ Sa	turated 7				Zone Hy		———			FROM	ТО	+	JKMA I ION	DESCRIPTION				
				1	ith Zones				∠one Hy □Yes[<u> </u>	, L.	10	0	10	Cli	ay and Sil	lt				
		LENGTH		-					SECONDARY		7*0K Ü	-готн		$\frac{10}{21}$	21	Ve	ery Fine Sa					
PRIMARY FILTER	r	All You .			10 , 5.	FI Mes	/ Free	Priori	JECONA,	T Pilatery,	AUN	4NG m		21	35	Fir	ne Sand					
PACK	- 1	13.3 f	ft	l		21.9	ft.				1.6	ft.			1							
	1	☑ Ben′	tonite Si	lurry				ntonite SI	LENGTH				1 '	t								
ANNULAR	_ ¯			•				of Cement Used						1	l							
SEAL		_						nite Used							l							
								d/Bag 25		17.3		ft.		1	l							
	LE	ENGTH	DIA	AMETER	DIAME	ETER I	DEPTH TO	10	gai.	MATERIA				4 1	l							
WELL SCREEN					OF DR HOLE		TOP OF SCREEN	,] Steel	MATERIA Thermo	AL 10plas	itic (P\	<u>/C)</u>	1 /	1.							
SURELI.	110	0 ft.	2"	ff.	8.25		24.9 ft.	ا ا	Other _		•				1							
Multiple C								<u> </u>	r Remedia	iation [1 ves		<u> </u>	1 m.	i							
									n details i					TD: 35ft	i							
size of al	ill ca	asing, h	nole dia	ameter	s and gr	rout use	ed.					5 u			i							
STATIC WAT NA FEET I				1.21	_			LL DRILLIN	NG WAS COM	MPLETED		٠.		1	ı							
SIGNATURE	4	. //	" "	, ,			9-18 PERMIT N	NIMBER		· · · · · · · · · · · · · · · · · · ·				.	i							
1///	In f	The	لاسر				2876M						I		i							
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.													ith	1	ı							
the Depar	rtme	ent of N	Natural F	Resour	ces requ	ulremen	nts for ti	the const	struction o	of monito	oring	wells	<u>. </u>	1	,	1						
SIGNATURE (WEST DRILLER) PERMIT NUMBER DATE 2836 10-12-09												!	1									
SIGNATURE	(AFF	RENTIC	<u>/ //</u>	-0			NUMBER	R DATE		<u> </u>				TOTA	DEI	⊥ >TH:						
SIGNATURE (APPRENTICE) PERMIT NUMBER DATE TOTAL DEPTH:														10.7.	_ 1/10,							



OFFICE USE ONLY	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

					WEL ON RE		D	ENTER	1. 20 1. 3 1. 32				APPF	ROVED BY	D	ATE	ROUTE	le or service		
INFORI	MAT	TON :	SUPPL	IED B	Y PRIM	ARY C	ONTRA	Phi	Ph2 OR DRI	II I IN	Ph3 JG CON	ITDA	CTO	D						
OWNER N	AME		A TANK THE TANK	and the second	S 20 0 2 1 1 1 1		2,8.7,0			i to half i		WELL			a(19) (2) (4)	Ι VΔI		PANTED		
Ameren 29																	VARIANCE GRANTED BY DNR			
OWNER ADDRESS CITY STATE 1901 Chouteau Ave. St. Louis MO													- 2	ZIP CODE			Yes. Attach a copy or			
SITE NAME	ve.		St.	Louis			MO		63166	6 provide number of vari										
Labadie Power Plant Paul Pike																				
SITE ADDRESS CITY														ST						
226 Labadie Power Plant Rd., MC LBD-645 PROPOSED USE OF WELL TYPE OF POTENTIAL SITE														MO 63055 MONITORING FOR: (CHECK ALL THAT APPLY)						
☐ Gas N	Vloni	toring \	Vell	□ Мо	nitoring		l		Material		⊠ Lar	ndfill					CHECK ALL THAT APPLY) B			
☐ Extra	ctior	Well		_	zometer	6			Assessm		☐ L.U		1	☐ Explo			Metals ☐ VOC			
							1		el Drawdo	-			- 1	☐ SVOCS ☐ Pesticides/Herbicides						
AREA		OUNTY			LEVATION						SMA	ALLES'			RGEST		GGGGGGGG	TOTOTOTOTO		
LOCATION	Franklin @465'													% l	.737	1,				
Lat. 38			34	, n	n		.l _{Se}	ction 17		Town				% 1		_	2 🖾 🖘	st 🔲 West		
Long. 90		- •	49)	,					dilip	7 110	,, ,, ,		,	\anye	_2 M Ea	st 🗀 west		
TYPE OF			Above C	Ground		TH OF ECTIVE C		PROTECT	R OF IVE CASING	3 1	DIAMETER THE HOLE	AND DI	PTH (OF PRO	ECTIVE	XI S	☑ Steel LOCKING			
SURFACE COMPLET			Flush M		1					` c	CASING WAS		CED		RIAL	_	Numinum	⊠ Yes		
				Mount		ft.			4 in.	1	12 in. 2 ft.					☐ Plastic ☐ No		□ No		
WEEP HOLI	E?		D CAP?	LENG1 MOUN	TH OF FLUS		METER OF	FLUSH			DEPTH O		ED	SURFAC	Ε	I⊠ C	ncrete			
⊠ Yes □ No	es 🛛 🔀 Yes									HOLE FLUSH MOUNT WAS P			_	COMPLE	TION	☐ Other				
		□ No ft. ft. in.											ft.	GROOT		LJ Oi	ner	-		
	LEN	IGTH	DIAMET		WEIGHT OR SDR#	DIAME	TER OF HOLE		ATERIAL				DEN	ITONITE	LENGT SEAL	H OF	MATERIAL			
RISER	20 # 2.5		2 :	[.	40		. 1		el 🛛 Thermoplastic (PVC)			SEA	L			Slurry				
PIPE DETAIL	28 ft. 2 in.		Z in.	0.69			ft. Other SECONDARY FILTER							T	3 ft.	Granular Chips				
		Yes		M c	turntod :						. 53.4			FROM	PTH TO	FC	DRMATION	DESCRIPTION		
	⊠				th Zones				one Hy			s ∐ I	/O	0	10.2		ay and Si	it.		
							-		Yes [_				10.2	13	,	ue Clay			
PRIMARY FILTER	LENGTH			DEPTH TO TOP OF PRIMA			TFILIERI	BECONDAR	ECONDARY FILTER PACK LENGTH				13.0	20.6			ery Fine Sand			
PACK	12.7 ft.			22.3			ft.		1.5 ft.			fŧ		20.6	25		e Sand	•		
	-		tonite SI				ent/Ben	tonite SI				14		25	35	Co	arse Sand	l		
ANNULAR				-				*	*											
SEAL	'	_ 14011	Oldiny L	Jeritorii	ie rype	_	s of Cement Used													
							Bentoni			17.8	Q	ft.								
	<u> </u>	1000	1 500				er Used/	-	gal.	17.0		11.								
WELL	LENGTH DI			METER DIAMETER OF DRILL			DEPTH TO TOP OF		MATERIAL									-		
SCREEN				HOLE			-		Steel Thermoplastic (F			itic (P	VC)	TD:		ł				
	_	ft.	2"		8.25		24.7 ft.		Other _		-			35ft						
Multiple C	_			s 🔲 1					Remedia											
Submit a size of al	ddit I ca	ional a sing t	as built aola dia	diagra	ıms sho	wing w	ell cons	truction	details i	inclu	ding typ	e and	i .							
STATIC WAT			Ole dia	1110101	s and gi			I DRILLIN	G WAS COL	JDI ETI		-		•		İ				
NA FEET FROM MEASURING POINT DATE WELL DRILLING WAS COMPLETED 9-18															}					
SIGNATURE (PRIMARY CONTRACTOR) PERMIT NUMBER																				
I hereby certify that the monitoring well herein described was constructed in accordance with														1						
the Depar	ertí tme	ry tnat nt <i>ef</i> N	tne mo. latural F	nitorin Resovi	g well h	arein de Jiremen	scribed ts for th	was co	nstructed	d in a	ccordar	ice w	ith							
SIGNATURE	W	DRILL	ER)				NUMBER	DATE			viing	144112	•	İ		-				
/ x	L	un	M	<u> </u>		2836			0-12	-05	7_									
SIGNATURE (APPRENTICE) PERMIT NUMBER DATE											TOTA	L DEF	TH:							
NO 700 1445	/08.f	<u>V</u>	ETIIPN C	OMDI	TED FOR	M TO: N	VELLUE A	I DECT	ECTION O	ECTIC	N 00 5			II A NO						



	ICE U	ILY.	DATI	ERECEIVE	D			8
01.0	0		e:E	100				
EVIE	ED		APR	OVED BY	0	ATE	ROUTE	

					ON RE	_	.D	ENTER	ED			APP	ROVED BY	r c	ATE	ROUTE	
INFOR	МД'							PHI	Ph2	PAG ILLING COI				No.			
OWNER N	AME		<u> </u>	ريد بحقار	A PAINING	Anisv	<u>OUIV</u>	AUIUN	UKUKU	ELING CU	WELL				TVA	DIANCE C	DANTED
Amerer										,	31	10	-11		BY	RIANCE G DNR	RANIED
OWNER AL							CITY				STATE		ZIP CODE		╛╸	Yes. Attac	h a copy or
1901 C		teau A	ive.				St.	Louis			МО	- 1	63166		prov	vide numb	er of variance.
SITE NAME		D	·1 <u>.</u>						CONTACT Paul Pil								,
Labadie SITE ADDR			lant	<u> </u>					CITY	<u>ke</u>			T ST	ATE	ZIP (CODE	
226 Lat	oadi	e Pow	er Plan	ıt Rd.,	MC LB	D-645		OF POTEN	Labadie	<u>.e</u>			M	O	630	055	
Gas N				ПМо	nitoring				NTIAL SITE S Material	· [2]	andfill					ALL THAT AP	•
☐ Extra		_			ezometers	c			s materiai Assessme		andfill .U.S.T.						Products Only
				K	Lunion	,	· -		∘ Assessme ⁄el Drawdo		U.S. I .	- 1	SVOC			Metals Pesticides/l	☐ VOC Herbicides
AREA 1		OUNTY Frankli			LEVATION		+	G(V	Ji Diavi		MALLEST			ARGEST		<u> 1881101000 </u>	Herbicides
LOCATION			<u>n</u>		@465'		4				1/4		% N	NW.	14		
Lat. 38		 °,	33 ° 49	', _57	7	<u>.</u>	Se	ection 17	/7	Township4						_2 🛭 Ea:	st 🗌 West
Long. 90					LENGT	TH OF	1	DIAMETER	R OF	DIAMETER	O AND D	=DTH	OF PRO	TECTIVE			LOCKING CAP?
TYPE OF SURFACE		1	Above C		PROTE	ECTIVE CA	ASING		TIVE CASING	G THE HOLE CASING W	E PROTEC	CTIVE	CASI	ING	□»	Steel	LOCKING CAP? ⊠ Yes
COMPLET			Flush M	lount	5	£L.						jeu	MAIC	ERIAL		Aluminum	□ No
WEEP HOL	.E?	VENTE	D CAP?		TH OF FLUS	SH DIA	AMETER OF		in. DIAMETER	ER AND DEPTH	2 ft.					Plastic	
⊠ Yes		⊠ Ye		MOUNT			UNT		HOLE FLI	.USH MOUNT W	AS PLAC	ED	SURFAC		⊠ Cc	oncrete	
☐ No		☐ No	ا ر			ft.		ft.		in.		44	GROUT	11014	□ Ot	ther	
	LEN	NGTH	DIAMET		WEIGHT	DIAME	TER OF	MATERIA		in.		ft.		LENGT		MATERIAL	
	i	7	1	٥	OR SDR#	DRILL				nermoplastic ((PVC)		NTONITE	SEAL	in Ui	Slurry	
RISER PIPE	28	ft.	4 in.	4	40	0.851	ff. /	I	ner	*****	,	SEA	'L	3 ft.		1	ular □Chips
DETAIL	GLU								LTER PACK	<u>-</u>			I DE	PTH	Fr		DESCRIPTION
1		Yes	1	⊠ Sa	aturated 7					ydrated 🛛 Ye	ا عم		FROM	ТО	 	JI Ciro C.	DECOMM 1.5
	Ø١	No	}		oth Zones				☐ Yes ☐		. بــا ده	40	0	12	Int	erbedded	Clay, Silt, VF
<u>-</u>		LENGTH		L						Y FILTER PACK I	* ENGTH		┧ '	1	Sar		, ,
PRIMARY FILTER				1	14.	• • • • • • • • • • • • • • • • • • • •	- 1 1 m - co	7000	EUUND,	FILTER FROM	LENGIII		12	21	Fin	ne sand	
PACK		13.8 f	ft.	ı	_	21.2	ft.			1.2	ft.		1 '				
	ſ	Ben¹	tonite Sl	lurry .				ntonite Si	lurry	LENGTH			21	32		1 /D1	. ~.
ANNULAR	_			-				ment Use	1	(21	32	Sar	nd w/Plas	tic Clay
SEAL	-		O.L.,	/Orice						ľ			32	35		arse Sand	1
								nite Used		17.0	ft.			1	Cu	arse same	Į.
	 	NGTH	· DIA	·				/Bag 25 g	gal.	17.0	n.			l .			
WELL		li iri	UIA.	METER	OF DR	RILL '	TOP OF			MATERIAL	- 451]	ĺ			
SCREEN	1,	^ ~ ~			HOLE		SCREEN] Steel ⊠] Other_	▼ Thermoplas	stic (۲۷	/C)		ı			
Multiple C	—) ft. d Wells	4" s □ Ye:	ft. es⊠ No	10.3		24.7 ft.			ation 🗌 Yes			4	i			
										ation		 '	4}	I		-	
size of all	II ças	ising, h	iole dia	meters	s and gr	out use	ad.	Tucuon	Oetans n	veinging rat	pe anu	1 1	TD: 35ft	i			
STATIC WAT			1					LL DRILLIN	IG WAS COM	/PLETED			3311	i			
SIGNATURE/			SURING P				10-16						1	ı			
SIGNATURE	' // 3	Par	MYSACIO	JR)			PERMIT NU 2876M						1	ı	1.		
		hy that	the mo	nitorin	a well h					d in accorda			1	į			
the Depar	rtmei	int of Na	Vatural R	Resour	ces requ	iremen	its for th	Nas co. ne const	Astructed Truction o	d in accorda of monitoring	ince wi	th p	1				
SIGNATURE	19920	L DRILLE	ER)	1		PERMIT	NUMBER	DATE)		1				
SIGNATURE (1	PENDICE	M	<u>v_</u>		2836			10-26-	09							
SIGNATOR.	(Агг.	(CHICL))			PERMILI	NUMBER	DATE				_	TOTAL	L DEP	TH:		
					i			1				3	1				,



REF NO.	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
ENTERED DAY	APPROVED BY DATE ROUTE

•		CEF	ETIFIC	ATIO	N RE	CORD)	ENTER Ph1	EN AVEL THE WAY					ROVED BY	D/	ATE	ROUTE	
INFORM	ITAN	ON S	UPPLI	ED BY	PRIM/	ARY CO)NTR/	ACTOR	OR DRI	ILLIN	1G COI				10 12 mil	1982		
OWNER NA Ameren												WELL	NUMBE	ER			RIANCE G	RANTED
OWNER AD		s					CITY	<i>i</i>				33 STATE	<u> </u>	ŽIP CODE		┤┍╵	Yes. Attacl	h a copy or
1901 Cl		au A	ve.				St.	Louis				МО		63166	<u></u>			er of variance.
SITE NAME		D1							Paul P		Ē					-1		
Labadie SITE ADDR		/er rı	ant						CITY	INC				STA	TE	ZIP C	ODE	
226 Lab	adie	Pow	er Plan	t Rd., 1	MC LB	<u>D-645</u>			Labadi					M		630		···
PROPOSED Gas N				☐ Moni	itoring				NTIAL SITE IS Material		⊠la	andfill					ALL THAT AP	PLY) Products Only
☐ Extrac		-			cometers	;	1		Assessm			U.S.T.		☐ Explos			retroleum i Netals	VOC
				· .			1		vel Drawdo					□ svoc	S			Herbicides
AREA 1		OUNTY anklii	n		EVATION 465'						SM	ALLES"	T	LA	RGEST			
LOCATION	OF WE	ELL	<u> </u>		703							¼ _		% N	1M	_¼		
Lat. 38 Long. 90_		_ ° .3	33 <u> </u>	', _56_ ' 27_			Se	action 17	7	Town							2 🛭 Eas	st 🔲 West
TYPE OF		121	Above C	Pround	LENGT PROTE	TH OF ECTIVE CA	SING	DIAMETE	ER OF	1G	DIAMETER THE HOLE	R AND D	EPTH (OF PROT	ECTIVE	⊠s	iteel	LOCKING CAP?
SURFACE			Flush M					****			CASING W			MATE			duminum	⊠ Yes
_		<u>.</u>			5	ft.			x4 in.			2 ft.				<u> </u>	Plastic	□ No
WEEP HOLE		VENTE	D CAP?	MOUNT	H OF FLUS	H DIAN MOU		F FLUSH			ID DEPTH (MOUNT W/			SURFAC		⊠ Co	oncrete	
□ No		□ No	ľ	ĺ		ft.		ft.		in			4	GROUT	HUN	☐ Ot	her	
	LENG		DIAMET		/EIGHT	DIAMET		MATERI		in.			ft.		LENGT		MATERIAL	
			1		R SDR#	DRILL H	IOLE	☐ Ste	eel 🖾 Th	hermc	oplastic ((PVC)	BEN	NTONITE	SEAL		⊠Slurry	
RISER PIPE	28 f	ít.	2 in.	4	0	0.69 f			her				"	\L	3 ft.		☐Grant	ılar □Chips
DETAIL	GLUE								LTER PAC						PTH	FC	RMATION	DESCRIPTION
	_ \ _ \		1						Zone Hy	-		es 🔲	No	FROM 0	11.6	٦,		14
	4 🗵				th Zones				☐ Yes [11.6	26.5	1	ny and Sil ne Sand	l t
PRIMARY	LE	ENGTH		DEPTH 1	TO TOP OF	PRIMARY	/ FILTER	PACK	SECONDAR	₹Y FILT	ER PACK	LENGTH	4	26.5	35	1	arse Sand	i
FILTER PACK	,	13.1 1	e	Į		21.7	ft.	Ī			1.2	ft.				ŀ		
			tonite SI	lurry				ntonite S	Slurry	LEN	I.Z IGTH	- 11.		┨				
ANNULAR	-	_		•				ment Use	•									
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•								i/Bag 25		17.	.5	ft.						
· · · · · · · · · · · · · · · · · · ·	LEN	NGTH	DIA	METER	DIAME	ETER I	DEPTH TO		gai.	140.	TERIAL			-{ }				
WELL SCREEN					OF DE HOLE	RILL :	TOP OF SCREEN	1	Steel [TERIAL nermopla	astic (P	VC)	┨ ╿				
SCREEN	10	ft.	2"	ft.	8.25	in.	24.5 ft.	_	Other _						-	1		
Multiple C	——			es 🗌 No	0				or Remedi	iation	ı ☐ Ye	s		TD:				•
Submit a size of al	ıdditi II ca:	onal a	as built nole dia	diagrai meters	ms sho	wing we	all cons	struction	n details	inclu	iding ty	pe an	d	35ft	I			
STATIC WAT				7]				:LL DRILLIP	NG WAS CO	MPLET	ΓED			1	i	ĺ		
NA FEET						L_	9-18 PERMIT N	II HARER						4	-			
TIIL	11	1/	R				2876M	_										
I hereby o	certif rtme	y that	the mo	nitoring Resour	j well h	erein de uiremen	scribed	d was cons	onstructe	ed in	accorda onitorin	ance w	vith	1				
SIGNATURE	W 5	LBRILL	ER)			PERMIT	ments for the construction of monitoring wells. RMIT NUMBER DATE				1							
SIGNATURE		11	ne	Jes.		2836	NUMBER		10-12	-09	<u>, </u>					<u> </u>		
SIGNATURE	(AFF	ENIT	5) 			PERMIT	NUMBER	DATE						TOTA	L DEF	TH:		



OFFICE USE ONLY	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

					N RE		_	ENTE Ph1	RED		-		APP	ROVED BY		DATE	40 B		-
INFOR	MATI	ON S	UPPL	IED BY	PRIM	ARY C	ONTR	ACTOF	OR DR	RILLI	NG COI	NTRA	CTC)R		* : - ! ! :			
OWNER N. Amerer	-DAILE											WELL 35	NUME	BER		V	ARIANCE O		
OWNER AL							CIT		· ·			STATE	Т	ZIP CODE		\dashv \Box	Yes. Attac	h a copy or	٠
1901 C		u A	ve.				St.	Louis	CONTAC	CT NAI	<u> </u>	МО		63166		pro	ovide numb	er of varianc	е.
Labadie	Pow	er Pl	ant						Paul F		AIC.								
SITE ADDR		Dow	or Dian	. D.J. 1	AC I D	D 645			CITY	••					TATE	- 1	CODE		_
PROPOSE	D USE O	FWEL	L Flan	t Ka., I	VIC LB	D-043	TYPE	OF POTEN	Labad		·				IO		055 KALL THAT AI	PPI VI	
Gas M		_		☐ Mon	_				s Materla		🛛 La							Products On	ly
	ction V	/ell		⊠ Plez	ometers		1 —		Assessm el Drawd		<u> </u> L.(J.S.T.		☐ Expl			Metals	□ voc	
AREA 1	COU	NTY nklir			EVATION		"	ator Lov	CI DIAWO	OWIT	SM	ALLES	<u>і</u> Г	SVO	CS ARGEST		Pesticides/	Herbicides	
LOCATION			<u>-</u>	1 @	465'		1					_¼ _		1⁄4	NW	1/4			
Lat. 38_ Long. 90	·	. ° .3	3 <u> </u>	', _57. 18			Se	ection 17	7	Tow							2 ⊠ Ea	st 🔲 West	ĵ
TYPE OF	Ì	⊠ A	Above C	Ground	LENGT PROTE	H OF CTIVE CA	SING	DIAMETE	R OF TIVE CASIN	iG	DIAMETER THE HOLE	AND DE	PTH		OTECTIVE SING	Ø	Steel	LOCKING CA	P?
SURFACE COMPLET			lush M		_						CASING W			, -,	ERIAL		Aluminum	☑ Yes ☐ No	
WEEP HOLI	 VI	NTEC	CAP?		5 OF FLUS			4: F FLUSH	K4 in.		12 in. 2	2 ft.		 			Plastic	L NO	
⊠ Yes	- 1 -	Yes	3	MOUNT		MOI	JNT		HOLE FI	LUSH	MOUNT WA	S PLAC	ED	SURFA	ETION	⊠c	oncrete		
□ No] No		1		i.		ft.		in.			ft.	GROUT			ther	-	
	LENGT	"	DIAMET		EIGHT R SDR#	DIAME. DRILL I	TER OF HOLE	MATERI Ste	AL el⊠Th	hemo	oplastic (I	PVC)	BEN	NTONITE	LENG SEAL	TH OF	MATERIAL Slurry		_
RISER PIPE	28 ft.		2 in.	4	0	0.69	ft.	Ott		_	- praotio (i	. ,	SEA	NL	3 ft.		1	lar ∐Chips	
DETAIL	GLUED								TER PAC						PTH	F	ORMATION	DESCRIPTION	N
	☐ Ye		ł						one H			1 🔲 a	No	FROM 0	10.2	\dashv	1 G !!		
	⊠ No	GTH		_	h Zones				☐ Yes					10.2	25	0	lay and Sil ne Sand	τ	
PRIMARY FILTER		9111		DEFIN	O TOP OF	FRIMAR	TFILIER	PACK	SECONDAR	KY FILT	ER PACK L	ENGTH		25	35	l l		w/ Gravel	
PACK	12	.4 ft				20.6	ft.				1.3	ft.							
			onite SI	-				ntonite S	•	LEN	GTH								
ANNULAR SEAL		Non :	Slurry B	entonite	Type (_				1									
	1				_			ite Used		16.	2	ft.							
	LENG	TH	DIA	METER	DIAME	_	DEPTH TO	Bag 25	gal.	10.		11.		4					
WELL SCREEN					OF DR	ഥ 🍴	TOP OF SCREEN		Steel 2		FERIAL ermoplas	tic (P\	/C)	-					
JOREEN	10 ft		2"	ft.	8.25	n. :	22.7 ft.		Other_		_		,	İ					
Multiple C	ased V	Vells	☐ Ye	s 🗌 No				talled for	Remedia	ation	☐ Yes			TD:					i
Submit ad size of all	ddition casir	nal a ng, h	s built ole dia	diagrar meters	ns shov and gro	ing we	ell cons d.	truction	details	inclu	ding typ	e and		35ft					
STATIC WATE NA FEET F			Ma pod	///				L DRILLIN	G WAS CO	MPLET	ED			i					
SIGNATURE)-18 ERMIT NI	JMBER											
Me	//	<u> </u>	-/		-		2876M												
l hereby c the Depart	tment,	ØT Na	aturai F	nitoring Resourt	well he	rein de iremen	scribed ts for th	was co	nstructe	d in a	accordar	1CO Wi	th						
SIGNATURE	WELCO	RILLE	R)			PERMIT	NUMBER	DATE					-						
SIGNATURE (APPREI	THCE)	d/K			2836 PERMIT I	NUMBER	DATE	0-12	<u>-0</u>	<u> </u>			TOTA	. B=-				_
MO 780-1415	(DB-00)	DE	TIIDN C	OMBIES				Ī	FOTIO: -					TOTA				·	}
	(20-02)	ΛĒ	· UIVIT C		TO LOKI	n 10: W	CLLNC/	יט דאט [ECTION S	SECTION.	UN, PO. B	OX 250), RO	LLA, MO	65402 5	73-368	2165		



OFFICE USE ONLY REF NO.	DATE RECEIVED
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					TION R			ENTE	ÆD D⊪2		· Ph3		APF	ROVED BY		DATE		
INFOR OWNER N	MAT	ION :	SUPPL	.IED	BY PRIM	IARY (ONTR	ACTOR	OR DE	RILL	ING CO	NTRA	CTC)R		Par Carlo	<u> </u>	en en en en en en en en en en en en en e
Amere	MAIC											WELL				VA	RIANCE C	
OWNER A		S					CITY	,				36 STATE	- T	ZIP CODE			DNR	h a copy or
1901 C	houte	au A	ve.				St.	Louis			i	MO	- 1	63166		pro	vide numb	er of variance.
SITE NAMI	_	_							CONTAC		ME			00100			<u> </u>	
Labadie		ver P	lant		·				Paul I	Pike								
226 Lat	oadie	Pow	er Plar	ıt Rd	l., MC LE	BD-645	;		Labad	lie				1	ATE O	1	CODE 055	
PROPOSE	DUSE	OF WE	LL				TYPE		ITIAL SITE							(CHECK	ALL THAT A	PPLY)
☐ Gas I		-	/veii		Aonitoring Piezometer	c			s Materia Assessn		⊠ La							Products Only
		.,	٠		10201110101	3	,		el Drawd		□ L.U	J.S. I .		☐ Explo			Vietals	□ voc
AREA		UNTY ankli			ELEVATION				or Diame			ALLES	T		RGEST		-esticides/	Herbicides
LOCATION			ш		@465'		-					1 /4		% I	TX1/	1/		,
Lat. 38		_ • ;	34 <u> </u>	_, .	0		Se	ection 17		Tow	 nship4	-^ - 4 No	orth	^			2 ⊠ Eo	st 🔲 West
Long. 90		-	49			TH OF	<u> </u>							·		rango	_2	
TYPE OF SURFACE	•		Above (Grour		ECTIVE C	ASING	DIAMETE PROTECT	R OF TIVE CASIN	1G	DIAMETER THE HOLE	PROTE	CTIVE	OF PRO	TECTIVE NG	⊠ 9	Steel	LOCKING CAP?
COMPLET			Flush M	lount	_				4 .		CASING W		CED	MATI	ERIAL		Numinum	⊠ Yes □ No
WEEP HOL	E? \	/ENTE	CAP?		GTH OF FLU	SH DIA	METER OF	FLUSH	(4 in.	ER AN	ND DEPTH O	ft.					Plastic	
⊠ Yes	- 1	X Ye		MOL	JNT	MC	UNT		HOLE F	LUSH	MOUNT WA	SPLAC	ED	SURFAC		⊠ Co	oncrete	
□ No		□ No				ft.		ft.		in.			ft.	GROUT			her	<u> </u>
.	LENG	TH	DIAMET	ER	WEIGHT OR SDR#	DIAME DRILL	TER OF HOLE	MATERIA					PEI	NTONITE	LENG SEAL	TH OF	MATERIAL	
RISER	28 ft		2 in.		40	0.60					oplastic (F	PVC)	SEA		ĺ		Slurry	
PIPE DETAIL	GLUE		2 111.			0.69			er		_		-		3 ft.	T =		ılar □Chips
	□Y	es		× ×	Saturated 2	Zone	-				ed 🕅 Yes		\io	FROM	PTH TO	F(DRMATION	DESCRIPTION
	⊠ N	0			3oth Zones				☐ Yes			· [10	0	10	Cla	ay and Sil	t
PRIMARY	LE	NGTH		DEP	гн то тор о							ENGTH		10 32	32 35	_ I	e Sand	
FILTER PACK	١.													32	33	Me	dium Sar	nd
		3.3 f				22.0	ft.		 -	1 154	2.0	ft.						
ANNULAR			onite SI	•			nent/Ben		-	LER	NGTH							
SEAL	"	NON	Siurry B	sento	nite Type											}		
]						f Bentoni			17	0	a		1				
	LENG	TH T	I DIAI	METER	R DIAMI		er Used/I		gal.	17	.0	ft.		1 1		İ		
WELL			"""		OF DE	RILL	TOP OF SCREEN		Steel 5		TERIAL nermoplas	tlo (D)	/C\			İ		
SCREEN	10	i	2"	ff	8.25	ľ	25.0 ft.	l	Other	<u> </u>	юппоріаз	uc (F	<i>,</i> C,	}		İ		
Multiple Ca			☐ Ye							ation	_ ☐ Yes		-					
Submit a	dditio	nal a	s built	diag	rams sho	wing w	ell consi	ruction	details	incl	Idipa typ	a and		TD: 35ft				
SIZE OF all	cası	ng, n	ole dia	mete	ers and gr	out use	ed.					o ario	•			}		
NA FEET F			RINGPOIL	AT .	,		DATE WELL 9-18	L DRILLING	G WAS CO	MPLE:	TED					ł		
SIGNATURE						_	PERMIT NU	MBER					-	[1		
May		w	1				2876M											
hereby c	minalii	ואו זסען	aturai r	nitori Resou	ng well he yrces rea:	rein de iremen	scribed ts for th	Was cor	nstructe	d in	accordan	ce wi	th			1		
SIGNATURE	NEW)	DRILLE	R)	$\sqrt{}$		PERMIT	NUMBER	DATE				M4112						
SIGNATURE (APPRE	NTICE	511	12e		2836	NUMBER	DATE	10-1	2-	09							
		0						DATE						TOTAL	_ DEP	TH:	_	
AO 780-1415	(06-09)	RE	TURN C	OMPI	ETED FOR	M TO: V	VELT LEA	DODOT	CTION		<u> </u>							



OFFICE USE ONLY REF NO.	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

			RTIFIC						Ph1	rii.	D Ph2		Ph9				D	DATE	ROUTE	
INFOR	ΙΑΊ	TION S	SUPPL	JED I	BY	PRIM#	RYC	ONTR/	ACTO	RC	OR DRI	LLI	ING CON	NTRA	CTO)R	<u> Arregoran</u>	Marin Cons		
Ameren					-		_	_	_	_		_		WELL	NUMBI	ER	<u> </u>		RIANCE G	RANTED
OWNER AD		.ss						CITY	<u> </u>			_		38 STATE		ZIP CODE		$\neg \neg$	'DNR Yes. Attac	h a copy or
1901 CI		teau A	.ve.		_	-		St.	Louis					МО		63166		pro	vide numb	er of variance.
SITE NAME					_						CONTACT Paul Pil									
Labadie			lant		—						CITY CITY	.Kc				ST/	ATE	1 7 <u>IP</u> /	CODE	
226 Lab)adi	e Pow	er Plan	ıt <u>Rd</u>	l., <u>M</u>	IC LBI)-64 <u>5</u>			1	Labadie	ie				М	Ю.	630	055	
PROPOSEC	D USE	E OF WE	ELL						OF POTE	ENTIA	IAL SITE				\exists	MONITORIN	NG FOR:	(CHECK	ALL THAT AP	
☐ Gas N		_		□ M ⊠ Pi		toring meters		1			Material Assessme		⊠ La □ ા	andfill U.S.T.		☐ Radior☐ Explos				Products Only
											l Drawdo		_	J.Q. 1 ,					Metals Pesticides/I	☐ VOC Herbicides
AREA		OUNTY Tanklii			ELEV @4	VATION						<u></u>		ALLES1	Ē,		RGEST		Goudina	Terprotect
LOCATION	,							-						1/4		% N	1W	14		
Lat. 38		° _	33 <u> </u>		_52			Sc	ection 1	17_	т	Fow	vnship4						_2 🛛 Ea	st 🔲 West
Long. 90			49		31	LENGTH	H OF		DIAMET			-	DIAMETER			25 BBO*	TECTIVE			
TYPE OF SURFACE		⊠	Above G	Grour	nd		CTIVE CA	SING			VE CASING	.	THE HOLE CASING W	E PROTE	CTIVE	CASIN	NG	XI S	Steel	LOCKING CAP?
COMPLET		· 🗆 '	Flush M	lount	.	5	ft.		ı,	1-1	4 in.	1	12 in.		ساد	MATE	RIAL		Aluminum Plastic	□ No
WEEP HOLI	E?		D CAP?			OF FLUSH	H DIAN	METER OI		Н	DIAMETE	ER AN	ND DEPTH	OF THE		SURFACE		Т		
⊠ Yes		⊠ Ye		MOU	JNi		MOL	JNT			HOLE PLU	USH	I MOUNT WA	AS PLAC	,ED	COMPLE		1	oncrete	
□ No		□No		<u></u>		ft				ft.		in.			ft.	GROUT		<u> </u>	ther	
	LEN	NGTH	DIAMET	ER		IGHT SDR#	DIAMET DRILL H		MATER		_		noplastic (BEI	NTONITE	LENG1 SEAL	TH OF	MATERIAL	
RISER	27	/#	2 in.	1	40	,]	0.69 f	ď.	1		or		iopiasuc _i	PVC	SEA		3 ft.		⊠Siurry □Granu	/
PIPE DETAIL		UED	2 11.		<u> </u>	<u></u>					ER PACK				Щ.	T DE	PTH			DESCRIPTION
}		Yes	J	X:	Satu	rated Z							ited 🛛 Ye	es 🔲	No	FROM	ТО		311111111111111111111111111111111111111	DLGG, III
	×	No	J			Zones					☐ Yes [•-	0	15			Silt,Clay and
PRIMARY	, T	LENGTH		DEP*	тнтс) TOP OF	PRIMAR'	Y FILTER	PACK	SE	CONDARY	Y FIL	LTER PACK I	LENGTH	-	15	30	· 1	ne Sand ne Sand	
FILTER PACK		12.1	_	ĺ			21 6	•		1		-	2			30	35			ım and Coarse
		13.1 f			—		21.5	ft.				LE	2 NGTH	ft.		4 /	1 .	Sar		III this Comment
ANNULAR	.		ntonite Sl	•				nent/Ber			· 1		No			1 /	1			
SEAL	'	_ Non	n Slurry B	Jento	nite							ı				1 1	l			
						_		f Benton		_		16	6.3	ft.		1	1			
	+	ENGTH	l DI/	AMETER	-R	DIAMET	TER I	DEPTH TO		5 ga	<u>al. </u>					. 	1			
WELL	-			IVino	^ /	OF DRI	ILL.	TOP OF SCREEN			Steel 2		ATERIAL hermopla:	stic (P	VC)	-	i			
SCREEN	$ _{1'}$	0 ft.	2"	ff.	,	8.251	ı	24.3 ft.	، ا		Other	_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	٠-,		i			
Multiple C					 1 No							atio	n ☐ Yes			1	j			I
Submit a	addil	itional a	as built	t diag	gram	ns show	ving we	ell cons		_						TD:	į			ĺ
size of al	II ca	asing, h	nole dia	ametr	ers a	and gro	out use	ed.								35ft	ı			
NA FEET			URING PO	INDY				DATE WEI 9-22	LL DRILL	JNG 1	WAS COM	/PLE	:TED]	í			
SIGNATURE							F	PERMIT N				—				1	,			
11/1	<u> 14</u>	1/1/2	in	<u> </u>				2876M]				
I hereby of the Depar	rtme	entof N	Natural I	initor Resç	ring v	well he es requ	rein de iremen	scribed	d was c	cons	structed	d in of m	accorda	nce w	ith	1				ĺ
SIGNATURE		Z. DRILL	LER)	1			PERMIT	NUMBER		TE	. /	ı		<u> </u>	<u>*-</u>	1				
SIGNATURE		PRENTICE		<u>L</u>			2836	NUMBER	R DATI	TE O	0/12/	<u>/0</u>	<u> </u>			1				<u> </u>
	· - ·		- ,													TOTAL	_ DEI	PTH:		



OFFICE USE REF NO	ONLY	NTE RECEIVED		46.
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STATE WELL NUMBER		YENUE NO.		
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			49_		LENGT	H OF	<u> </u>	DIAMETE	R OF	DIAMETER	AND DE	םדט כ	E DEO	TECTIVE			1 10010110 0100
TYPE OF SURFACE			Above (Ground	PROTE	CTIVE CA	ASING		IVE CASI	NG THE HOLE CASING W	PROTEC	TIVE	CASI	NG	-	Steel	LOCKING CAP?
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i	Ν⊠				h Zones		Yes, Hy						ľ	13	Inte		Clay, Silt, VF
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Lat. 38		 °	33	'5	51 <u>'</u> ?7) 	s	Section 1	7	Tow	nship	-				_	_2 🖾 Ea	st 🔲 West
Long. 90		 '	49_	, 2		TH OF		DIAMET	FR OF		DIAMETER	AND D	Ерти (OF BRO	FECTIVE		·	1.00//110.0150
TYPE OF SURFACE	=	⋈	Above (Ground			E CASING	PROTEC	TIVE CASIN	IG	THE HOLE	PROTE	CTIVE	CASI	NG		Steel	LOCKING CAP?
COMPLET			Flush M	lount	5	4			4 !				CED	MATE	ERIAL		Aluminum	□ No
WEEP HOL	E?	VENTE	D CAP?		TH OF FLU	SH	DIAMETER (ER AI	ND DEPTH	2 ft. OF THE					Plastic	<u> </u>
Yes		⊠ Ye	es	MOUN	NT	Ì	MOUNT		HOLE F	LUSH	I MOUNT W	AS PLAC	ED	SURFAC COMPLE		⊠ C	oncrete	
□ No			0			ft.	-	ft.	ŀ	in.			ft.	GROUT			ther	_
	LEI	NGTH	DIAMET	ER	WEIGHT OR SDR#		METER OF	MATER							LENGT SEAL	TH OF	MATERIAL	
RISER						1			eel 🖾 TI	herm	roplastic ((PVC)	SEA	ITONITE L			⊠Slurry	
PIPE		ft	2 in.		40	0.0	59 ft.		her						3 ft.		☐Granı	ular □Chips
DETAIL		UED							LTER PAC						PTH	F	ORMATION	DESCRIPTION
		Yes		⊠s	aturated	Zone	Uns:	aturated	Zone H	ydra	ted 🛛 Ye	es 🔲 I	No	FROM 0	1'5			
	\boxtimes	No		□в	oth Zone	S	If Yes, I	Hydrated	☐ Yes		10			15	25	1	ay and Si	
PRIMARY	7	LENGTH		DEPTI	н то тор с	F PRIM	ARY FILTE	R PACK	SECONDAR	RY FIL	TER PACK	LENGTH	Î	25	35		ry Fine S ne Sand	ana
FILTER PACK		10.0					. .									FII	ie Sand	
	+	13.3				21.				TIE	1.9	ft.		4				
ANNULAR	.		ntonite S	-			ement/Be		•									
SEAL	`	∐ Nor	Slurry E	Benton	ite Type		ags of Ce	ement Us	ed					j				
						□ %	6 of Bento	nite Use	d	1.				i		1		
						Øν	Vater Use		gal.	16	5.6	ft.			·			
WELL	ш	ENGTH	DIA	METER		ETER RILL	DEPTH TOP OF	·		MA	TERIAL]				
SCREEN					HOLI		SCREEN			X T	hermopla	stic (P	VC)					
		0 ft.	2"		8.2	5 in.	24.5 f	ŧ. [Other_		_					}		•
Multiple C				es 🗌					or Remedi					TD:				
Submit a size of a	ll ca	asing,	as built hole dia	diagr mete	ams sho rs and g	wing rout	well cor used.	structio	n details	incl	luding ty	pe and	d	35ft				
STATIC WAT NA FEET			HOIME D	2/1				ELL DRILLI	NG WAS CO	MPLE	TED							
SIGNATURE							9-18 PERMIT	NUMBER						4				
	An	//c-	Juis				2876N									1		
I hereby o	ceri	ify tha	t the mo	nitori	ng well h	erein	describe	d was c	onstructe	ed in	accorda	ince w	ith] .]				
signature	OWE	ZZ DRIL	LER)	Nesyl	11 CAR LAC		MIT NUMBE			or m	ONITOFIN	g wells	S.					
	4	ur	un	ks		283			10- 1	2-	σ 9							
SIGNATURE	YAP	PRENTI	Æ)				MIT NUMBE	R DATE						TOTA	L DEF	TH:		
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OFFICE USE ONLY	DATE RECEIVED
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	REVENUE NO.
ENTERED BY	APPROVED BY DATE ROUTE

						ECORE		ENTER Ph1	Ph2	Ph3			PROVED BY	1.5	DATE	ROUTE	
INFOR	MAT	ION S	SUPPL	IED B	Y PRIN	IARY C	ONTR/	ACTOR	OR DR	RILLING CO	ONTRA	CTO	OR	Partie States		A Secretary	
Ameren	NAME			-	_	_						. NUMB		<u>~~.</u>	VARI BY D		GRANTED
OWNER A	DDRES						CITY				STATE		ZIP CODE		$\neg \Box \lor$	Yes. Attac	ch a copy or
1901 C		eau A	.ve.				St.	. Louis	CONTAC	CT NAME	МО		63166		provi	de numo	ber of variance.
Labadie	e Pow	wer P	la <u>nt</u>		·				Paul P								
SITE ADDR	RESS			· D4	34011				CITY					ATE	ZIP CO		
PROPOSEI	ED USE	OF WE	ELL	<u>ıt Ka.,</u>	, MC LE	iD-045	TYPE	OF POTEN				.	MONITORIN		6305 (CHECK AL	55 ALL THAT AF	ODI VI
Gas N		_			onitoring		☐ Ha	lazardous	s Material	al 🛛 L	Landfill	J	☐ Radio	onuclide	es 🗌 Pe	etroleum l	Products Only
Extrac	ction ·	Well		⊠ Pie	ezometer	S			Assessm /el Drawdo	_	L.U.S.T.	J	☐ Explos		⊠ Me		□ VOC
AREA 1		OUNTY			ELEVATION		1	ater Lov.	31 Diaws		SMALLEST	,T	SVOC	CS ARGEST		esticiaes/	/Herbicides
1 LOCATION		ranklii ELL	<u>n</u>		<u>@</u> 465'		-				14		% N				
Lat. 38		_ 。	33 ° 49	', _50	i0	, -	Sr	ection 17	/	 Township _						2 ⊠ E <i>ε</i>	ast 🔲 West
Long. 90				' 19	LENG	" TH OF	<u> </u>	DIAMETER	R OF	DIAMETE	TER AND DE	ЕРТН (OF PROT	TECTIVE			LOCKING CAP?
TYPE OF SURFACE	E		Above G			TECTIVE CA	SING		TIVE CASING	NG THE HOI	DLE PROTEC 3 WAS PLAC	ECTIVE	E CASIN		⊠ 20	iteel Iuminum	M Voc
COMPLET			Flush M	_	5	ft.		47	x4_ in.	12 in.	2 ft.			,F10	☐ Pla		□ No
WEEP HOLI		VENTER Yes	D CAP?	LENGT MOUN	TH OF FLUS	JSH DIAN MOU	METER OF	F FLUSH	DIAMET	TER AND DEPTH	TH OF THE	∩ED	SURFACI		⊠ Con		
⊠ Yes □ No		□ No		1		ft.		ft.			/ W		COMPLE GROUT	TION	1	her	
	LENG		DIAMET		WEIGHT	DIAMET	TER OF	MATERIA	IAL	in.		ft.		LENGT	THOF	MATERIAL	
RISER	1	!			OR SDR#	DRILL H				hermoplastic	c (PVC)	BEN	NTONITE	SEAL		⊠Slurry	y
PIPE	28 f		2 in.	<u></u>	40	0.69 f		Oth						3 ft.			nular
DETAIL	GLUE		}	N S					LTER PAC	CK Iydrated ⊠ \			DEF FROM	PTH TO		RMATION	N DESCRIPTION
	⊠ N		1	· —	aturated a Joth Zones				Zone Hy □ Yes [ſes ∟.	No	0	7.2	Clay	y and Sil	
PRIMARY	1 15	ENGTH		LT.		OF PRIMARY				RY FILTER PACI	K LENGT		$\begin{array}{c c} 7.2 \\ 22 \end{array}$	22 35	Very	ry Fine S	Sand
FILTER PACK		~ 4	ļ	1									22	33	Coa	arse Sand	đ
1 194.		13.1 f	<u>_</u>			21.8	ft.	- 4- 6		1.4	4 ft.		4 '	1			
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								nite Used d/Bag 25 ç		17.4	ft.			1			
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WELL SCREEN					OF DI HOLE		TOP OF SCREEN			MATERIAL Thermopi		VC)	1 1	ł .			
	10		2"		8.25		24.6 ft.		Other _		-		1	1			
Multiple C				es 🗆 N					r Remedia			_	TD:	l			
Submit a size of all	il cas	sing, h	as bunt nole dia	diagra meter	ms sno rs and g	rout use	ed.			including t	ype and	t	35ft	I			
NA FEET F	FROM	MEASU					DATE WEL 9-18	A. DRILLIN	NG WAS COM	MPLETED].	i .			
SIGNATURE						P	PERMIT NO						1	i			
I hereby c	<u>4</u> certif	y that	the mo	 onitorir	ng well h	nerein des	scribed	d was co	nstructe	ed in accord	dance w	-ith	1	ı			
the Depar	rtmen	nt of N	Natural F	Resour	rces reg	juirement	nts for th	the const	truction c	of monitorin	ng wells	5.		i			
12		4 []	The Su	m	1/2	2836				12-19		_		ı			
SIGNATURE	(APPR	ENTICE	.j~	0		PERMIT	NUMBER	DATE					TOTAL	L DEF	TH:		



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OWNER A							CITY				STATE		ZIP CODE	·		Yes. Attacl	h a copy or
1901 C		au A	ve.				St. I	Louis	T 22		MO		63166		pro	vide numbe	er of variance.
Labadie	-	er Pi	lant						Paul P								
SITE ADDR						****			CITY				STA	ATE	ZIP	CODE	······································
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AREA		INTY			ELEVATION		1 410	ICI LOV	ei Diawai		ALLES		SVOC	RGEST		Pesticides/	Herdicides
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TYPE OF		Ø.	Above C	3round		TH OF ECTIVE (DIAMETE PROTECT	R OF IVE CASIN	DIAMETEI G THE HOLE				TECTIVE	⊠:	Steel	LOCKING CAP?
SURFACE		_	Flush M							CASING V			MATE			Aluminum	⊠ Yes
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□ No] No											GROUT	TION			
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ľ	LLING	'''	DIVINE		OR SDR#		TER OF HOLE	MATERIA		nemoplastic	(0)(0)	BEN	TONITE	LENGT SEAL	TH OF	MATERIAL	
RISER	28 ft.		2 in.		40	0.60	_	Oth		iennopiastic	(PVC)	SEA		2 44		Slurry	
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	□ Ye	es		⊠ S	aturated :	Zone				vdrated ⊠ Y			FROM	ТО	 [ORMATION	DESCRIPTION
	⊠ N	D	i		oth Zone:		lf Yes, Hy				es 🗀 i	VO	0	15	Int	erbedded	Clay, Silt, VI
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PRIMARY FILTER				52, 11			VI I ILILIV F	~~ °	BECONDAR	T FILTER PACK	LENGIH		15	27	Fir	ne Sand	
PACK	13	3.7 f	t.			21.3	ft.			1.8	ft.		27	35	Co	arse Sand	
-	×	Bent	onite SI	urry			nent/Bent	onite Si	umv	LENGTH			1				
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STATIC WAT	ER LEV	EL	00			T	DATE WELL	DRILLIN	G WAS COM	MPLETED			3311				
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SIGNATURE		ryco L	NTRACTO	PR)			PERMIT NU 2876M	MBER	-]				
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1901 C	hou	teau A	Ave.					St. L	ouis				МО		63166				er of variance.
SITE NAMI	E									CONTAC					05100		1		· · · · · · · · · · · · · · · · · · ·
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					LENG				DIAMETE			DIAMETER	R AND D	EPTH	OF PRO	TECTIVE			LOCKING CAP?
TYPE OF SURFACE			Above (Ground	PROT	ECTI	VE CASING	3 F	PROTEC	TIVE CASIN	IG	THE HOLE	PROTE	CTIVE	CASI	NG	XI S	Steel	⊠ Yes
COMPLET	TION		Flush M	fount	_									OLU	MAIL	RIAL		Numinum	□ No
WEEP HOL	.E?	VENTE	D CAP?	LENGTH	OF FLU		t. DIAMETE	R OF	FLUSH	K4 in.	ER A	12 IN. ND DEPTH			, 		<u> </u>	Plastic	
⊠ Yes		⊠ Ye	98	MOUNT		-	MOUNT		LOON	HOLE F	LUSH	HOUNT W	AS PLAC	ED	SURFAC		⊠ Co	oncrete	
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			1		R SDR#		RILL HOLE				hem	noplastic ((DVC)	BE	NTONITE	LENG' SEAL	TH OF	MATERIAL	
RISER	28	f t	2 in.	4	0	1,	.69 ft.			ner		nopiastic (,FVC)	SEA	AL	3 ft.		Slurry	□Pellets dar □Chips
PIPE DETAIL		JED	2			<u> </u>		OND		TER PAC					T 55	PTH			
		Yes		⊠ Sat	urated '	70ns						ited 🛛 Ye			FROM	TO		JRMATION	DESCRIPTION
		No	-	☐ Bot									es 📙	No	0	10	Int	erhedded	Clay, Silt, VF
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Submit a						win									4				
size of al	l ca	sina. I	nole dia	meters	and a	rout	used.	UHSU	ruction	i details	Inc	luaing ty	pe and	3	TD.				
STATIC WAT	ER L	EVEL			<u></u> 3.			WELL	DRILLIN	IG WAS CO	MPLI	ETED			TD: 35ft				
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Amerer					<u></u> -						53				BY	RIANCE GI DNR	
OWNER A							CITY				STATE	- 1	ZIP CODE				n a copy or er of variance.
1901 C		teau A	ive.				St.	. Louis	CONTAC	CT NAME	MO		63166		prov	/IGE HUITIDE	er or variance.
Labadie	e Po		lant						Paul P								
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AREA	Тс	OUNTY			ELEVATION		<u> </u>	Vater Lev	vel Drawd				SVOC			esticides/h	lerbicides
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TYPE OF			Above C	Ground		TH OF ECTIVE CA	ASING	DIAMETE PROTEC	ER OF CTIVE CASIN		E PROTE	CTIVE	CASI		□s		LOCKING CAP?
SURFACE COMPLET		-	Flush M		-	_	}			CASING W		CED	MATE		_	Numinum	│ ⊠ Yes │ □ No
WEEP HOL	E?	VENTE	D CAP?	LENG	TH OF FLUS		METER C	OF FLUSH		12 in. TER AND DEPTH	OF THE					Plastic	
⊠ Yes	_	⊠ Ye	· .	MOUN			UNT	Art Sec.		LUSH MOUNT W	/AS PLAC)ED	SURFAC	ETION	⊠ Co	oncrete	
□ No		□ No	د	Í _		ft.		ft.		in.		ft.	GROUT		☐ Ot	her	_
	LEN	NGTH	DIAMET		WEIGHT OR SDR#	DIAMET DRILL I	TER OF HOLE	MATER			7	Γ'		LENGT	'H OF	MATERIAL	
RISER	20	-	 		40			i i		hermoplastic ((PVC)	BEN SEA	NTONITE NL			Slurry	
PIPE DETAIL	28 GLU		4 in.		+0	0.85			OtherARY FILTER PACK					3 ft.		<u> </u>	llar Chips
DE 171-		Yes	ļ	⊠s	of irated					tydrated ⊠ Ye	/ [] ·		FROM	PTH TO)RMATION	DESCRIPTION
	⊠				oth Zones				Zone Hy I∐Yes		es 👝 .	No	0	6	Cla	ay & Silt	
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PACK		13.8			<u></u>	21.2	ft.			1.2	ft.]				
			tonite SI					entonite S	-	LENGTH			32	35	Coa	arse Sand	w/ Gravel
ANNULAR SEAL	. L	☐ Non	Slurry B	Jentoni	ite Type												
								nite Used		170	æ		1				
	<u> </u>	**************************************	1 714	·				d/Bag 25	gal.	17.0	ft.		<u> </u>				
WELL	h-E	NGTH	ייוט	METER	OF DE	RILL :	DEPTH TOP OF SCREEN	<u> </u>	☐ Steel [MATERIAL Thermopla	40 /D	1/01]				
SCREEN	10	١	1,,,	54				1 _	_i Steel [☐ Other _	A Hiemopia	isuc (i-	VC)					
Multiple C	_) ft. d Wells	<u> 4"</u> s □ Ye	ft. es ⊠ N	10.3 No		24.7 ft.	<u>. </u>		liation	-		4				
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size of all	II cas	sing, h	nole dia	meter	rs and gr	rout use	зп ос ∍d <u>.</u>	5u uo	// Ubtano	Including cy	pe and	a _	TD: 35ft				
STATIC WAT NA FEET F			കെ	·MT			DATE WE 10-16		ING WAS CO	MPLETED							
SICHERA						F	PERMIT N	NUMBER									
Mel		1m	<u>t-</u>	-		2	2876M	1									
I hereby c	ertif	y that	the mor	nitorin	ig well h	erein de	scriber	d was co	onstructe	ed in accorda of monitoring	ance w	ith	l				
SIGNATURE	MF.	L DRILL	ER)	Marie Land	(CBS 104-	PERMIT	NUMBER	R DATE		or monitoring	g weirs	3.					
1/7/	L	M	ek	<u>~</u>		2836			10-26	-09							
SIĞNATURE	AFF;	REPORT ICE	-)			PERMIT	NUMBER	R DATE	•				TOTAL	L DEP	TH:		



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STATE WELL N	JMBER	REVE	UE NO.		elega (e. j.)
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INFOR	MATI	ON S	SUPPL	IED BY	PRIM	ARY C	ONTRA	CTOR	OR DRI	LLING CO	NTRA	CTO)R						
OWNER N											WELL	NUMB	BER			RIANCE GI	RANTED		
OWNER A		s			-		CITY				55 STATE		ZIP CODE			ONR Yes. Attach	a copy or		
1901 C		au A	ve.				St. I	ouis		·	мо	- 1	63166		prov	ide numbe	er of variance.		
SITE NAME		er D	lant						Paul Pi										
SITE ADDR		/CI I	am						CITY		 "		ST	STATE ZIP CODE					
226 Lat	oadie	Pow	er Plan	t Rd., I	MC LB	D-645			Labadie	е				MO 63055					
PROPOSEI				□ Mon	Jan-Jan-		TYPE OF POTENTIAL SITE Hazardous Material Landfill									CHECK ALL THAT APPLY)			
☐ Extra		-		☐ Mon ☑ Piez	_	•	1		s matenai Assessme		andfill						Products Only		
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AREA 1		unty ankli			EVATION						ALLEST	<u> </u>		RGEST	<u></u>	031101003/1	ICIDIOIGES		
LOCATION			<u></u> .		465'		4				1/4		% N	JW	1/4				
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Long. 90			48	47	LENG		<u> </u>	DIAMETE	R OF	DIAMETE	R AND DE	РТН	OF PRO	FECTIVE		·	LOCKING CAP?		
TYPE OF SURFACE	•	×.	Above (Ground		ECTIVE C			TIVE CASING	THE HOLE	PROTE	CTIVE	CASI		⊠s		☑ Yes		
COMPLET	TION		Flush M	lount	5	ft.		4.	κ4 in.	12 in .			MATE	ERIAL		luminum lastic	□ No		
WEEP HOL			CAP?	LENGTH MOUNT	OF FLUS	H DIA	METER OF		DIAMETE	R AND DEPTH	OF THE		SURFAC	_					
⊠ Yes	1 -	⊠ Ye		MOONI		MO	UNT		HOLE FLU	JSH MOUNT W	AS PLAC	ED	COMPLE		_	ncrete			
□ No		□ No				ft.		ft.		in.		ft.	GROUT		☐ Otl	ner	-		
	LENG	TH	DIAMET		EIGHT R SDR#	DIAME DRILL	TER OF HOLE	MATERI				BE	NTONITE	LENGT SEAL	H OF	MATERIAL	-		
RISER	28 ft	. '	2 in.	4	0	0.69	_	☐ Oth		ermoplastic ((PVC)	SEA		3 ft.		Slurry	☐Pellets lar ☐Chips		
PIPE DETAIL	GLUE					1 0.03			TER PACK	<u>-</u>			I DE	PTH			DESCRIPTION		
1	□Y	es		⊠ Sat	urated 2	Zone [drated 🛛 Ye	es \square 1	Mo.	FROM	TO		A CONTRACTOR OF THE PARTY OF TH	<u>DESCRIPTION</u>		
	⊠ N	0		_	h Zones				☐ Yes ☐		Д.		0	7	Cla	y & Silt			
PRIMARY	LEI	NGTH		DEPTH 1	O TOP O	F PRIMAR	Y FILTER F	ACK S	SECONDARY	FILTER PACK	LENGTH		$\frac{1}{7}$	30		~ .			
FILTER PACK													1	30	Fin	e Sand			
TAOR		3.3 f				21.5	ft.			1.8	ft.		30	35	Me	dium San	ıd .		
ANNULAR			onite SI	•			ent/Bent			LENGTH			ļ				-		
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	1		T =				er Used/E		gal.	16.7	ft.								
WELL	LENG	iΗ	DIA	METER	OF DE	NLL	DEPTH TO	- 1	Ctool 57	MATERIAL Thermopla		·6\	<u> </u>						
SCREEN	10.	ta .	2"		HOLE		SCREEN	1 _	Other	у глеппоріа	SUC (P	/C)							
Multiple C	10 f		2"	nt. s □ No	8.25		24.5 ft.						4]						
	_									tion Yes			-{ i						
size of al	l casi	ng, h	ole dia	meters	and gr	out use	d.		details ii	ncluding ty	pe and	1	TD:						
STATIC WAT NA FEET F) NT			DATE WELL 10-16	. DRILLIN	G WAS COM	PLETED			35ft				,		
SIGNE				DR)			ERMIT NU	MBER					1						
MA	11	/Ŵ	V/~				2876M												
I hereby certify that the monitoring well herein describe the Department of Natural Resources requirements for									ed was constructed in accordance with										
SIGNATURE ASSECT DRILLER) PERMIT NUMBER									DATE										
	(ADDDD		k			2836		10*26-09											
SIGNATURE	APPRE	TVICE	,		ļ	PERMIT	NUMBER	DATE		di.			TOTA	L DEF	PTH:				
MO 780-1415	(00.00)	DE	THEN	OMBI ET	TO FOR	11.70. 1				CTION DO			L						



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INFOR OWNER N	MATIO	N SL	JPPL	IED BY	PRIM	ARY C	ONTR	ACTOR	OR DR	ILLING CO						Section 1		
Ameren	-										WELL	NUMB	ER			RIANCE GI	RANTED	
OWNER A							CITY				57 STATE		ZIP CODE	•		DNR Yes. Attacl	a copy or	
1901 C		ı Av	e				St.	Louis			МО		63166				er of variance.	
Labadie	-	Pla	nt .			-			Paul P									
SITE ADDF							·		CITY				ST	ATE	ZIP C	CODE	······································	
226 Lat	padie P	ower	Plan	t Rd., N	IC LB	D-645	TVDE	Labadie TYPE OF POTENTIAL SITE						O	63055			
☐ Gas I				☐ Moni	toring		I		mat sne s Material	⊠ t:	andfill					CHECK ALL THAT APPLY) Detroleum Products Only		
☐ Extra	ction We	H		⊠ Piezo	meter	3	☐ Ini	itial Site	Assessm		U.S.T.		☐ Explo			/letals	□ VOC	
AREA	COUN	τν		Lere	VATION			ater Lev	el Drawdo				☐ svoc	cs	□Р	Pesticides/F		
1	Fran				465'					SN	MALLEST	Γ	LA	RGEST			· · · · · · · · · · · · · · · · · · ·	
LOCATION	OF WELL			<u></u>			7						% N					
Lat. 38_ Long. 90		° 33	48	' _51_ ' 39_	 ,		Se	ection 17	⁷	Township	44 No	rth		1	Range	_2 🛭 Eas	t 🔲 West	
TYPE OF	1			3round	I LENG	H OF CTIVE C	ASING	DIAMETE	R OF	DIAMETE THE HOLI				TECTIVE	□s	Steel	LOCKING CAP?	
SURFACE	:		ush M						THE ONOM	CASING V	VAS PLAC	ED		NG ERIAL		luminum	⊠ Yes	
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□ No	1	No				ft.		ft.		-			GROUT	:TION	□ Ot	her		
	LENGTH	T	DIAMET		IGHT	DIAME	TER OF	MATER		in.		ft.	<u></u>	LENG		MATERIAL	<u> </u>	
					SDR#	DRILL	HOLE	☐ Ste	el 🛭 Th	ermoplastic	(PVC)	BEN SEA	ITONITE	SEAL		⊠Slurry	Pellets	
RISER PIPE	28 ft.	4	in.	40) 	0.85		☐ Oth		<u> </u>		OL,	\	3 ft.		☐Granu	lar □Chips	
DETAIL	GLUED		ŀ	··					TER PACI				DE FROM	PTH	FC	DRMATION	DESCRIPTION	
	☐ Yes ☒ No									rdrated ⊠ Y	es 🔲 N	VO.	0	7 TO	Cla	ıy & Silt		
	LENG	TU.		Both					☐ Yes [Cla	iy & Siii		
PRIMARY FILTER	LENG	10	ł	DEFINIC	J (UP O	PRIMAR	TFILTER	PACK :	SECONDARY	Y FILTER PACK	LENGTH		7	16	Fin	e Sand		
PACK	13.4	4 ft.				21.4	ft.			2.0	ft.		1					
	⊠B	entor	nite Sli	urry		☐ Cen	nent/Ben	tonite S	lurry	LENGTH			16	21	Con	arse Sand		
ANNULAR SEAL	□N	on SI	urry B	entonite	Туре	☐ Bag	s of Cerr	nent Use	ed						Coa	arse sand		
OLAL						□ % of	f Bentoni	ite Used					21	35	Gra	velly San	ıd	
						⊠ Wat	er Used/	Bag 25	gal.	16.4	ft.		ł,			•		
	LENGT	ï	DIA	METER	DIAME OF DE	TER	DEPTH TO		<u>. </u>	MATERIAL			†					
WELL SCREEN					HOLE		SCREEN	- 1		Thermopla	stic (P\	/C)]		ŀ			
	10 ft.		4"	ft.	10.3	in.	24.5 ft.		Other _				J j		ł			
Multiple C				s 🛭 No						ation 🗌 Ye		-]					
Submit a	dditiona I casing	ıl as . hol	built (e dia:	diagram meters :	is shov and ar	ving w out use	ell cons ed.	truction	details i	ncluding ty	pe and		TD:					
STATIC WAT	ER LEVEL		7	1			DATE WEL	L DRILLIN	G WAS COM	MPLETED			35ft				i	
NA FEET F							10-16 PERMIT NU	luoso.							1			
		In	1				2876M	NBEK							ļ			
I hereby c	ertify th	at the	e mor	nitoring	well he	rein de	scribed	was co	nstructed	in accorda	ance wi	th					į	
SIGNATURE	WELL DR	LLER)	uial N	Josource	s requ	PERMIT	ts for th	DATE	ruction o	f monitoring	g wells.	_						
									D> 26.0	7								
SIGNATURE	APPREN	ICĒ)	-			PERMIT	NUMBER	DATE					TOTAL	L DEF	TH:			
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		CER	RTIFIC	CATIO	N RE	CORE)	ENTER Ph1	ED Ph2	Ph3		APP	ROVED BY	D,	ATE :	ROUTE			
		ION S	UPPL	ED BY	PRIM	ARY CO	ONTRA			LLING CO	ONTRA	CTC	R	e for					
OWNER N	AME						•				WELL	NUMB	ER		VAF	RIANCE G			
Ameren OWNER AL		00					CITY			 <u>-</u> -	59					DNR	h a		
1901 CI			170					· ouio			STATE	1	ZIP CODE				h a copy or er of variance.		
SITE NAME		eau A	.VC.				J St. 1	Louis	CONTAC	T NAME	MO	Щ.	63166						
Labadie	Po	wer Pl	ant						Paul P										
SITE ADDR									CITY			-	STA	TE	ZIP C	ODE			
226 Lat	adi	e Pow	er Plan	t Rd., 1	MC LB	D-645	T		Labadi	ie			M		63055				
PROPOSED Gas N				□ Man	ltadaa		l	-	TIAL SITE	5	ي في الم				•	CHECK ALL THAT APPLY)			
☐ Extrac		-		☐ Mon ☐ Piez	-				s Material Assessm		Landfili L.U.S.T.					'etroleum i /letals	Products Only		
		11011		24 1 102	ometers	•	i		el Drawdo		2.0.3.1.		☐ Explos			netais Pesticides/l	_		
AREA		YTNUC		ELI	EVATION	-		101 201	<u>or Brawa</u>		MALLES	T		RGEST		BSUCIDES/1	Telbicides		
1 LOCATION	- 1	rankli	n	@	465'		1				4.4			TX 7					
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TYPE OF		1521	A b		LENGT	H OF		DIAMETE	R OF		ER AND D			ECTIVE	⊠ s	Steel	LOCKING CAP?		
SURFACE	•		Above (""	-01112-07		1110120	TIVE CAGII		WAS PLA		E CASII			Numinum	⊠ Yes		
COMPLET	HON		Flush M	lount	5	ft.		4:	x4 in.	12 in.	2 ft.				□ P	Plastic	□ No		
WEEP HOL	E?	VENTE		LENGTH MOUNT	OF FLUS		METER OF		DIAMETI	ER AND DEPT			SURFAC	E	M €	ncrete			
⊠ Yes		⊠ Ye		NOON		MO	JINI		note Ft	LINDOM HED.	WAS PLAC	JED	COMPLE						
□ No		□ No)			ft.		ft.		in.		ft.	GROUT	ĺ	☐ Ot	her	_		
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DICED						J DAGEE!	, John J			nermoplasti	C (PVC)	SE	NTONITE AL			⊠Slurry			
RISER PIPE	28		2 in.	4	0	0.69	69 ft.							3 ft.		Granu	ılar		
DETAIL	GLU						SECONDARY FILTER PACK						FROM	PTH	FC	DRMATION	DESCRIPTION		
		Yes		i					-	ydrated 🛛	Yes 🗌	No	0	15	- T	11_1	0:14-01		
	×	No			h Zones				☐ Yes				ľ	1.5		erbeaded 1e Sand	Silt,Clay and		
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FILTER PACK										_	_		25	35			m and Coarse		
		13.1			·	22.2	ft.			1.:	5 ft.		_			nd, trace			
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ANNULAR SEAL	¹ [☐ Non	Slurry E	Bentonit	е Туре	☐ Bag	s of Cerr	ent Us	ed										
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	LE	NGTH	DIA	METER	DIAM		DEPTH TO	Ť	<u> </u>	MATERIAL			1 :		ŀ				
WELL SCREEN					OF DI HOLE		TOP OF SCREEN		Steel	∑ Thermop		VC)	1		İ				
	10) ft.	2"	ft.	8.25	in.	25 ft.	[[] Other _										
Multiple C			;	es 🗌 N	0			talled fo	r Remedi	ation 🔲 Y	'es		1						
Submit a	addi	tional	as built	diagra	ms sho	wing w	ell cons	tructio	n details	including	type an	d	TD:						
size of a	II ca	sing, I									71		35ft						
STATIC WAT NA FEET			22	"A				L DRILLII	NG WAS CO	MPLETED									
SIGNATURE							9-22 PERMIT N	IMRED					-						
			4//		-		PERMIT NUMBER 2876M												
I hereby	cert	fy that	the mo	onitoring	y well h	erein de	described was constructed in accordance with						1						
the Depa	rtme	en#of h	Vatural	Resour	ces req	uiremer	ents for the construction of monitoring wells.						_						
SIGNATURE	12		. 7	,		2836	IT NUMBER DATE 6												
SIGNATURE	(APF	<i>V V </i> Preny ic	ME)	<u>«</u>			NUMBER	DATE		- v.J			TOTA	חבי	TU.				
	_	<i>v</i>								<u>.</u>			LIVIA	L VSF	- 117.				



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NEVITE ED LEVE AUSSELLES VILLES	APPROVED BY DATE ROUTE
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SINFORMATION SUPPLIED BY-PRIMARY,GONTRACTOR OR DRILLING CONTRACTOR SINFE COMBRIANCE GRANTED BY DANK SINFE DANK S	INFOR	ZM/	ATION S	SUPPL	IED BY	PRIM	ARY C	ONTR	Phi ACTOR	Ph2 OR DRI	Ph2 ILLING CO	NTRA	लाल	R	1			
OWNERT ADDRESS CITY MO G3166 Control	OWNER	NAM	E				20.00		energy was a second	ere zert. Tanadag der						VA	RIANCE G	RANTED
St. Louis MO S3166 provide number of variance. MO S4160 provide number of variance. MO S4160				·														
Section 17 Township _44 Nor Range 2 East West Labratic Prover Plant Single Prover Plant Rd., MC LBD-645 Labradic Monitoring Gallow Material Labradic Monitoring Gallow Ga												ſ	- ;					
Labadic Power Plant Rd., MC LBD-645 Paul Pike STATE 2# CODE MO 63055			uteau A	ve.			 -	St.	Louis	CONTAC	TNAME	MO		63166				
Supplement Sup	Labadi	e P	ower P	lant														
FRODED USE OF WELL										СПҮ				S1	TATE	ZIP (CODE	
Gas Monitoring Well	226 La	bac	die Pow	er Plar	nt Rd., N	MC LB	D-645				ie					630)55	
Extraction Well	1				□ Mon	itorina		I			. 57.		İ					•
AREA COUNTY CASHON CAS			-	1011		_		1 —						1 -				
Section 17				-				l				0.5.1.	ļ	-				 .
Lend				-								MALLES					0011010001	1101010100
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SUMPLATION Flush Mount S fti 6 in.	TYPE OF	:	ISI.	Ahove (Ground			ASING									Steel	
VENTED CAP? LENGTH DIAMETER OF FLUSH MOUNT M														MAT	ERIAL		Numinum	
Yes No No No No No No No N										in.				PV	C	⊠ F	Plastic	∐ No
Completion Com		LE?	1		LENGTH MOUNT	OF FLUSI			F FLUSH				ED			⊠ c	oncrete	
LENGTH DIAMETER WEIGHT OR SDR DRILL HOLE Steel Thermoplastic (PVC) SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL 3 ft. Granular Chips SEAL				,	*													
RISER PIPE PRIME AND PRIMARY FILTER PACK DEPTH FORMATION DESCRIPTION Sand Very Fine, Fine & Medium & Coarse Gravel Very Fine & Coars		Tire			TED I W			TED OF			in.		ft.					
RISER PIPE DETAIL GLUED SECONDARY FILTER PACK DEPTH FORMATION DESCRIPTION Yes Saturated Zone Unsaturated Zone Hydrated Yes No Both Zones If Yes, Hydrated Yes No DEPTH FORMATION DESCRIPTION TO O 21 Clay, Silt, Fine & Very Fine Sand Very Fine Sand Very Fine, Fine & Medius Sand Yery Fine, Fine & Medius Sand Yery Fine, Fine & Medius Sand Yery Fine, Fine & Medius Sand Yery Fine, Fine, Medium & Coarse Sand; Fine & Coarse Gravel Yes Water Used Screen Steel Thermoplastic (PVC) To O O O O O O O O O		-	-NOIII	DIMINE						-	nermonlastic	(BVC)	BEN	TONITE		TH OF	1	_
Secondary Filter Pack		2	7 ft.	4 in	4	0 ,	0.85	#			ioiniopiasao	(, , ,	SEA	L	3 ft			
Yes		-					0.03				<u>–</u> К	i		I DE		F	<u> </u>	
PRIMARY FILTER PACK LENGTH DEPTH TO TOP OF PRIMARY FILTER PACK SECONDARY FILTER PACK LENGTH 21 30 30 35 Very Fine, Fine & Medium Sand 30 35 Very Fine, Fine & Medium Sand 30 35 Very Fine, Fine & Medium Sand 30 35 Very Fine, Fine & Medium Sand 30 35 Very Fine, Fine & Medium Sand 30 35 Very Fine, Fine & Medium & Coarse Sand; Fine & Coarse Gravel 30 30 35 Very Fine, Fine & Medium & Coarse Sand; Fine & Coarse Gravel 30 30 35 Very Fine, Fine & Medium & Coarse Sand; Fine & Coarse Gravel 30 35 Very Fine, Fine & Medium & Coarse Gravel 30 Very Fine, Fine & Medium & Coarse Gravel 30 Very Fine, Fine & Coarse] Yes		⊠ Sat	urated Z	one f										JIMMITION	DECORTION
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FILTER PACK 14.7 ft. 21.2 ft. 21.2 ft. 30 35 Sentonite Siurry	DDMAD	<u>, </u>	LENGTH						<u> </u>		_	LENGTH		┨",	20	- 1		
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ANNULAR SEAL Non Slurry Bentonite Type Bags of Cement Used	PACK		14.7 f	t.			21.2	ft.			1.2	ft.		30	35			Zina Madium
ANNULAR SEAL Non Slurry Bentonite Type Bags of Cement Used			☑ Bent	onite S	lurry		☐ Cen	nent/Ber	ntonite SI	lurry	LENGTH] "				
Water Used 17 ft. Water Used/Bag 25 gal. Water Used/Bag 25 g		R	☐ Non	Slurry E	Bentonite	Type [☐ Bag	s of Cen	nent Use	ed				l	İ			
WELL SCREEN LENGTH DIAMETER DIAMETER DEPTH TO TOP OF SCREEN SC	SEAL					[1				
WELL SCREEN DIAMETER DIAMETER DIAMETER DEPTH TO TOP OF SCREEN Steel Thermoplastic (PVC)											17	ft.		1				
WELL SCREEN HoLE SCREEN Steel Thermoplastic (PVC)		Τt	.ENGTH	DIA	METER	DIAME	TER T	DEPTH TO		94	MATERIAL	•		i				
Multiple Cased Wells Yes No Pump Installed for Remediation Yes Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used. STATIC WATER LEVEL		1.				HOLE	ш			Steel 2		astic (P\	/C)	i		ļ		
Multiple Cased Wells Yes No Pump Installed for Remediation Yes Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used. STATIC WATER LEVEL	OUNLEN	1	0 ft.	4"	ft.	10.3	in.	24.3 ft.		Other			·					
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used. STATIC WATER LEVEL FEET FROM ME ALURING POINT DATE WELL DRILLING WAS COMPLETED 10/26 SIGNATURE (FRIMARY CONTRACTOR) PERMIT NUMBER 2876M I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells. SIGNATURE (WELL DRILLER) PERMIT NUMBER 2836 DATE 11/20/09	Multiple (_							talled for	Remedia	ation	es .		TD.				
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SIGNATURE (APPRENTICE) PERMIT NUMBER DATE TOTAL DEPTH:									NUMBER DATE					TOTAL DEPTH.				
MO780-1415 (06-09) RETURN COMPLETED FORM TO: WELLHEAD PROTECTION SECTION, PO. BOX 250, ROLLA, MO 65402 573-368-2165	SIGNATURE	(AP	PRENTICE		<u> </u>			NUMBER		10070	<u> </u>			TOTA	DE) TH:	· · · · · · · · · · · · · · · · · · ·	



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the Depar	tme	nt/of N	latural i	Resou	rces rec	uiremen	ments for the construction of monitoring wells.]					
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I hereby certify that the monitoring well herein de							2876M						-						
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SIGNATURE OF ELL DRILLER) PERMIT N								ER DATE					1 !						
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Labadie		ower P)1 _{ant}						- 1	Paul											
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	×	No			oth Zone		If Yes, F						<i>3</i> 5 ∟.	No	0	16			Clay, Silt, VF		
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SITE NAME									1	TNAME									
Labadie SITE ADDR			lant		·				Paul P	ike			l ST	ATE	ZIP	CODE			
226 Lat	badi	e Pow	er Plar	nt Rd.,	MC LE	3D-64:	5 Labadie TYPE OF POTENTIAL SITE						М	0	630	63055 CHECK ALL THAT APPLY)			
☐ Gas I				☐ Mor	nitorina		1 —		Materia		IEH						,		
☐ Extra		_		⊠ Piez		·c	1		Assessm		andfill U.S.T.						Products Only		
					-01110101	,	I —		el Drawd		0.5.1.	-	Explo			Metals	□ voc		
AREA		OUNTY		EL	EVATION		1	ater Lev	ei Diawu		IALLES	-	SVOC	RGEST		esticides/	Herbicides		
1		rankli	n	<u> a</u>	465'		_]												
LOCATION							j						¼ N	√W	_ ¼				
Lat. 38_ Long. 90		ີ້.	33 <u> </u>	, _47 50		, ,	Se	ction 17		Township	44 No	orth			Range	_2 🛭 Eas	st 🗌 West		
TYPE OF		127	Above (Ground		TH OF	CASING	DIAMETE	R OF TIVE CASIN	DIAMETER G THE HOLE	R AND D	EPTH (OF PROT	FECTIVE	X 1.9	Steel	LOCKING CAP?		
SURFACE									0/10//	CASING W	AS PLA	CED		NG RIAL		Numinum	⊠ Yes		
OOMII EE		_	Flush M	iount	5	ft.		42	4 in.	12 in.	2 ft.					Plastic	□ No		
WEEP HOL	E?		D CAP?	LENGT	OF FLU	SH DI	AMETER OF	FLUSH	DIAMET	ER AND DEPTH	OF THE		SURFAC	E	<u> </u>		l		
⊠ Yes		⊠ Ye				""	00111		HOLE FI	LUSH MOUNT W	AS PLAC	ED	COMPLE		M C	oncrete			
□ No		□ No				ft.		ft.		in.		ft.	GROUT			her	_		
	LEN	NGTH	DIAMET		/EIGHT R SDR#		ETER OF HOLE	MATERIA						LENG	TH OF	MATERIAL			
DICED							-11000	☐ Ste	el 🛭 Ti	nermoplastic ((PVC)	BEN	ITONITE	SEAL		⊠Slurry	□Pellets		
RISER PIPE	28		2 in.	4	0	0.69	ft.	☐ Oth	er				-	3 ft.		☐Granu	lar Chips		
DETAIL		JED					SECONE	ARY FIL	TER PAC	K			DE	PTH	F	DRMATION	DESCRIPTION		
		Yes		⊠ Sat	urated .	Zone	☐ Unsaturated Zone Hydrated ☑ Yes ☐ No						FROM	ТО					
	\boxtimes	No			h Zone		If Yes, Hy				-		0	12	Cla	ay & Silt			
PRIMARY	,	ENGTH		DEPTH 1	ГО ТОР С	F PRIMA	RY FILTER	PACK S	ECONDAR	Y FILTER PACK	LENGTH		1,,	07					
FILTER													12	27	Fir	e Sand			
PACK		13.7 f	t.			21.3	ft.			1.0	ft.		27	35	_				
	[⊠ Bent	tonite SI	lurry		☐ Cei	ment/Ben	tonite SI	urry	LENGTH		_	1 ~′	<i>33</i> .	Co	arse Sand			
ANNULAR	1	□Non	Slurry E	Bentonite			gs of Cem		•				ł						
SEAL													1						
							of Bentoni			17.3	ft.								
	1.5	NOTIL	1 514	A APPERO	1 2	_	ter Used/		gal.	17.5]		.				
WELL	LE	NGTH	DIA	METER	OF D		DEPTH TO TOP OF			MATERIAL									
SCREEN					HOLE	•	SCREEN			Thermopla	stic (P	VC)	ŀ				•		
	10) ft.	2"	ft.	8.25	in.	24.7 ft.	_ □	Other _										
Multiple C	ase	d Wells	☐ Ye	s 🗌 No	<u> </u>	J	Pump Inst	alled for	Remedia	ation 🗌 Yes	;		1						
Submit a	ddit	ional a	ıs built	diagrar	ns sho	wing w	veli cons	truction	details	including typ	oe and	i							
size of all	l ca	sing, h	ole dia	meters	and g	rout us	ed.						TD:						
NA FEET F				/			DATE WEL	L DRILLIN	G WAS CO	MPLETED			35ft		ŀ				
SICHE							10-16 PERMIT NU	MOED											
11/1/2		1/1/2	7				2876M	MBEK											
l hereby c	erti	y that	the mo	nitorina	well h	erein d	escribed	wae co	netructo	d in accorda	noo	46							
tne vepar	τmg	nt of N	aturai i	Resourc	es req	uireme	nts for th	e const	ruction o	u in accorda of monitoring	nce W	. I			1				
SIGNATURE		DRILLE	R) 1			PERMIT	NUMBER	DATE		4		\neg							
Stemmen 2836									10-26-09						1				
NX	ZZ.	MU,	120										1		1				
SIGNATURE	(APP	RENTICE	120				NUMBER	DATE			•	\neg	TOTAL	. DEP	TH:		· · · · · · · · · · · · · · · · · · ·		



OFFICE USE ONLY REF NO.	DATE RECEIVED
	CHECK NO.
STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

		CEF	RTIFIC	CATIC)N RI	COR	D	ENTER Ph1	(2) 特别的意思		1 13		APPI	ROVED BY	ם	ATE	ROUTE	
INFOR	MATI	ON S	SUPPL	JED BY	PRIM	IARY C	ONTRA	CTOR	OR DR	ILLING	G COI							
OWNER N	-											WELL	NUMBI	ER			RIANCE GE	RANTED
OWNER A		s					CITY		-			71 STATE	1:	ZIP CODE		l	DNR Yes. Attach	a copy or
1901 C		au A	ve.				St.	Louis			ļ	МО		63166				er of variance.
SITE NAM							•		CONTAC									
Labadio		er P	lant			 -			Paul P	1Ke						T === 0		
226 La		Pow	er Plar	nt Rd I	MCL	3D-645			Labad	ie					ATE O	630		
PROPOSE	D USE (OF WE	LL	11 1101, 1		013		OF POTEN	TIAL SITE	10				,			ALL THAT API	PLY)
Gas I		_	/Veli	☐ Mor	_		1 —		s Material		🛛 La			☐ Radio	onuclide	s 🗌 P	etroleum F	Products Only
│ □ Extra	ction \	/Vell		⊠ Plez	comete	S	1		Assessm			J.S.T.		Explo		_	fetals	□ voc
AREA	COL	UNTY		EL	EVATION]	1 LJ W	ater Lev	el Drawd	own	SM	ALLEST		SVOC	CS ARGEST	□Р	esticides/F	lerbicides .
1		ankli	n		465'													
LOCATION									-					¼ l				
Lat. 38_ Long. 90		- ໍີ	33 <u> </u>	' _48 ' 43		, ,,	Se	ction 1	7	Towns	hip4	l4 No	rth		I	Range ₋	2 🛭 Eas	t 🔲 West
TYPE OF					LENG	TH OF		DIAMETE			AMETER				TECTIVE	⊠s	tool	LOCKING CAP?
SURFACE		-	Above (PRO	ECTIVE C	ASING	PROTEC	TIVE CASIN		IE HOLE ASING W				ING ERIAL		Juminum	⊠ Yes
COMPLE	TION	U	Flush M	lount	5	ft.		4:	x4 in.	12	in. ;	o fi					lastic	□ No
WEEP HOL			CAP?	LENGTH	OF FLU	SH DIA	METER OF	FLUSH	DIAMETI HOLE FL	ER AND	DEPTH ()F THE		SURFAC	E	M C0	ncrete	<u> </u>
⊠ Yes	1 -	⊠ Ye							HOLE FI	LUSH MC	JUNI WA	45 PLAC	בט	COMPLE				
□ No		☐ No				ft.		ft.		in.			ft.	GROUT		∐ Otł	her	
	LENG	TH	DIAMET		/EIGHT R SDR#		TER OF HOLE	MATER					RFN	ITONITE	LENG1 SEAL	'H OF	MATERIAL	
RISER	28 ft		2 :	4	0	1000			eel ⊠ Th	remop	lastic (PVC)	SEA				Slurry	-
PIPE DETAIL	GLUE		2 in.			0.69		Oth	TER PAC	<u></u>				55	3 ft.			lar Chips
J2// 112	□ Y			⊠ Sat	urated	Zone			Zone Hy				1-	FROM	PTH TO	FO	RMATION	DESCRIPTION
	⊠ N				h Zone				_One ⊓		I KA YE	s 📙 r	40	0	17	Inte	erbedded	Clay, Silt, VF
	1 15	NGTH							SECONDAR		DACK I	ENCTU		l		San		
PRIMARY FILTER							** / 12 (2**)		OLOGINDAIN		V FACINE	.ENG I II		17	35	Fin	e Sand	
PACK	13	3.2 f	t.			21.7	ft.				1.6	ft.						
	×	Bent	onite SI	urry		☐ Cer	nent/Ben	tonite S	lurry	LENG	тн			1				
ANNULAR SEAL		Non	Slurry E	Bentonite	е Туре	☐ Bag	s of Cen	ent Use	ed					1				
JEAL							f Bentoni							ļ	ı			
							er Used/			17.1		ft.		ļ				
	LENG	TH	DIA	METER		ETER	DEPTH TO		gai.	MATE	DIAL			1				
WELL SCREEN	}				HOL		TOP OF SCREEN	[Steel [stic (P\	/C)	i				
00112211	10 f	t.	2"	ft.	8.2	5 in.	24.6 ft.		Other _			-	·	l				
Multiple C								talled fo	r Remedi	ation	□Yes			1		1		
Submit a	dditio	nal a	s built	diagrar	ns sho								1	1				
size of al	I casi	ng, h	ole dia	meters	and g	rout us	ed.							TD:				
STATIC WAT NA FEET I		_		NT			DATE WEL 10-22	L DRILLIN	IG WAS CO	MPLETE	D			35ft				
SIGNOSTORIE		,,,	, ,,,				PERMIT NU	JMBER						i i				
	1		1~				2876M											
I hereby o	ertify	that	the mo	nitoring	well h	erein de	scribed	d was constructed in accordance with the construction of monitoring wells.							·			
signatures	yment WELL I	Of N	atural F	Kesour	es req		nts for th	e cons		of mon	itoring	wells	•					
Y/G/)	un	ne	h			2836	LI\		10-21	-09								
SIGNATURE	APPRE	NTICE		• • • • • • • • • • • • • • • • • • • •			NUMBER	DATE						TOTA	L DEF	TH:		
MO 780-1415	(06-00)	DE	TUDNO	ONDIE	ED EO	PM TO: 1	NELL INC.	D DDG	ECTION S	FOTIO								



OFFICE USE O	ONLY P	ATE RECEIVED		
CR NO.		HECK NO		To the second se
STATE WELL NUMBER	R	EVENUE NO		
ENTERED Db2	A)	PPROVED BY	ATE ROUTE	

			RTIFIC	CATIC		_	RD	ENTER	ED:			APP	ROVED BY	D	ATE .	ROUTE	
INFOR	MA	TION	SUPPL	(FD B)	/ PRIN	IARY	CONTR	Phi	Ph2	Ph3 ILLING CO	MTDA	CTO	.			10,741	1.00
OWNER N	AME			الح (حداد	1 . 711.	IV-U X I		<u> </u>	ONDN	ILLING CO	WELL					RIANCE GI	PANTED
Amere	n						,				73					DNR	MILED
OWNER A							CIT	Υ			STATE		ZIP CODE				n a copy or
1901 C		teau A	lve.				St.	Louis	Ţ		MO		63166		prov	/ide numbe	er of variance.
SITE NAMI		wer P	lant						Paul P					· -			
SITE ADDR	RESS								CITY				ST	ATE	ZIPC	CODE	
226 Lat	bad:	e Pov	er Plan	t Rd., 1	MC LI	3D-6		OF POTEN	Labad	ie		 r	MONITORII	-	630)55 ALL THAT AP	DIV
☐ Gas I	Mon	itoring	Well	☐ Mor	itoring		l		Materia	ı ⊠ı	andfill						Products Only
☐ Extra	ctio	n Weil		Piez	-	s	1 —		Assessm		U.S.T.		☐ Explo			/letals	□ voc
							v	/ater Lev	el Drawd				SVOC			esticides/F	-
AREA		rankl			EVATION 465'	1				SI	ALLES'	Γ	ĹĀ	RGEST			
LOCATION					705						¼ _		% N	w	_ 1⁄4		
Lat. 38		° ,	33	'43		"	s	ection 17		Township	44 No	orth			– Range	_2 🛭 Eas	st 🗌 West
Long. 90			49	35		TH OF		DIAMETE	R OF	DIAMETE	R AND D	EDTH :	OF PRO	TECTIVE			LOCKING CAP?
TYPE OF SURFACE			Above (Ground	PROT	ECTIVI	E CASING		IVE CASIN	G THE HOL	E PROTE	CTIVE	CASI	NG		Steel	✓ Yes
COMPLET		🗆	Flush M	lount	۔ ا			_			_	UEU	MATE	ERIAL		Numinum	□ No
WEEP HOL	E?	VENTE	D CAP?	LENGT	5 FOF FLU		DIAMETER C		in.	14 ÎN. ER AND DEPTH	2 ft. OF THE			 1	<u> </u>	Plastic	
Yes		⊠ Y€	s	MOUNT			MOUNT		HOLE FI	LUSH MOUNT W	AS PLAC	ED	SURFAC		⊠ Co	oncrete	·
□ No)			ft.		ft.	Ĭ	in.		ft.	GROUT		☐ Ot	her	_
-	LEI	NGTH	DIAMET		EIGHT	DIA	METER OF	MATERI	AL			11.		LENGT	TH OF	MATERIAL	
			•	ľ°	R SDR#	DRI	ILL HOLE	☐ Ste	ei 🖾 Th	nermoplastic	(PVC)	BEN SEA	NTONITE	SEAL		⊠Slurry	□Pellets
RISER PIPE	28	ft.	4 in.	4	0	0.8	35 ft.	Oth	er			36	\L	3 ft.		Granu	ılar
DETAIL	GLI	JED						DARY FIL	TER PAC	К			DE	PTH	FC	RMATION	DESCRIPTION
		Yes		⊠ Sat	urated.	Zone	Unsa	turated Z	one H	ydrated 🖾 Y	es 🔲	Vo	FROM	ТО	4		
	\boxtimes	No			h Zone				☐ Yes i				0 6.5	6.5	1	y/Silt/VF	F Sand
PRIMARY	П	ENGTH		DEPTH	O TOP C	FPRIN	ARY FILTER	PACK S	ECONDAR	Y FILTER PACK	LENGTH		31	35		-F Sand	•
FILTER													"		Co	arse Sand	l .
PACK	_	13.0	ft.		_	21.0	0 ft.			1.7	ft.		J				
	1	🛛 Ben	tonite SI	urry			ement/Be	ntonite S	urry	LENGTH			1				
ANNULAR	1	☐ Non	Slurry E	3entonite	Туре	□в	ags of Cer	nent Use	d						1		
OLAL						□ %	of Bentor	nite Used					1				
							/ater Used			16.3	ft.				-		i
	LE	NGTH	DIA	METER		ETER	DEPTH T		94	MATERIAL			1				
WELL SCREEN					OF D HOLE		TOP OF SCREEN		Steel 2	Thermopia	astic (P	VC)	1		1		
JONELIN	10) ft.	4"	ft.	10.3	in.	23.7 ft.		Other_	<u> </u>							
Multiple C				s 🛭 No						ation ☐ Ye	s		TD:				٠.
	_					wina				including ty		1	35ft		1		
size of al	l ca	sing, h	ole dia	melers	and g	rout u	sed.		GOGGIO		po and	•					
STATIC WAT NI FEET FE			מל	///			1	LL DRILLIN	G WAS CO	MPLETED					1		
SIGNATURE							11/13 PERMIT N	IIIARER									
	, ,,	1.71	راستع	2"			2876M						i i				
l hereby 6	erti	fy that	the mo	nitoring	well h	erein	described	was co	nstructe	d in accorda	ance w	ith	1				
the Depar	tme	nt of N	iatural F	Resourc	es req	uirem	ents for t	he const	ruction o	of monitorin	g wells		Į ł				
SIGNATURE		K UKILLI	=r() =				MIT NUMBER		*** -						1		
SIGNATURE	APP	RENTICE	12/	20		283 PERA	6 AIT NUMBER	DATE	-50-0	<u>'</u> ラ			TOTA		<u> </u>		
		V											TOTAL	LUEF	'IH:		



OFFICE USE ONLY REF NO.	DATE RECEIVED
C.R. NO.	CHECK NO.
STATE WELL NUMBER	REVENUE NO.
ENTERED Dog Dog	APPROVED BY DATE ROUTE

					ON RE			ENTEI Ph1	Ph2	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ph3			ROVED BY	C 100 100 100 100 100 100 100 100 100 10	ATE	ROUTE	
INFOR	MAT	ΓΙΟΝ S	SUPPL	IED B	Y PRIM	ARY C	ONTR/	ACTOR	OR DR	ILLI	NG CO	NTRA	CTC)R				
Amerer	_											WELL	NUME	BER			RIANCE G	RANTED
OWNER A		SS					CITY	,				75 STATE	- 1	ZIP CODE			DNR Yes. Attac	h a copy or
1901 C		teau A	ve.				St.	Louis				МО		63166				er of variance.
SITE NAME				-					CONTAC		E							
Labadie	PO RESS	wer P	lant						Paul P	ike	<u>.</u>					1 =.=		
226 Lat	badi	e Pow	er Plan	ıt Rd	MC LB	D-645			Labad	lie					TATE 1O	- 1	CODE 055	
PROPOSE	D USE	OF WE	LL			2 0.0	TYPE	OF POTEN	ITIAL SITE								ALL THAT AP	PLY)
☐ Gas I		_		☐ Moi	•		1		s Materia		🛛 La		Ì	☐ Radi	onuclide	s 🔲	Petroleum I	Products Only
☐ Extra	CUON	well		⊠ Pie	zometer	3			Assessm		□ L.I	U.S.T.	i	☐ Expl			Metals	□ voc
AREA	C	OUNTŸ		Ei	EVATION		 _ v	ater Lev	el Drawd	own	SM	ALLES		SVO	CS ARGEST		Pesticides/l	lerbicides .
1		rankli	n	@	0465'								-					
LOCATION			00					. 14		_				1/4				
Lat. 38 Long. 90		`.	33 <u> </u>	', _ 4 4	8 3.8	<u></u> ,	Se	ection 1	7	Town	iship <u> </u>	14 No	rth			Range	_2 🛭 Eas	st 🔲 West
TYPE OF		IXI	Above (Ground		TH OF ECTIVE C	ASING	DIAMETE	R OF TIVE CASIN		DIAMETER THE HOLE				TECTIVE	Ø :	Steel	LOCKING CAP?
SURFACE		-	Flush M								CASING W				ERIAL		Aluminum	⊠ Yes
WEEP HOL	<u> </u>		D CAP?		5				k4 in.		12 in .						Plastic	□No
WEEP HOL	-	VENTE		MOUNT	H OF FLUS		METER OF UNT	- FLUSH	HOLE F	ER AN LUSH N	D DEPTH (OF THE AS PLAC	ED	SURFA		⊠c	oncrete	
□ No	ł	□ No				ft.								GROUT			ther	
<u> </u>	LEN	IGTH	DIAMET	ER V	VEIGHT		TER OF	ft.		in.			ft.	<u></u>	LENC	TH OF	MATERIAL	<u> </u>
					OR SDR#	DRILL	HOLE		el⊠Th	hermo	plastic (PVC)		NTONITE	SEAL	IA OF	Slurry	□Pellets
RISER PIPE	28	ft.	2 in.	4	10	0.69	ft.	l.	тег				SEA	AL _.	3 ft.		1 -	lar
DETAIL	GLL	IED					SECON	DARY FI	LTER PAC	K				DE	PTH	F		DESCRIPTION
		Yes		⊠ Sa	turated 2	Zone [☐ Unsat	turated 2	Zone H	ydrate	ed 🛛 Ye	s 🔲 I	Vo	FROM 0		\dashv		
	\boxtimes	No		□Во	th Zones	i ji	f Yes, H	ydrated	☐ Yes)			1	9			nd, Clay and
PRIMARY	. 1	ENGTH.		DEPTH	TO TOP O	FPRIMAR	Y FILTER	PACK	SECONDAR	RY FILT	ER PACK	LENGTH		و 🕇	30	Sil	it ne Sand ar	od Clav
FILTER PACK		12.2	.			01.5	_							25	35			m and Coarse
		13.3 1		1.		21.5	ft.			LEN	1.3	ft.		4			nd	in und Course
ANNULAR	. -	_	tonite SI	-			ent/Ben		-		J			1				
SEAL	, լ	_ Non	Slurry E	Bentonii	е Туре		s of Cerr											
•						□ % of	Benton	ite Used		17.	2	£		} .				
	<u> </u>				-1		er Used/		gal.	17.		ft.		_				
WELL	"	NGTH	DIA	METER	OF DI	RILL	DEPTH TO TOP OF		1041		ERIAL	43 (33)	101			-		
SCREEN	١.,	· -		_	HOLE	ſ	SCREEN			ZI IN	ermopla	SUC (P	VC)	ı	}			
Multiple C	_) ft.	2"	<u>ft.</u> es⊠N	8.25		24.5 ft.		Other_									
Submit a									r Remedi					┨	ļ			
size of al	ll ca	sing, h	ole dia	meter	s and g	out use	ed.	ucuoi	i details	inciu	aing typ	oe and	1	TD:]			
STATIC WAT NA FEET I			DINE POI	INT /			DATE WEL 9-28	L DRILLIN	IG WAS CO	MPLET	ED			35ft				
SIGNATURE		///	,,,	//			PERMIT N	JMBER		·	···			4	İ	1		
	1	11/0	اك				2876M							ł	l			
I hereby of the Depar	erti:	fy that	the mo	nitorin	g well h	erein de	scribed	was co	nstructe	d in a	accorda	nce w	ith		·			
SIGNATURE	Kye)	Z DRILLI	ER)	.cspul	००७ । हर्न		NUMBER	DATE	uction (or mo	onitoring	wells	i	1				
d) K	11	in	211	v_		2836			10-	12-	09							
SIGNATURE	(APP	RENTICE	E) -			PERMIT	NUMBER	DATE					-	TOTA	L DEF	PTH:		
MO 780-1415			TUDNIC	OMBI E	TED FOR	MTO. N		<u>. L</u>	ECTION								_	i



OFFICE USE ONLY REF,NO.	DATE RECEIVED
C:R:NO	CHECK NO.
STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

					3 WEL ION RE		5D	ENTER	ED	erio de la		APP	ROVED BY	D	ATE	ROUTE	1000
MICODI	44-							Ph1	- Ph2	Ph3							
OWNERN	MA AME	IJON :	SUPPL	IED E	3Y PRIM	ARY	CONTRA	ACTOR	OR DRI	LLING	CONTRA						
Ameren											77	NUMB	EK			RIANCE G DNR	RANTED
OWNER AD		SS			·		CITY	7			STATE	:	ZIP CODE		1		h a copy or
1901 CI		teau A	ve.				St.	Louis			МО	- 1	63166		prov	vide numb	er of variance.
SITE NAME	-	_							CONTACT Paul P								
Labadie		wer P	lant						CITY	ike	· · · · · · · · · · · · · · · · · · ·		l or	ATE	1 710 /	2005	
226 Lab	oadi	e Pow	er Plan	t Rd.	. MC LE	3D-64	5		Labadi	e			M		630	CODE	
PROPOSED	o USI	OF WE	LL	V 1.00.	, 1,10 131	<u></u>		OF POTEN							CHECK	ALL THAT AF	PLY)
Gas N		-	Well		onitoring				Material	_	Landfill	ļ	☐ Radio	nuclide	s 🗆 F	Petroleum I	Products Only
☐ Extrac	ctior	ı Weli		⊠ Pi	ezometer	S			Assessm	_	L.U.S.T.		☐ Explos		×Ν	/letals	□ voc
AREA	Τc	OUNTY			ELEVATION		LUW	ater Leve	el Drawdo	own	CHALLEO		SVOC			esticides/	-lerbicides
1		rankli			@465'						SMALLES	!	LA	RGEST			
LOCATION							-				%		% N	1M	_1/4		
Lat. 38		ー°。	33 <u> </u>		14.6		Se	ection 17		Township	_44 No	orth		F	≀ange	_2 🛭 Ea:	st 🔲 West
Long. 90		<u> </u>	49		20.6 LENG	TH OF	 :	DIAMETE	ROF	DIAM	IETER AND D	EPTH (OF PROT	ECTIVE			LOCKING CAP?
TYPE OF SURFACE	•	⊠	Above (Groun			CASING		IVE CASING	3 THE	HOLE PROTE	CTIVE	CASII	NG	⊠s		⊠ Yes
COMPLET			Flush M	lount	_							CLD	MATE	HIAL	_	Muminum	□ No
WEEP HOLI	E?	VENTE	D CAP?	LENG	TH OF FLU		NAMETER O		4 in.	12 In	PTH OF THE		<u> </u>	Т		Plastic	
⊠ Yes	- 1	⊠ Y€	es	MOU	NT	M	TNUON		HOLE FL	USH MOU	NT WAS PLAC	ED	SURFAC COMPLE		⊠ Co	oncrete	
☐ No)			ft.		ft.		in.		ft.	GROUT		□ Ot	her	-
	LEI	(GTH	DIAMET	ER	WEIGHT	DIAN	METER OF	MATERIA	AL.				<u> </u>	LENGT		MATERIAL	
				- 1	OR SDR#	DRIL	L HOLE	☐ Ste	el 🖾 Th	ermoplas	stic (PVC)		ITONITE	SEAL		⊠Slurry	
RISER PIPE	28	ft.	2 in.		40	0.6	9 ft.						\L.	3 ft.		Granu	lar □Chips
DETAIL	GLI	JED			-		SECON	DARY FIL	TER PAC	К			DE	PTH	FC	ORMATION	DESCRIPTION
[Yes		⊠s	Saturated	Zone	☐ Unsa	turated Z	one Hy	drated 2	Yes 🔲	No	FROM	TO	4		
İ	\boxtimes	No			oth Zone	s	If Yes, H	lydrated	☐ Yes [☐ No			0	20			nd, Clay and
PRIMARY	.	ENGTH		DEPT	н то тор о	F PRIM	ARY FILTER	PACK S	ECONDAR	Y FILTER P	ACK LENGTH	1	20	35	Sil	-	m, Coarse
FILTER PACK	ļ] - `			nd and gra	
	_	13.4			·	21.6					1.7 ft.					ila ana gr	
	- 1		tonite Si	-			ement/Bei		•	LENGTH			1				
ANNULAR SEAL	· 1	☐ Non	Slurry E	3entor	nite Type	□Ва	ags of Cer	ment Use	d								
	-					□%	of Bentor	nite Used									
	ı					⊠w	ater Used	/Bag 25	gal.	16.9	ft.						
	LE	NGTH	DIA	METER	DIAN	IETER RILL	DEPTH T	0		MATERI	AL		1				
WELL SCREEN	ļ				HOL		SCREEN		Steel 2		oplastic (P	VC)	1				
	10) ft.	2"	ft.	8.2	5 in.	24.7 ft.	. 🗆	Other _						1.		
Multiple C	ase	d Well:	s □ Ye	s 🛛	No		Pump Ins	stalled for	Remedia	ation 🔲	Yes		1				
Submit a	ddi	tional	as built	diag	rams sho	wing	well cons	struction	details	includin	g type an	d]				
SIZE of al	l ca	ısing, I	hole dia	mete	ers and g	rout u	sed.						TD:				
NA FEET			IBWG PO				9-28	LL DRILLIN	G WAS COM	MPLETED			35ft		I		
SIGNATIVE							PERMIT N	UMBER									
Phili		[L][n		-		2876M										
I hereby c	ert	ify that	the mo	nitori	ing well t	erein	describe	ed was constructed in accordance with the construction of monitoring wells.				ith					ı
the Depar	rtrny	aŋt∕of I	Vatural I	Reso	urces rec	uirem	ents for t	he const	ruction o	of monito	oring well	ş	!				
	4	IM	1/	, ,		283		DAIE	10-1	2-09			ļ				
SIGNATURE	(API	RENTIC	E) IKA				IIT NUMBER	DATE	,, ,,	U 1)			TOTAL	DED	TH		
NO 700 4445		v			STED FO	<u> </u>									111.		



OFFICE USE ONLY REF NO.	DATE RECEIVED
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ENTERED.	APPROVED BY DATE ROUTE

		CEF	RTIFIC	CATI	ON RE	COR	D	2252600	70 G 20 G 20 G 20 G 20 G 20 G 20 G 20 G	0.00	Ph3	144 144	APP	ROVED BY	3 · · · C	ATE			
INFOR	MAT	ION S	SUPPL	IED B	Y PRIN	ARY (ONTRA	CTOF	OR DR	RILL	ING CO	NTRA							
OWNER N												WELL	NUME	BER			RIANCE GI	RANTED	
OWNER A		s					CITY					79 STATE		ZIP CODE			DNR Yes Attact	па сору ог	
1901 C	houte	eau A	ve.				- 1	Louis				MO	- 1	63166				er of variance.	
SITE NAME								20413	CONTAC	CT NA	ME	IVIO		03100		ш	·		
Labadie		ver P	ant						Paul P	Pike									
SITE ADDR		_					_		CITY					Si	ATE		CODE		
226 Lat	DUSE	POW	er Plan	t Rd.,	MC LE	3D-645	5 Labadie TYPE OF POTENTIAL SITE							IO		63055 CHECK ALL THAT APPLY)			
☐ Gas I			_	ПМо	nitoring		1		s Materia	ı	⊠ La	ndfill						PLY) Products Only	
☐ Extra		_			zometer	s			Assessm			U.S.T.		☐ Explo				VOC	
				_					el Drawd			J.J.,.		SVO		_	Pesticides/h		
AREA		UNTY	_		LEVATION							ALLES"	Γ		ARGEST			101010100	
1 LOCATION	_L	anklii	<u> </u>		@465'		4	•				1/		· ·	NTW7	1/			
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TYPE OF			Above (TH OF ECTIVE (DIAMETE	R OF TIVE CASIN		DIAMETER THE HOLE	R AND DI	EPTH	OF PRO	TECTIVE	⊠s	iteel	LOCKING CAP?	
SURFACE		I			1 /	LOTIVE	Ading	·	TIVE CASIN		CASING W	AS PLA	CED		ING ERIAL		Numinum	⊠ Yes	
COMPLE	ION	ישן	Flush M	lount	5	ft.		4	x4 in.	-	12 in .	2 ft.					Plastic	□ No	
WEEP HOL	- 1		CAP?	LENG	TH OF FLU	SH DI	AMETER OF	FLUSH	DIAMET	ER A	ND DEPTH	OF THE		SURFAC	:F	Ø Ca	oncrete	·	
⊠ Yes	- 1	⊠ Ye		10.001		1	2011		HOLE FI	LUSH	MOUNT WA	45 PLAC	ΕU	COMPLI	ETION				
□ No		□ No			•	ft.		ft.		in			ft.	GROUT		☐ Ot	her	-	
	LENG	TH	DIAMET		WEIGHT OR SDR#	DIAM	ETER OF HOLE	MATER					200	UTOWITE	LENG SEAL	TH OF	MATERIAL		
RISER		1									noplastic (PVC)	SE	NTONITE : Al			Slurry		
PIPE	28 f		2 in.		40	0.69			her						3 ft.		☐Granu	lar Chips	
DETAIL	GLUE								LTER PAC		·				PTH	FC	PRMATION	DESCRIPTION	
İ	□ Y							Unsaturated Zone Hydrated ☐ Yes ☐ No /es, Hydrated ☐ Yes ☐ No					FROM 0	30	┥,,	T: 0	1 021 0		
	N	lo			oth Zone		-							1	30	Cla	•	and, Silt &	
PRIMARY	LE	NGTH		DEPTH	TO TOP C	F PRIMA	RY FILTER I	PACK	SECONDAR	RY FIL	TER PACK I	LENGTH		30	35		•	ledium Sand,	
FILTER PACK	1.	•																& Fine Grav	
		3.4 f				21.6	_			1 1 5	1.35	ft.		_					
		Bent	onite SI	urry		☐ Cei	ment/Ben	tonite S	lurry	"	NGTH			1					
ANNULAR SEAL		Non	Slurry E	Bentoni	te Type	☐ Bag	s of Cem	ent Us	ed	}				İ		İ			
						□ % c	f Bentoni	te Used	1					1		ł			
	}				-	⊠ Wa	ter Used/l	Bag 25	gal.	17	7.25	ft.		1 .			*		
	LEN	STH	DIA	METER		ETER	DEPTH TO			MA	TERIAL			1					
WELL SCREEN					OF D		TOP OF SCREEN] Steel [X T	hermoplas	stic (P\	/C)	1		1			
	10	ft.	2"	ft.	8.25	in.	24.7 ft.	_	Other _		_				ł	1.			
Multiple C				s 🔯 N				alled fo	r Remedi	atio	n ☐ Yes			1					
Submit a										_			_	1		1			
size of all	casi	ng, h	ole dia	<i>m</i> eter	s and g	rout us	ed.	u aouoi	i dotalis	11101	ading typ	o and		TD:		1			
STATIC WAT			1/1			Ī		L DRILLIN	IG WAS COI	MPLE	TED			35ft					
			UTING P				10/28												
SIGNIFICATION			NTRACTA	OR)		1	PERMIT NU 2876M	JMBER						1 1					
I hereby c	Artife	that t	he mai	nitorin	n wall h	arein d		Wee e-	metro-4-	d !-			41-	- I					
the Depar	tmen	t of Na	atural F	Resour	ces require	uireme:	nts for th	e cons	instructe truction (ia in of m	accorda Ionitoring	nce Wi I wells	เท]				ı	
SIGNATURE	YEY	DRILLE	R) *			PERMIT	NUMBER	DATE					-	1					
SIGNATURE (14	m	uk	<u>~~</u>		2836			14/20/0	209		_				<u> </u>			
GIGITA I URE (rur r'rkt		,			PEKMI	NUMBER	DATE						TOTA	L DEP	TH:			
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	C	۲Ł۲	MIFIC	CATIC)N K	COR	(D	Phi	Ph2	Ph:	2.45		ROVED BY		DATE	HOUSE	
INFOR	MATIC)NS	UPPL	IED BY	PRIN	IARY (CONTRA	CTOR	OR DR	ILLING	CONTRA	CTC	R		100		
OWNER N	AME										WELL			. Anna Control	VA	RIANCE G	RANTED
Amere											81					DNR	
OWNER A							CITY				STATE	,	ZIP CODE			Yes. Attacl	h a copy or er of variance.
1901 C		u A	ve.				St.	Louis	CONTAC	T 11414F	<u> MO</u>		63166			VIGE HUITIDE	or of variance.
Labadie		- Di	ant						Paul P								
SITE ADDI		411	ant						CITY				l si	TATE	7IP (CODE	
226 Lal	badie F	ow	er Plan	nt Rd I	MC LI	3D-64	5		Labad	ie			1 -	10	630		
PROPOSE								OF POTEN	ITIAL SITE	10						ALL THAT AP	PLY)
☐ Gas I	Monitori	ing V	Vell	☐ Mor	itoring		. —		s Materia	_	☑ Landfili		☐ Radi	onuclide	es 🗆 F	Petroleum I	Products Only
Extra	ction W	ell		☑ Piez	cometer	S			Assessm] L.U.S.T.		☐ Explo	osives	⊠ I	Vetals	□ voc
	1 6000						_	ater Lev	el Drawd	own			☐ svo	<u>CS</u>		Pesticides/	Herbicides
AREA	Fra		1		EVATION 465'	l					SMALLES'	Т	L	ARGEST	•		
LOCATION				1.6	,105		-}				1/4		¼	NW	1/4		
Lat. 38_		٠ ;	33	43	N	n	Se	ction 1	7	Townshir	p44 No					2 🕅 Fas	st 🗌 West
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TYPE OF		M	Above (Smund		TH OF ECTIVE (ASING	DIAMETE	R OF TIVE CASIN		ETER AND DI			TECTIVE		Steel	LOCKING CAP?
SURFACE		_	Flush M								ING WAS PLA			ERIAL		Numinum	⊠ Yes
COMPLE	IION	יט	-iusn w	lount	5	ft.		6	in.	14 ir	n. 2 ft.		PV	'C	⊠F	Plastic	□ No
WEEP HOL			CAP?	LENGT	OF FLU	SH DI	AMETER OF	FLUSH	DIAMET		PTH OF THE	·	SURFA	CE	MC	oncrete	·
⊠ Yes		Ye		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		""	2011 1		HOLEF	LUSH MOU!	NT WAS PLAC	ED	COMPL	ETION			
□ No		No				ft.		ft.		in.		ft.	GROUT			ther	_
	LENGTI	H	DIAMET		EIGHT R SDR#		TER OF HOLE	MATER	AL						TH OF	MATERIAL	
		- 1		- 1		DIVIGE	HOLE	☐ Ste	ei 🛭 Ti	nermoplas	stic (PVC)	BE!	NTONITE	SEAL		⊠Slurry	□Pellets
RISER PIPE	27 ft.		4 in.	4	0.	0.85	ft.	☐ Ott	ner	_		-	•••	3 ft.		☐Granu	lar
DETAIL	GLUED		ı				SECON	DARY FI	TER PAC	K				PTH	FC	ORMATION	DESCRIPTION
	☐ Ye	S	1	☑ Sat	urated.	Zone	☐ Unsat	urated 2	Zone H	ydrated 2	⊠ Yes 🔲 i	No	FROM		4		
1	⊠ No		}	☐ Bot	h Zone	s	If Yes, Hy	/drated	☐ Yes	☐ No			0	14			Very Fine
PRIMARY	LENG	зтн		DEPTH 1	О ТОР С	F PRIMA	RY FILTER I	PACK	SECONDAR	Y FILTER P	ACK LENGTH		14	35	Saı		
FILTER			1										1 1 -	33	1	•	ine, Medium
PACK	13.	.55	ft.			21.25	ft.	ľ		. 1	1.25 ft.				000	Coarse Sa	ina
	⊠ E	3ent	onite Si	urry		☐ Cer	nent/Ben	tonite S	lurry	LENGTH			1				
ANNULAR		don :	Slurry B	Bentonite	Type		s of Cem			1			1	İ.			
SEAL					. , po		•						ł		1		
							f Bentoni			17	ft.				İ		
	1				T	_	er Used/		gal.		14.]	ĺ			
WELL	LENGT	Н	DIA	METER	OF D		DEPTH TO			MATERIA]	ŀ			
SCREEN	l				HOLE	:	SCREEN	-		★ Thermore	opiastic (P	VC)	ļ				•
	10 ft.		4"	ft.	10.3	3 in.	24.4 ft.		Other _					ļ			
Multiple C	ased W	ells	☐ Ye	s 🛛 No)	F	ump Insi	alled fo	r Remedi	ation 🔲	Yes		1				
Submit a	ddition	al a	s built	diagrar	ns sho	wing w	ell cons	truction	details	including	g type and	ł	1				
size of al	I casing	g, h	ole dia	meters	and g	rout us	ed.						TD:				
STATIC WAT				la		ĺ		L DRILLIN	G WAS CO	MPLETED		·	35ft				
SIGNATURE	T FROM		BOACH	77!) 121			10/28 PERMIT NU	WADED									İ
		, ,		/n) ^			2876M	MDER									ŀ
I hereby o	erlifv H	/		nitorina	well h			Wae oo	netructo	d in sec-	ordance w				1		
the Depar	tment c	of Na	atural F	Resourc	es req	uireme	nts for th	e consi	ruction	of monito	ordance wi oring wells				1		·
SIGNATURE	MYELL DF	RILLE	*/	•		PERMIT	NUMBER	DATE					ļ į				
SIGNATURE (APPRENTICE) 2836 IP/Ze/r) PERMIT NUMBER DATE															·		
SIGNATURE (ALLER	. ICE)				PERMIT	NUMBER	DATE					TOTA	L DEF	TH:		
								1									1



OFFICE USE ONLY	Nachring St. St. Conv. of St. St. St. St. St.
	The first of the second
REF NO.	
CR:NO. CHECK NO.	enterior in the construction of the constructi
STATE WELL NUMBER 10 REVENUE NO.	
ENTERED APPROVED BY	DATE ROUTE

				CATIO				Ph1	RED Ph?		DH2		API	ROVED B	Y .	DATE	664 1646		
INFOR OWNER N	MA.	TION :	SUPPL	IED BY	PRIM/	ARY C	ONTR	ACTOR	OR DF	RILL	ING CO	NTRA	CTO	OR 🐘			al de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		
Amere												WELL	NUM	BER			VARIANCE G	RANTED	
OWNER A		SS		·			CITY	,				83 STATE	ĒŢ	ZIP CODE	<u> </u>	ا ر	BY DNR ☑ Yes. Attacl	a copy or	
1901 C		teau A	ve.				St.	Louis				МО	- 1	63166		p	provide numbe	er of variance.	
Labadie	e Po	wer P	lant						Paul I								<u>.</u> -		
		e Pow	er Plar	nt Rd., N	AC I BI	7-645			CITY	1: _				- 1	STATE	_ _	IP CODE	-	
PROPOSE	D USE	OF WE	LL	11 114., 11	IC LD	J-0 4 J	Labadie TYPE OF POTENTIAL SITE							MO RING FOR	CHE	63055 CHECK ALL THAT APPLY)			
Gas I		_	/Vell	☐ Moni	-		☐ Hazardous Material								Petroleum Products Only				
☐ Extra	Ction	well		⊠ Piez	ometers				Assessn			U.S.T.		_ *	losives	_	Metals	□ voc	
AREA COUNTY ELEVATION									el Drawo	iown		ALLES		SV	OCS LARGES		Pesticides/h	lerbicides	
1 LOCATION		rankli Fu	n		465'		-												
Lat. 38			33	', _43N	,	į	Se	ction 17	7	Tou	nship4			¼	NW_	_	ge_2 ⊠ Eas	t 🗆 Wood	
Long. 90			33 <u> </u>	, 4W		·								_			ye_z 🔼 Eas		
TYPE OF SURFACE		Ø.	Above (Ground	PROTE	TOF CTIVE CA	SING	PROTEC	R OF TIVE CASIN	1G	DIAMETER THE HOLE	PROTE	CTIVE		OTECTIVE	E E	Steel	LOCKING CAP?	
COMPLET	Flush M	lount					CASING W		CED	M/	TERIAL		Aluminum	⊠ Yes □ No					
WEEP HOL	E?	VENTE	CAP?		OF FLUSH	ft.	METER OF	4z	K4 in.	TER A	12 in. ND DEPTH (Plastic		
☑ Yes		☑ Ye	S	MOUNT		MOL	INT				MOUNT W			SURF	ACE LETION	×	Concrete		
□ No		□ No			ft	.		ft.		in.	•		ft.	GROU	T		Other	_	
	LEN	GTH	DIAMET		IGHT SDR#	DIAMET DRILL H		MATERI						NTOWE		TH OF	MATERIAL		
RISER	28		2 :-	40						herm	oplastic (PVC)	SE	NTONITE AL	`		⊠Slurry	Pellets	
PIPE DETAIL	GLU		2 in.		<u>-</u> <u>-</u> <u>-</u> -	0.69 f		☐ Other						.	3 ft.			ar Chips	
		res -		⊠ Satu	rated Z			CONDARY FILTER PACK						FROM	EPTH TO		FORMATION I	DESCRIPTION	
ĺ	Ø I	No		☐ Both				Jinsaturated Zone Hydrated ☐ Yes ☐ No es, Hydrated ☐ Yes ☐ No						0	10		Clay, Silt, Fi	ne & Very	
PRIMARY	L	NGTH		DEPTH TO	TOP OF						TER PACK I	ENGTH		10	21	- 1	Fine Sand		
FILTER PACK	1.							}						21	35		Fine & Very	Fine Sand ine, Medium	
FAOR		3.3 f		 		21.5	ft.			1	1.5	ft.		_			& Coarse Sa		
ANNULAR	1		onite Si	-				tonite S	-	LE	NGIH								
SEAL] Non	Slurry B	Bentonite										ļ		İ			
								te Used		17	,	£		1					
	LEA	GTH	DIA	METER	DIAMET			Bag 25	gal.	17		ft.		1					
WELL				METER	OF DRII	L T	EPTH TO OP OF CREEN		Steel		TERIAL nermoplas	etio (D)	VC	4					
SCREEN	10	A	2"	4	8.25 ii		24.5 ft.	- 1 -	Other_	<u> </u>	Termopias	ים) טונ	vC)	I .					
Multiple Ca	_			s ⊠ No	0.231					otion	 ı ☐ Yes			-					
Submit additional as built diagrams showing well cor														TD:					
size of all casing, hole diameters and grout used.											ading typ	o and	4	35ft					
			UBING P	рикт			ATE WELI 1/10	. DRILLIN	G WAS CO	MPLE	TED			1					
SIGNATURE		'/ N	A 1	,			ERMIT NU	MBER		_				1					
1/1	<u>"</u>	1-p	w	<u> </u>			876M							1					
hereby &	mer	t of Na	aturai R	nitoring v Resource	s requi	<u>ement</u>	s for the	e const	nstructe ruction (d in of m	accorda: onitoring	nce wi	ith						
SIGNATURE	7.			/	í	ERMIT N	UMBER	DATE	120%										
SIGNATURE (APPR	ENPROE)	SA	<u></u>		836 ERMIT N	UMBER	DATE	م اس	<u> </u>				TOT	N DE	DTU:			
MO 780-1415 (06-09) RETURN COMPLETED FORM TO: WELLHEAD PROTE															AL DEI	•		·	
m. / / mu-1415 (UD-U9	. KE	IUKN C	UMPLEIE	U FURM	IO: W	ELLHEA	D PROT	ECTION 9	FOT	ION DO D	OV 25	0 PA	ILLA BAC	CE402 E	70 00			



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INFOR	MAT	ION S	SUPPL	IED B	Y PRIM	ARY C	ONTR/	ACTOR	OR DRI	LLING CO	NTRAC				****				
OWNER N											WELL N	UMB	ER			RIANCE GF	RANTED		
Amerer OWNER A		SS					CITY	,			85 STATE		ZIP CODE				a copy or		
1901 C	hout	eau A	ve.				St.	Louis			МО		63166				r of variance.		
SITE NAME	_								CONTACT										
Labadie		ver P	lant						Paul P	1ke									
		Pow	er Dlan	+ Dd	MC LB	Ď₋645			Labadi	io			STA MO		630				
PROPOSE	D USE	OF WE	LL LAD	ı. IXU.,	IVIC LL	D-043	TYPE	OF POTEN		ic	 -	Т				(CHECK ALL THAT APPLY)			
☐ Gas I	Monit	oring \	Veli	☐ Mo	nitoring		_		s Material		andfill	ı	☐ Radio	nuclide	s 🗆 P	etroleum F	Products Only		
Extra	ction	Well		⊠ Pie	zometer	3								sives	⊠ M	fetals	□ voc		
AREA	CC	UNTY			LEVATION		<u> </u>	ater Lev	el Drawdo		(ALLEST		SVOC			esticides/F	lerbicides		
1		rankli			@465'					SN	MALLESI		LAI	RGEST					
LOCATION													% N	w	_14				
Lat. 38_ Long. 90		- ° .	33 <u> </u>	—', - <mark>4</mark>	3N w	n 11	Se	ection 17	'·	Township	44 Nor	rth		l	Range .	_2 ⊠ Eas	t 🔲 West		
TYPE OF					LENG	TH OF		DIAMETE	R OF	DIAMETE	R AND DE	PTH (ECTIVE	□s	teel	LOCKING CAP?		
SURFACE			Above (PROI	ECTIVE CA	ASING	PROTEC	TIVE CASING		E PROTEC VAS PLAC		CASIN MATE			luminum	Yes		
COMPLET	TION		Flush M	lount	5	ft.		6	in.	14 in.	2 ft.		PVC			lastic	□ No		
WEEP HOL	E?		D CAP?	LENG*	TH OF FLUS	H DIA	METER O	F FLUSH	DIAMETE	ER AND DEPTH USH MOUNT W	OF THE		SURFAC	E	M Co	norete			
⊠ Yes	•	⊠ Ye		WOON			OIVI		HOLE FL	W TRIUDINI HEU.	AS PLACE	ים	COMPLE		!				
☐ No		□ No				ft.	ft. in.					ft.	GROUT		☐ Otl	her	-		
	LEN	STH	DIAMET		WEIGHT OR SDR#	DIAME DRILL	TER OF HOLE	MATERI				REA	NTONITE	LENG SEAL	TH OF	MATERIAL			
RISER	07		۱		40		Steel Millimoplastic (FVC) s						AL .			Slurry	· —		
PIPE	27		4 in.			0.85	ft. Other SECONDARY FILTER PACK						1	3 ft.			lar Chips		
DETAIL	GLU:			57.0									FROM	TO TO	FC	RMATION	DESCRIPTION		
ĺ	⊠ ı		,						=	ydrated 🛛 Y	es ∐ N	Ю	0	26	Cla	v. Silt. F	ine & Very		
					oth Zones		If Yes, Hydrated Yes No						_			e Sand			
PRIMARY FILTER	"	ENGTH		DEPTE	1101000	F PRIMAR	YFILTER	PACK	SECONDAR	Y FILTER PACK	LENGTH		26	35			ine, Very Fin		
PACK		13.5	ft.			20.5	ft.			1.8	ft.						Coarse Sand;		
			tonite Si	-				ntonite S	lumv	LENGTH			┪ !		Fin	e & Coar	se Gravel		
ANNULAR	. 🗆			•	ite Type														
SEAL	-	J / 10.,	C.G., 2		ito Typo														
								nite Used		15.7	ft.		1						
	LEN	IGTH	DIA	METER	DIAM		DEPTH T	/Bag 25	gal.				4						
WELL					OF DI	₹ばし.	TOP OF SCREEN	· L	Steel D	MATERIAL ☑ Thermopla	stic (PV	(C)	1 1		İ				
SCREEN	10	£	4"			ł		ے ا	Other _		.545 (. 1	Ο,							
Multiple C				и. s ⊠ 1	10.3		23.6 ft.	<u>' </u>		ation ☐ Ye	•		4		ļ				
							_			including ty			-						
size of al	l cas	sing, t	nole dia	meter	and gi	out use	ed.	38 UC(101	i detalis i	including ty	pe anu		TD:						
STATIC WAT			n/V				DATE WELL DRILLING WAS COMPLETED						35ft						
SIGNATURE		,,,,	SURING F	,,,			11/10						<u> </u>						
SIGNA 1014			10	7/~			PERMIT NUMBER 2876M]							
I hereby o	ertif	y that	the mo	nitorin	g well h	erein de	scribed	ribed was constructed in accordance with					1				,		
the Depar	rtme	nt of N	latural i	Resou	rces req	Jiremen	ts for t	he cons	onstruction of monitoring wells.						1				
SIGNATURE			ER)	,			NUMBER	R DATE 11/20/09						1					
SIGNATURE (APPRENTICE) PERMIT NO								1				TOTAL	DE	_ DTH:					
	-												IJIA						



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	REVENUE NO:	
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		CEI	RTIFIC	CATIO	N RE	COR	D	ENTE	RED Ph2		Ph3		APP	ROVED BY		ATE		
INFOR	MA]	ION:	SUPPL	IED BY	PRIM	ARY C	ONTR	ACTO	R OR DR	RILL	ING CO	NTRA	CTC)R			7 (0)	
OWNER N										-		WELL	NUME	SER			RIANCE G	RANTED
Amere:		SS					CIT	·				87 STATE		ZIP CODE			DNR	h a copy or
1901 C			ve					Louis				MO	- 1	63166		brov	vide numb	er of variance.
SITE NAMI		1					<u> </u>	Louis	CONTAC	T NÃ	J	MO		03100		 _		
Labadie		wer P	lant						Paul P	Pike								
SITE ADDF									CITY		·			S	ATE	ZIPC	CODE	
PROPOSE	badi	e Pow	er Plan	nt Rd., N	IC LE	D-645	Labadie Type of Potential Site						10		63055 CHECK ALL THAT APPLY)			
Gas I				☐ Moni	torina		1		ntial site Is Materia	.1	⊠ La	JEH				•		•
☐ Extra		_	77011	□ Piezo		s	1 —		Assessm			J.S.T.		☐ Explo			retroieum i Vietals	Products Only
						-	1		vel Drawd			J.J.1.		SVO			vietais Pesticides/H	
AREA		OUNTY			VATION							ALLES			ARGEST		COUCIGO	lorbiodes
1 LOCATION		rankli	n		165'		4					.,			N7337			
Lat. 38_	OF 11		32	' _43N				aatian 1	7	Tan				¼			0.57-	
Long. 90		。	33 48	, _ 4 31\ , 56V		_,	3	ecuon 1	′——	IOW	msnip <u> </u>	14 NO	rtn			Range .	_2 🔀 Eas	st 🗌 West
TYPE OF						TH OF ECTIVE C	ASING	DIAMET	ER OF CTIVE CASIN]	DIAMETER				TECTIVE		Steel	LOCKING CAP?
SURFACE			Above (FROI	ECTIVE	HOING	PROTE	JIVE CASIN	ا	THE HOLE				ING ERIAL	_	Aluminum	⊠ Yes
COMPLET	TION	┧┖	Flush M	lount	5	ft.		4	x4 in.	ļ	12 in.	o ft					Plastic	□ No
WEEP HOL	E?		D CAP?	LENGTH MOUNT		SH DIA	METER C	F FLUSH	DIAMET	ER A	ND DEPTH (OF THE		SURFAC	,E	r		L
⊠ Yes		⊠ Ye		MOON		MO	UNI		HOLE FI	LUSH	I MOUNT WA	AS PLAC	ED	COMPL		M CO	oncrete	
□ No		□ No				ft.		ft		in			ft.	GROUT		Ot	her	_
	LEN	GTH	DIAMET		IGHT SDR#	DIAME	TER OF	MATER							LENG	TH OF	MATERIAL	
DICER							IOLL	□ St	eel 🔯 Th	hem	noplastic (PVC)	BEI SE/	NTONITE AL	SEAL		⊠Slurry	□Pellets
RISER PIPE	28		2 in.	40	· 	0.69				_					3 ft.		☐Granu	ılar □Chips
DETAIL	GLU								LTER PAC						PTH	FC	DRMATION	DESCRIPTION
				⊠ Satu	rated 2	Zone (☐ Unsa	Unsaturated Zone Hydrated ☐ Yes ☐ No						FROM 0	12			
ĺ	X)	No		☐ Both	Zones	5 I	f Yes, H	lydrated	☐ Yes		ło			ľ	12			Very Fine
PRIMARY	1	ENGTH		DEPTH TO	TOPO	F PRIMAR	Y FILTER	PACK	SECONDAR	Y FIL	TER PACK I	ENGTH		12	21	Sar		Fine Sand,
FILTER PACK														ŀ			t, Clay	. I me band,
- TAUK	_	13.6 1				21.4	ft.			T : =	1.8	ft.		21	35			ine, Medium
	- 1	Bent	onite SI	urry		☐ Cen	rent/Be	ntonite S	Slurry	[[NGTH			i				nd; Coarse
ANNULAR SEAL	ַ כ] Non	Slurry E	Bentonite	Туре	□ Bag	s of Ce	ment Us	ed					ľ		Gra	avel	
						□ % o	Bentor	nite Use	d					1		1		
						⊠ Wat	er Used	I/Bag 25	gal	16	5.6	ft.				1		
	LEN	IGTH	DIA	METER	DIAM	TER	DEPTH T		3	NAA	TERIAL			1				
WELL SCREEN					OF DE		TOP OF SCREEN		Steel 2		hermoplas	stic (P\	/C)	1				
CONLEN	10	ft.	2"	ft	8.25	in	24.7 ft		Other			į	•	1		1		
Multiple C				s 🛭 No	0.20				r Remedi	ation	_ □ Vec			1				
Submit a	_				e sho									1		1		
size of all	l cas	sing, h	ole dia	meters a	and gr	out use	ed.	ou acuo	ii uctalis	moi	uding typ	e and		TD:				
STATIC WAT		_	N	//				LL DRILLI	NG WAS CO	MPLE	TED			35ft				
			SUBING P				10/26											
SIGNATURE			MIRACIA	OR)			PERMIT N 2876M											
I hereby c	erte	that	the mo	nitoring	well he				nnetruete	d !-	2000-4-		415	•				
the Depar	tmgı	nt of N	aturai F	Resource	s requ	iremen	ts for t	u was c he cons	truction o	of m	accorda onitorina	wells	ហ		•	1		
SIGNATURE	ø€u	DRILLE	(R)	/		PERMIT	NUMBER		/ /					1		1		
SIGNATURE (APPRENDICE) PERMIT NUMBER								<u> //</u>	120/05	9	·							
SIGNATURE (APPR	CENTRE	,		ļ	PERMIT	NUMBER	DATE						TOTA	L DEF	TH:		
MO 780-1415									TECTION					L				



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				CATIO			D	ENTER	ED				ROVED BY	D	ATE	ROUTE		
INFOR	MA	TION :	SUPPL	IED BY	PRIM	ARY C	ONTRA	Phi CTOR	OR DR	Ph3 ILLING CO	NTRA	СТО	R	11.1	193			
OWNER N											WELL			200000000000000000000000000000000000000		RIANCE GI	RANTED	
Amerer	-						Low				88					DNR		
OWNER AL			\ ·				CITY				STATE		ZIP CODE			Yes. Attach vide numbe	r a copy or or of variance,	
1901 C		ileau A	ive.				St. 1	Louis	CONTAC	T NAME	МО	_ ['	63166		<u>ان</u>			
Labadie			lant						Paul P			· · · · · ·	I STA	\TE	710 (CODE		
226 Lat	oadi	ie Pow		ıt Rd., M	IC LB	D-645			Labad	ie		·	M	0	63055			
PROPOSEI Gas I				☐ Monit	orina		1		TIAL SITE							ALL THAT AP	PLY) Products Only	
☐ Extra		-		☑ Piezo	-		☐ Hazardous Material ☐ Landfill ☐ Initial Site Assessment ☐ L.U.S.T.						☐ Explos			retroleum r Metais	VOC	
	J. J.			23 1 1020		•			el Drawd		0.5.1.		SVOC			Pesticides/H		
AREA		OUNTY			VATION						MALLEST	Г		RGEST		00000000	TOTOTOTOTO	
1 LOCATION		rankli	ın	<u>@</u> 4	165'		4				1/.		% N	T XX 7	14			
Lat. 38			22	' _41N	ı	n	Se.	ction 17	,	Township						2 ⊠ Eas	st 🗌 West	
Long. 90		 °.	49	, _33\/		-, -		ouon 17	******	TOWNSHIP	77 140	71 (4 1			nai ige	_2 <u> </u>	t 🗀 West	
TYPE OF				Oracimal	LENGT	TH OF CTIVE C	ASING	DIAMETE	R OF IVE CASIN	DIAMETEI G THE HOLE				ECTIVE	Øs	Steel	LOCKING CAP?	
SURFACE			Above (, ,,,	.01142	700	INOILUI	TVL CAGIN	CASING V			MATE			Numinum	⊠ Yes	
COMPLET	IION	ᅵᅵ	Flush M	lount	5	ft.	1	43	4 in.	12 in.	2 ft.		İ			Plastic	□ No	
WEEP HOL	E?		D CAP?	LENGTH MOUNT	OF FLUS		METER OF	FLUSH		ER AND DEPTH LUSH MOUNT W		ED	SURFAC	E	IXI C	oncrete		
⊠ Yes		⊠ Ye							I HOLL !	100/1 1/100/11 1/	AO I'LAO	CD	COMPLE GROUT	TION				
□ No		☐ No				ft.		ft.	<u> </u>	in.		ft.	GROOT		ЦО	ther		
	LE	NGTH	DIAMET		IGHT SDR#		TER OF HOLE	MATERIA				REN	ITONITE	LENG! SEAL	TH OF	MATERIAL		
RISER							Steel M Thermoplastic (PVC)						L			Slurry		
PIPE		ft. *	2 in.	170		0.69		<u> </u>		· · · · · · · · · · · · · · · · · · ·	3 ft.			lar □Chips				
DETAIL	_	JED Van							TER PAC				FROM	PTH TO	F	ORMATION	DESCRIPTION	
	_	Yes		i						ydrated 🔲 Y	es ∐ l	No	0	5		ay/Silt		
		No		☐ Both					☐ Yes				5	10		F-F Sand		
PRIMARY	· '	LENGTH		DEPTH TO	э тор о	F PRIMAF	RY FILTER I	PACK 8	SECONDAR	Y FILTER PACK	LENGTH		10	30	Fir	ne Sand		
FILTER PACK		12.8	.			22.0	ft.			1.2	4		30	35	Gr	avelly Sar	nd	
	+		tonite S	lure.			nent/Ben	tanita Ci		LENGTH	ft.		-					
ANNULAR				-					•						-			
SEAL	` '	∐ Non	Slurry E	3entonite	• •	-									}			
						□ % o	f Bentoni	te Used		170								
	<u> </u>					☑ Wat	er Used/		gal.	17.8	ft.		<u> </u>					
WELL	LE	NGTH	DIA	METER	OF DE	RILL	DEPTH TO	<u> </u>		MATERIAL		•]					
SCREEN					HOLE	Ì	SCREEN			Thermopla	astic (P	VC)						
	10) ft.	2"	ft.	8.25	in.	24.5 ft.		Other _				TD:		1			
Multiple C	ase	d Wells	:	s 🛭 No	·	F	ump Inst	talled for	Remedi	ation 🗌 Ye	S		35ft		-			
Submit a size of al	ddi I ca	tional a ising, h	as built nole dia	diagram meters	ns show and gr	wing w	ell cons	truction	details	including ty	pe and	t						
STATIC WAT NI FEET FI			kings Plojiki	7/1			DATE WELL DRILLING WAS COMPLETED 11/13											
		MARKYCE	NTAACT	6 60			PERMIT NUMBER							•				
SIGNATURE	199			7'			2876M described was constructed in accordance with											
14	<u> </u>		Tul	<u>~</u>									ĺ					
I hereby o	erti	fy that	the mo	nitoring	well he	erein de	escribed	was co	nstructe	d in accorda	ance w	ith					,	
I hereby o	erti	fy their	اکسو/ the mo latural I	nitoring	well he	erein de	escribed	DATE	ruction	of monitorin	ance w	ith s.					,	
I hereby of the Depar	erti	ify that ant of N	the mo latural I	nitoring	well he	PERMIT	escribed nts for th	DATE	enstructe truction	of monitorin	ance w g wells	ith s.					,	
I hereby of the Depart	erti	ify that ant of N	the mo latural I	nitoring	well he	PERMIT	escribed nts for th	DATE	ruction	of monitorin	ance w g wells	ith s.	TOTA	L DEF	PTH:		,	



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		INIC			S WEL		.	ENTER	(ED			APF	PROVED BY	D	ATE	ROUTE			
INFOR	MA.						_	Ph1	Ph2	Ph3					12012				
OWNER N	AME	IJON	JUFFL	ع برعا.	o I - E-IXIIAI	ART C	UNIRA	ACTOR	OR DRI	LLING		ACTO L NUME			1	Brown Day			
Amere											90	- 110111				RIANCE G DNR	RANTED		
OWNER A							CITY	,			STAT	E	ZIP CODE			Yes. Attac	h a copy or		
1901 C	hou	teau A	Ave.				St.	Louis	I		MC		63166		pro	vide numb	er of variance.		
Labadie	e Po	wer P	lant						Paul P										
			on Dlan	ו מי	MOID	D (45			CITY					ATE	ZIP CODE				
PROPOSE	DUS	E OF W	ver Plan	ıt Ka.,	, MC LB	D-643	TYPE	OF POTEN	Labadi	ie			MONITORII	O	630)55 ALL THAT AF			
☐ Gas I	Vlon	itoring	Well	□м	onitoring		□ Ha	azardous	Material	5	Landfill						Products Only		
☐ Extra	ctio	n Well		⊠ Pie	ezometers	S	☐ Initial Site Assessment ☐ L.U.S.T. ☐ Water Level Drawdown							sives	Ø i	Vietais	□ voc		
AREA		OUNTY			ELEVATION	-	<u> </u>	ater Lev	ei Diawuc	own	SMALLES	ST.	SVOC	RGEST		Pesticides/	-lerblcides		
1 LOCATION	_1	rankl	in		<u>@</u> 465'		[-							
Lat. 38		VELL 0	22	' <u>_</u> 4	11.2	n		otion 17	, <u> </u>		%		¼ N						
Long. 90			49	_ 2	4.9 LENG	-, -,	36								Range	_2 🛭 Eas	st 🔲 West		
TYPE OF SURFACE	1	⋈	Above (Ground		ECTIVE CA	SING	PROTECT	ROF TIVE CASING	3 THE !	ETER AND I	ECTIVE	E CASII		Ø.	Steel	LOCKING CAP?		
COMPLET		·	Flush M	lount	_	_					NG WAS PL		MATE	RIAL		Numinum	│ ፟፟፟⊠ Yes │		
WEEP HOL	E?	VENTE	D CAP?	LENG	TH OF FLUS		METER OF	4x	4 in.	12 17	. 2 ft. PTH OF THE					Plastic	₩ 140		
Yes		⊠ Ye		MOUN		MOI	JNT	1 20011	HOLE FL	USH MOUN	IT WAS PLA	CED	SURFAC		⊠ c	oncrete			
□ No)			ft.		ft.		t			GROUT	IION	По	her			
	LEN	NGTH	DIAMET		WEIGHT	DIAMET		MATERI/	AL.	in.	<u> </u>	ft.		LENGT		MATERIAL			
				ĺ	OR SDR#	DRILL	IOLE	☐ Ste	el 🖾 Th	ermoplas	stic (PVC)		NTONITE	SEAL	пог	Slurry			
RISER PIPE	28	ft.	2 in.	l	40	0.691	t.	☐ Oth		•	, -,	SE	AL	3 ft.		1	iar		
DETAIL	GLI	JED							TER PACE	<u>-</u>		<u> </u>	DEI	PTH	F	<u> </u>	DESCRIPTION		
		Yes		⊠s	aturated 2	Zone [] Unsat	urated Z	one Hy	drated 🗵	Yes 🗆	No	FROM	TO					
	\boxtimes	No			oth Zones				☐ Yes [0	10			and, Clay and		
PRIMARY	T	ENGTH		DEPTI	TO TOP O	F PRIMAR	/ FILTER I	PACK S	ECONDARY	FILTER PA	ACK LENGT	Н	10	15	Sil				
FILTER								- 1					15	31			Fine Sand		
PACK	4	13.8	ft.			21.2	ft.				.2 ft.		_	J1	Cla		ry Fine Sand,		
		⊠ Ben	tonite SI	urry		☐ Cem	ent/Ben	tonite Si	urry	LENGTH			31	35			ium, Fine, and		
ANNULAR SEAL	1	☐ Non	Slurry E	Benton	ite Type	☐ Bags	of Cem	ent Use	d				1		I		and, Trace		
						☐ % of	Bentoni	ite Used								avel	•		
						☑ Wate	r Used/	Bag 25	nal	17	ft.				İ				
	LE	NGTH	DIA	METER	DIAM	TER	DEPTH TO			MATERIA	A1		-				•		
WELL SCREEN	ĺ				OF DE HOLE		TOP OF SCREEN		Steel 🗵	Thermo	oplastic (F	VC)	┨						
	_) ft.	2"	ft.	8.25	in.	24.7 ft.		Other										
Multiple C									Remedia										
Submit a size of al	I ca	sing, l	as built hole dia	diagn meter	ams sho [,] rs and gr	wing we out use	ell cons d.	truction	details i	ncluding	j type an	d	TD: 35ft						
STATIC WAT			$\alpha \mathcal{L}$)_//				L DRILLING	G WAS COM	PLETED			3311						
NA FEET I)-28 						<u> </u>						
				2			ERMIT NO. 2876M	NWRFK							1				
I hereby o	erti	fy that	the mo	nitorir	ng well he	erein de:	scribed	was co	nstructer	d in acco	rdance	1							
the Defjar signyfyre	τme	iniyot t	Naturai i	Resou	rces requ	iremen	ts for th	e const	ruction o	ring well	S.]		}					
SIGNATURE		女 DRILL ファクュ	ER)			PERMIT I	NUMBER	DATE	10-19	۷.۵]				ļ		
SIGNATURE	(APP	RENTIE	Z 1/12	بع		2836 PERMIT	NUMBER	DATE	17 10	-09	· · · · · ·		1						
·		0											TOTAL	L DEP	TH:		ĺ		
MO 780-1415	106-1	191 R	ETHOM (CMDI	ETEN END	M TO. W	CILLUE A	DODAT	COTION										



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		CEI			ON RE	_	D	ENTER Ph1	RED		Ph3			ROVED BY	C		ROUTE	e Programme de la companya de la companya de la companya de la companya de la companya de la companya de la co		
INFOR	MAT	ON:	SUPPL	IED B	Y PRIN	IARY C	ONTRA	ACTOR	OR DR	RILLI	ING COI	NTRA	CTC)R		in S	1	A Company of the Comp		
OWNERN	AME											WELL	NUMB	ER	Market Control		RIANCE G	RANTED		
Amerei OWNER A	_	ss					CITY	, -				93			 -		DNR	.		
1901 C	-	-	ve.				1	Louis				STATE	- 1	ZIP CODE 63166				h a copy or er of variance.		
SITE NAMI					· · · · · ·			Louis	CONTAC	CT NA!	ME I	MO		03100		ــــــــــــــــــــــــــــــــــــــ				
Labadie		ver P	lant						Paul P	Pike										
SITE ADDR		-	T01						CITY					ST	ATE	ZIP	CODE			
226 Lat	DAG16	OF WE	er Plar	it Kd.,	MC LE	BD-645		DE BOTEN	Labad	lie			 ,	M	=		63055			
☐ Gas I				□Мо	nitoring		1			ıl	⊠la	ndfill	1				ALL THAT AF	PLY) Products Only		
☐ Extra	ction '	Well			zometer	S	☐ Hazardous Material ☐ Landfill ☐ Initial Site Assessment ☐ L.U.S.T.							☐ Explo			detals	VOC		
							ſ		el Drawd					SVOC				Herbicides		
AREA	1	UNTY ankli			LEVATION						SM	ALLES	Т		RGEST			. 10/12/0/400		
LOCATION			<u> </u>				-					1/4		% N	JW.	14				
Lat. 38_ Long. 90		_ •	33	, 42	2"	ı	Se	ection 17	,	Tow	nship4			^		_	2 M = a	st 🔲 West		
Long. 90		•	49		n								,,,,,,			i tariye	_2 🖂 La	st 🗀 west		
TYPE OF			Above (Ground		TH OF ECTIVE C	ASING	DIAMETE	R OF TIVE CASIN	IG	DIAMETER THE HOLE				ECTIVE	⊠ :	Steel	LOCKING CAP?		
SURFACE			Flush M								CASING W			MATE			Aluminum	⊠ Yes		
WEEDLIN	== -				5				4 in.	_		2 ft.				□ F	Plastic	□ No		
WEEP HOL		VENTE ☑ Ye	D CAP?	MOUN	H OF FLU: T		METER OF UNT	FLUSH	DIAMET HOLE FI	ER AN	ND DEPTH C	OF THE	ED.	SURFAC		⊠ c	oncrete			
□ No		□ No												GROUT	TION					
	LENG		DIAMET	ED V	WEIGHT	ft.	TER OF	ft.	<u> </u>	in.			ft.				her			
	OR SDR# DRILL HO							IOLE						NTONITE	LENGT SEAL	TH OF	MATERIAL			
RISER	28 ft. 2 in. 40 0.69 ft.) JEA						AL,	3 ft.		Slumy	′			
PIPE DETAIL	GLUE					0.03		SECONDARY FILTER PACK						DE	PTH	F (<u> </u>	DESCRIPTION		
1	□ Y	'es		⊠ Sa	turated 2	Zone (Unsaturated Zone Hydrated ⊠ Yes ☐ No						FROM	то		DUNTION	DESCRIPTION		
	⊠ N	lo			th Zone:				☐ Yes I			» Ш і	NO.	0	12	Int	erbedded	Clay, Silt, VI		
PRIMARY	LE	NGTH									TER PACK L	ENCTU		┨		Sa		.,,		
FILTER									LOONDAI	,	I EN LAGINE	ENGIN		12	20	Fir	e Sand			
PACK	1	3.3 f	t.			21.6	ft.				1.3	ft.		20	35			_		
	×	Bent	onite SI	urry		☐ Cen	nent/Ben	tonite SI	urry	LEN	NGTH			1 ~ `	33	Co	arse Sand	ı		
ANNULAR		Non	Slurry E	Bentonit			s of Cem		-]						
SEAL	Ì				•		Bentoni													
										17	.3	ft.		1		1				
	LENG	3TH	DIA	METER	DIAM		DEPTH TO		gai.	<u> </u>				∤ i						
WELL					OF DI HOLE	RILL	TOP OF SCREEN	<u> </u>	Steel D		TERIAL nermoplas	tic (P)	/C)	- 1						
SCREEN	101	F4	2"	4	8.25			- 1	Other_		iomopiac	, i) on	•0,							
Multiple C				s 🔲 N			24.6 ft.						·]						
Submit a											☐ Yes			<u> </u>		1				
size of all	l casi	ng, h	ole dia	meters	and gr	out use	ed.	ırucılon	details	INCIL	laing typ	e and	i	TD:						
STATIC WAT	ER LEV	/EL		1				L DRILLING	G WAS CO	MPLE	red			35ft		1				
NA FEET F							10-22													
SIGORGIA		77	MIDACIC	OR)			PERMIT NU 2876M	JMBER							•					
i hereby c	/// ertifv	that	the moi	nitorina	well he			wae oo	as constructed in accordance with											
tne Depar	tmen	i oj N	atural F	Resour	es requ	iiremen	ts for th	e const	struction of monitoring wells.											
SIGNATURE (PRILLE	(R)	1		PERMIT	NUMBER	DATE												
SIGNATURE (APPRE	NTICE	yu.	ax		2836	NUMBER	DATE	0-26-	09				<u> </u>		<u> </u>				
		0				: WYII I	NJER	JAIE						TOTAL	_ DEP	PTH:				
AO 780-1415	(00.00)	DE	TUDALO	OHDI E	TED E0			DDDOT												



OFFICE USE ONLY REF NO.	DATÉ RECEIVED
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	رع	MO	NITO	RING	WEL	L		289. N	E WELL NU	MBER	Palifornia	RE	VENUE NO						
		CE	RTIFIC	CATIC	ON RI	ECOR	D	ENTE Ph1	RED Ph2	Ph3		API	PROVED BY	1	DATE	ROUTE			
INFOR	MA	TION	SUPPL	JED B	Y PRIM	MARY C	ONTR	ACTO	R OR DE	RILLING C	ONTRA	ACT	OR	Transfer Corts	icaty Corolida Torra	<u>- 1</u> 3			
OWNER N Amere												NUM	BER			RIANCE G	RANTED		
OWNER A		SS					CIT	Y		·	95 STAT	F	ZIP CODE			DNR Yes, Attac	h a copy or		
1901 C		teau A	Ave.				St.	Louis			МО		63166		pro	vide numb	er of variance.		
Labadie	-	war D	lont						Paul I	OT NAME				-	!				
SITE ADDR			iant			·			CITY	- INC		ST	ATE	ZIP	ZIP CODE				
226 Lat	badi	e Pow	er Plar	ıt Rd.,	MC LI	3D-645			Labac				М			63055			
PROPOSEI				☐ Mor	nitorina		TYPE OF POTENTIAL SITE Hazardous Material Landfill									ALL THAT AF			
☐ Extra		-		☑ Piez	_	'S	1		Assessn	<u> </u>	Lanonii L.U.S.T.		☐ Explo			Petroleum I Metals	Products Only		
									vel Drawo				SVO				Herbicides		
AREA 1		ounty rankli		1	EVATION 2465'	ı					SMALLES	ST	LA	RGEST		-	<u> </u>		
LOCATION	OF V				,100		-						¼ l	٧w	_ ¼				
Lat. 38 Long. 90		_ ° 。	33 <u> </u>	', _42 59		,	s			Township _						_2 🛭 Eas	st 🗌 West		
TYPE OF SURFACE	:	Ø	Above (Ground		TH OF ECTIVE C	ASING	DIAMET PROTEC	ER OF CTIVE CASIN	IG THE HO	ER AND D	ECTIV	E CASI		Z S	Steel	LOCKING CAP?		
COMPLET			Flush M	lount	5	4			4 !		WAS PLA	ACED	MATE	ERIAL		Aluminum	□ No		
WEEP HOLI	Ē?	VENTE	D CAP?		OF FLU	SH DIA		F FLUSH		ER AND DEPT	2 ft. H OF THE		1 011754	-		Plastic			
⊠ Yes	ŀ	⊠ Ye		MOUNT		MO	UNT		HOLE F	LUSH MOUNT	WAS PLA	CED	SURFAC		⊠ Co	oncrete			
□ No		□ No				ft.		ft.		in.		ft.	GROUT			ther	_		
									MATERIAL ☐ Steel ☐ Thermoplastic (PVC) BE					LENG SEAL	TH OF	MATERIAL			
RISER	1 140 1						-	her	nermopiasti	C (PVC)	SE		3 ft.		Slurry	☐Pellets			
PIPE DETAIL	GLU		<u> </u>			1 0.03			LTER PAG	<u>-</u>		<u></u>	DE	PTH	F		DESCRIPTION		
ł		Yes		⊠ Sat	urated	Zone [☐ Unsa	turated	Zone H	ydrated 🛛	Yes □	No	FROM	TO			DECOMM HON		
	\boxtimes	No			h Zone				☐ Yes				0	14			Clay, Silt, V		
PRIMARY	T L	ENGTH		DEPTH 1	TO TOP C	F PRIMAR	Y FILTER	PACK	SECONDAR	RY FILTER PAC	K LENGTI	Н	14	30	Sar	nd 1e Sand			
FILTER PACK		13.3 1	F4			21.6	5 1			4	_		30	35		arse Sand			
-	_		tonite SI	UFD/		21.6	ft.	ntonite S	Na uma e	1.3	3 ft.		4	i					
ANNULAR	- 1			-	Tyne			ment Us	•										
SEAL	'		Oldiny L	GI ILOI IIL	s Type	_													
								nite Used		17.3	ft.								
	LEI	NGTH	DIAI	METER	DIAM	ETER	DEPTH T	/Bag 25	gai.	MATERIAL			-						
WELL SCREEN					OF DI HOLE		TOP OF SCREEN	-	Steel	MATERIAL Thermop	lastic (P	VC)	1						
	10	ft.	2"	ft.	8.25	in.	24.6 ft.	. [Other_			•							
Multiple Ca	asec	Wells	☐ Ye	s 🗌 No)	Р	ump Ins	stalled fo	r Remed	ation 🔲 Y	es		1						
size of all	cas	sing, h	as built ole dia	diagrar meters	ns sho and gi	wing wo	ell cons	structio	n details	including t	ype an	d	TD: 35ft						
STATIC WATER LEVEL NA FEET FROM MEASURING PONT 10-22										DRILLING WAS COMPLETED									
SUON		<i>U. Z</i> I		OR)			PERMIT N	IUMBER					-						
/ they		1/10	N	<u>~</u> 			2876M												
I hereby certify that the monitoring well herein described was co the Department of Natural Resources requirements for the cons										d in accord	lance w	ith]						
SIGNATURE	y j	DRILLE	(R)		10q		NUMBER			oi monitori	ng well	s	1						
SIGNATURE (1	M	is			2836	ánu	_	10-59	109									
	~I~I~I	STATE	1			PERMIT	NUMBER	DATE		स -			TOTAL	L DEF	TH:				
AO 700 1445 (/AA A	N DE	THE	OMDLET	ED FOE														



OFFICE USE ONLY REF NO.	DATE RECEIVED
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						ECOR		ENTER Ph1	Dh2	Dh2			PROVED BY	D	DATE	ROUTE	- FA		
INFOR	MA	TION	SUPPL	LIED BY	/ PRIM	IARY C	ONTR	ACTOR	OR DR	Pha RILLING CO	ONTRA	CTO	OR .			21-35-5 <u>4</u> 27-845-7			
OWNER N	NAME			_	_						WELL	NUMB		<u></u>		RIANCE GF	RANTED		
OWNER A		ESS					CITY				97 STATE	=	ZIP CODE			DNR Yes. Attach	h a copy or		
1901 C			Ave.					Louis			MO	1	63166		prov	vide numbe	er of variance.		
SITE NAME	IE								CONTAC		1140		03100						
Labadio			'lant						Paul P	'ike							· · · · · · · · · · · · · · · · · · ·		
		-	ver Plat	nt Rd., l	MCIF	⊇T_6 <u>4</u> 5		1	CITY Labadi	1! _	-			ATE	1	CODE			
PROPOSE	D US	E OF WF	ELL ELL	<u>It Xu., .</u>	MC LL	シン・シャン	TYPE	OF POTEN	Labaui	<u>1e</u>		—	MONITORIN			63055 CHECK ALL THAT APPLY)			
☐ Gas i		_		☐ Mon	-		□ H	Hazardous	ıs Material	al 🛭 L	Landfill		1				Products Only		
☐ Extra	ction	n Well		☑ Piez	zometer	s	☐ Initial Site Assessment ☐ L.U.S.T.						Explos			Metals	□ voc		
AREA		COUNTY		T FI	LEVATION		<u> </u>	later Lev	vel Drawdo				SVOC			Pesticides/H	Herbicides		
1	F	Frankli			2465'					8	SMALLES'	Т	LA	RGEST		-	_		
LOCATION				· 1_ *	/-		1						% N	√W	¼		r		
Lat. 38_		° ,	33 ° 48	', <u>-42</u> .		.	Se	ection 17	/ <u></u>	Township _						_2 🖾 Eas	st 🔲 West		
Long. 90				51	LENG	TH OF	Т	DIAMETE		DIAME?	TER AND D	тетн	OF PRO	TECTIVE			LOCKING CAP?		
TYPE OF SURFACE	E		Above (FECTIVE CA	SING		TIVE CASING	NG THE HOI	DLE PROTE WAS PLA	ECTIVE	E CASIN	NG	M 2	Steel	LOCKING CAP?		
COMPLET		1 0	Flush M	/lount	_	, e		1					MAIL	ERIAL		Aluminum	□ No		
WEEP HOL	E?	VENTE	ED CAP?		H OF FLUS	SH DIAM		SF FLUSH	x4 in.	12 in. TER AND DEPTH	2 ft. TH OF THE				T	Plastic			
⊠ Yes	ļ	⊠ Ye	əs	MOUNT		MOL				LUSH MOUNT V			SURFACI		⊠ Co	oncrete			
□ No	1	□ No	ٔ ا			ft.		ft.		in.		ft.	GROUT		Ot	ther	_		
	LEI	NGTH	DIAMET		VEIGHT	DIAMET	TER OF	MATERIA	RIAL	***		1.	<u> </u>	LENGT	ļ	MATERIAL			
	l	,			OR SDR#	DRILL H	IOLE			hermoplastic	c (PVC)	BEN SEA	NTONITE	SEAL	1	⊠Slurry	/ Pellets		
RISER PIPE	⊢—	8 ft.	2 in.	4	10	0.69 f		☐ Oth	her	·	· .		AL ,	3 ft.		-	ular □Chips		
DETAIL	ł	.UED						NDARY FIL	LTER PAC			<u> </u>		PTH	FC	ORMATION '	DESCRIPTION		
] Yes	1	I						lydrated 🛛 \	Yes 🔲	No	FROM 0	7 TO	١.				
	×	No	!	☐ Bot	th Zones	s If	f Yes, H	Hydrated	☐ Yes [□ No			10	1			l Clay, Silt, VF		
PRIMARY	<u>'</u>	LENGTH		DEPTH	TO TOP O	F PRIMAR	YFILTER	PACK E	SECONDAR	RY FILTER PACI	K LENGTI	н	7	22	San Fin	nd ne Sand			
FILTER PACK		12.2	_	1		~4 &	~			_			22	35	- 1	arse Sand	4		
		13.3 f				21.5	ft.			1.5	5 ft.		-						
ANNULAR	_		ntonite SI	•				ntonite SI	-	LENGIN			'						
SEAL	1	☐ Non	, Slurry E	3entonite				ment Use					1	1					
						☐ % of	Benton	nite Used	<i>-</i> '	170	. .			1					
	\perp							d/Bag 25	gal	17.0	ft.	_	1	1			•		
WELL	LE	ENGTH	DIA	AMETER	OF DE	RILL 7	DEPTH TO TOP OF			MATERIAL		_] /	1					
SCREEN					HOLE	Ē \$	SCREEN	' 📙	_		lastic (P	VC)	1	l .					
<u></u>		0 ft.	2"		8.25	<u>ن in.</u> :	24.5 ft.	. 🗓	Other _				1	l					
Multiple C				es 🗌 No					r Remedia			_]	ı					
size of all	ll ca	asing, h	as built nole dia	diagrar ameters	ns sho	rout use	ed.			including t	ype an	d	TD: 35ft	l					
STATIC WAT NA FEET F			-	1				LL DRILLIN	NG WAS COM	MPLETED			1	i			ļ		
SUNFACE	JAR)	JAKY OF	ONTRACT	OR)			10-22 PERMIT N	MRER	•				4	i			į		
The	1	Hr	1				2876M							ı					
I hereby c	erti	fy that	the mo	nitorinç	well h	erein de	scriber	d was co	onstructe	ed in accord	dance v	vith	1	,					
SIGNATURE	rtme	ept of N	Natural F	Resourc	es requ	uirement	ts for th	the const	truction o	of monitori	ng well	S.]				ļ		
7/6	27	Lin	er, -	her .	}	2836	NUMBER DATE												
SIGNATURE ((APP	RENTICE	<u> [200 -</u> E)	~		PERMIT N	NUMBER			07			TOTAL	DE	OTU.				
		ν			J	1		-					IUIA	_ DEF	'Iri.		ļ		



OFFICE USE ONLY REF NO.	DATE RECEIVED
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					ON RE		D	ENTER	10 M				APP	ROVED BY	.D.	ATE		view.		
INFOR	MA	TION S	SUPPL	IED B	Y PRIM	ARY C	ONTRA	Ph1	Ph2 OR DR	ILLIN	Ph3 IG COI	NTRA	CTO	R						
OWNER N	AME											WELL					IANCE G			
Amerei OWNER A							(202	·				99	.,			BY				
1901 C			110				CITY					STATE		ZIP CODE				n a copy or er of variance.		
SITE NAM		icau A	ve.				St. 1	Louis	CONTAC	T NAME		МО		63166		F				
Labadio			lant					<u>.</u>	Paul P							T 715 5	005			
			er Plan	t Rd	MC LB	D-645			Labad	ia				M	ATE	ZIP C				
PROPOSE				1144,	WIC DD	0 13		F POTEN	TIAL SITE								63055 CHECK ALL THAT APPLY)			
☐ Gas I	Von	itoring \	<i>N</i> ell	☐ Moi	nitoring		☐ Ha	zardou	s Materia	I	🛛 La	ndfill		☐ Radio	nuclide	s 🗌 P	etroleum l	Products Only		
☐ Extra	☐ Extraction Well ☐ Piezometers								☐ Initial Site Assessment ☐ L.U.S.T. ☐ Water Level Drawdown						sives		letals esticides/l	☐ VOC Herbicides		
AREA		OUNTY			EVATION				<u> </u>	<u> </u>	SM	ALLES	r	SVOC	RGEST	<u> </u>	esticides/i	Terbicides		
1 LOCATION	I.	rankli	n	(@	0465'		-								7337					
Lat. 38		• •	99	, 44	, 11			ation 1'	7	T				¼ N		_	. 53 =	. 5		
Lat. 36_ Long. 90		<u>-</u> ،	48 <u></u>	' _41 ' 43	}		26		7							Range .	2 🗵 Eas	st 🗌 West		
TYPE OF		×	Above (Ground	LENGT PROTE	CTIVE C	ASING	DIAMETE PROTEC	R OF TIVE CASIN	lG ∤ Τ	HE HOLE	PROTE	CTIVE		ECTIVE	⊠ s	teel	LOCKING CAP?		
SURFACE COMPLET			Flush M	lount			1			۲	CASING W	'AS PLA	CED	MATE	RIAL	_	luminum	⊠ Yes □ No		
WEEP HOL	E0 1	VENTE			5 H OF FLUS	ft.			<u>k4 in.</u>			2 ft.				☐ P	lastic	L) 140		
WEEF NOL	-	Ø Ye		MOUNT			METER OF UNT	FLOSH	HOLE F	ER AND LUSH M	DEPTH (OF THE AS PLAC	ED	SURFAC		⊠ Co	ncrete			
□ No	ŀ	□ No											_	COMPLE GROUT	TION	□ Ot	her			
	LEN	IGTH	DIAMET	FR V	VEIGHT	t.	TER OF	ft. MATER		in.			ft.		LENGT		MATERIAL			
			,		OR SDR#	DRILL				hermo	olastic /	PVC	BEN	ITONITE	LENGT SEAL	n or	MATERIAL			
RISER	28 ft. 2 in. 40 0.69 ft.					ft. Steel Thermoplastic (PVC) SEA						\L	3 ft.			lar Chips				
PIPE DETAIL		JED			· · · · · ·			SECONDARY FILTER PACK						T DE	PTH	FC		DESCRIPTION		
ı		Yes		⊠ Sa	turated 2				Zone H		4 1X V	. n	Mo.	FROM	TO		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BEGGINI HOIL		
	\boxtimes	No		_	th Zones				☐ Yes			~ ⊔	10	0	7	Inte	erbedded	Silt and Clay		
	-	ENGTH					-		SECONDAR			ENGT		┨				-		
PRIMARY FILTER	-								0200110/11		-IVI AOIVI	LLIIGII	,	$\begin{bmatrix} 7 \\ 22 \end{bmatrix}$	22	- 1	e Sand			
PACK		13.5 1	t.			20.6	ft.				1.5	ft.		22	35	Co	arse Sand	l		
	Ti	⊠ Bent	onite SI	urry	-	☐ Cerr	nent/Ben	tonite S	lurry	LENG				1						
ANNULAR	1	¬ Non	Slurry E	Bentonit	е Туре				· -											
SEAL	'	_	- · · · · · · · · ·				f Bentoni							1						
										16.	1	ft.		1		-				
	LIE	NGTH	DIA	METER	DIAME		OEPTH TO		gal.					4						
WELL					OF DR	ILL	TOP OF SCREEN	L.,	Steel [ERIAL	etic (D	VCI	1						
SCREEN	10) ft.	2"	ft.	8.25		23.8 ft.		Other_		- -	Suc (F	V O)							
Multiple C		_		s 🗌 N	lo			talled fo	r Remedi	ation	☐ Yes			1						
Submit a	ddit	ional a	s built	diagra	ms show								1	TD:						
size of al	l ca	sing, h	ole dia	meters	and gr	out use	ed.						-	35ft						
STATIC WAT NA FEET I				A.T.				L DRILLIN	IG WAS CO	MPLETI	ED									
SIGNATURE	_		NERACTO				10-22 PERMIT NU	MARED	····											
		Flu	1				2876M	DIVIDER												
I hereby o	erti	fy that	the mo	nitoring	g well he	rein de	scribed	d was constructed in accordance with the construction of monitoring wells.						1				,		
SIGNATURE	(WE	L DRILLE	R) 🔪 🛮	resour	ces requ		NUMBER	DATE DATE						1						
1/2	fs.	m	, p	ر		2836			12 Z.	a 9								1		
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OFFICE USE ONLY REF NO.	DATE RECEIVED
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INFOR	MA.	TION	SUPPL	IED B	Y PRIM	ARY	CONTI	Ph1 RACTOR	Ph2 RORDRI	Ph3 KILLING CO	NTRA	CTC	, , ,	in the second	1943 <u>)</u> 1443		
OWNER N	AME	<u> </u>	<u> </u>	<u></u>		September 1 and	<u> </u>	<u> </u>	The state of the s	1 hall 1		NUMB	ER	(Silly are)	T VA	RIANCE G	RANTED
Ameren							1 6						105		BY	DNR	
OWNER AD			LTIA				} -	t. Louis			STATE		ZIP CODE				th a copy or er of variance.
SITE NAME		Cau.	.٧٥.					i. Louis	CONTAC		MO		63166		<u> </u>		
Labadie SITE ADDR			lant						Paul P	ike			ST	ATE	ZIP	CODE	
226 Lab				t Rd.,	MC LB	D-64	15	E OF POTEN	Labadi NTIAL SITE	ie			M	O	630	055 CALL THAT AP	-3150
☐ Gas N				□Мо	nitoring		l	Hazardou		ıl ⊠ı	_andfill						Products Only
☐ Extrac		_			zometers	3	l	initial Site Water Lev		nent 🔲 L	U.S.T.		☐ Explos	sives	×	Metals Pesticides/l	□ voc
AREA 1	4	COUNTY Frankli			LEVATION @465'			77-0.	701 -1		MALLES	т		RGEST		-coudaco.	Terbidaes
LOCATION		WELL		خـــلـــــــ	<u>y</u> 700		\dashv				<u></u> ¼ .		% N	4M	_¼		
Lat. 38_ Long. 90	· · ·	° ;	33 ° 49	, _39	9.1 <u> </u>			Section 1'	7	Township					_	_2 🛭 Eas	st 🔲 West
TYPE OF			Above G		LENG'	TH OF ECTIVE	CASING	DIAMETE	ER OF CTIVE CASIN	IG THE HOL	ER AND D LE PROTE	ECTIVE		TECTIVE NG	M :	Steel	LOCKING CAP?
SURFACE COMPLET		-	Flush M			4					WAS PLA	CED	MATE			Aluminum	│ ☑ Yes │
WEEP HOLI	.E?	VENTE	D CAP?		5 TH OF FLUS	SH D	DIAMETER	OF FLUSH	x4 in.	12 IN. TER AND DEPTH	2 ft. H OF THE	:	1		Γ –	Plastic	
⊠ Yes		⊠ Ye	ſ	MOUN			MOUNT	C. .	HOLE FI	LUSH MOUNT V	VAS PLAC	CED	SURFAC		⊠ C	oncrete	
□ No		□ No	را			ft.		ft.	.	in.		ft.	GROUT		 0	ther	_
	LEN	NGTH	DIAMET		WEIGHT OR SDR#		METER OF LL HOLE					T	NTONITE	LENGT	TH OF	MATERIAL	
RISER	าด) } ~			40	Ì				hermoplastic	; (PVC)	SEA				⊠Slurry □ Granu	
PIPE	_	S ft. UED	2 in.			0.0	59 ft. SECO	ONDARY FI	her			<u> </u>	DE DE	3 ft. PTH			ular Chips
		Yes	ļ	⊠ s		7one			lydrated 🛛 Y		No	FROM	ТО		UKMATION	DESCRIPTION	
		l No	}	·	oth Zones			Hydrated	-	-	ies L	140	0	20			nd Fine Sand,
PRIMARY	T	LENGTH		DEPTH	то тор с	F PRIM				RY FILTER PACE	K LENGTI	н	20	25		lay and Sil	lt d Fine Sand,
FILTER PACK		127		ŀ		21	24			1.2	٠					edium and lt, and Cla	
·		13.7 f	ntonite Sl	h iery		21 □ C	ft.	Bentonite S	ر بنید ر	1,2	2 ft.	—	25	35	Co	oarse, Med	dium, Fine, and
ANNULAR	.			-					•							ery Fine Sa ravel	and, Trace
SEAL	'	<u> </u>	Slurry	30 (Illum	ite iyhe			ement Use						1	0.	avei	
								onite Used		16.8	ft.		.] !	1			
	LE	ENGTH	DIA	AMETER	DIAN	ETER	DEPTH		gal.	<u> </u>	·		-	1			
WELL		**		Bridge .	OF D	RILL	TOP OF	F	Steel	MATERIAL Thermopi		·VC)	-				
SCREEN	1	0 ft.	2"	ff.	8.25		24.4	i _	Other_		,	•					
Multiple C	_			es 🖾 N				10.		liation 🔲 Ye	es		-	l .			
	addi	itional a	as built	diagra	ams sho	wing	well co			including t		ıd	1	ļ			
STATIC WAT	TER L	LEVEL	2/1	71	<u> </u>			WELL DRILLIN	NG WAS CO	MPLETED			TD:				
SIGNATORE								T NUMBER	<u> </u>	*·· ** · · · · · · · · · · · · · · · · 			35ft				
I haraby	4 /	that	the mc	mitorji		niere				ed in accord		!45-	-	l			•
the Depar	rtme	ent,of N	Natural F	Resou	rces req	uirem	nents for	r the cons	struction	of monitori	ng well	/ith is.	1	I			
SIGNATURE	200	LI/DRILL	ER)				MIT NUMBE	ER DATE	10-12	10			1				
SIGNATURE	API	PRENTIG	ANK.	<u></u>		283	MIT NUMBE	ER DATE		<u>- 17</u>			TOTA	- DEI	TU.		
	<u>.</u>												IUIA	r ne	'I m:		



OFFICE USE ONLY REF NO.	DATE RECEIVED
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			OTINC					_	ENTE) DED									
			RTIF						Ph1	Ph2		Ph3		F.S.	ROVED BY		DATE	ROUTE	
INFOR	MA	TION	SUPPL	.IED	BY PR	RIMAF	RY CO	ONTR/	ACTOR	OR DR	RILL	ING CO	NTRA	CTO	R	A CONTRACTOR			200 m
OWNERN	AME													NUMB	ER		VA	RIANCE C	RANTED
Amere:		SS						CITY	,						104	<u></u>		DNR	
1901 C			Ave						Louis			j	STATE		ZIP CODE		Dro	Yes. Attac vide numb	h a copy or er of variance.
SITE NAMI	E				· · · · -			<u></u>	Louis	CONTAC	CT NA	ME	МО	!_	63166				
Labadio			Plant							Paul F	Pike								
SITE ADDR										CITY					ST	ATE	ZIP	CODE	
226 Lal	Dus	e Pov	ver Plai	at Ro	1., MC	LBD-	645	TVDE	OE DOTEN	Labad	lie				M	[0]	630	055	
☐ Gas I					Monitorir	na		!		s Materia	ı	⊠ La	ndfill					ALL THAT AF	
☐ Extra		_			Plezome	-		_		Assessm	••		U.S.T.	}	☐ Explo			-etroieum Metals	Products Only
										el Drawd				1	SVO				Herbicides
AREA 1		rank			@465				_			SM	ALLES	T		RGEST			TOIDIGIGOS
LOCATION					<u>w</u> 403		:		•				1/4		1⁄4		1/.		
Lat. 38_		_ •	33 ° 49	,	39	n		Se	ection 17	,	Tow	nship4			^		-	2 🖾 🖘	st 🔲 West
Long. 90			° 49		21.9	n								,, (d.)			range	_2 🖂 🖂	St MASt
TYPE OF	_		Above	Grou		NGTH C		SING	DIAMETE PROTEC	R OF TIVE CASIN	IG	DIAMETER THE HOLE				TECTIVE	× ×	Steel	LOCKING CAP?
SURFACE COMPLET		- 1	Flush N									CASING W			0,70,	ERIAL		Numinum	⊠ Yes
WEEP HOL	<u>=2 T</u>	l	ED CAP?				ft.			κ6 in.			2 ft.					Plastic	□ No
WEEF HOL	-'	VENTI			IGTH OF F UNT	·LUSH	MOU		FLUSH	HOLE F	'ER AI LUSH	ND DEPTH (MOUNT WA	OF THE	ED _	SURFAC		⊠ c	oncrete	
□ No	J	□ N							_						GROUT	TION	_		
	LEN	IGTH	DIAME	TER.	WEIGH	ft.	IAMET	ER OF	ft.	1	in.	· · · · · · · · · · · · · · · · · · ·		ft.				her	·
			"""		OR SDF		RILL H			_	herm	oplastic (B/C/	BEN	ITONITE	LENG1	TH OF	MATERIAL	
RISER PIPE	28	ft.	4 in.		40).85 ft		Oth			opiasus (. ,	SEA	L	3 ft.		Slurry	□Pellets lar □Chips
DETAIL	GLL				·					TER PAC	<u>-</u> _				DE	PTH	E(DESCRIPTION
		Yes		×	Saturate	ed Zon						ted 🛛 Ye	е П I	\\o	FROM	ТО		JINIATION .	DESCRIPTION
1	\boxtimes	No		-	Both Zo					☐ Yes ∣			» Ц	10	0	34	Ve	ry fine sa	nd, fine sand,
PRIMARY	ı	ENGTH	1	DEP	тн то то	P OF PF					_	TER PACK L	ENGTH		1		silt	, and clay	•
FILTER						•							,,,		34	35	Co	arse and l	Medium Sand
PACK		13.6	ft.			21	1.25	ft.				1.5	ft.		ľ				
	0	⊠ Ber	ntonite S	lurry			Ceme	ent/Ben	tonite SI	urry	LEI	NGTH			1 .				
ANNULAR SEAL	[☐ Nor	n Slurry E	3ento	nite Typ	е 🔲	Bags	of Cem	ent Use	d					1				•
JEAL	ł						% of I	Bentoni	ite Used										
									Bag 25		16	.8	ft.				1		
	LE	NGTH	DIA	METE		AMETER	₹ 0	EPTH TO		yaı.			-		}				
WELL SCREEN						F DRILL OLE		OP OF CREEN		Steel	X T	TERIAL nemoplas	stic (P	VC)	1				
OOKLEH	10) ft.	4"	ft	1	0.3 in.	1,	4.4 ft.		Other_		•		,	<u> </u>				
Multiple C						0.5 111					ation	Yes					1		
Submit a	_					howin													
size of al	l ca	sing,	hole dia	met	ers and	grout	used	d.	u douon	ucians	IIICI	ading typ	e and	1	TD:		1		
STATIC WAT			\sim	1					L DRILLIN	G WAS CO	MPLE	TED			35ft		1		
			ASURING F		·			0-05	11.40.00										
SIGNATURE PERIMARY CONTRACTOR) PERMIT NU 2876M							MBEK	•											
I hereby certify that the monitoring well herein described							was co	nstructe	d in	accorde	nce w	th				,			
the Department of Natural Resources requirements for th								e const	ruction o	of m	onitoring	wells							
SIGNATURE (MELLORILLER) PERMIT NUMBER 2836								UMBER	DATE	10-0		40					1		
SONATURE	APP	RENTIE	SAF	w				UMBER	DATE	10-1	<u> </u>	<u>u y)</u>			TO= -		<u> </u>		
		<u> </u>												- 1	TOTAL	_ DEP	TH:		
MO 780-1415	(06-0	(a) D	ETURN C	OHO	I ETEN E	CONT	O. 14												



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STATE WELL NUI		REVENUE NO		
ENTERED		APPROVED BY D	ATE ROUTE	and the second

					ION R				Phi	ERED	Ph2	Ph3	SECTION AND		ROVED BY		ATE	ROUTE	
INFOR OWNER N	MATI	ON	SUPPL	IED	BY PRII	MAR	Y COI	NTR/	СТО	R O	R DRILL	ING CO							ule:
Amere													WELL	NUMB	ER			RIANCE G	RANTED
OWNER A		S						CITY					106 STATE	<u> </u>	ZIP CODE			DNR Yes. Attac	h a copy or
1901 C		au A	ve.					St.	Louis				МО	- 1	63166				er of variance.
SITE NAM	_	D	14	-				_		- 1	CONTACT NA			1					· · · · · · · · · · · · · · · · · · ·
Labadio		er F	lant								CITY				l er	ATE	710.0	ODE	
226 La	badie	Pow	er Plan	ıt Rd.	, MC L	BD-	645			I	Labadie				1 -	IO	630		
PROPOSE									OF POTE	NTIA	L SITE				MONITORI	NG FOR:	(CHECK	ALL THAT AP	
☐ Gas I ☐ Extra			AA G II		onitoring iezomete		1				laterial sessment	⊠ La							Products Only
				2311	CZOMICK	13					sessment Drawdowr		U.S.T.		SVO			letals	□ VOC
AREA		JNTY			ELEVATIO	N			ato, Et	77011	Diawaowi		ALLES	T		RGEST		esticides/l	rerolcides
1 LOCATION		ınkli	<u>n</u>		@465'								14		¼ l	NIW/	L/	•	
Lat. 38_		•	33	_, .	38N	,,	ł	Se	ction 1	17	Tov	vnship4			% I		_	2 ⊠ Fac	st 🗌 West
Long. 90			48_		24W	TH O	<u> </u>												
TYPE OF SURFACE		Ø	Above	Groun			VE CASIN		DIAMET PROTE		E CASING	THE HOLE	PROTE	CTIVE	CASI		⊠s	iteel	LOCKING CAP? Yes
COMPLE			Flush M	lount			. .	Ì				CASING W	'AS PLA	CED	MATI	ERIAL		Juminum	□No
WEEP HOL	E? V	ENTE	D CAP?		TH OF FL		ft. DIAMET	ER OF	FLUSH	1x4		12 IN.	2 ft.		,	·		lastic	
Yes		₫ Ye		MOU	NT		MOUNT			'	HOLE FLUSI	MOUNT W	AS PLAC	ED	SURFAC		⊠ Co	ncrete	
□ No] No				ft.			ft	.	in) .		ft.	GROUT		☐ Ot	her	
	LENG	ГН	DIAMET	ER	WEIGHT OR SDR#	B	IAMETER RILL HOL	OF F	MATE							LENGT	H OF	MATERIAL	
RISER	00.		۵.	1	40	ı		_				noplastic (PVC)	SEA	ITONITE L	SEAL		⊠Slurry	·
PIPE DETAIL	28 ft.		2 in.			10	.69 ft.		0					_		3 ft.			lar Chips
DEIAIL	□ Ye				· oh watad	7					R PACK				FROM	PTH TO	FO	RMATION	DESCRIPTION
	⊠ No				oth Zone						e Hydra Yes ∐i	ited ⊠ Ye	s∐l	No	0	15	Cla	v Silt V	ery Fine &
	LEN	IGTH										TER PACK I	55		4			e Sand	ory ranc ac
PRIMARY FILTER								_,_,,	701	SEC	ONDART FI	LIER PACK	ENGIH		15	30			ine, Medium
PACK	13	3.3 f	t.			21	.7 f	ft.				1.6	ft.		30	35	j i	Coarse Sa	
	∣⊠	Bent	onite SI	urry			Cemen	t/Bent	tonite :	Slurr	y LE	NGTH			1~			e, Meaiui d, Fine G	m & Coarse
ANNULAR SEAL		Non	Slurry E	3enton	ite Type		Bags of	Cem	ent Us	ed_	!				1			,	
,,							% of Be	ntonii	te Use	d									
						Ø	Water U	Jsed/E	3ag 25	gal.	11	7.1	ft.						
14F) I	LENG	TH	DIA	METER		ETER		TH TO			M	TERIAL			1		1		
WELL SCREEN	İ				HOL			REEN	[St	ieel 🛛 T	hermoplas	stic (P\	/C)			}		
	10 ft		2"	ft.	8.2	5 in.	24.	7 ft.	_ [<u></u> Ot	ther	_							
Multiple C												n 🗌 Yes			ł				
Submit a	dditio:	nala na h	s built	diagn	ams sho	wing	g well d	const	ructio	n de	etails incl	uding typ	e and		l		1		
STATIC WAT				7 1	is and y	iout	1	E WELL	- DRILLI	NG W	'AS COMPLE	TED			TD: 35ft		1		ļ
			KIRMG F				10/								3311		l		
SIGNATORIE	PRIMA	Y CO	MRACTA	(R)				MIT NU '6M	MBER										
l hereby c	ertifu	hat	he mo	nitorir	ng well h	ereli			wae ^	onet	ructed i-	accorda	200 :1						
ine Depar	tmept	OI N	aturai F	Resou	rces req	uirer	nents f	or the	e cons	truc	tion of m	onitoring	wells				j		}
SIGNATURE	LU I		K)			28:	RMIT NUM	BER	DATE	11	120/0	0							
SIGNATURE (SMIT NUM	IBER	DATE		10,0				TOTAL	DED	TU.		
MO 780-1415	(DE 00)	DE	TUBLIC	OMBU	ETED FO	200 77	O. MELL	i iie ai							IOIAI		·п;		



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STATE WELL NUMBER	REVENUE NO:
ENTERED	APPROVED BY DATE ROUTE

		CE	RTIFIC	CATIC	N RE	COR	D		ERED Ph2						33.77 C	DATE	ROUTE	
INFOR	MAT	ION:	SUPPL	JED B	PRIM	ARY C	ONTR	ACTO	R OR DR	RILL	ING CO	NTRAC	STO	R	30			
OWNER N												WELL	UMB	ER			RIANCE G	RANTED
Amerei OWNER A		ss					CIT	Υ	·			108 STATE		ZIP CODE			DNR Yes. Attac	h a copy or
1901 C	houte	eau A	ve.				St.	Louis				MO	- 1	63166				er of variance.
SITE NAMI	_			• • •					CONTAC		ME			05100				
Labadio		ver P	lant						Paul I	ike								
226 Lal		Pow	er Plan	nt Raf	MCIB	D-645			Labad	ادم				- 1	ATE		CODE	
PROPOSE	D USE	OF WE	LL LL	it Itu.,	VIC DD	D-043		OF POTE	NTIAL SITE	116	 -	·	-	MONITORII		(CHECK	ALL THAT AP	PLY)
Gas I		-		☐ Mor	-				us Materia		🛛 La	andfill						Products Only
☐ Extra	ction '	Well		⊠ Piez	cometers	;			e Assessn			U.S.T.	- }	Explo			Metals	□ voc
AREA	CO	UNTY		EL	EVATION		100	/ater Le	evel Drawd	lown		ALLEST		SVOC	S RGEST		Pesticides/I	-lerbicides
1	1	ankli	n		465'													
LOCATION						_								% 1				
Lat. 38_ Long. 90		<u> </u>	33 48	', ₋ 38 ', 28	N	_,	S	ection]	17	Tow	mship4	44 Noi	rth			Range	_2 🛭 Eas	st 🗌 West
TYPE OF					LENG	H OF	4000		TER OF		DIAMETER	R AND DE	PTH		TECTIVE	N (Steel .	LOCKING CAP?
SURFACE		1 -	Above (FROIL	CIIVE	ASING	PROTE	CTIVE CASIN	NG	THE HOLE CASING W				NG ERIAL	-	Aluminum	⊠ Yes
COMPLET	HON	'	Flush M	lount	5	ft.		4	4x4 in.		12 in.	2 ft.					Plastic	□ No
WEEP HOL			D CAP?	LENGTI	OF FLUS	H DIA	METER O	F FLUSH	DIAMET		ND DEPTH O	OF THE		SURFAC	E	MC	oncrete	l <u>.</u>
⊠ Yes □ No	- 1	⊠ Ye							, noce	LUGH	MOOIA! AA	NO PLACE	D	COMPLE				
	<u>. l</u>	☐ No		F== 1 14		t.	<u> </u>			in.	<u> </u>		ft.	GROOT			ther	
-	LENG	i H	DIAMET		/EIGHT R SDR#	DRILL	TER OF HOLE	MATE	RIAL teel ⊠TI	ha	onloctic (,D,(O)	BEN	ITONITE	LENG SEAL	TH OF	MATERIAL	
RISER	28 ft		2 in.	4	0	۸ ۵۸	4		ther	Helli	iopiastic (PVC)	SEA		3 ft.		Siurry	□Pellets lar □Chips
PIPE DETAIL	GLUE		2 111.			0.69			ILTER PAC	- K				DE	PTH	1 5		DESCRIPTION
		'es		⊠ Sat	urated 7	one l			Zone H		ted M Va			FROM	TO		ORMATION	DESCRIPTION
İ	⊠ N	lo			h Zones				i ☐ Yes			25 LJ IV	10	0	11	Cla	ay & Silt	
DDIMADY	LE	NGTH		DEPTH :	TO TOP O				SECONDAR			FNGTH	-	11	15			Very Fine &
PRIMARY FILTER														15	26		ne Sand	
PACK	1	3.3 1	t.			21.7	ft.				1.6	ft.		1 13	20			Very Fine, m & Coarse
		Bent	onite SI	lurry		☐ Cen	nent/Ber	ntonite	Slurry	LEI	NGTH					Sai		in & Coarse
ANNULAR SEAL		Non	Slurry E	Bentonite	Туре	☐ Bag	s of Cer	nent Us	sed					26	35	Ve	ry Fine, F	ine, Medium
52712	1					□ % o	f Benton	ite Use	ed							& (Coarse Sa	nd; Gravel
	-						er Used		 -	17	'.1	ft.		1				
	LENG	зтн	DIA	METER	DIAME OF DR	TER T	DEPTH TO			MA	TERIAL	<u> </u>		1				
WELL SCREEN	1				HOLE		TOP OF SCREEN	Π	Steel	X TI	nermoplas	stic (PV	(C)					
	10	ft.	2"	ft.	8.25	in.	24.7 ft.	1	Other _	_	_]				
Muitiple C	ased '	Wells	☐ Ye	s 🛭 No)	Р	ump Ins	talled f	or Remedi	atior	Yes	i		TD:				
Submit a	dditio	nal a	s built	diagrar	ns shov	ving w	ell cons	structio	n details	incl	uding typ	e and		35ft				
size of all			ole dia	meters	and gr	$\overline{}$		_						l				
		1	SUFFING P	WINT.	•		DATE WEI 11/4	LL DRILL	ING WAS CO	MPLE	TED							
SIGNATION							PERMIT N	UMBER			· · · · · · ·			[
/10	4	/-/	an	<u></u>			2876M		·									٠
l hereby c the Depar	eftify	that	the moi	nitoring	well he	rein de	scribed	l was c	onstructe	d in	accorda	nce wit	h			1		·
SIGNATURE	N/EX	DRILLE	R) >	- Source	es redu		NUMBER	DATI		or m	onitoring	wells.				1		
1/ 8		M	Be	٠-		2836			11/20/	09								
SIGNATURE	APPR	MICE)			PERMIT	NUMBER	DATE	Ξ					TOTAL	DEF	TH:		
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OFFICE USE ONLY REF NO.	DATE RECEIVED
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			RTIFIC				ORD)	ENTER	ŒD	120				ROVED BY		ATE	ROUTE	a grand to the
INFOR	MA	TION	SUPPL	IED E	3Y PRI	MAR	Y.CC	NTR/	Ph1	Ph2 OR DR	RILLI	Ph3 NG COI	NTRA	CTO)R			<u> </u>	
OWNER N	IAME					<u> </u>							WELL	NUMB	ER			RIANCE G	
Amere:		FSS						CITY					110				BY	DNR	
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SITE NAM		1000 1	110.			~	 .	, DL.	Louis	CONTAC	CT NAM	ME	МО		63166		ــــٰـــ		
Labadio			lant							Paul F	Pike								
226 La	bad	ie Pow	er Plar	ıt Rd.,	, MC I	BD-	645			CITY Labad	lie				ST M	ATE	J	CODE 055	
PROPOSE	D US	E OF WE	LL							TIAL SITE								ALL THAT AP	PLY)
☐ Gas I		-	Well		onitoring	_	l			Materia		⊠ La							Products Only
LJ EXIIA	CuO	II VVOII			ezomet	ers				Assessm el Drawd		[_] L.(J.S.T.		SVO			Metals Pesticides/I	□ VOC Herbicides
AREA		COUNTY Frankli			ELEVATIO @465'	ON						SM	ALLES'	Г		RGEST			10.010.000
LOCATION					<u> </u>		_								¼ l	٧w	_ ¼		
Lat. 38_ Long. 90		°.	33 <u> </u>		38N 32W _	" "		Se	ction 17	·	Tow	nship4	4 No	rth			Range	_2 🛭 Eas	st 🔲 West
TYPE OF		7	Above (Ground	LEN PRO	IGTH O	F VE CAS	ING	DIAMETE	R OF IVE CASIN	IG	DIAMETER THE HOLE				TECTIVE	⊠:	Steel	LOCKING CAP?
SURFACE COMPLE			Flush M		1							CASING W	AS PLAC	CED	, -,	ERIAL		Aluminum	⊠ Yes
WEEP HOL	E?		D CAP?		TH OF FL		t.	ETER OF	4x	4 in.		12 in .	2 ft.					Plastic	□ No
⊠ Yes		⊠ Ye		MOUN			MOUN		ruoon	HOLE F	LUSH	MOUNT WA	S PLAC	ED	SURFAC		⊠c	oncrete	
□ No		☐ No)			ft.			ft.		in.			ft.	GROUT		П о	ther	_
	LEI	NGTH	DIAMET		WEIGHT OR SDR#		AMETE		MATERIA			···				LENG	TH OF	MATERIAL	
RISER	•			1	40						herm	oplastic (PVC)	SEA	ITONITE L	SEAL		⊠Slurry	
PIPE	28	It. JED	2 in.	L		0	.69 ft.		Oth						-,	3 ft.			lar
DETAIL		Yes	ŀ		-44-					TER PAC					FROM	PTH TO	F	ORMATION	DESCRIPTION
		No			aturated oth Zon					one H ∐ Yes		ed ⊠ Ye	s ∐ 1	No	0	20	اند ا⊤	lt Clay&	Very Fine
	_	ENGTH										TER PACK L	=110=11		<u>.</u>			nd	· ory rano
PRIMARY FILTER						.			AOK S	LCONDAN	(I FILI	IER PAGN L	ENG I IT		20	35			Very Fine,
PACK		13.5 f	t			21	.75	ft.				1.5	ft.		ĺ		Sa		m & Coarse
	[Bent	onite SI	urry			Ceme	nt/Ben	tonite SI	urry	LEN	IGTH			1) Sa	ш	
ANNULAR SEAL	(☐ Non	Slurry B	entoni	ite Type	• 🗆 I	Bags (of Cem	ent Use	d	ŀ				Į į				
							% of B	Bentoni	te Used						1				
						Ø١	Vater	Used/i	3ag 25	gal.	17.	.25	ft.						
WELL	LE	NGTH	DIAI	METER	OF	METER DRILL		PTH TO				TERIAL			1				
SCREEN	1,	١. ٥٠	0"		HO			CREEN	ı	Steel D	≱] Th	ermoplas	tic (P\	/C)					
Multiple C		ft. d Wells	2" ☐ Ye			25 in.		4.9 ft.			ation	_ ☐ Yes							
Submit a						owing											1		
size of al	ca	sing, h	ole dia	njeter	s and	grout	used			dotans	11 1010	iding typ	e and		TD:				
STATIC WAT		4	SURING A	Z IXT				TE WELL /4	DRILLING	G WAS CO	MPLET	ED			35ft		Ì		
			NTBACK				PE	RMIT NU	MBER	<u></u>									
/ hot	4	/r		` .				76M									İ		
I hereby certify that the monitoring well herein described wa the Department of Natural Resources requirements for the c								was cor e constr	nstructe ruction o	d in a	accordar onitoring	ıce wi wells	th					i	
SIGNATURE (TIELL DRILLER) PERMIT NUMBER									DATE	11/20/0				一					
SIGNATURE (APPI	CONTRACTOR	in	رح		28: PER	36 MIT NU	MBER	DATE	יועטויו	<i>, ,</i>				TOTAL		<u> </u>		
MO 700 144E			TURN C	0145-					ĺ						TOTAI	_ DEP	TH:		



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					ION F			32		ED .				APF	ROVED BY	200		ROUTE	
INFOR	MAT	ION	SUPPL	JED	BY PR	IMAR'	Y CONT	RACT	OR	OR DR	IL L	ING CO	NTRA	CTO)R		71. 7 Sec.	300	
, OWNER	WINE												WELL	NUME	BER	4-7-1004-215	VA	RIANCE G	RANTED
Amere OWNER A		28											112				BY	DNR	
1901 C			٨٧٨				I -	ITY					STATE	- 1	ZIP CODE			Yes. Attac	h a copy or er of variance.
SITE NAM	E	cau z	176.				8	t. Lou	118	CONTAC	T A14	NAE	MO		63166		Pic	Wide Hullio	er of variance.
Labadi		ver P	lant							Paul F									
		_	701							CITY					ST	ATE	ZIP	CODE	
226 La	DUSE	OF WE	er Plai	nt Rd	., MC I	<u> _BD-6</u>	45	- OF D		Labad	ie					(O -		055	
☐ Gas				Пм	onitorin	a				Materia		5 21	J&III					ALL THAT AF	
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_										el Drawd		_	J.S. I .		☐ Explo		_	Metais	□ voc
AREA		UNTY		T	ELEVATION	ON		Trator		JI DIAWU	OWI		ALLES	 -!		RGEST		Pesticides/l	Herbicides
1		ankl	in		@465'														
LOCATION													_¼ _		% l	۷W	_ ¼		
Lat. 38_ Long. 90		~ °.	33 <u> </u>		38N 36W	" "		Section	n 17 _.		Tov	vnship <u>4</u>	4 No	orth			Range	_2 🛭 Eas	st 🔲 West
		T	40_	<u> </u>	3044	NGTH OF	<u> </u>	DIAN	METER	? OE		DIAMETER	AND	COTIL	oc ppo				
TYPE OF SURFACE		Ø	Above (Groun	d PR		E CASING			IVE CASIN	G	THE HOLE	PROTE	CTIVE	CASI	TECTIVE NG		Steel	LOCKING CAP?
COMPLE			Flush M	lount								CASING W	AS PLA	CED	MATI	ERIAL		Aluminum	⊠ Yes
WEEP HOL	F2 1	VENTE	D CAP?	LENG	STH OF FL	5 ft		<u> </u>	4x4	4 in.		12 in . 2		_				Plastic	□ No
⊠ Yes	- 1	⊠ Ye		MON		.USH	DIAMETER MOUNT	OF FLU	SH	HOLE FL	ER A LUSH	ND DEPTH C I MOUNT WA	OF THE US PLAC	ED	SURFAC		⊠ c	oncrete	
□ No	- 1 '	□ No													COMPLE GROUT	TION			•
	LENG		DIAMET	ED.	WEIGHT	ft.			ft.		in			ft.	-			ther	
	LL11C		DIAME		WEIGHT OR SDR		METER OF ILL HOLE		TERIA	_				REN	ITONITE	LENG SEAL	TH OF	MATERIAL	
RISER	28 ft	.	2 :	I	40	1.		- 1			ıem	noplastic (f	PVC)	SEA		1		Slurry	
PIPE DETAIL	GLUE		2 in.			1 0.0	59 ft.		Othe		_					3 ft.			lar Chips
DETAIL	□ Y									TER PAC						PTH	F	ORMATION	DESCRIPTION
1												ted 🛭 Ye	s 🔲 1	Vo	FROM 0	16	┦ ".		
	⊠ N	0			oth Zon					☐ Yes [ľ	10			Very Fine &
PRIMARY	LE	NGTH		DEPT	н то тор	OF PRIM	ARY FILTE	R PACK	SE	CONDAR	Y FIL	TER PACK L	ENGTH		16	31	1	ne Sand	S
FILTER PACK	١.	• • •														-	Sai		ine & Mediun
		2.9 f				22.						2.4	ft.		31	35			ine, Medium
	1	Bent	onite Si	urry			ement/B	entonit	e Slu	irry	LEI	NGTH							nd; Gravel
ANNULAR SEAL		Non	Slurry B	enton	ite Type	. 🗆 в	ags of Ce	ement	Used	1									and, Graver
	1					□ %	of Bento	nite i l	has]				
			•						_		17	' 1	ft.						
-	LENG	TH	DIA	METER	DIA	METER	ater Use		23 g	aı.									
WELL			1			DRILL	TOP OF	٠		Stool 5	MA 7 Tu	TERIAL nermoplas	# - /D\	/					
SCREEN	10.				ľ			`			וו וצ	iermopias	uc (FV	<i>(</i> C)			1.		
	10 f		2"			25 in.	25 ft.			Other _		-							
Multiple Ca												☐ Yes					-		ĺ
Submit a	dditio	nala	s built (diagra	ams sh	owing	well cor	struct	ion (details i	nclu	uding type	e and						ļ
SIZE OF ALL	ER LEV	ig, n	ole dial		rs and (grout L		=							TD:				
FEE	T FRQA	MEN	LUNG P				11/4	ELL DRI	LING	WAS COM	(PLE	TED			35ft				ł
SIGNATURE							PERMIT	NUMBER	₹						.				-
	4/	10	l-				2876N	A						ŀ	1				
hereby certify that the monitoring well herein describ							describe	d was	con	structed	l in	accordan	ce wi	h					
ne Department of Natural Resources requirements for								the construction of monitoring wells.						1		1		į	
	<i>ZI</i> .			/		J	AIT NUMBEI	R DA		/20/0	· (0				1				j
SIGNATURE (APPRE	NTICE)	711		<u> </u>	283	6 IIT NUMBER	R DA		, 2/0	<u> </u>						<u>L</u>		
								"	-					- }	TOTAL	. DEP	TH:		
AO 780-1415 (00 001	DE	TUDN C	OMOL !	ETED EO	DIA TO	14/51 1 1 1												



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		CEF	RTIFIC	CATIO	N RE	COR	D	F2235737533283	POSTERNATION OF THE STREET	Ph3	77 h. 200 h	医性性结合性 医多种性 医二甲基甲基	0	ATE		19 (8)				
INFOR	MA7	rion (SUPPL	IED BY	PRIM/	ARY C	ONTRA	ACTOR	OR DR	ILLING CO	NTRA	CTC)R			e de la companya de l				
OWNER N											WELL	NUME	ER			RIANCE G	RANTED			
OWNER A		SS					CITY				114 STATE		ZIP CODE	<u>.</u>		DNR Yes. Attac	h a copy or			
1901 C			ve.					Louis			MO	- 1	63166		pro/	ide numb	er of variance.			
SITE NAME				,			1 200	L/4/10	CONTAC		1710	!_	03100				<u> </u>			
Labadie			lant		,				Paul P	ike				-		1				
SITE ADDR			Dian	ן בתג	40 t Di	· (45			CITY	•				ATE	1	ODE				
226 Lat	DUSI	e Pow	er Pian	it Ka., iv	IC LBI)-043		OF POTEN	Labad	ie		- 1	MONITORII		630		DI V\			
☐ Gas N	Moni	toring \	Well	☐ Moni	toring			azardou	ı ⊠.∟	andfill.				CHECK ALL THAT APPLY) S						
☐ Extra	ction	ı Weli		☑ Piezo	ometers		│ □ Ini	itial Site	Assessm	_	.U.S.T.	}	☐ Explo			/letals	□ voc			
						<u> </u>	□ w	ater Lev	el Drawd	own			Svoc			esticides/l	_			
AREA		ounty rankli			VATION 465'		T			SI	MALLES	_	LA	RGEST						
LOCATION			<u></u>		103		-				1/4 _		% N	√W	14					
Lat. 38		_ • ;	33	' _38N	·'	, -	Se	ection 17	7	Township					2 🛛 Eas	st 🔲 West				
Long. 90			48	<u>' 40V</u>	V	"	<u> </u>									L LOOKING CAPO				
TYPE OF			Above C	Ground		CTIVE C	ASING	DIAMETE PROTEC	R OF TIVE CASIN	G THE HOL	R AND DE	CTIVE		rective Ng		iteel	LOCKING CAP?			
SURFACE COMPLET		1	Flush M							CASING	WAS PLAC	CED	MATE			luminum	⊠ Yes □ No			
WEEP HOL			D CAP?		OF FLUSH	ft.			in.	14 in.			PV	<u> </u>	⊠P	lastic	□ 140			
WEEP HOLI		VENTEL	1	MOUNT	OF PLUG		METER OF UNT	F FLUON		ER AND DEPTH LUSH MOUNT V		ED	SURFAC		⊠ Co	ncrete	_			
□ No	- 1	□ No			£	.				_		-,	GROUT	TION	□ Ot	her				
		IGTH	DIAMET	FR WE	ft EIGHT		TER OF	ft.		in.		ft.		LENGT		MATERIAL				
1	1				SDR#	DRILL				nermoplastic	(PVC)		NTONITE	SEAL	HUF	MATERIAL Slurry				
RISER	28	ff.	4 in.	40)	0.85	4	Ott		Minisp	`` <u>`</u>	SE/	AL	3 ft.			iar □Chips			
PIPE DETAIL	GLU					0.00			TER PAC	<u>—</u>			I DEI	PTH	FC		DESCRIPTION			
]	Π.	Yes	i	⊠ Satu	rated Z	nne [ydrated 🛛 Y		ulo.	FROM	TO	士一	J. 1	<u> </u>			
	_ ⊠≀			☐ Both					☐ Yes i	-	с э <u></u> .	VU.	0	25			Very Fine &			
	1 1	ENGTH		DEPTH TO						Y FILTER PACE	' FNGTH		٦, ١	25	Fin	e Sand	•			
PRIMARY FILTER			1		• • •	• • • • • • • • • • • • • • • • • • • •	• • • -		V	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\ latarva		25	35			ine, Medium			
PACK		13.2 f	ft			21.6	ft.			1.5	ft.		ļ		l & C	Coarse Sa	nd; Gravel			
	D	☑ Bent	tonite SI	ипу		Cem	ent/Ben	tonite S	lurry	LENGTH			1							
ANNULAR	۱ ر	∃Non	Slurry E	entonite					•	1			1		1					
SEAL			•			-	Bentoni						1							
										17.1	ft.		[
	LE	NGTH	DIA	METER	DIAMET		DEPTH TO		gaı.				4							
WELL					OF DRI	LL	TOP OF SCREEN		Steel	MATERIAL Thermopia	estic (P)	/C)	┨							
SCREEN	10		1	••	l				Other_	M Homop.	aout (i	,,,	i j							
-4:Hiplo C	10		4"		10.3 i		24.5 ft.				····	_	i j							
Multiple Ca				s 🛭 No						ation ☐ Ye			4							
								truction	details	including ty	/pe and	l	TD.			•				
size of all casing, hole diameters and grout used. STATIC WATER LEVEL DATE WELL									G WAS CO	MPLETED			TD: 35ft							
FEET FROM MEASURING POINT 11/12																				
SIGNATURE CONTRACTOR) PERMIT 2876N								JMBER					1							
I hereby certify that the monitoring well herein descri									-44-	••										
the Depar	tme	nt of N	atural F	nicornig i Resource	wen ner es requi	remen remen	scribeu ts for th	was co e consi	nstructed truction o	d in accord of monitorin	ance wi Ia wells	th								
SIGNATURE	Ø€Ū	L DRILLE	(R)	7	1	PERMIT	NUMBER	DATE / /					1							
		M	ik	<u> </u>		2836		11/20/09												
SIGNATURE (APPR	(ENTICE))			PERMIT	NUMBER	DATE		TOTAL DEPTH:										
				AUDI ETE																



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			RTIFIC				D	ENTER					APPI	ROVED BY		ATE .	ROUTE	
INFOR	MA'	TION :	SUPPL	IED BY	PRIM	ARY C	ONTRA	Ph1	Ph2 OR DR	<u> </u>	Ph3	ITRA	CTO	P ·			a vi	
OWNER N	AME	angere e e	**************************************						ONDIN	احاطا	140.001	WELL	NUMBI	R ER	Burtley (1)		RIANCE G	
Ameren	ì										l			116			DNR	MAINTED
OWNER AL				•			CITY					STATE		ZIP CODE		10,	Yes. Attac	h a copy or
1901 C		teau A	lve.				St.	Louis			ļ	МО	- 1	63166		prov	vide numb	er of variance.
SITE NAME Labadie		wer P	lant						Paul P		ME							
SITE ADDR				_					CITY					STA	ATE	ZIPC	CODE	
226 Lat				t Rd., I	MC LB	D-645			Labad	ie				M	0	630)55	
PROPOSEI							I		TIAL SITE				T			CHECK	ALL THAT AP	
Gas N		-		☐ Mon	•		. —		s Material	-	🛭 Laı		ı	□ Radio	nuclide	s 🔲 P	etroleum I	Products Only
☐ Extra	ctior	1 Well		⊠ Piez	ometers	3	l		Assessmel Drawde		□ L.U	J.S.T.		☐ Explos			/letals Pesticides/l	☐ VOC Herbicides
AREA		OUNTY rankli			EVATION 465'						SMA	ALLES'	Γ '		RGEST		03401063/1	Terbroades
LOCATION	1		ш	1 (4)	403		-					1/4		% N	JW	1/.		
Lat. 38		•	33	., 34	,		Se	ection 17	,	Tow	 nship4			^ -		_	2. ⊠ Fas	st 🔲 West
Long. 90		-	49	' 23.		n											_~	
TYPE OF	_		Above (Ground	PROT	TH OF ECTIVE (ASING	DIAMETE PROTEC	R OF TIVE CASIN	IG	DIAMETER THE HOLE	PROTE	CTIVE		FECTIVE NG	⊠s	Steel	LOCKING CAP?
SURFACE COMPLET		1 -	Flush M								CASING W	AS PLA	CED	MATE	ERIAL		Numinum	⊠ Yes
WEEP HOL	E0 1		D CAP?		5 1 OF FLUS	ft.		42	κ4 in.			2 ft.				P	Plastic	□ No
WEEP HOL	=	VENTE		MOUNT			AMETER OF	F FLUSH			ND DEPTH O		ED	SURFAC		⊠ Co	oncrete	-
□ No														COMPLE GROUT	TION		her	
		IGTH	DIAMET	ren Lu		ft.		ft.	<u> </u>	in.			ft.					-
	LEI	МОІП	DIAME		ÆIGHT R SDR#		TER OF	MATERI		ha	oplastic (F	D.(O)	BEN	ITONITE	LENGT SEAL	HOF	MATERIAL	
RISER	28	4	2 in.	4	0	١, ,,	. ~			161111	opiastic (i	PVC)	SEA		2 44		Slurry	
PIPE DETAIL		JED	2 m.			0.69			er TER PAC						3 ft.			ılar
		Yes		⊠ cat	uratad '									FROM	PTH TO	FC	DRMATION	DESCRIPTION
l	_	No			h Zones				Cone Hy ☐ Yes		ted 🛛 Ye	s 📙 i	NO	0	25	\neg	ry Fine a	nd Fine Sand,
		LENGTH												₫.			y and Sil	
PRIMARY FILTER	'	LENGIA		DEPIR	10 102 0	r PRIMA	RYFILIER	PACK	SECONDAR	RY FIL	TER PACK L	.ENGTH	l	25	30		•	i Fine Sand,
PACK	Ì	13.5	ft.			21.5	ft.				1.7	ft.					t, and Cla	•
	1		tonite S	lurry			ment/Ber	ntonite S	lurry	LEN	NGTH	74		30	35			Gravel, Trace
ANNULAR	- [•	•			gs of Cen		•						 	Cla	ıy Balls a	nd Silt
SEAL] '		oluriy t	Jen Konnik	s i ype													
							of Benton			16	Q	ft.						
	Ц.						ter Used		gal.	10		14.						
WELL	LE	NGTH	DIA	METER	OF D		DEPTH TO TOP OF		104 6		TERIAL			1				
SCREEN					HOLE		SCREEN	1 -		ZJ II	nermoplas	stic (P	VC)			1		
11.00) ft.	2"		8.25		24.7 ft.		Other _	_								
Multiple C				s 🛭 N						_	¹ ☐ Yes			.				
Submit a size of al	l ca	ısing, I	as built hole dia	diagrai meters	ms sho and g	wing w rout us	vell cons ed.	struction	n details	incl	uding typ	e and	t					
STATIC WAT NA FEET I			JRING PO	INT			DATE WEI 9-29	LL DRILLIN	IG WAS CO	MPLE	TED			TD:				
SIGNATURE	4	7 / / /	//	11			PERMIT N	UMBER	···-					35ft				
1/hh	m	//1/	wh				2876M	[
I hereby o	ert	fy that	the mo	nitoring	well h	erein d	escribed	was co	nstructe	ed in	accorda	nce w	ith]				
the Depar	tme	DRILL	vatural .ER)	Kesour	ces req		nts for t			of m	onitoring	wells	3.]				
	4	1M	13 11	be s.	İ	2836		50,15	10-1	اکر -	09		÷			1		
SIGNATURE	(APF	RENTIC	E)				T NUMBER	DATE						TOTA	I DEC	TH.		
		_ <i>V</i>												IJIA	- <i>D</i> EF	17.		,



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					ON RE		D	ENTER			Photos Control	APPI	ROVED BY		ATE	ROUTE	<u> </u>
INFOR	VA.	TION S	SUPPL	IFD F	RY PRIM	ARY C	ONTRA	Ph1	Ph2	Ph3 ILLING CO	MTDA	CTO			and the second		
OWNER N	AME		,,, <u> </u>	يا جادا	2.1.84 (X)191	م∵اريت	ONLIV	io i on	CNUN	ILLING CO	WELL				110	ANCE C	RANTED
Ameren	1												116	3	BYD		KANIED
OWNER AL	DDRE	SS					CITY				STATE	т.	ZIP CODE	<u>- </u>		es. Attac	h a copy or
1901 C		teau A	ve.				St.	Louis			МО	ļ	63166		provid	dmun ét	er of variance.
SITE NAME Labadie		wer Pi	lant						Paul P								
SITE ADDR						· .			СПҮ				ST	ATE	ZIP CO	DE	
226 Lab	oadi	e Pow	er Plan	t Rd.	, MC LB	D-645			Labad	ie			М		6305	5	
PROPOSEI							1		ITIAL SITE				MONITORII				
☐ Gas N					onitoring	_	, —		s Materia		andfill						Products Only
	GUUI	i vveii		וא בו	ezometers	•	1		Assessm el Drawd		U.S.T.	ĺ	☐ Explo		⊠ Me		□ voc
AREA	С	OUNTY			ELEVATION	<u> </u>	1 - 1	ater Lev	ei Diawu		MALLES		SVOC	RGEST	Pe	sticides/i	Herbicides
1		rankli	n		@465'		_]										
LOCATION							1 _	16	•				% N		_		
Lat. 38 Long. 90		`.	33 <u> </u>	_		, ,	Se	ction 1	/	Township	44 No	orth		ı	Range _2	∶⊠ Eas	st 🗌 West
TYPE OF		121	Above C	2roum	LENG [*]	TH OF ECTIVE C	ASING	DIAMETE	R OF TIVE CASIN	DIAMETE G THE HOL				TECTIVE	⊠ Ste	eel	LOCKING CAPT
SURFACE					۱ ا					CASING V				ERIAL	_	ıminum	⊠ Yes
_			Flush M	ount	5	ft.		4:	x4 in.	12 in.	2 ft.				☐ Pla		□ No
WEEP HOLI	E?		D CAP?	LENG	TH OF FLUS		AMETER OF	FLUSH	DIAMET	ER AND DEPTH LUSH MOUNT W	OF THE	<u> </u>	SURFAC	Ε	⊠ Con	oroto	
⊠ Yes	J	⊠ Ye				"	,,,,,,		, note a	LOSIT WOONT V	AS PLAC	EU	COMPLE				
□ No		□ No)			ft.		ft.		in.		ft.	GROUT		☐ Othe	er	_
.	LEN	NGTH	DIAMET	ER	WEIGHT OR SDR#		TER OF HOLE	MATER	· · · · ·		-	OEN	ITONITE	LENGT SEAL	- 1	MATERIAL	_
RISER				ľ	40	i				nermoplastic	(PVC)	SEA		ļ		Slurry	
PIPE	28		2 in.		40	0.69	ft. Other SECONDARY FILTER PACK							3 ft.		Granu	ular Chips
DETAIL		JED												PTH	FOF	MATION	DESCRIPTION
	_	Yes								ydrated 🛭 Y	es 🔲 I	No	FROM 0	14	┥		
	M	No			oth Zones				☐ Yes				ľ	1 4	Very	/ Fine S	and, Clay an
PRIMARY	1	ENGTH		DEPT	н то тор о	FPRIMA	RYFILTER	PACK	SECONDAF	Y FILTER PACK	LENGTH		14	30		and Va	ry Fine Sand
FILTER PACK			_										1	i		and Cla	
		13.5 1				21.7	ft.			1.8	ft.		30	35			Fine, Mediun
		⊠ Ben	tonite SI	urry		☐ Cer	nent/Ben	tonite S	lurry	LENGTH							Sand, Trace
ANNULAR SEAL	1	□ Non	Slurry B	Bentor	nite Type	☐ Bag	s of Cem	ent Use	ed				ĺ		Grav	el, Trac	ce Silt and Cl
						□ % o	f Bentoni	ite Used	l						ļ		
						⊠ Wat	ter Used/	Rag 25	nal	16.9	ft.						
	LE	NGTH	DIA	METER		TER	DEPTH TO		gui.	MATERIAL			-				
WELL	l		1		OF DI HOLE		TOP OF SCREEN	F	Steel	MATERIAL ☑ Thermopla	stic (P	VC)					
SCREEN	10	O ft.	2"	ft.	8.25	in.	24.9 ft.		Other _		(*	-,	<u> </u>				
Multiple C								talled fo	r Remedi	ation	s		1 1				•
Submit a	ddi	tional a	as built	diagr	ams sho	wing w	ell cons	truction	n details	including ty	pe and	<u> </u>			İ		
size of al	I ca	ising, h	ole dia	mete	rs and g	out us	ed.										
STATIC WAT NA FEET I				[]				L DRILLIN	IG WAS CO	MPLETED			TD:		ł		
SIGNATURE							9-29 PERMIT NI	IMPED					35ft				
	1	11/4					2876M										
I hereby d	ert	fy that	the mo	nitori	ng well h	erein d	escribed	was co	nstructe	d in accord	ance w	ith	1 1				
the Depar	tme	ent of N	latural F	Respi	ırces req	uireme	nts for th	e cons	truction	of monitorin	g wells	B]				
SIGNATURE		LYDRILLI	ER)	<u>/</u> /			NUMBER	DATE		> aO]		1		
SIGNATURE	APF	RENTICE	71L	درر		2836 PERMIT	NUMBER	DATE	10-1	2-09					<u> </u>		
		0	••						-				TOTA	L DEF	TH:		
NO 700 444E	100				ETED FOR												



OFFICE USE ONLY REF NO.	DATE RECEIVED
C.R.NO.	CHECK NO.
STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

	_				i WELL ON RE	_	D	ENTER	RED		3.4	APPI	ROVED BY	D	ATE	ROUTE	40000
MEOR	MA.							Ph1	Ph2	Ph3 ILLING COI					1/2 / J/A		
OWNER N	AME	I IVIT	SUFFE	JEV D	I PRIMA	KI U	UNIKA	MIUN	OK DKI	LLING CU	NTRA WELL			1.00 167	1) (4	SIANOF C	
Amerer	a												20			RIANCE G DNR	RANTED
OWNER A		ESS					CITY		<u>. </u>		STATE		ZIP CODE		\neg	Yes. Attac	h a copy or
1901 C		teau A	lve.				St. J	Louis	CONTACT	TNAME	МО		63166		pro	vide numb	er of variance.
Labadie			lant						Paul Pi				1 67		1		
226 Lat	badi	ie Pow	er Plan	ıt <u>Rd.,</u>	MC LB	D-6 <u>45</u>			Labadi	ie			M M	ATE O	1	CODE 055	
PROPOSEI	D US	E OF WE	LL					OF POTEN	TIAL SITE			\Box	MONITORIN	NG FOR: ((CHECK	ALL THAT AF	
Gas M		_	Well		nitoring		_		Material		andfill						Products Only
☐ Extra					zometers		1		Assessme	_	U.S.T.		☐ Explos			Metals Pesticides/	☐ VOC Herbicides
AREA 1	- 1	rankli			LEVATION						ALLEST	Г		RGEST		-	10101217
1 LOCATION			ın		<u>2</u> 465'		4				1/4		% N	JW.	14		
Lat. 38 Long. 90		°,	33 49	'36	δ		Se	ction 17	' 7	Township4					_	_2 🛭 Ea	st 🔲 West
TYPE OF					LENGT			DIAMETE		DIAMETER				TECTIVE			LOCKING CAP?
SURFACE	=	_	Above (PROTE	CTIVE CA	SING	PROTECT	FIVE CASING	G THE HOLE CASING W	E PROTE	CTIVE	CASII			Steel Aluminum	⊠ Yes
COMPLET	ION		Flush M	lount	5	ft.		6	in.		2 ft.	-		Jurie		Aluminum Plastic	☐ No
WEEP HOL	E?	VENTE	D CAP?		H OF FLUS	H DIA	METER OF		DIAMETE	ER AND DEPTH	OF THE		CUBEAC			 -	<u>L</u>
⊠ Yes		⊠ Ye		MOUNT	Г	MOU	JNT		HOLE FL	.USH MOUNT W	AS PLAC	ED	SURFAC COMPLE		⊠ C	oncrete	
□ No	\perp	□ No)		f	t.		ft.		in.		ft.	GROUT			ther	_
	LEN	NGTH	DIAMET		WEIGHT OR SDR#	DIAMET DRILL H		MATERIA						LENGT	'H OF	MATERIAL	
2:000			ĺ			Drie.	1012	ľ		ermoplastic ((PVC)	BEN SEA	ITONITE L	SEAL		⊠Slurry	
RISER PIPE	28		4 in.		40	0.85		Oth		-				3 ft.		☐Granı	ular □Chips
DETAIL		JED							TER PACE	***************************************				PTH	F	ORMATION	DESCRIPTION
- 1	_	Yes							-	/drated ⊠ Ye	es 🔲 N	Vo	FROM 0	9 TO	┦ ૣ,	~ ~ ~	
	X	No			th Zones				☐ Yes [١٠	7	Ca	ay & Silt	
PRIMARY	Ţŀ	LENGTH		DEPTH	TO TOP OF	PRIMARY	Y FILTER F	PACK S	ECONDARY	Y FILTER PACK I	LENGTH		9	27	Ein	ne Sand	
FILTER PACK						, ,									1	le Sanu	÷
	_	13.6				21.3	ft.			1.6	ft.]				
	. _		tonite SI	•				tonite SI	٠ ١	LENGTH			27	35	$ _{C_0}$	arse Sand	i
ANNULAR SEAL	[□ Non	Slurry E	3entonit	te Type [☐ Bags	of Cem	ient Use	d								•
					(□ % of	Bentoni	ite Used					1				
					ſ	☑ Wate	er Used/i	Bag 25	gal.	16.7	ft.						
	LE	NGTH	DIA	METER	DIAME	TER	DEPTH TO		<u> </u>	MATERIAL			f [
WELL SCREEN					OF DRI HOLE		TOP OF SCREEN		Steel 🗵	Thermopla	stic (P\	/C)	1				. ,
-	10) ft.	4"	ft.	10.3	in	24.6 ft.		Other								
Multiple Ca	_			s 🛛 N						ation 🗌 Yes			1				
Submit a	ddit I ca	ional a sing. I	as built role dia	diagra	ms show	ing we	ell const	truction	details i	including typ	pe and	1	TD:				
STATIC WAT	ER LI	EVEL	\sim)) unc 3-			L DRILLING	G WAS COM				35ft				
NA FEET F							10-22						[
SIGNATOR	PPA	MARYA	DNTRACTO	OR)			PERMIT NU 2876M	JMBER									
I hereby c	Z_/ ertij	f√ that	the mo	nitorine	a well he	rein de:	scribed	mae co		d in accorda	wi	48.					
the Depart	tme	intof N	latural F	Resour	ces requi	irement	ts for th	e const	ruction o	o in accorda of monitoring	nce 🕶	in					
SIGNATURE	NY.	DRILL	ER)			PERMIT I		DATE									}
SIGNATURE (NYV/	M			2836 PERMIT N	**********	DATE	- 26-0	19							
3101011011C	,ru · .		=)		1	PERMIT	NUMBER	DATE					TOTAL	L DEP	'TH:		
10 700 4445					TED CODE												,



REF NO. C.R. NO. CHECK NO. STATE WELL NUMBER REVENUE NO.	
STATE WELL NUMBER REVENUE NO.	
ENTERED APPROVED BY DATE ROUTE	ę.,

	С	ER	ΓIFIC	CATIO	N RE	COR	D	27550250354	STATE OF THE STATE OF THE	14 8 8 3 3	Ph3	10.00		ROVED BY		DATE	工程以外	
INFOR OWNER N	MATIO	N SL	JPPL	IED BY	PRIM	ARY C	ONTR	ACTO	OR DE	SILL	ING CO	NTRA	CTC	R	12 of 300			
Amere												22		ZZ			RIANCE G	RANTED
OWNER A	DDRESS			_	_		CITY	,				STATE		ZIP CODE		$\dashv \Box$	Yes. Attac	h a copy or
1901 C		ı Av	e				St.	Louis				МО		63166		pro	vide numb	er of variance.
Labadie SITE ADDE	e Power	r Pla	nt						Paul I									
		ower	Plan	ıt Rd., M	CIE	D_645			Labac	1:_					TATE	i	CODE	
PROPOSE	D USE OF	WELL		it 100., 14	IC LL	D-043		OF POTE	VTIAL SITE			-	1		MO RING FOR	(CHECK	ALL THAT AF	PLY)
Gas		-		☐ Monit	_		1		s Materia			andfill						Products Only
☐ Extra	ction We)II		☑ Piezo	meter	5			Assessn			U.S.T.		☐ Expl	•		Metals Pesticides/i	☐ VOC
AREA	Fran				VATION 165'							IALLEST	Γ		ARGEST			101010100
LOCATION				1 66	103		-					_¼ _		¼	NW_	1/4		
Lat. 38_ Long. 90		° 33	18	', _35N ' 59V	/	" "	Se	ection 1	7	Tow	vnship4	44 No	rth				_2 🛭 Eas	st 🗌 West
TYPE OF		⊠ At	ove C	Ground		TH OF ECTIVE C	ASING	DIAMETI	R OF TIVE CASIN	vG	DIAMETER THE HOLE				OTECTIVE	Ø:	Steel	LOCKING CAP?
SURFACE COMPLET	:		ush M				İ				CASING W	AS PLAC	CED		TERIAL	_	Aluminum	⊠ Yes □ No
WEEP HOL	E? VEN	ITED C	AP?	LENGTH	5 OF FLUS		METER O	4 F ELUSH	x4 in.	TER A	12 in. ND DEPTH (F	Plastic	
Yes	⊠	Yes		MOUNT		MC	UNT		HOLE F	LUSH	MOUNT W	AS PLAC	ED	SURFA		⊠c	oncrete	
□ No		No				ft.		ft.		in	•		ft.	GROUT			ther	
	LENGTH	1	DIAMET		IGHT SDR#	DIAME	TER OF HOLE	MATER			-		251	ITONITE	LENG	TH OF	MATERIAL	
RISER	28 ft.	1,	١	40	1					hem	roplastic ((PVC)	SEA	NTONITE AL	ŀ		⊠Slurry	
PIPE DETAIL	28 π.		in.			0.69		Ot	ner	<u></u>				1 5	3 ft.	1		lar □Chips
	☐ Yes		ļ	⊠ Satu	rated 2	one l				_	ted 🔲 Ye	-	Ja	FROM	EPTH TO	F	ORMATION	DESCRIPTION
	⊠ No		ļ	☐ Both					_ Yes			\$S □ 1	NO	0	10	Sil	t/Clay/VI	Sand
PRIMARY	LENG	тн		DEPTH TO	TOPO						TER PACK	LENGTH		10 13	13		ey Clay/S	ilt
FILTER PACK	1													30	35		7-F Sand arse Sand	
- 1 AOR	13.8					21.4	ft.			Lie	1.3 NGTH	ft.		1			arse sand	
ANNULAR			ite Sl	•			nent/Ber		•		NGIR							
SEAL		on Si	urry B	entonite		_												
							f Benton			17	7 1	ft.		ľ	1	1		
	LENGTH		DIA	METER	DIAME		DEPTH TO		gal.			10.		4				
WELL SCREEN					OF DE	RILL	TOP OF SCREEN		Steel (TERIAL hermopla:	stic (PV	/C)	1				
SCREEN	10 ft.		2"	ft.	8.25	in.	24.9 ft.		Other_		_		-,	İ	1			
Multiple Ca		ells [s 🖾 No				talled fo	r Remedi	iatior	T ☐ Yes			TD: 35ft				
Submit a	dditiona	ıl as	built (diagram	s sho	wing w	ell cons							3311				
SIZE OF ALL	casing	, hol	e dia	meters a	and gr	out use	ed.							ļ	}			
NI FEET FR			POW	Į			DATE WEL 11/14	L DRILLIN	IG WAS CO	MPLE	TED							
SICHATIVE	PRIVATO	PONT	Ryloto	PR)			PERMIT NO	JMBER						l				
hereby &	ertile th	at the	mor	nitorina v	vell he		2876M	was co	netructo	d in	accorda	200 144	4 h	i				
the Depart	tment, o	f Nati	ural R	esource	s requ	iremen	ts for th	e cons	truction	of m	onitoring	wells.		1	1			
SIGNATURE	MARIA DRI	LLER) Maj	,]			2836	NUMBER	DATE	11/0/11	00)							
SIGNATURE (APPRENT	(E)	Œ	~			NUMBER	DATE					TOTAL DEPTH:					
MO 780-1415	(DE DO)	DÉTI	IDN C	OMDI ETE	D FOR	M TO: V	ver i ve i		FOTION	\	ION DO E						 .	



OFFICE USE ONLY	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

					TION R			Ph1	RED DH2	N.S.V	Dh2		APP	ROVED BY	2	ATE	(* A	terretor.
INFOR OWNER N	MAT	ON S	SUPPL	.IED	BY PRIM	/ARY	CONTR	ACTO	ROR DE	RILL	NG COI	NTRA	CTC)R				
Amere												WELL	NUME	ER				RANTED
OWNER A		s					CIT	Υ				24 STATE		ZIP CODE			DNR Yes. Attac	h a copy or
1901 C		au A	ve.				St.	Louis				МО	- 1	63166		prov	vide numb	er of variance.
SITE NAM	_					-			CONTAC		ME							
Labadi		ver P	lant						Paul I	Pike				1 5-				
226 La	badie	Pow	er Plar	ıt Rd	l., MC LI	3D-64	5		Labad	lie				M	ATE	630	ODE	
PROPOSE	D USE	OF WE	ഥ					OF POTE	NTIAL SITE								ALL THAT AF	PPLY)
Gas I		-	Vell		Monitoring				ıs Materia		🛛 La			☐ Radio	nuclide	s 🗆 F	etroleum	Products Only
│	CUON	/veii		K) F	Piezomete	rs			Assessn		□ L.U	J.S.T.		☐ Explo			/letals	□ voc
AREA	1	UNTY		Ţ	ELEVATION		<u> </u>	rater Le	vel Drawd	own		ALLES		SVOC	S RGEST		esticides/	Herbicides
1 LOCATION	_ i	ankli	n		@465'		_											
Lat. 38	OF WE		22	,	SENI	n		1	7	_				% I				_
Lat. 36_ Long. 90		<u> </u>	33 <u> </u>	<u> </u>	35N 55W	_ "	3	ection 1	7	low	nsnip <u> </u> 4	4 No	orth			Range	_2 ⊠ Ea	st 🗌 West
TYPE OF		N	Above (Grouir	LENG PRO	TH OF	CASING	DIAMET	ER OF	VG.	DIAMETER THE HOLE	AND DI	EPTH		TECTIVE	⊠ s	iteel	LOCKING CAP?
SURFACE COMPLET			Flush M						TIVE CAOM	"	CASING W	AS PLA	CED		NG ERIAL		luminum	
					_ 5				x4 in.		12 in. 2	2 ft.					lastic	□ No
WEEP HOL		YENTE	CAP?	MOL	GTH OF FLU JNT		IAMETER O	F FLUSH	DIAMET HOLE F	TER AN	ND DEPTH C	OF THE	ED.	SURFAC		⊠ Co	ncrete	·
□ No	1 "	⊒ No												GROUT	HON		her	
	LENG		DIAMET	FR	WEIGHT	ft.	ETER OF	ft.		in.			ft.		1			
					OR SDR#		L HOLE		eel 🖾 Ti	herm	oplastic (I	PVC)		NTONITE	LENGT SEAL	H OF	MATERIAL Solution	
RISER	28 ft	. 1	2 in.		40	0.69) ft.	□ Ot			-p	,,,	SEA	NL	3 ft.		1	lar Chips
DETAIL	GLUE	<u> </u>						ECONDARY FILTER PACK							PTH	FC		DESCRIPTION
	□ Ye	es		⊠ :	Saturated	Zone	☐ Unsa	turated 2	Zone H	ed 🛛 Ye	s 🔲 1	Vo.	FROM	ТО				
	⊠ N∈	0			3oth Zone				☐ Yes			_		0	16			Very Fine
PRIMARY	LEN	NGTH		DEPT	гн то тор с	F PRIMA	RY FILTER	PACK	SECONDAR	RY FILT	TER PACK L	ENGTH		16	25	Sar		T! 0 1
FILTER PACK	١.,													25	35	1	•	Fine Sand ine, Medium
	_	3.3 ft				22	ft.			T 1 F4	1.9	ft.		4				ind; Gravel
ANNULAR			onite SI	-			ment/Ber		=	LEP	IGTH .							,
SEAL		Non S	Slurry B	ento	nite Type	☐ Bag	gs of Cen	nent Us	ed									
						□ % 0	of Benton	ite Used	.		_							
						☑ Wa	ter Used	/Bag 25	gal.	17	.1	ft.]				
WELL	LENG	TH	DIA	METER	OF D		DEPTH TO TOP OF				TERIAL]		1		
SCREEN					HOLE		SCREEN		Steel [⊠ Th	ermoplas	tic (P\	/C)			ł		
	10 ft		2"		8.25		25 ft.		Other _]				
Multiple Ca			☐ Ye						r Remedi					}				
Submit ac size of all	dditioi casir	nala: na bo	s built (ale die)	diagi mete	rams sho ers and gi	wing w	vell cons	truction	n details	inclu	iding typ	e and	l	TD:				
STATIC WAT	ER LEVI	EL		7	no and gi	out us		L DRILLIN	IG WAS COI	MPLET	ED			35ft				
			yking/				11/11									ļ·		
SIGNATURE	RIMA	y cen	VIVACTO	R)			PERMIT NO 2876M											
hereby	ertift/	that t	he mor	nitori	ng well b	aroin d			mater 4-	al !								
he Department of Natural Resources requirements for the									was constructed in accordance with e construction of monitoring wells.							}		
SIGNATURE	WEYYD 'Z	RILLER	₹)	T		PERMI	NUMBER	DATE		7]				
IGNATURE (1.11	VIIDE/	11	u		2836 PERMIT	NUMBER	DATE	11/20/	109								<u>.</u>
		0												TOTAL				
10 780-1415	(06-00)	RET	THEN C	MPI	ETED FOR	M TO	WELLUE	D DDOT	TOTION O	FOTI	<u> </u>	<u> </u>						



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OFFICE USE O	MFA	YED:	
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ER NO			
PSTATEVE PAUMER	REVENUEN	0	
REMIERED CO.			
Phil Par	APAROVE.)	BY DATE ROL	IF of

SILEON					V Lane Lane	agentique property			HT2		Ph3	100			3.44	ESSENTIAL PROPERTY.		Committee of the
OWNER N	MAI	ION	SUPPL	JED BY	PRIM	ARY C	ONTR	ACTOR	OR DR		NG CO	NTRA	CTO	R		F152 163		
1												WELL	NUMB	ER		VA	RIANCE G	RANTED
Amerei												126				BY	DNR	
OWNER A							CIT	Y				STATE	1	ZIP COD	Ē			h a copy or
1901 C		eau A	ve.				St.	Louis			,	МО].	63166		pro	vide numb	er of variance.
SITE NAMI									CONTAC		E				-			
Labadie		ver P	lant_						Paul P	Pike								
SITE ADDF	RESS								CITY			_			STATE	ZIP	CODE	
226 Lat	badie	Pow	er Plar	it Rd., N	MC LBI	D-645			Labad	ie				- 1	MO	630	055	
PROPOSEI							1	OF POTEN					T				ALL THAT AF	PPLY)
Gas M			/Vell	☐ Moni	-		🗆 н	azardous	Material	i	🛛 La	ndfill	i	☐ Ra	dionuclid	es 🔲 f	Petroleum	Products Only
☐ Extra	ction	Well		☑ Pieze	ometers		📗 🔲 In	itial Site	Assessm	ent	□ L.0	U.S.T.			olosives		Vietals	□ voc
							İΠν	/ater Leve	el Drawd	own			i	•	ocs			Herbicides
AREA		UNTY		1	VATION		1				SM	ALLES	T		LARGEST		001101007	. 10.0.000
1		ankli	n	@	465'		1											
LOCATION							1					_¼ _		14	NW	¼		
Lat. 38		' _ ° _	33	'351	<u>'</u>	•	S	ection 17	· ·	Town	ship4	14 No	orth			Range	_2 🛛 Ea	st 🔲 West
Long. 90		 -	48_	' 52V		<u>"</u>	<u> </u>											
TYPE OF			Above (Ground	PROTE	H OF CTIVE CA	SING	DIAMETEI PROTECT	R OF IVE CASIN		DIAMETER THE HOLE				ROTECTIVE		Steel	LOCKING CAP?
SURFACE		1			ļ					- 1	CASING W			, -,	ASING ATERIAL		Aluminum	⊠ Yes
COMPLET	ION	⊔	Flush M	tount	5	ft.	- 1	6	in.		ıı in	. 4		P	VC		Plastic	□ No
WEEP HOLI	E?	VENTE	CAP?	LENGTH	OF FLUSH		METER O	F FLUSH			14 in. D DEPTH (<u> </u>
Yes		⊠ Ye	s	MOUNT		MOI					MOUNT WA		ED	SURF		⊠ Co	oncrete	
☐ No		_ □ No												GROU	LETION		thor	
					fl			ft.		_in.			ft.	_			ther	_
	LENG	HIE	DIAMET		EIGHT R SDR#	DIAMET DRILL I	ER OF	MATERIA	_							TH OF	MATERIAL	
DIOTE								☐ Stee	el 🛛 Th	nermo	plastic (PVC)	SEA	ITONITE	SEAL		⊠Siurry	Pellets
RISER PIPE	27 f	t.	4 in.	40	, I	0.85	ft.	Oth	er						3 ft.		☐Granu	ılar 🏻 Chips
DETAIL	GLU	D					SECON	DARY FIL		K				1	DEPTH			DESCRIPTION
1		'es		⊠ Satı	rated 7			turated Z			d M Va			FRO			514111717017	DESCRIPTION
	Ø N	lo.			Zones							» Ц і	NO.	0	20	Sil	t Clay&	Very Fine
		-						ydrated	-							Saı		vory i me
PRIMARY	"	NGTH	- 1	DEPTH T	O TOP OF	PRIMAR	Y FILTER	PACK S	ECONDAR	Y FILTI	ER PACK I	ENGTH		20	30			Very Fine &
FILTER PACK	1.							İ						ł			ne Sand	vay rime &
1701	_ I	3.9 f	i.			20.3	ft.				1.3	ft.		30	35			ind, Medium
		Bent	onite SI	urry	[☐ Cem	ent/Ber	ntonite SI	urry	LEN	GTH							ind; Gravel
ANNULAR	_	Non	Slurry F	Sentonita				nent Use	-					1	1	~ (Coarse 25	uiu, Gravei
SEAL	-	, , , , , , ,	O.G., , L											l	ł			
					[」 % of	Benton	ite Used						İ				
				•	٥	☑ Wate	r Used/	/Bag 25 g	al.	16		ft.		l	1			
	LEN	GTH	DIA	METER	DIAMET	ER I	DEPTH TO		,	MAT	EDIAL			1				
WELL			1		OF DRI		TOP OF SCREEN		Steel 2		ERIAL	etic (P)	/C)	ĺ	1	Ì		
SCREEN	10		1 400	. .		- 1				3 ///	Jimopia.	3 (i)	,,			ł		
	10		4"	ft.	10.3 i	n. / 2	23.8 ft.		Other _		•					ļ		
Multiple Ca	ased	Wells	☐ Ye	s 🛛 No		Pı	ımp ins	talled for	Remedia	ation	☐ Yes					ļ		
Submit ac	dditio	nal a	s built	diagram	s show	ing we	II cons	truction	details i	inclu	ding typ	e and			1	ĺ		
size of all	cas	ing, h	ole dia	meters :	and gro	ut use	d.				g typ	o unc	•	TD:	1	1	÷	
STATIC WATE				N			ATE WEL	L DRILLING	WAS CON	MPLET	ED .			35ft		1		
			OF NG P				1/11							3310		1		
SIGNATURE	FFW)	94/CO	TRACT)(k)		P	ERMIT N	UMBER					_]		
		491	w			_ 2	876M								i	ı		
hereby c	ertify	that t	he mo	nitoring	well her	ein des	scribed	was cor	structed	d in a	ccorda	nce wi	th		1	1		
the Depart	tmen	t of Na	atural F	Resource	s requi	rement	s for th	ne constr	uction o	f mo	nitoring	wells	."					
SIGNATURE (<i>Y</i>	DRILLE	R) 🕨	/		PERMIT	NUMBER	DATE	11/20	7								
11 7	Z	in	110	4		2836			ושוי	09					1			
SIGNATURE (APPR	NTICE)				PERMIT	UMBER	DATE			··· -· ·			TOT	AL DE	TH:		
40 700 444F 1	00 00	DE	THEN C	OMB! ==		46												·
AO 780-1415 (UD-U9)	KE	IUKN C	UMPLET	:U FOR#	10: W	ELLHE/	AD PROTE	CTION S	ECTIO	N. PO. B	OX 25	D. RO	LLA. MC	65402 5	73-368-	2466	



OFFICE US	EONLY	OATERECENED	ing the second	AND AND AND A
CR NO		CHECK NO		Total Control of the
STATE WELL NUMB	ER .	REVENUE NO.		
ENTERED		APPROVED BY	DATE I	ROUTE
Ph1 Ph2	Ph3			

OWNER AME American Variance Granted Variance G					CATIC				Ph1	Dh/	Ph3	Cappa and	28		14.7	DATE //	ROUTE	
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CONTACT NAME CONT				ve														
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TYPE OF SURFACE Above Ground PROTECTIVE CASING PROTECTIVE C)	— `.	33 49	, _32\ , 32\	}	" "	Se	ection I	′/	Township	44 No	orth			Range	_2 🖾 Ea:	st 🗌 West
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Mole Screen Steel Thermoplastic (PVC)		LEN	IGTH	DIA	METER)	<u> </u>	MATERIAL			1				
Multiple Cased Wells Yes No Pump Installed for Remediation Yes Submit additional as built diagrams showing well construction details including type and size of all casing, hole diagneters and grout used. TD: TATIC WATER LEVEL DATE WELL DRILLING WAS COMPLETED 11/7 TEST FROM MEASORING POWE 11/7 TOTAL DEPTH: TOTAL DEPTH:	WELL SCREEN							SCREEN		Steel [stic (P\	/C)	1 .		-		
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Submit additional as built diagrams showing well construction details including type and size of all casing, hole diagreters and grout used. STATIC WATER LEVEL FEET FROM MEASOFING POWY PERMIT NUMBER 2876M hereby certify that the monitoring well herein described was constructed in accordance with he Department of Natural Resources requirements for the construction of monitoring wells. IGNATURE (APPREMICE) PERMIT NUMBER 2836 DATE TOTAL DEPTH:	Multiple C	ased	Wells	☐ Ye	s 🛛 No		F		talled fo	r Remedi	ation 🗆 Yes					} .		
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			<u> </u>						i	_			1	IUTA	L DEP	fH:		



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		CE	RTIFIC	CATIC	N R	COR	RD.	ENTE	RED Ph2	10 S	Ph3			ROVED BY	1	DATE	ROUTI		Mark Control
INFOR	MAT	ION :	SUPPL	IED BY	PRIN	IARY (CONTR	ACTOR	OR DE	RILL	ING CO	NTRA	CTC)R					
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Amere:		SS					I cm							13	$\overline{\mathcal{O}}$	BY	DNR		
1901 C	houte	eau A	ve.				1	Louis				STATE	- 1	63166		pro	Yes. Attac vide numb	ch a copy or er of variance	а.
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LOCATION		ankli	n	<u> </u>	465'		-					1/		% l					
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TYPE OF SURFACE			Above (Ground		TH OF ECTIVE O	ASING	DIAMETE PROTECT	R OF FIVE CASIN	NG	DIAMETER THE HOLE	PROTE	CTIVE	OF PRO	TECTIVE NG	⊠ :	Steel	LOCKING CA	P?
COMPLET			Flush M	lount	_ ا	4.					CASING W	'AS PLA	CED	MATI	ERIAL,		Aluminum	⊠ Yes □ No	
WEEP HOL	E? \	VENTE	D CAP?		OF FLU		AMETER O	42 F FLUSH	4 in.	ΓFR A	ND DEPTH	2 ft.				F	Plastic		
⊠ Yes	1	⊠ Ye	s	MOUNT		MC	TAUC		HOLE F	LUSH	MOUNT WA	S PLAC	ED	SURFAC		⊠ C	oncrete		
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	hel		m	l-			2876M							İ					
I hereby c	ertify	that	the mo	nitoring	well h	erein de	scribed	was co	nstructe	d in	accordar	nce wi	th			1			
the Depar	tmen	t Qt'N	atural F	Resourc	es requ	ı <u>irem</u> er	nts for th	e const	ruction	of m	onitoring	wells				1			
	XI	UN	1/1/	Del		2836	, TOTAL	DATE	10-1	2-	09					-			
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OWNER A		-88		···-			CITY	,						132		BY	DNR	
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SITE NAM		toud 1	170.				ı Di.	LOUIS	CONTAC	CT NAMI	<u> </u>	МО		63166				or or variance:
Labadie SITE ADDE			lant						Paul F	Pike								
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l					R SDR#	DRILL H	OLE		n∟ el⊠Ti	hermo	nlaetic //	,,,,, l	BEN	TONITE	LENG1 SEAL	TH OF	MATERIAL	
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Submit a						ing we	in cope	truction	Remedia	ation	∐ Yes							
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	1	///	W/W				876M	J.III.										
l hereby c	ertif	y that	the moi	nitoring	well he	rein des	scribed	was co	nstructe	d in a	ccordar	ice wi	th					
the Depar	une	n to-tin	aturai k	Resource	es requi	rement	s for th	e consti	ruction o	of mor	nitoring	wells	•			ŀ		
4/02		M	1.1	5		рекмп г 2836	-UMBEK	DATE	71	30								
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1901 C	hout	eau A	ve.				St.	Louis			MO	- 1	63166				er of variance.
SITE NAMI								· -	CONTACT								
Labadio		ver Pl	ant						Paul Pi	ke					· · · · · · · · · · · · · · · · · · ·		
		Pow	er Plan	t Rđ.	, MC LE	D-645			Labadie	a		·	M	ATE	- 1	CODE 055	
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TYPE OF		1521	Above C	·	LENG	TH OF ECTIVE CA		DIAMETE	R OF IVE CASING	DIAMETER				TECTIVE	121	Steel	LOCKING CAP?
SURFACE		1 .			a		10.110	THOTEC	IVE CASING	THE HOLE CASING W				NG ERIAL		Aluminum	⊠ Yes
		<u> </u>	Flush M	ount	_ 5	ft.	İ	4x	4 in.	12 in.	2 ft.					Plastic	□ No
WEEP HOL	i i	VENTEC		LENG MOU	OTH OF FLUS	H DIA!	METER OF JNT	FLUSH	DIAMETEI HOLE FLU	R AND DEPTH (JSH MOUNT W/	OF THE	ED	SURFAC	E	⊠ c	Concrete	
⊠ Yes □ No	l l	⊠ Ye: □ No		ľ									GROUT	TION		Other	
	LENG		DIAMET	FR	WEIGHT	ft. DIAMET	ED OF	ft.		in.		ft.		Т			
ŀ		~~`` 	DIMINICI		OR SDR#	DRILL H				ermoplastic (PVC)	BEN	NTONITE	SEAL	TH OF	MATERIAL Slurry	
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İ	×۷	lo	Ì		oth Zones				☐ Yes ☐				0	8		lay/Silt/VI	F Sand
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	10		2"		8.25	in.	24.6 ft.		Other						1		÷
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Submit a size of all	dditio	onal a	s built (diagr	ams show	wing we	ell const	ruction	details in	ncluding typ	e and		35ft				
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NI FEET FF	<i>7// /</i>		//	f			1/10										
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I hereby		that	he ma	nito-i-	ng wall be		876M			in accorda		41.					
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TYPE OF SURFACE	=	⊠	Above	Ground	PROTE		ASING	PROTEC	TIVE CASIN	VG THE HOLI	R AND DE E PROTEC	TIVE		ROTECTIVE ASING	⊠	Steel	LOCKING CAP?	
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PRIMARY FILTER PACK ANNULAR SEAL WELL SCREEN Multiple Control Static Watt NI FEET FR SIGNATURE I hereby control the Depart	LEN 10 ased dditic	Yes No ENGTH 13.2 f Bent Non GTH ft. Wells onal ating, h VEL EASON DRILLE	DIA 2" Year Shuilt ole dia NGPOIN The molatural FR	DEPTH TO DEP	DIAMETOF DRILL HOLE 8.25 in show and growell heres required to the state of the st	PRIMAR 21.2 Cen Bag Wo Wat ER In. Pring we ut use ein de remen ERMIT 2836	In Unsaid of Yes, High representation of Certain Serice of Certain Serice of Benton of Benton of Screen of Benton of Screen of Benton of Screen of Benton of Screen of Benton of Screen of Benton of Screen of	turated z ydrated PACK PACK PACK PACK PACK PACK PACK PACK	Zone H Zone H Yes SECONDAR J Steel Other _ r Remedi details G was co	ydrated Yellydrated Yellydrated Yellydrated Yellydrated Yellydram No. RY FILTER PACK 1.9 LENGTH 16.3 MATERIAL Thermopla Including type MPLETED And In accordate of monitoring	ft. ft. stic (PV	(C)	FROM 0 8 16 16 TD: 35ft	DEPTH TO 8 16	SiGV	FORMATION ilt/Clay ley Clay/\	/F Silty Sand	



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				CATIO				PK	TERE	Ph?	Ph3		4		1300	arte.		
INFOR OWNER N	MATI	ON S	SUPPL	IED BY	PRIN	IARY	CONTR	ACT	OR C	OR DRIL	LING CO	NTRA	CTO	OR		and the	9,0	
Amere	MMC											WELL				VA	RIANCE G	RANTED
OWNER A		3				·	CIT	Υ				140 STATE		ZIP CODE			DNR Yes, Attac	h a copy or
1901 C	houte	au A	ve.				St	Loui	s			МО	- 1	63166				er of variance.
SITE NAM					-					CONTACT				05100	· · · · ·			
Labadi		er P	lant							Paul Pik	e 							
		Pow	er Plar	nt Rd N	AC LE	RD-64	5		4	Labadie				i i	ATE		CODE	
PROPOSED USE OF WELL TYPE OF POTENTIAL SITE														O NG FOR:	(CHECK	ALL THAT AF	PPLY)	
Gas		-	Veli	☐ Mon	•					Material	_	andfill						Products Only
☐ Extra	ction V	Veli		☑ Pieze	ometer	s				ssessmen	_	U.S.T.		☐ Explo		⊠ t	Vetals	□ voc
AREA	COU	NTY		ELE	VATION		<u> </u>	Vater L	<u>evel</u>	Drawdow		IALLEST		SVO			Pesticides/I	Herbicides
1		nkli	n		465'						SN	IALLES !		LA	ARGEST			
LOCATION						_						_¼ _		¼]				
Lat. 38_ Long. 90			33 <u> </u>	',		<u>"</u> "	S	ection	17_	To	wnship'	44 .No	rth			Range	_2 🛭 Eas	st 🗌 West
TYPE OF				Ower 1 and	LENG	TH OF	CASING	DIAME	TER (OF E CASING	DIAMETER				TECTIVE	M	Steel	LOCKING CAP?
SURFACE			Above ('''	COTIVE	CASIIVG	FROI	ECIIV	E CASING	CASING W			00	ING ERIAL		Aluminum	⊠ Yes
			Flush M	ount	5	ft.			4x4	in.	12 in.	2 ft.					Plastic	☐ No
WEEP HOL			CAP?	LENGTH MOUNT	OF FLU	SH D	AMETER C	F FLUS	H	DIAMETER	AND DEPTH	OF THE	=n	SURFAC	E	Mc	oncrete	<u> </u>
⊠ Yes □ No] Ye:] No				"				110221 200	11 1000141 447	NO PLACI		COMPLE				
- 140	LENGT	_				ft.			ft.		٦.		ft.	GROUT			her	
	LENGI	"	DIAMET		EIGHT R SDR#	DIAM	ETER OF L HOLE		ERIAL				BE	NTONITE	LENGT SEAL	TH OF	MATERIAL	_
RISER	27 ft.		2 in.	40)	0.60	۱.۵				moplastic (PVC)	SEA				Slurry	
PIPE DETAIL	GLUED					0.69			Other	ER PACK			_	I DE	3 ft.	٦		lar □Chips
1	☐ Ye	s	Ī	⊠ Satı	rated 2	one					ated 🛛 Ye			FROM	PTH TO		DRMATION	DESCRIPTION
	⊠ No)		☐ Both						Yes 🔲		s П I	10	0	25	Cla	ıv & Silt:	Very Fine &
PRIMARY	LEN	GTH		DEPTH TO	O TOP O						LŢER PACK I	ENGTH		┥			e Sand	, =====================================
FILTER									"		LILKI AOKI	LLINGTH		25	35			ine, Medium
PACK	13	.5 ft				21.25	5 ft.				1.2	ft.		1		&(Coarse Sa	nd; Gravel
	⊠ I	Bento	onite Sk	urry		☐ Ce	ment/Ber	ntonite	Slur	ry L	ENGTH			1				
ANNULAR SEAL	01	Von :	Slurry B	entonite	Туре	☐ Ba	gs of Cer	nent U	lsed .					1				
						□ % c	of Benton	ite Us	ed					ł				
							ter Used				7.1	ft.		ł				
	LENGT	Н	DIAN	METER	DIAM! OF DE	TER	DEPTH TO				ATERIAL			i .			. •	
WELL SCREEN					HOLE		TOP OF SCREEN		□s	teel 🛛 T	hermoplas	stic (PV	(C)	1				
	10 ft.		_ 2" :	ft.	8.25	in.	24.4 ft.	- 1		ther								
Multiple Ca	ased W	/ells	☐ Ye	s 🛭 No			oump Ins	talled	for R	emediatio	n 🗌 Yes			1		1		
Submit a	ddition	al a	s built d	diagram	s sho	ving w	ell cons				luding typ			1				
SIZE OF ALL	Casin	g, ho	ole diar	meters a	and gr	out us						<u>. – </u>		TD:				
			UKING PO	ou#		ľ	10/27	L DRILL	LING V	VAS COMPLI	ETED			35ft				
			ГРАСТО				PERMIT N	UMBER										
14	re/		In			[.	2876M											
hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.																		
SIGNATURE (WEIT/ORILLER) PERMIT NUMBER DATE																		
		n	1 Me	le .]	2836			- [[120/03	•		ı	1				
IGNATURE (APPREN	UCE)				PERMIT	NUMBER	DAT	E					TOTAL	. DEP	TH:		
AO 780-1415 (06 00)	DET	CUDN C	NIN ETE	0.500													



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OTATE MEL CANADORN	
STATE WELL NUMBER	REVENUE NO.
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ENTERED	APPROVED BY: DATE ROUTE
Fig. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	

					ON RE		RD.	ENTER	ÆD ∻ ∵		1951	APP	ROVED BY	C	ATE	ROUTE	
INFOR	MA.	TION :	SUPPL	IED B	Y PRIN	IARY (CONTR	ACTOR	OR DR	PH3	NTRA	CTC)R	215019	/iv 4 % %		
OWNER N	AME									-10. 100.00	WELL	NUMB	ER	er son a ser and a ser and		RIANCE G	
Amerei OWNER A		-66					CITY	,			42		42			DNR	h
1901 C			170				1	Louis			STATE	- I	ZIP CODE		pro	res. Aπaci vide numbe	h a copy or er of variance.
SITE NAMI	E	icau 7	170.				51.	Louis	CONTAC	T NAME	<u>MO</u>		63166		<u> </u>		
Labadio			lant						Paul F	ike	<u></u>						
226 Lal			er Plan	t Rd.	MCLE	RD-644	5		CITY Labad	ie			ST/	ATE		CODE 055	
PROPOSE	D US	E OF WE	LL			<u> </u>		OF POTEN					MONITORIN	PLY)			
Gas I		•			onitoring		☐ Hazardous Material ☐ Landfill ☐ Initial Site Assessment ☐ L.U.S.T.									Products Only	
∐ Extra	☐ Extraction Well ☐ Piezometers							iitial Site /ater Lev	_	.U.S.T.		☐ Explos			Metals Pesticides/⊦	□ VOC	
AREA 1	_	ounty rankli	-		LEVATION	·					MALLES	T		RGEST		CStroides/	TOTOLOGES
LOCATION	- 1			1 9	<u>@465'</u>	 -	-				¼ _		% N	1W	. 1/4		
Lat. 38_		<u> </u>	33 <u> </u>		9N 6W		Se	ection 17	7	Township			<u></u>			_2 🛭 Eas	st 🗌 West
Long. 90					LENG	TH OF		DIAMETE		DIAMETE				ECTIVE	1571.0	 Steel	LOCKING CAP?
SURFACE		1	Above (J PROI	ECTIVE (CASING	PROTECT	TIVE CASIN	IG THE HOL CASING			CASII MATE			Steel Aluminum	⊠ Yes
COMPLET	TION	⊔	Flush M	lount	5	ft.		42	k4 in.	12 in.	2 ft.					Plastic	□ No
WEEP HOL	E?		D CAP?	LENG1 MOUN	TH OF FLU IT	SH DI	AMETER O	F FLUSH		ER AND DEPTH LUSH MOUNT W		'ED	SURFAC	E	⊠ c	oncrete	
⊠ Yes □ No		⊠ Ye									no reno		COMPLE	TION			
	LEN	NGTH	DIAMET	FD	WEIGHT	ft.	ETER OF	ft.	<u> </u>	in.		ft.				ther	
			DIAMIL		OR SDR#		HOLE			hermoplastic	(PVC)		NTONITE	LENGT SEAL	IH OF	MATERIAL Slurry	
RISER PIPE	28	ft.	2 in.	Į.	40	0.69	ft.	Oth		, , , , , , , , , , , , , , , , , , ,	(,	SEA	NL	3 ft.		1	lar [Chips
DETAIL	GLU	JED						DARY FIL	TER PAC	K				PTH	F	ORMATION	DESCRIPTION
		Yes		⊠ Sa	aturated	Zone	Unsa	turated Z	one H	ydrated 🗌 Y	es 🔲	No	FROM 0	<u> 70</u>	┥		
	Ø				oth Zone			•	Yes	□ No			8	32		ay/Silt/SC ne Sand	
PRIMARY	\ \ \ \	ENGTH.	İ	DEPTH	1 TO TOP C	F PRIMA	RY FILTER	PACK S	SECONDAR	Y FILTER PACK	LENGTH		32	35		ry Coarse	Sand
FILTER PACK		13.0 1	ft.			22.1	ft.			2.0	ft.		1			-,	
	_		tonite SI	urry			ment/Ber	ntonite Si	lurry	LENGTH	- 16		1				
ANNULAR	۱ (□Non	Slurry E	Bentoni	ite Type		gs of Cen		•								
SEAL	-					□%0	of Benton	ite Used					İ				
						⊠ Wa	ter Used	/Bag 25	gal.	17.1	ft.]]				
	LE	NGTH	DIA	METER	DIAM OF D	ETER	DEPTH TO	0	<u> </u>	MATERIAL			1				
WELL SCREEN					HOLE	: -	SCREEN			∑ Thermopla	stic (P	VC)					
A 4 141 1 T) ft.	2"		8.25		24.8 ft.		Other _]				ĺ
Multiple C				s 🛛 N						ation Ye			TD:				ĺ
size of al	i ca	sing, h	is pullt Iole dia	ulagra Meten	ams sno s and g	wing w rout us	veii cons ed.	struction	aetails	including ty	pe and	1	35ft				
STATIC WAT	ER L	EVEL		771	<u> </u>		DATE WE	LL DRILLIN	G WAS CO	MPLETED							
NI FEET FROM MEASURING POINT // SIGNATURE (FITHMASK) CONTRACTOR							11/13 PERMIT N	UMRED .		 -							
That I we							2876M					1					
I hereby certify that the monitoring well herein the Department of Natural Resources requirem							scribed was constructed in accordance with										
SIGNATURE	PSF V	DRILLE	R)	/	es iad		T NUMBER	R DATE / /									
2) 8		m	ik	ب		2836		11/20/09									
SIGNATURE ((APP	RENTICÉ	i)			PERMIT	NUMBER	DATE					TOTAL	DEP	TH:		
140 700 4445	/O.O. O	(a) (D)		OND! C				AD DDG=									



OFFICE USE ONLY REF NO.	DATE RECEIVED
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ENTERED	APPROVED BY DATE ROUTE

		CEF		ON RI	_	ENTER Ph1	ED Ph2	Ph	41.01944		APPF	ROVED BY	C	DATE	ROUTE			
INFOR	MA	TION S	SUPPL	IED B	Y PRIM	IARY	CONTRA	ACTOR	OR DR	ILLING	CONT	RAC	CTO	R	77777		1-6. 1 20	
OWNER N	AME											ELL N			54 CH-21 C 54 C		RIANCE G	RANTED
OWNER A		SS					CITY	,			ST	ATE	Т:	ZIP CODE			∕ DNR ˈ Yes. Attac	h a copy or
1901 C		teau A	ve.				St.	Louis			М	O		63166		pro	ovide numb	er of variance.
SITE NAMI		Tron D	1						Paul F	T NAME						- 	 	-
SITE ADDR			lant			_			CITY	IKC				ST	ATE	ZIP	CODE	· · · · · · · · · · · · · · · · · · ·
226 Lal	badi	e Pow	er Plan	t Rd.,	MC LI	3D-64:			Labad	ie			•	M			055	
PROPOSE Gas I				Пис	-141			OF POTEN			-			MONITORING FOR: (CHECK ALL THAT APPLY)				
☐ Extra		-			nitoring zometer	s	☐ Hazardous Material ☐ Landfill☐ Initial Site Assessment ☐ L.U.S.T.							Radionuclides Petroleum Products Explosives Metals VO				
						•			el Drawd		L.U.3						Metals Pesticides/I	☐ VOC
AREA		OUNTY Tankli		- 1	LEVATION 2465'				_		SMALL	EST			RGEST		1 6546/463/1	ICIDIOGES
LOCATION	OF V	VELL			<i>y</i> 403						3	1/4		¼		1/4		
Lat. 38_ Long. 90		<u> </u>	33 <u> </u>	' _28 ' _16	8.7 6.3 _	" ,	Se	ection 17	<u>'</u>	Townshi						_	2 ⊠ Eas	st 🔲 West
TYPE OF		[X]	Above (Ground		TH OF	CASING	DIAMETE	R OF	DIA	METER AN	D DE	PTH (OF PROT	ECTIVE	Ø	Steel	LOCKING CAP?
SURFACE COMPLET		-	Flush M		'					- ,	ING WAS			MATE			Aluminum	⊠ Yes
WEEP HÖL	<u>=2 1</u>		D CAP?		TH OF FLU				6 in.	12 İ							Plastic	□ No
WEEF HOL	-	⊠ Ye		MOUN			AMÈTER OI OUNT	F FLUSH	HOLE F	ER AND DI LUSH MOU	EPTH OF T INT WAS P	LACE	ED	SURFAC		⊠c	oncrete	
☐ No	ł	☐ No				ft.		ft.		in.			_	COMPLE GROUT	IION	□o	ther_	
	LEN	NGTH	DIAMET		WEIGHT	DIAM	ETER OF	MATERI	AL.	111.		Т	ft.		LENG		MATERIAL	
DIOED			i	- 1	OR SDR#	DRILL	L HOLE	☐ Ste	el 🛭 Ti	hermopla	astic (PVC	c)	BEN SEA	TONITE	SEAL		⊠Slurry	
RISER PIPE	28		4 in.	L <u>'</u>	40	0.85			er				-		3 ft.		☐Granu	ılar 🏻 Chips
DETAIL		JED							TER PAC					FROM	TH TO	F	ORMATION	DESCRIPTION
		Yes No					Unsat				⊠ Yes (lo	0	10	\dashv	lt and Clay	
		ENGTH			oth Zone		If Yes, H							10	31			y ry Fine Sand,
PRIMARY FILTER		LINGIII		OEFIN	11010-0	'r rriiw	KI FILIEK	PACK	SECUNDAR	(Y FILTER)	PACK LEN	GTH		 		Si	lt and Clay	y.
PACK		13 ft.				21.7	ft.				1.7 ff	t.		31	35			lium, Fine and
	1	⊠ Beni	tonite SI	urry		☐ Ce	ment/Ben	ntonite S	lurry	LENGTH	1] j				and, Trace Clay Balls
ANNULAR SEAL	: t	□Non	Slurry E	Bentoni	te Type	☐ Ba	gs of Cen	nent Use	:d					j i		0.	avoi and	Jay Daiis
						□%	of Benton	ite Used						ľ				
						⊠ Wa	iter Used/	/Bag 25	gal.	17	ft.			1		1.		
WELL	LE	NGTH	DIA	METER	DIAM OF D	ETER RILL	DEPTH TO	<u> </u>		MATER				!				
SCREEN					HOLE		SCREEN	í	Steel	Them The Them	oplastic	(PV	(C)]]				•
	_) ft.	4"	•••	10.		24.3 ft.		Other _					j				
Multiple C		_		s ⊠ N			Pump Ins											
Submit additional as built diagrams showing size of all casing, hole diameters and ground the size of all casing.							sed.				ig type :	and						
STATIC WATER LEVELFEET PROVINEASURING POINT							DATE WEL 9-30	LL DRILLIN	G WAS CO	MPLETED				TD:				
SIGNATURE (PRIMARY CONTRACTOR)							PERMIT N	UMBER						35ft				
May 1 / Tonk						2876M												
I hereby certify that the monitoring well herein the Department of Natural Resources requirem						erein d uirema	lescribed	scribed was constructed in accordance with										
SIGNATURE (WELL DROLLER) PERM							T NUMBER	nts for the construction of monitoring wells. NUMBER DATE										
SIGNATION	I Stumber 28:							10-12-09										
J.O. OTTORE								DATE		ŕ			ĺ	TOTAL	_ DEF	TH:		-



OFFICE USE ONLY REF NO:	DATE RECEIVED
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		CEF	RTIFIC	CAT	ION RE	COR	D	ENTER Ph1	ED Ph2		Ph3	Yakit K	APP	ROVED BY	D	ATE	ROUTE	作。
		TION S	SUPPL	IED	BY PRIN	IARY C	ONTRA	CTOR	OR DR	ILLII	NG CO	NTRA		1.0			- 31 Lg 2 (1.37)	1985 PR 1995
OWNER N												WELL	_				RIANCE GI DNR	RANTED
Amerer OWNER A		SS				 -	CITY					STATE	14	ZIP CODE				n a copy or
1901 C	hout	teau A	ve.				St. 1	Louis				МО	- }	63166		prov	ide numbe	er of variance.
SITE NAME									CONTAC		1E				*			
Labadie SITE ADDE		wer P	ant	•					Paul P	1Ke	<u></u>	_		1.07		1 7100		
		e Pow	er Plan	ıt Rd	l., MC LE	RD-645			Labad	ie				M	ATE	630		
PROPOSE	D USE	OF WE	LL		, MC 1A	JD-043	TYPE OF POTENTIAL SITE							MONITORING FOR: (CHECK ALL THAT APPLY)				PLY)
Gas I		_			/lonitoring		☐ Ha	zardou	s Material	ı	🛛 La		ļ	☐ Radionuclides ☐ Petroleum Products On				
☐ Extra	ction	Weil		⊠P	Piezometer	S			Assessm		□ L.	U.S.T.		Explo:			letals	□ voc
AREA	C	YTAUC		_	ELEVATION	 -	<u> W</u>	ater Lev	el Drawd	own	SM	IALLES	<u> </u>	SVOC	S RGEST		esticides/l	-lerbicides
1		rankli	n		@465'													
LOCATION			, ·= ·						_					% N				
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TYPE OF		l⊠.	Above (Grour		TH OF ECTIVE C	ASING	DIAMETE	R OF TIVE CASIN		DIAMETER THE HOLE				rective NG	⊠s	iteel	LOCKING CAP?
SURFACE			Flush M		ŀ						CASING W	/AS PLAC	CED		RIAL	_	luminum	⊠ Yes □ No
WEEP HOL	E6	VENTE			_ 5				x4 in.		12 in .					P	lastic	
WEEP HOL	=	VENTE		MOL	GTH OF FLU JNT		METER OF UNT	FLUSH			ID DEPTH MOUNT W		ED	SURFAC		⊠ Co	ncrete	
□ No		□ No				ft.		4		1			eu	GROUT	HUN	☐ Oti	her	
<u> </u>	LEN	GTH	DIAMET	ER	WEIGHT		TER OF	ft.		in.		1	ft.		LENG	TH OF	MATERIAL	
					OR SDR#	DRILL		☐ Ste	el 🖾 Tr	hermo	oplastic ((PVC)		NTONITE	SEAL		⊠Slurry	
RISER PIPE	28	ft.	2 in.		40	0.69	ft.	□ Ott		_			SEA	\ L.	3 ft.		☐Granu	lar
DETAIL	GLU	ED				·	SECON	DARY FI	LTER PAC	К					РТН	FC	RMATION	DESCRIPTION
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	X I	No			Both Zone	s i	f Yes, Hy	/drated	☐ Yes		0			4	4 15	Cla		
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SIGNATURE PRIMITE CONTRACTOR) PERM								JMBER						1 !				
I hereby certify that the monitoring well herein describe																		
the Depar	tme	nt of N	atural F	nitori Reso	ing well h urces rea	erein de uiremer	escribed ats for th	was cons	onstructe truction	d in	accorda onitorina	nce wi	th					
SIGNATURE	MEY.	DRILLE	R)	/			NUMBER	DATE	,	/						1		
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226 Labadie Power Plant Rd., MC LBD-645									CITY	4:_					TATE		CODE			
PROPOSE	PROPOSED USE OF WELL								TYPE OF POTENTIAL SITE						IO	63055 R: (CHECK ALL THAT APPLY)				
Gas		-	Well	☐ Mo	_			☐ Hazardous Material ☐ Landfill								CHECK ALL THAT APPLY) S Petroleum Products Only				
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NI FEET FROM MANUFING POINT 11/9								L DRILLIN	G WAS CO	MPLE	TED		ı			i				
SIGNATURE (PRIMARY CONTRACTOR) PERMIT								JMBER	-		· _		\dashv							
							2876M		····				_]							
hereby certify that the monitoring well herein described the Department of Natural Resources requirements for the							was co	nstructe	d in	accordan	ce wit	h					•			
SIGNATURE	MIL S	DRILLE	R)	1	ey	PERMIT	NUMBER	DATE	uction C	<u>, m</u>	omtoring '	wells.								
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TYPE OF SURFACE	Ξ.		Above (PROT	ECTIVE C	ASING	PROTI	ECTIVE CASIN	NG	THE HOLE			CASII MATE			Aluminum	⊠ Yes
COMPLET	TION		Flush M	lount	5	ft.			4x4 in.		12 in.	2 ft.					Plastic	□ No
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□ No		□ No				ft.			ft.	in.	•		ft.	GROUT			ther	<u>-</u>
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RISER	204	.	2 :-		10		_		Steel 🖾 T	nem	oplastic ((PVC)	SEA		2 4		Slurry	
PIPE DETAIL	28 f		2 in.			0.69			Other					T per	3 ft.	 		lar Chips
DETAIL				M ca	turated '	7ana 1					4-150			FROM	PTH TO	+	ORMATION	DESCRIPTION
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PRIMARY FILTER				J_,	.0 .0. 0			, HOK	GEOORDA	IXT FIL	I EN PACK	LENGIN		16	35			ine, Medium
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size of al	I cas	ing, h	ole dia	meter	and gr	out us	ed.							TD:		1		
STATIC WAT			SURING P	DINT			DATE WE 11/14	LL DRIL	LING WAS CO	OMPLE	TED		÷	35ft				
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1/11	<u>//</u>	Ju	-		•		2876M									•		
i hereby d	ertif	that	the mo	nitorin	well h	erein de	scribed	was	constructe	ed in	accorda	ince w	ith]				
SIGNATURE	(WELL	DRILLE	R) 🕶	resour	ces requ		NUMBER		struction	of m	onitoring	g wells						
1/3	74)	ın	111	her	ļ	2836				109)							
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Labadi		wer P	lant						Paul	CT NAME Pike								
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226 La	badi	e Pow	ver Plan	nt Rd.,	MC L	BD-64			Labac				i	IO	- 1	055		
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	ong. 90 ° 48 ' 49W " YPE OF Above Ground PROTECTIVE CASING								R OF	DIAMET	ER AND D	EPTH	OF T PPO	TECTIVE	Steel LOCKING CAP?			
SURFACE	E				PRO	TECTIVE	CASING	PROTECTIVE CASING THE HOLE PROTECTIVE CASING WAS PLACED					CASI		M :		Yes	
COMPLE	DMPLETION Flush Mount 5 ft.								4x4 in. 12 in. 2 ft.					=NAL	☐ Aluminum ☐ No☐ No			
	EP HOLE? VENTED CAP? LENGTH OF FLUSH DIAMETE								R OF FLUSH DIAMETER AND DEPTH OF THE					Ε	☑ Concrete			
⊠ Yes □ No	Yes Yes								HOLE FLUSH MOUNT WAS PLACED					TION				
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RISER PIPE	281	ft.	2 in.	4	40	0.69	9 ft.	☐ Steel ☐ Thermoplastic (PVC) SE					NL	3 ft.		⊠Slurry □Granu	□Pellets lar □Chips	
DETAIL	GLU	ED							TER PAC	K			DE	PTH	F	<u> </u>	DESCRIPTION	
	<u>ا</u> ا			⊠ Sa	turated	Zone	☐ Unsat	turated Z	one H	ydrated 🛛 Y	′es 🔲 I	No	FROM	то	1			
	X	No.		□Во	th Zone	s	If Yes, Hy	ydrated	☐ Yes	□ No			0	10			Very Fine	
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FILTER PACK	1	3.3 f	.			21.5	ft.			•			10 25			ry rine, r nd	me & Mediu	
	_		onite Si	umv			ment/Ben	tonito SI		2 LENGTH	ft.		25	35			ine, Medium	
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Submit ac	dditic	nal a	s built d	diagrar	ms sho	wing w	vell const	truction	details	including ty	pe and						•	
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Helena Co	ei tii y	tof Na	iturai K	ntoring esourc	i well ni es real	srein a: Jiremei	escribed nts for the	ed was constructed in accordance with the construction of monitoring wells.			th			j				
пе рерап	men							R DATE / /										
ne Depart	well	DRILLER	₹)			PERMIT	NUMBER	DATE	1	1								
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LOCATION	ATION OF WELL											_¼ _		% I	vw_	_ 1/4		
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TYPE OF SURFACE	=	-	Above (Ground	PROT	ECTIVE C	ASING	PROTEC	TIVE CASIN	NG .	THE HOLE	PROTE	CTIVE	CASI		X St		LOCKING CAP? Yes
COMPLET	IPLETION Flush Mount 5 ft.								x4 in.			_		MAIL	ERIAL	L AI □ PI	uminum aetic	□ No
WEEP HOL	E?		D CAP?	LENG1 MOUN	TH OF FLU	SH DIA	METER OF	METER OF FLUSH DIAMETER AND DEPTH OF THE						SURFAC	-			<u> </u>
⊠ Yes		⊠ Ye		WOON	••	I MC	UNI	HOLE FLUSH MOUNT WAS PLACED						COMPLE		⊠ Cor		
□ No		☐ No				ft.	ft. in. f					ft.	GROUT		Oth	er	-	
	LEP	IGTH	DIAMET		WEIGHT OR SDR#	DIAME	HOLE Steel S Thermoplastic (PVC)					BEN	ITONITE	LENG' SEAL	TH OF	MATERIAL		
RISER	28	ft.	2 in.	.	40	0.69	<u>"</u>	SE					SEA		3 ft.		Slurry	□Pellets lar □Chips
PIPE DETAIL		JED				1 0.02			TER PAC	<u></u>				DF	PTH	FO		DESCRIPTION
		Yes		⊠ Sa	aturated .	Zone [Unsat	urated 2	Zone H	ydrate	ed 🛛 Yes		10	FROM	ТО			DECORUM MON
	\boxtimes	No			oth Zone		☐ Unsaturated Zone Hydrated ☑ Yes ☐ No If Yes, Hydrated ☐ Yes ☐ No							0	25			and, Fine San
PRIMARY	· '	.ENGTH		DEPTH	TO TOP C	F PRIMAF	Y FILTER	PACK	SECONDAF	RY FILT	ER PACK L	ENGTH		25	30		and Clay	
FILTER PACK	ł	13.3 1	.			21.5	•										y rme, r Coarse S	ine, Medium, Sand
	_		tonite SI	LIFD!	···	21.5	ft.			LENG	1.6	ft.	· ·	30	35			ine, Medium,
ANNULAR				-	to Time		nent/Benį s of Cem		•									Sand, Trace
SEAL	'	14011	Sidily E) GI ILUI II	re rype]]		Grav	vei	
							Bentoni			16.9	9	ft.						
	LE	NGTH	DIA	METER	DIAM		er Used/l		gal.	<u> </u>								
WELL SCREEN					OF DI HOLE	RILL	TOP OF SCREEN	<u> </u>	Steel		ERIAL emoplas	tic (P\	/C)	{ !				
SCREEN	10	ft.	2"	ft.	8.25	in.	24.5 ft.		Other_				-,					
							alled fo	r Remedi	iation	☐ Yes			1					
Submit a	ddit	ional a	as built	diagra	ams sho	wing w	ell cons					e and		1				
SIZE OF AI	l ca	sing, h	ole dia	meter	s and g	out use	<u>:d.</u>							1				
NA FEET			RING POII	y/			DATE WELL 9-30	L DRILLIN	G WAS CO	MPLETI	ED			TD:		İ		
SIGNATURE	(Ppd)	NAY/CO	MTRACTO	OR)	:		PERMIT NU	MBER						35ft		İ		
///	7/	fu	1/	-141-			2876M											
the Depar	tme	nt∕of N	latural F	geagni	ces requ	iiremen	ts for th	ribed was constructed in accordance with for the construction of monitoring wells.				th						
SIGNATURE		DRILLE	R) /	1		PERMIT	NUMBER	BER DATE									}	
SIGNATURE ((APP	RENTICE	1//	<u>ں</u>		2836 PERMIT	NUMBER	DATE	10-12	-09	2							
MO 790 1415	/0.C	V	711011 -		TEO FOR				- / 					TOTAL	. DEF	′/H:		



Second		I name near sen	and the management of the control of the	
OFFICE U	SE ONLY	DATE RECEIVED		
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		39.3、第1873月18、18	建筑和政治和基础	40 P. O. B. S.
C.R. NO.		CHECK NO.	21 5 12 7 4 2 4 4 KM	
10 mm 10 mm	Supplemental Control			
STATE WELL NU	MBER	REVENUE NO.	ahirtis. Lagar Mada	VALUE OF STREET
100				
ENTERED		ADDDOVED DV	DATE	POLIT
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					N REC		_	Ph1	Ph2	PI	n3			OVED BY	1	MIE	NOOIE	
OWNER N	MAT AME	ION :	SUPPL	IED BY	PRIMA	RYC	ONTRA	ACTOR	OR DR	ULLING		TRAC WELL N			Visionia.	1		
Amere	n											56	IOMOL	.rv			RIANCE G DNR	RANTED
OWNER A							CITY					STATE	7 2	IP CODE				h a copy or
1901 C		eau A	ve.				St.	Louis	CONTAC	CT NAME	1	MO		3166		prov	vide numb	er of variance.
Labadie	_	wer P	lant						Paul I									
SITE ADDR									CITY					ST	ATE	ZIP	CODE	<u></u> .
226 Lat	padi	Pow	er Plan	t Rd., I	MC LBI)-64 <u>5</u>		OF DOTE	Labad	lie				M		630		
Gas I				☐ Mon	itoring		_		vTIAL SITE s Materia	ıf	⊠ Lan	dfill					ALL THAT AF	PLY) Products Only
☐ Extra		_			ometers		1		Assessn		L.U.			Explo			/letals	□ VOC
4854	1 6	YTAUC					□ w	ater Lev	el Drawd	lown				□ svoc	cs		esticides/	Herbicides
AREA		rankli	n-		EVATION 465'						SMAI	LLEST		LA	RGEST			
LOCATION	OF W					-	1	•		_		<u> </u>		% N	۷W	_ ¼		
Lat. 38_ Long. 90		۔ ° ،	33 <u> </u>	', _26l	<u>"</u> مر	1 9	Se	ection 1'	7	Townsh	ip <u>4</u> 44	Nor	th		ı	Range	_2 ⊠ Ea	st 🗌 West
					LENGTH			DIAMETE		DIA	METER A	ND DE	РТН С	F PRO	FECTIVE	<u> </u>	Mar. 1	LOCKING CAP?
TYPE OF SURFACE		I	Above (PROTEC	TIVE C	ASING	PROTEC	TIVE CASIN	IG THI	E HOLE P SING WA!	ROTEC	TIVE	CASI		KI S	iteel Numinum	⊠ Yes
COMPLET	ΓΙΟΝ	-	Flush M	fount	5	ft.		4	x4 in.	12	in 🤈	ft.					lastic	□ No
WEEP HOL	E?		D CAP?	LENGTH	OF FLUSH	DIA	METER OF	FLUSH	DIAMET	ER AND D	EPTH OF	THE	.n	SURFAC	E	M C	ncrete	l
⊠ Yes □ No		☑ Ye ☐ No				""			IIOLL I	LOSH MO	DIAL AAVO	PLACE	-	COMPLE				
	LEN	GTH	DIAMET	ED LW	ft EIGHT			ft.		in.			ft.	01001			her	
	LEN	GIN	DIAME		R SDR#	DRILL	TER OF HOLE	MATER	iaL eel ⊠Ti	hemoni	aetic (D)	vc\	BEN	TONITE	LENG' SEAL	TH OF	MATERIAL Slurry	
RISER	28	ft.	2 in.	4		0.69	ft		ner	-	asuc (F	" "	SEA	L	3 ft.		1	lar □Chips
PIPE DETAIL	GLU					0.02			LTER PAC			L		DE	PTH	FC		DESCRIPTION
		Yes		⊠ Sat	urated Zo	ne [☐ Unsat	urated 2	Zone H	ydrated	⊠ Yes		lo	FROM	ТО	_		
	⊠ I	Vo		☐ Bot	n Zones	ľ	f Yes, H	ydrated	☐ Yes	☐ No				0	20			Very Fine
PRIMARY	L	ENGTH		DEPTH 1	O TOP OF	PRIMAR	Y FILTER	PACK	SECONDAR	RY FILTER	PACK LE	NGTH		20	25	Sar		Very Fine &
FILTER PACK		13.3 f			,		•										e Sand	vory i nic oc
	+		tonite SI	la arroy e		21.5	ft.	4==14= 0		LENGT		ft.		25	35			ine, Medium
ANNULAR				-			nent/Ben		•							& (Coarse Sa	ind; Gravel
SEAL	-	7 14011	Siurry c	entonite	Type [
							Benton			17.3		ft.						
	LEN	IGTH	DIA	METER	DIAMET		DEPTH TO		gal.									
WELL					OF DRIL	ı l	TOP OF SCREEN		Steel !	MATER Them	RIAL poplasti	ic (PV	<u>(C)</u>					
SCREEN	10	ft	2"	ft	8.25 ii		24.5 ft.		Other			,	,					
Multiple C	_			s 🛭 No					r Remedi	lation [7 Ves		\dashv					
Submit a												and	\dashv			1		
size of all	l cas	ing, h	ole dia	meters	and gro	ut use	d.			· .				TD:				
			SURING P	okt/			DATE WEL 11/9	L DRILLIN	IG WAS CO	MPLETED				35ft				
SIGNATURE							PERMIT NO	JMBER					\dashv					
1111			1				2876M											
l hereby c the Depar	ertif tme:	y that It of N	the moi atural F	nitoring	well her	ein de	scribed	was co	nstructe	d in acc	cordan	ce wit	h			1		
SIGNATURE	XIII	DRILLE	R)	7			NUMBER	DATE	/	1	coring (wells.						
	42	UN)	M			2836			11/2/	09	··					<u></u>		
SIGNATURE (APPR	ENTOE)			ERMIT	NUMBER	DATE						TOTA	_ DEF	TH:		
MO 780-1415	(06-09) RE	TURN C	OMPLET	ED FORM	TO: V	VELLHEA	D PROT	ECTION S	SECTION	, PO. BC	X 250	, ROI	.LA, MO 6	5402 5	73-368-2	2165	



		•
OFFICE USE ONLY REF NO.	DATE RECEIVED	
	CHECK NO.	The A. B. B. B.
STATE WELL NUMBER	REVENUE NO.	
ENTERED	APPROVED BY DATE	ROUTE

		CE	RTIFIC	CATIO	N RE	COR	D		RED Ph2		7 13		PROVED	BY		ROUTE	
INFOR	MĄ	TION !	SUPPL	IED BY	PRIM	ARY C	ONTR	ACTOR	OR DR	ILLING	G CONTR	RACT		Post y	Apren e	ASS TO SEE	
OWNER N	VAME		_						****		WE	ELL NUM		Steps, Fr.		VARIANCE GF	RANTED
Amerei OWNER A		SS					I CITY			.	158 STA	8 TATE	ZIP COI			BY DNR ☐ Yes. Attach	a convor
1901 C			Ave.					. Louis			Me		6316			ו∟ res. Attach provide numbe	
SITE NAME	E								CONTACT			<u>.C</u> _	0510,	3			
Labadio			lant						Paul Pi	ike							
1			Dlar	ין גם זיי	4C I E	·D 645	•		CITY	••				STATE		ZIP CODE	
PROPOSE	D US	E OF WE	LL	nt Rd., N	بلت الله	D-043		OF POTEN	Labadi	ie			T MONIT	MO FORING FOR	P· (CHE	63055 ECK ALL THAT APF	oi ∨\
☐ Gas I		-		☐ Moni	_		1		s Material	1.	Landfil	ăU				Petroleum P	
☐ Extra	ction	Well		☑ Piezo	ometers	š	1 —		Assessme		☐ L.U.S.	.T.	□ E>	xplosives	Σ	☑ Metals	□ voc
AREA	<u>⊤ c</u>	OUNTY		FI	EVATION			Vater Lev	el Drawdo	own			□ s\	vocs		Pesticides/H	lerbicides
1	Franklin @465'										EST		LARGES	ST.			
LOCATION					<u> </u>		7							NW_	1%		
Lat. 38	t. 38 ° 33' _26N" Section 17 Township44 Nor											North			Rang	ge _2 🛭 Eas	t 🔲 West
	LENGTH OF DIAMETER OF DIAMETER AND DEP												OF I	PROTECTIV	/E 5		LOCKING CAP?
TYPE OF SURFACE	PE OF Above Ground PROTECTIVE CASING PROTECTIVE CASING THE HOLE PROTECTIVE CASING CASING WAS PLACE											OTECTIV	Æ (CASING MATERIAL	12	⊠ Steel □ Aluminum	☑ Yes
COMPLET	LION		Flush M	lount	5	ft.		4	x4 in.	ŀ			'	WATE		_ Aluminum ☐ Plastic	□ No
WEEP HOL	.E?		D CAP?		OF FLUS	SH DIA		OF FLUSH	DIAMETE	ER AND D	DEPTH OF TH	HE	Tellp	-10E	· r - · ·		
⊠ Yes		⊠ Ye		MOUNT		MO	DUNT		HOLEFU	.USH MOI	OUNT WAS PL	LACED	COM	FACE IPLETION		Concrete	
□ No		□ No	·			ft.		ft.		in.		ft.	GRO	UT		Other	-
	LEN	ŧGTH	DIAMET		EIGHT R SDR#	DIAME DRILL I	TER OF	MATERIA				Т			GTH OF		
RISER		1				1.		1		iermopl	lastic (PVC		NTONIT	1		⊠Slurry	Pellets
PIPE	28		2 in.	40	,	0.69			ner					3 f	t		ar DChips
DETAIL	GLU		1	<u> </u>					LTER PACE				FRC	DEPTH DM TO	\rightarrow	FORMATION D	DESCRIPTION
1	_	Yes	1						-		Yes [□ No	0	12		⊂1 0214 <i>g</i> , 1	Trus Ding
	Ø				h Zones			-	☐ Yes [Clay, Silt & ` Sand	very rme
PRIMARY FILTER	· "	ENGTH	1	DEPTH IS	O TOP OF	PRIMAR	Ý FILTER	PACK	SECONDARY	Y FILTER	R PACK LENG	STH	12	35	1 -		ine, Medium
PACK		13.5 f	4	İ		21.4	ft.				1.2 ft.					& Coarse Sai	
			tonite Si	himy			·	ntonite SI		LENGTI			┨		}		
ANNULAR	.			-						1					.		
SEAL	-	∄ 140∷	Siurry)entone				ment Use		1							
								nite Used	_	ĺ		ft.					
	1 =	NGTH	T DIA	METER				1/Bag 25	gal.	<u></u>		n.	_				
WELL		lo i ri	DIC.	MEIER	OF DR	RILL	DEPTH TO	L	1 Stool F	MATER	RIAL moplastic ((2) (2)	_				
SCREEN	1.0		3"				SCREEN] Steel (<u>X</u>] Other		nopiasuc ((۲۷۵)	1				
	10		2"		8.25		24.6 ft.	<u>. </u>					4				ı
Multiple Ca				es 🛭 No					r Remedia				4				
Submit ac size of all	danı Lea:	Onaı a sina. h	ıs Dunc ınle dia	diagram meters	and ar	ving we	∌ll cons ⊶d	struction	details i	ncluair	ng type a	ınd					
STATIC WAT	ER LE	EVEL	1/1/	1	an 100 5.	1	DATE WEL	LL DRILLIN	IG WAS COM	MPLETED	,		TD: 35ft			*	
			SORING				11/13	•]	´			
SIGNATURE	PRIM	ANYOU	NTVACTO	ÚR)	_		PERMIT NO 2876M		 -				7				
I hareby c	-Ftil	that	the mo		well he					- In ac		14h	┨				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.												}			1		
SIGNATURE (22	ORILLE	:R)	1		PERMIT	NUMBER	DATE	***/	1		·	1				
SIGNATURE (綸	FINTICE	4/1	un		2836 PERMIT I	NUMBER		11/20/	<u>07</u>			<u> </u>				
		- · · ·					101110-111						TO	TAL DE	PTH	i:	



Management of the Control of				
OFFICEUSE(REFNO	ONLY PA	TE RECEIVED		
(GRANO)		ECK NO		
SIATE WELL MINBER	Re	VENUE NO		
ENTERED Phil Phi2	Ph3	PROVED BY DATE	ROUTE	100

					ION R					PH3	200			a de la companya de l	DATE	ROUTE	
INFOF	NAME	ON	SUPPI	(IED)	BY PRI	MARY	CONTR	ACTOR	OR DR	ILLING CO				e e e e e e e e e e e e e e e e e e e			
Amere											WELL	NUME	ER			RIANCE G	RANTED
OWNER /		_	_				СП	Ÿ		1	160 STATE		ZIP CODE		\neg	ONR Yes. Attac	h a copy or
1901 C		au A	ve.				St.	Louis	Loovers		МО		63166	···	pro	ovide numb	er of variance.
Labadi SITE ADD		er P	lant						Paul P								
226 La	badie	Pow	er Pla	nt Rd.	., MC L	BD-64:	5		Labadi	ie				TATE 10	- (CODE 055	
PROPOSE Gas	D USE (OF WE	ш				TYPE		ITIAL SITE	· · · · · · · · · · · · · · · · · · ·						CALL THAT AP	PLY)
Extra		_	ven		ionitoring lezomete		· 1 —		s Material Assessm	_	andfill						Products Only
									rei Drawdo		U.S.T.		☐ Explo			Metals Pesticides/I	OOV [
AREA 1		INTY Inkli	n		ELEVATION (2016)	N					ALLEST	Γ		ARGEST		esucides/i	Teinicides
LOCATION		T			W+03		┪				¼		¼	NW	½		
Lat. 38_	it. 38 ° 33' _26N" ing. 90 ° 48' 56W"								<i></i> :	Township	44 No	rth				_2 🛛 Eas	st 🔲 West
TYPE OF	VRE OF LENGTH OF									DIAMETER	R AND DE	PTH (OF PRO	TECTIVE	- 53		LOCKING CAP?
SURFACI	E				d PRO	IECTIVE (ASING	PROTECTIVE CASING THE HOLE PROTECTIVE CASING WAS PLACED					CAS			Steel Aluminum	⊠ Yes
	DMPLETION Flush Mount 5 ft.								4x4 in. 12 in. 2 ft.						☐ Plastic ☐ No		
WEEP HOL	EP HOLE? VENTED CAP? LENGTH OF FLUSH DIAMETI								DIAMETE HOLE FL	R AND DEPTH OUSH WOUNT W	OF THE AS PLACE	ED	SURFAC		⊠ c	oncrete	
☐ No	res Lyres												GROUT	ETION	l	ther	
	LENGT	н	DIAMET	ER	WEIGHT	DIAME	TER OF	OF MATERIAL					<u> </u>	LENG		MATERIAL	
DICED					OR SDR#	DRILL	HOLE	☐ Ste	el 🛭 Th	ermoplastic (PVC)	BEN SEA	TONITE	SEAL		Siumy	□Pellets
RISER PIPE	28 ft.		2 in.		40	0.69			er	_	_	SEA	L	3 ft.		1	lar Chips
DETAIL	☐ Ye			57.0					TER PACE				DE FROM	РТН	F	ORMATION I	DESCRIPTION
ł	⊠ No			D B	aturated oth Zone				one Hyd ☐ Yes [drated 🖾 Ye	s 🗆 N	lo	0	5 5	Cil	t and Clay	
PRIMARY		ĞТН								J NO FILTER PACK I			5	25		ry Fine Sa	
FILTER									LOONDANI	FILTER PACK I	LENGIH		25	35		dium San	
PACK	7	.5 ft				21.5	ft.			1.5	ft.		į				
ANNULAR			onite SI	•				ntonite SI	- 1	LENGTH							
SEAL	ישן	Non S	Slurry B	enton	ite Type			-									
								ite Used		17.0					1		
	LENGT	Н	DIA	METER	LOIAN	⊠ Wat	Br Used/	Bag 25	gal.	17.0	ft.						
WELL		••	""	·m. / L. (OF D	RILL	TOP OF SCREEN			MATERIAL Thermoplas	tio (D)/				İ		
SCREEN	10 ft.		2"	ft.	8.25	ł	24.7 ft.	I	Other	imonnopias	ac (FV	ິ,			1		
Multiple Ca		_	☐ Ye				_			tion 🗌 Yes		\dashv	770.		1		
Submit additional as built diagrams showing well cons size of all casing, hole diam@ers and grout used.							truction	details ir	ncluding typ	e and	\dashv	TD:					
SIZE OF ALL	casin	g, nc	le dia	pejer	s and g	rout use	d.										
VI FEET F	<u> </u>			'''	,	- [12/17	L DRILLING	WAS COM	PLETED		ŀ			•		
ICN/AUP	PRIMAR	YCON	TRACTO	2			PERMIT NU 2876M		···			\dashv	1		1		
hereby co	ortify the	hat ti	ne mon	itorin	g well h	erein de	ecribed	Wee cor	structed	in accordar	ice witi	<u>.</u>					
IGNATURE A	A PARTIE	ULLER) \	June	ces red	PERMIT	NUMBER	construction of monitoring wells.				4					
IGNATURE (Vus	19	~	6	٤	2836		1/4/10							l		1
SNA I URE (/	C					PERMIT	NUMBER	DATE					TOTAL DEPTH:				
O 780-1415 (06-09)	RET	URN CO	MPLE	TED FOR	M TO: V	/FII HEA	D PROTE	CTION CE	CTION DO D							



100 to 10		
OFFICE U	SE ONLY CYTERECEMED.	
	THE AMERICA	
	REST A REVENUE NO.	
	APPROVED BY:	ANTE NEW ROUTE

AREA COUNTY Franklin	INFOR	MAI	ION	SUPPI	IED BY	PRIM	ARY	CONTR	ACTOR	OR DR		CONTRA	Veri (îR					<u> </u>
ONLY STATE ZIP CODE CONTACT NAME Paul Pike Paul Pike STATE ZIP CODE CONTACT NAME Paul Pike Paul Pike STATE ZIP CODE CONTACT NAME Paul Pike STATE ZIP CODE CONTACT NAME Paul Pike STATE ZIP CODE CONTACT NAME Paul Pike STATE ZIP CODE CONTACT NAME Paul Pike STATE ZIP CODE CONTACT NAME CONTACT NAME Paul Pike STATE ZIP CODE CONTACT NAME CONTACT NAME CONTACT NAME Paul Pike STATE ZIP CODE CONTACT NAME CONTAC	OWNER	W-THE										WELL						RANTED	No.
STER ANME Labadic Power Plant STE ADDRESS CONTACT NAME Paul Pike	OWNER A	DORE						CIT	Y		 -		Ē	ZIP CODE		\neg	Yes. Attac	h a copy or	,
Labadic Power Plant Paul Pike			eau A	lve.				St.	Louis	CONTAC	YT NAME	МО	\perp	63166		pro	vide numb	er of varian	Ce.
AREA COUNTY ELEVATION CATION OF WELL COUNTY CASING C			wer P	lant		·				Paul P									
PROPOSED USE OF WELL TYPE OF POTENTIAL STE Hazardous Material LU.S.T. Radionuldides Petroleum Products Radionuldides Radionuldides Petroleum Products Radionuldides Petroleum Products Radionuldides Ra			e Pow	er Pla	nt Rd N	(C I B	D64	5			:_					- 1			
Gas Monitoring	PROPOSE	D USE	OF WE	Щ			D-0 1	TYPE		TIAL SITE		·····						PPLY)	
Water Level Drawdown			-	Well		_					•			☐ Rad	ionuclid	es 🔲	Petroleum	Products O	nly
REAL COUNTY COUNTY CASING COUNTY CASING COUNTY CASING COUNTY CASING CAS												L.U.S.T.				-		VOC	
Lat. 38				n								SMALLES	T				esticues/	Terbicides	
TYPE OF SURFACE COMPLETION								7				%		1⁄4	NW_	¼			
TYPE OF SURFACE COMPLETION			- : .	33 48			-,	S	ection 17		Townshi	p_44 No	orth			Range	_2 🛭 Ea	st 🗌 Wes	st
COMPLETION Flush Mount 5 ft. 6 in. 14 in. 2 ft. MATERIAL PVC PVC PV	TYPE OF		T			LENGT		CASING						,			Steel	LOCKING C	AP?
VENTED CAP?			I							inc aroun		ING WAS PLA	CED	MAT	TERIAL				
Yes	WEEP HOL	E?					ft.	AMETER O	6 F FI LISH					PV	'C	⊠ I	Plastic	∐ No	
RISER PIPE DETAIL OR SUR# OR		- 1	_				M	OUNT		HOLE FL	USH MOU	NT WAS PLAC	ŒD			⊠c	oncrete		
RISER PIPE DETAIL GLUED Yes No Secondary Filter Pack Secondary Filter Pack No PRIMARY FILTER PACK Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary Filter Pack Secondary F	∐ No										in.	_	ft.	GROUT			ther	_	
RISER PIPE 28 ft. 4 in. 40 0.85 ft. □ Other SEAL 3 ft. □ Granular □ Ch	ł	LENG	JIH .	DIAME			DIAM	ETER OF LHOLE	l		emonia	etio (BVC)	BEN	ITONITE		TH OF			
DETAIL GLUED SECONDARY FILTER PACK DEPTH FORMATION DESCRIPT		28 f	t.	4 in.	40		0.85	īft.			енноріа	Suc (PVC)			3 ft		_		
No								SECON	DARY FIL	TER PAC			<u> </u>		PTH		<u>L</u>		
PRIMARY FILTER PACK 13.3 ft. DEPTH TO TOP OF PRIMARY FILTER PACK SECONDARY FILTER PACK LENGTH 13.3 ft. DEPTH TO TOP OF PRIMARY FILTER PACK SECONDARY FILTER PACK LENGTH 13.5 ft. DEPTH TO TOP OF PRIMARY FILTER PACK SECONDARY FILTER PACK LENGTH 13.5 ft. VF-F Sand VF-F												☑ Yes 🔲 I	No ·				/0114/8.75		
FILTER PACK 13.3 ft. 21.3 ft. 1.8 ft. Sentonite Slurry														10				Sand	
ANNULAR SEAL Sentonite Slurry Cement/Bentonite Slurry LENGTH	FILTER				52 , 11, 10	101 01	CININA	KI FILIEK	PACK S	ECONDAR	Y FILTER P	ACK LENGTH	l .	j			-		
ANNULAR SEAL Non Slurry Bentonite Type	PACK	_]					
SEAL Water Used	ANNULAR	1			•					•	LENGTH								
WELL SCREEN WELL 10 ft. 4" ft. 10.3 in. 24.3 ft. 16.5 ft. Water Used/Bag 25 gal. 16.5 ft. MATERIAL MATERIAL SCREEN 10.5 ft. MATERIAL SCREEN 10.5 ft. MATERIAL TOP OF SCREEN 10.5 ft. Other 10.5 ft.		"	Non	Siurry E	sentonite '					d									
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SCREEN HOLE SCREEN Steel Thermoplastic (PVC) 10 ft. 4" ft. 10.3 in. 24.3 ft. Other		LEN	зтн	DIA	METER	DIAMET	ER	DEPTH TO		jai.	MATERI								
21010							4	TOP OF SCREEN		Steel 🗵			/C)			1			
						10.3 i	n.	24.3 ft.		Other									
Multiple Cased Wells							<u>F</u>	ump inst	talled for	Remedia	tion 🔲	Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diagneters and grout used. TD: 35ft	size of all	casi	ng, no	ole dia	oragram: paeteps a	s snow Ind gro	ing w ut us	ell cons ed.	truction	details i	ncluding	type and							
DATE WELL DRILLING WAS COMPLETED			/1	NCACINO]//				L DRILLING	WAS COM	PLETED			3310					
	SIGNATURE PERMIT NUMBER											\dashv	Ì						
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ire behaltinark of Natural Resources requirements for the construction of monitoring wolls 1	hereby certify that the monitoring well herein described was constructed in accordance the Department of Natural Resources requirements for the construction of monitoring versions.										rdance wit ring wells.	th							
PERMIT NUMBER DATE	IGHA JUNE	95r.	DRULLEI	₹)	1) F	PERMIT	NUMBER	DATE		4			}					
2836 PERMIT NUMBER DATE TOTAL DEPTH:	IGNATURE (/	APPRE	NTICE	7·L	ne			NUMBER		73 T	110	·	\dashv	TOTAL	DEP	TU			_
O 780-1415 (06-09) RETURN COMPLETED FORM TO: WELLHEAD PROTECTION SECTION, PO. BOX 250, ROLLA, MO 65402 573-368-2165	O 780-1415 (06-09)	RE	TURN CO	OMPLETE	D FORM	TO: V	VELLHEA	D PROTE	CTION SE	CTION	O BOY 250) BO'				402		\Box



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TYPE OF SURFACE			Above	Ground		TIVE CAS	SING	PROTECT	IVE CASING	3 THE HOLE	PROTE	CTIVE		OTECTIVE SING		Steel	LOCKING CAP?
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SURFACE COMPLET		1	Flush M									CASING W	AS PLA	CED	MAT	ERIAL		Aluminum	⊠ Yes
1445551101					5		t			in.			2 ft.		PV	C	× I	Plastic	□ No
WEEP HOL	E7	VENTER ☑ Ye	D CAP?	MOUNT	H OF FLU	SH	DIAMETE MOUNT	ROF	FLUSH			ND DEPTH (:FD	SURFAC	CE	⊠ c	oncrete	<u> </u>
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Submit ac						wino													
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SIGNATURE	<i>OZIZ</i> BRIN	MAKY CO	NTRACTO	7"7" #8)			11/1.		ARED										
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INFORM OWNER N	MA.	rion s	SUPPL	IED B	Y PRIM	ARY CO	ONTR/	ACTOR	OR DRI	ILLI	NG CO		СТО	R				
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OWNER AD	DRE						CITY	,				STATE	;	ZIP CODE		┥ᇛ⋎	es. Attach	а сору ог
1901 CI		teau A	ve.				St.	Louis	CONTAC			MO		63166		provi	de numbe	er of variance.
Labadie		wer Pi	lant						Paul P		ME							
SITE ADDR		7701 1 1	·						CITY					STA	TE	ZIP CC	DDE	
226 Lab	adi	e Pow	er Plan	t Rd.,	MC LB	D-645	Т		Labadi	ie	±			M		6305		
Gas N				Г Мо	nitoring			OF POTEN	TIAL SITE s Material	Ì	⊠ La	ndfill		MONITORIN				
☐ Extrac		_			zometers		=		Assessm			U.S.T.		☐ Explos		s ☐ Petroleum Products Only ⊠ Metals ☐ VOC		
							□ w	ater Lev	el Drawdo	own				SVOC				terbicides
AREA		ounty rankli	n		LEVATION かならら!						SM	ALLEST	Ī	LAI	RGEST			
1 Franklin @465'												_¼ _		% N	w	_1⁄4		
Lat. 38_ Long. 90		° .	33 <u> </u>	_', - <mark>2</mark> 2	2.9 3.1	" ,	Se	ection 17	' <u> </u>	Tow	nship4	14 No	rth		i	Range _	2 🛭 Eas	st 🔲 West
TYPE OF		1	Above (LENGT	H OF CTIVE CA	SING	DIAMETE	R OF TIVE CASING	G	DIAMETER				ECTIVE	⊠ St	teel	LOCKING CAP?
SURFACE COMPLET			Flush M				ASING PROTECTIVE CASING THE HOLE PROTECTIVE CASING WAS PLACED					MATE	-		luminum -	⊠ Yes		
					5	ft.	4x4 in. 12 in. 2 ft. AMETER OF FLUSH DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED								☐ Plastic ☐ No			
WEEP HOL	E?	VENTE	D CAP?	MOUN	TH OF FLUS T	MOL		F FLUSH	HOLE FL	ER A LUSH	ND DEPTH : MOUNT W	OF THE AS PLAC	ED	SURFAC		⊠ Cor	ncrete	
□ No		□ No				ft.	ft. in. ft.						4	GROUT	IION	☐ Oth	ner	
	LEI	NGTH	DIAMET	ER	WEIGHT	DIAMET	METER OF MATERIAL					11.	<u> </u>	LENGT	H OF	MATERIAL		
					OR SDR#	DRILL	☐ Steel ☑ Thermoplastic (PVC) ☐ S						BE!	NTONITE	SEAL		⊠Slurry	□Pellets
RISER PIPE	28		2 in.		40 	0.69	69 ft.								3 ft.		□Granu	ılar
DETAIL		JED ·					SECONDARY FILTER PACK							FROM	TO TO	FO	RMATION	DESCRIPTION
		Yes					☐ Unsaturated Zone Hydrated ☒ Yes ☐ No If Yes, Hydrated ☐ Yes ☐ No						0	20	Ver	v Fine S	and, Fine Sand	
<u>J</u>		No			oth Zones									1			and Clay	
PRIMARY FILTER	`	LENGTH		DEPIR	1101070	- PRIMAR	YFILIER	PACK	SECONDAR	KY FIL	TER PACK	LENGTH		20	30	Fine	e, Mediu	m, and Coarse
PACK		13.2	ft.			21.8	ft.				1.6	ft.		30	35		d, Clay a	
		⊠ Ben	tonite S	lurry		☐ Cem	ent/Ber	ntonite S	lurry	LE	NGTH			7~	33			m, and Coarse Gravel and
ANNULAR SEAL	۱ ۱	☐ Non	Slurry E	3entoni	ite Type	☐ Bags	s of Cen	ment Use	ed								y Ball	0.0.0.0.0.0.0
SEAL						☐ % of	Benton	nite Used	I					1.				
	İ					☑ Wate	er Used	/Bag 25	gal.	17	7.2	ft.						
	LE	NGTH	DIA	METER	DIAMI OF DI	ETER	DEPTH TOP OF	<u> </u>		M/	ATERIAL			1				
WELL SCREEN	ĺ				HOLE		SCREEN			X T	hermopla	stic (P	VC)	1				
10 ft. 2" ft. 8.25 in. 2							24.7 ft.	<u>' </u>	Other _		_			_				
									r Remedi					-				
Submit additional as built diagrams showing well construct size of all casing, hole diameters and grout used.									n details	inc	luding ty	pe and	d					
STATIC WATER LEVEL								LL DRILLIN	IG WAS CO	MPLE	ETED			TD:				
NA FEET FROM MEASURING POINT/ SIGNATURE/PRIMARY/CONTRACTOR)								UMBER						35ft				
Significant of the state of the							2876M		•									
I hereby certify that the monitoring well herein des the Department of Natural Resources requirement								scribed was constructed in accordance with					rith	1				
SIGNATURE	ST	DRILL	ER)		· • · • · ·		NUMBER					3 11011		1				
SIGNATURE	Z	WY	JÚ	u		2836	NUMBER	DATE:	10-1	<u>ረ</u> _	19			1				
JIGHATURE	(47	TEN IC	<u> </u>			PERMII	NUMBER	DATE						TOTA	L DE	?TH:		



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ENVEYOR TO THE	A LEVEL LEVEL S		233 2342
EXIEGED :	A CONTROL OF THE STATE OF THE S	DATE OF ROUTE	
ALC: NO PERSON NAMED IN COLUMN			20

STEP NAME COUNTY CONTRACTION OR DRILLING: CONTRACTOR CONTRACTOR OR DRILLING: CONTRACTOR CONTRACTOR OR DRILLING: CONTRACTOR CONTRACTOR	Amere		ION	ei ibbi	iien e	V DBILL	BVA		Parl	H		Più:			2				
American 169 SYACHANGE 169 SYACHANGE 1901 Chouteau Ave. St. Louis STATE 2P CODE Yes. Altach a copy or provide number of variance Yes. Altach a copy or provide number of variance Yes. Altach a copy or provide number of variance STE NAME Paul Pike		NAME		SU SE	JEU B	THE WIND	<u> </u>	UNIK	<u> AGIOI</u>	(कि.स्क	(IEE)	GCO	VELL	OTO NUMB	R (a)				
1901 Choutean Ave. St. Louis STATE APROODE Yes. Atland a copy or provide number of variance STERIME Labadic Power Plant Paul Pike	OWNERA			_															RANTED
STERAME PAUL PIACE PAUL PIACE STATE ZP CODE	1001 0		-		•			1						- 1				Yes. Attac	h a copy or
Labadic Power Plant Paul Pike			cau P	ive.				St.	Louis	T CONTA	CT NAMI		МО		63166		pro	vide numb	er or vananc
226 Labadie Power Plant Rd., MC LBD-645 Labadie MO 63055			ver P	lant						Paul		-							
PROPOSED USE OF WELL Monitoring Monito	1		Pov	er Dlas	nt Dd	MC I DI) 64E	-		1	••				ı		ľ		
Gas Monitoring Hazardous Material Landfill Radionuclides Petroleum Products On Lu.S.T. Exposives Metals VCC	PROPOSE	DUSE	OF WE	LL	ıı Ku.,	MC LBI	J-043	TYPE	OF POTE										DDI VI
Explosives Metals VOC Pestidides/Herbicides SVOCS Pestidides/Herbicides VOC Pranklin Q465' SMALLEST LARG			-	Well	_	•						⊠ La	ndfill	1					
Section 17	∐ Extra	action \	Well		⊠ Pie	zometers						□ L.U	J.S.T.		☐ Explo	sives			_
COCATION OF WELL Lat. 38	AREA	CO	UNTY		É	EVATION		UW	ater Lev	vei Drawo	iown	CN	ALL EGS					esticides/	Herbicides
Lat. 38				n	(0	0465'													
TYPE OF SURFACE COMPLETION Above Ground Flush Mount File		OF WE		33	, 40	1A1 *		_ ا		7	_		_¼ _		%			_	
SURFACE COMPLETION)		49	, -18	V		36	cuon 1	′——	Towns	ship4	4 No	orth			Range	_2 ⊠ Ea	st 🗌 West
COMPLETION Flush Mount 5 ft. 6 in. 14 in. 2 ft. PVC Aluminum Yes No Plastic No Plastic No Plastic No Plastic No Plastic No Plastic No Plastic No Plastic PVC Plastic No Plastic No Plastic PVC Plastic No Plastic PVC Plastic No Plastic PVC Pla			M	Ahove (Gmund			SING	DIAMETE	R OF	D	NAMETER	AND DE	EPTH C				iteel	LOCKING CA
VENTED CAP? VENTED CAP. VENTED CAP.															MAT	ERIAL	_		
No	WEED HOL	E2 V	<u> </u>												PV	C	⊠ P	lastic	□ No
No		I -							F FLUSH	HOLE F	TER AND LUSH M	DEPTH O	F THE S PLAC	ED			⊠ Co	ncrete	
RISER PIPE DETAIL GLUED Yes No Bentonite Salurated Zone PRIMARY FILTER PACK DEPTH TO TOP OF PRIMARY FILTER PACK SECONDARY FILTER PACK SECONDARY FILTER PACK SECONDARY FILTER PACK SECONDARY FILTER PACK SECONDARY FILTER PACK SECONDARY FILTER PACK SECONDARY FILTER PACK SECONDARY FILTER PACK SECONDARY FILTER PACK LENGTH 13.5 ft. 21.5 ft. SECONDARY FILTER PACK LENGTH 13.5 ft. SECONDARY FILTER PACK LENGTH 13.5 ft. SECONDARY FILTER PACK LENGTH 13.5 ft. SECONDARY FILTER PACK LENGTH 14.5 ft. SECONDARY FILTER PACK LENGTH 15.5 ft. SECONDARY FILTER PACK LENGTH 16.5 ft. MATERIAL SEAL SECONDARY FILTER PACK LENGTH 10 13 Very Fine Sand Very Fine Sand Very Fine Sand Fine-Very Fine Sand Water Used/Bag 25 gal. MATERIAL MATERIAL MATERIAL MATERIAL SEAL SEAL SECONDARY FILTER PACK LENGTH 16.5 ft. MATERIAL MATERIAL SEAL SEAL SEAL SECONDARY FILTER PACK LENGTH 10 13 Very Fine Sand Fine-Very Fine Sand Fine-Very Fine Sand MATERIAL MATERIAL MATERIAL MATERIAL MATERIAL MATERIAL MATERIAL SECONDARY FILTER PACK LENGTH 10 13 Very Fine Sand Very Fine Sand Fine-Very Fine Sand Fine-Very Fine Sand MATERIAL MATERIAL	□ No	0	☐ No		•	ft			4					.		ETION	Пон	her	
RISER PIPE DETAIL State S		LENG	тн	DIAMET		VEIGHT	DIAMET	ER OF		IAL.	in.			π.		LENG			-
Secondary Filter Pack Seco	51055						DRILL H	OLE	☐ Ste	el 🛛 T	hermoj	olastic (F	VC)						
Yes	PIPE			4 in.	4	0							Ĭ	SEA	L	3 ft.		_	
Solitated 25 is Siltand Clay Silt and Clay Siltand Clay	DETAIL																FC	RMATION	DESCRIPTION
PRIMARY FILTER PACK 13.5 ft. DEPTH TO TOP OF PRIMARY FILTER PACK 21.5 ft. SECONDARY FILTER PACK LENGTH 10 13 13 13 13 13 13 10 Very Fine Sand Very Fine Sand Very Fine Silty Sand Fine-Very Fine Sand Fine-Very Fine Sand Were Fine Silty Sand Fine-Very Fine Sand Water Used Water Used Water Used/Bag 25 gal. LENGTH DIAMETER DIAMETER DEPTH TO DO FOR MATERIAL												d 🔯 Yes		No			- C:14	and Clas	
FILTER FACK LENGTH 13.5 ft. 21.5 ft. 2.0 ft. Sentonite Slurry Cement/Bentonite Slurry LENGTH		LIEN													6	1			
PACK 13.5 ft. 21.5 ft. 2.0 ft. Bentonite Slurry		, 			DCF1[[10 10-0-1	- rumart	FILIER	PACK	SECONDAR	Y FILTE	R PACK L	ENGTH						
ANNULAR SEAL Non Slurry Cement/Bentonite Slurry SEAL Non Slurry Bentonite Type Bags of Cement Used % of Bentonite Used	PACK	13	3.5 f	L		2	21.5	ft.				2.0	ft.		13	35			
SEAL Starty Bentonite Type Bags of Cement Used 6.5 16.5		×	Bent	onite SI	ипу] Ceme	nt/Ben	tonite S	lurry	LENG								
		' 🗆	Non :	Slurry B	entonite	туре [] Bags	of Cem	ent Use	ed									
LENGTH DIAMETER DEPTH TO MATERIAL		ĺ				· C] % of E	Bentoni	te Used					į					
LENGTH DIAMETER DIAMETER DEPTH TO MATERIAL						Œ	Water	Used/	Bag 25	gal.	16.5		ft.				1		
HOLE SCREEN Steel M Thormonicalia (D) (C)	WELL	LENG	TH	DIAI	METER	DIAMET	ER D	EPTH TO			MATE	RIAL		_					
SCREEN GOREST CONTROL	SCREEN	ļ		ł		HOLE		CREEN		Steel	The	moplast	ic (PV	/C)					
10 ft. 4" ft. 10.3 in. 24.7 ft. □ Other TD:							. 2	4.7 ft.		Other _					TD.		İ		
Multiple Cased Wells Yes No Pump Installed for Remediation Yes 35ft							Pu	mp Inst	alled for	Remedi	ation	☐ Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.	Submit a	dditior I casin	nala:	s built (diagrar meters	ns showi	ng wel	l consi	truction	details	includ	ing type	and		j		1		
STATIC WATER LEVEL DATE WELL DON'T STEED	STATIC WAT	ER LEVE	EL.	. 77	//	and grot			L DRILLIN	G WAS CO	API ETEI	<u> </u>			1		1		
NI FEET FROM MPASURING POMPY 12/17							12	2/17			··	•			l		1		
PERMIT NUMBER 2876M			ופ <i>וס א</i> פ	TRACTO	(R)				MBER					\neg			1		
hereby certify that the monitoring well herein described was constructed in secondary with	SICHATORE		that t	he mor	itoring	well here	in des	cribed	was co	nstructe	d in ac	cordan	co wit		{				
the Department of Natural Resources requirements for the construction of monitoring wells.	hereby c	ertify		dural B	esourc	es requir	ements	for the	e const	ruction c	of mon	itoring v	wells.		- 1				
	hereby c	uneix	OT NE	3)		· · · · ·	-												
PERMIT NUMBER DATE TOTAL DEPTH:	hereby c	WEST?	OT NO	₹)	J	P P	ERMIT N	UMBER	DATE	1/4	10			ı	1				
10 780-1415 (08-09) RETURN COMPLETED FORM TO: WELLHEAD PROTECTION SECTION, PO. BOX 250, ROLLA, MO 65402 573-368-2165	hereby die Depart	W	OT NE	₹)	Le	P 2	ERMIT N			1/4	10			4	TOTAL	DED	TU.		



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INFOR	MATI	ON:	SUPPL	JED BY	PRIN	MARY	CONTR	ACTO	OR OR D	RILL	ING CO	NTRA	CTC	R			CALL CO.	
OWNER N	AME						-					WELL			LANCE SHELLER		RIANCE G	RANTED
Amere	i.—.											171					DNR	
OWNER A							СП	-				STATE	T	ZIP CODE		70	Yes. Attacl	h a copy or
1901 C		au A	ve.				St.	Louis				MO		63166		pro	vide numbe	er of variance.
	_	D	14						Paul									
Labadio SITE ADDI		er P	lant						CITY	- IKC	-							··
		Dow	or Dias	nt Rd., N	AC I I	DT 44	E			41.	•				ATE		CODE	
PROPOSE	D USE (F WE	LL TIAL	it Ku., K	AC LI	3D-04		OF POT	Laba					M			055 ALL THAT AP	DIM
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_									evel Draw			J.J. 1 .	ŀ	SVO			Pesticides/l	
AREA		INTY			VATION							ALLES	<u>.</u> [RGEST		Colicides/i	Terbicades
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					LENG	TH OF		DIAME	TER OF	_	DIAMETER	AND DE	РТН	OF PRO	TECTIVE			LOCKING CAP?
TYPE OF SURFACE		\boxtimes	Above (Ground	PROT	ECTIVE	CASING		ECTIVE CASI	NG	THE HOLE CASING W	PROTE	CTIVE	CASI	NG	ZJ:	Steel	⊠ Yes
COMPLET	TION		Flush M	lount	_ ا					l	1 .	AS FEAC	کاک	MAII	ERIAL		Aluminum	□No
WEEP HOL	E? I V	ENTE	D CAP?	LENGTH	OF FLU		IAMETER C		4x4 in.	TEDA	12 IN. :	2 ft.				- 11	Plastic	
⊠ Yes		₫ Ye		MOUNT	0		OUNT	/			H MOUNT WA		ED	SURFAC		⊠c	oncrete	
☐ No		_] No												COMPLE GROUT	HON		ther	
1	LENGI	н	DIAMET	FR W	IGHT	ft. DIAN	ETER OF		ft. ERIAL	in) <u>. </u>		ft.	<u></u>	1			
			, 554,14		SDR#		LHOLE		Steel 🔯 T	'hem	nonlactic (B/C\	BEN	ITONITE	LENG'	TH OF	MATERIAL	CD-11-4-
RISER	28 ft.		2 in.	40)		۸ ۵			110111	nopiasuc (i	PVC)	SE/		2 44		Slurry	
PIPE DETAIL	GLUED		Z III.			0.6			Other FILTER PA					· 	3 ft.			lar □Chips
J-1712	□ Ye			⊠ o-+										FROM	PTH TO	F	ORMATION	DESCRIPTION
	⊠ No								d Zone F			s 🗆 1	10	0	5	Cla		
			<u>.</u>	☐ Bott				-	d 🗆 Yes	_				5	35		ay ne Sand	
PRIMARY	LEN	IGTH		DEPTH TO	D TOP O	F PRIM	RY FILTER	PACK	SECONDA	RY FIL	LTER PACK L	ENGTH		7		' "	ic band	
FILTER PACK	1,,		.				- 1							1		-		-
		.4 f				21.6					1.6	ft.		4	i			
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ANNULAR SEAL		Non	Slurry B	entonite	Type	□ Ва	gs of Cer	nent U	sed	1				l i				
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SCREEN	10.0			-	1			- 1	Other_		nomopias	suc (i v	Ο,	1				
14.48-1- 0	10 ft	_	2"		8.25		24.7 ft.			_		· · · ·						
Multiple C									for Remed									
Submit a size of all	dditior Lessin	nal a	s built :	diagram motors	s sho	wing v	veil cons	struction	on details	incl	luding typ	e and		TD:		j		
STATIC WAT	ER LEVE	<u>.y, 11</u>	UIO UIA	7/	ariu gr	out us		II DOUI	LING WAS CO				-	35ft				
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	-//		-	Z		2836		541	~ 1/4	4/1	6							
SIGNATURE (APPREN	TICE	y L	7º4			T NUMBER	DAT	E	<u>•//</u>		_		TOTAL	DES	TU-		
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OWNER A			-				CITY	1			STAT	E	ZIP CODE		\dashv \Box	Yes. Attac	th a copy or
1901 C		eau A	ve.		·		St.	Louis	· · ·		MO		63166		pro	vide numb	er of variance.
	_	D	10-4						Paul P								
Labadio	RESS	ver P	lant						CITY	ike					1		· · · · · · · · · · · · · · · · · · ·
226 Lal	badie	Pow	ет Plar	nt Rd N	C LBI)-645			Labad	ie				TATE MO	630	CODE	
				ıt Rd., M		0.13	TYPE	OF POTEN	TIAL SITE	10		_				ALL THAT A	PPLY)
Gas f		_	Well	☐ Moni	•		□ H	azardous	s Materia		Landfill	ĺ					Products Only
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AREA	T cc	UNTY		Tere	VATION		<u> </u>	ater Lev	el Drawd				☐ svc			Pesticides/	Herbicides
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LOCATION	OF W	ELL					1				¼		¼	NW_	_ 1⁄4		
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Long. 90		- •	48	' 53∨	V LENGTI	*	<u>L.,</u>										
TYPE OF SURFACE			Above (Ground	PROTE		ASING	DIAMETE PROTECT	R OF TIVE CASIN	G THE HO	TER AND D	ECTIVE		OTECTIVE SING	⊠ 9	Steel	LOCKING CAP?
COMPLET			Flush M	lount						CASING	3 WAS PLA	CED	MA*	TERIAL		Aluminum	⊠ Yes
WEEP HOL	בים ו	L	D CAP?		5	ft.			4 in.		2 ft.					Plastic	□ No
⊠ Yes	- 1	VENTE		MOUNT	OF FLUSH		METER O	F FLUSH		ER AND DEP			SURFA	CE	⊠ co	oncrete	
□ No		□ No			_								COMPL		1		
	LENG		DIAMET	ED WE	ft IGHT			ft.		in.		ft.				ther	
Í		····	DIVINE		SDR#	DRILL	TER OF HOLE	MATERIA C Sto		nermoplasti	o (D)(O)	BEI	NTONITE	LENG SEAL	TH OF	MATERIAL	
RISER	28 f	. 1	2 in.	40	1	0.60		Oth		ioiiiiopiasu	C (PVC)	SE/		2 44		Slumy	_
PIPE DETAIL	GLUE		2 111.			0.69			TER PAC	<u></u>		<u>L</u> .		3 ft.	T		ılar □Chips
		'es	İ	⊠ Satu	rated 7	no [rdrated ⊠			FROM	PTH TO	FC	<u>JRMATION</u>	DESCRIPTION
1	⊠ ∧		ļ	☐ Both					One ⊓y ☐Yes[Yes 📋	NO	0	10	Cla	y/Silt/VI	F Sand
		NGTH								NO Y FILTER PAC			10	20		-F Sand	
PRIMARY FILTER			ľ	DEFINIC) IOP OF	FRIMAR	TPILICK	PACK	ECONDAR	Y FILTER PAC	X LENGT	+	20	35	Fin	e-Mediu	m Sand
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TYPE OF	_	Ø	Above (Ground	LENG PROT	TH OF ECTIVE (ASING	DIAMET PROTE	ER OF CTIVE CASIN	NG	DIAMETER THE HOLE	PROTE	CTIVE	OF PRO	TECTIVE	⊠s	Steel	LOCKING CAP?
SURFACE COMPLET			Flush M								CASING W	AS PLAC	CED		ERIAL		Numinum	⊠ Yes
WEEP HOL	E2 V		D CAP?	LENGTH	5		AMÉTER O		1x4 in.			2 ft.				P	Plastic	□ No
⊠ Yes	I -	Z Ye		MOUNT	OF FLUX		DUNT	r FLUSH		TER AN	D DEPTH O	OF THE SPLAC	ED	SURFAC		⊠ Cc	oncrete	
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RISER	28 ft.	,	2 in.	40)	0.69	ft.	Пo	ther			Į	SEM	.	3 ft.	İ	☐Granu	ılar 🏻 Chips
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Submit additional as built diagrams showing waste of all casing, hole diameters and grout us							en cons ed.	ucuo	n details	Inclu	aing typ	e and	ĺ			1		
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SIGNATOR		ולא.					PERMIT NO 2876M	MBER										
I hereby o	ertify	that	the mo	nitoring	well he	erein de	escribed	was c	onstructe	ed in a	accordan	ice wi	th					
the Depart	tment	of N	atural F	Resource	s requ	iremei	nts for th	e cons	truction	of mo	nitoring	wells						
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TYPE OF SURFACE	•		Above (Ground	PROTE	CTIVE C	ASING		TIVE CASIN	IG THE HOLE	PROTEC	CTIVE	CA	SING		Steel	⊠ Yes
COMPLET			Flush M	lount						CASING W	MO PLAC	ED	MA	TERIAL		Aluminum	□ No
WEEP HOLI	F2 1	VENTE	CAP?	LENGT	1 OF FLUS	ft.	METER O		4 in.	12 IN. TER AND DEPTH (2 ft.					Plastic	
⊠ Yes	- 1	⊠ Ye		MOUNT			UNT	rream	HOLE F	LUSH MOUNT W	AS PLACE	ED	SURFA	CE LETION	Ø	Concrete	
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ANNULAR SEAL		Non	Slumy B	Bentonite '	Type [] Bag	s of Cen	nent Us	ed	1								
	ŀ				[]%₀	f Benton	ite Used	1	•						1		
							er Used/			17	.6	ft.		ł		İ		
	LEN	3TH	DIA	METER	DIAMET	ER	DEPTH TO		gui.	140	TERIAL			ľ	1			
WELL SCREEN			-		OF DRIL HOLE		TOP OF SCREEN	-	Steel [X Ti	TERIAL nermoplas	tic (P\	/C)	ł				
	10	ft.	2"	ft.	8.25 ii	,	24.8 ft.		Other_		•	•	,		1	1		
Multiple Ca				s 🖾 No	0.20	_		!		ation	Yes							
Submit a					s show									TD:		ļ		
size of all	casi	ng, ho	ole dia	preters a	nd gro	ut use	ed.	u uouo,	· dodiio	11101	ading typ	e and	'	35ft	ł			
STATIC WATE VI FEET FR				. //				L DRILLIN	IG WAS CO	MPLE	TED							
ICHO THEE	A 11	,,,	//	///			12/17 PERMIT NI	(MED								1		
			w	~			2876M	MUEK					[
hereby co	entify	that t	he mor	nitoring v	vell her	ein de	scribed	was co	nstructe	d in	accordar	rce wi	 					
he Depart	men	OT NE	nurai K	esource	s requi	remen	ts for th	e cons	truction o	of m	onitoring	wells.						
Sie Constitution	Z/		•	1	- 1		NUMBER	DATE	1/	4	18					1		ı
IGNATURE (APPRE	NTICE	ya	(EX)		2836 PERMIT	NUMBER	DATE	'	_'/	14			TOTA		<u> </u>		
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OFFICE USE ONLY REF NO.	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
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					ON REC		-	Ph1	Pt	' 12	Ph3			1 (14)	"秦经康		ROUTE	
INFOR	MAT	rion!	SUPPL	JED BY	PRIMA	RY C	ONTR	ACTO	RORI	DRILI	ING CO	NTRAC	CTO				14	
OWNER N	AME				-	_						WELL N				VAF	ARIANCE G	
Amerer OWNER A		=88			-		CITY					187 STATE		ZIP CODE			∕ DNR │Yes. Attach	h a ronv or
1901 C			A va					r Louis	_		J	MO	- 1					er of variance.
SITE NAME		icau	100.				<u>) 51,</u>	Louis		TACT NA	AME	MO	<u>ـــــــــــــــــــــــــــــــــــــ</u>	63166		<u> </u>		
Labadie	_	wer P	'lant							ul Pike								
SITE ADDR			10000						CITY					S7	TATE	ZIP /	CODE	
226 Lal	o <u>adi</u>	e Pow	ver Plar	at <u>Rd.,</u> 1	MC LBD)-6 <u>45</u>				badie				М	ΛO	630	055	
PROPOSEI	D USE	E OF WE	ELL		-		TYPE		ENTIAL SIT	ITE	· · ·	-	\neg	MONITORII	ING FOR:	(CHECK	K ALL THAT API	•
Gas M		_		☐ Moni					ous Mate			andfill						Products Only
Extra	ction	ı Well		⊠ Piez	zometers				te Asses			.U.S.T.		☐ Explo			Metals	□ voc
AREA		COUNTY		1 51	EVATION		<u> </u>	/ater Le	evel Drav	wdowr				□ svoc			Pesticides/F	Herbicides
1		Frankli		1	.evation 0465'						SM	MALLEST	i	L,A	ARGEST			
LOCATION			-		100		4 .					_¼ _		% N	NW	. 14		
Lat. 38		•	33	' _20N	N		S	ection	17	To	wnship4						• 2 ⊠ Ea	st 🔲 West
Long. 90		<u> </u>	° 48	400	W	,,											.~ <u> </u>	
TYPE OF			Above C	O-sound	LENGTH PROTEC	I OF CTIVE CA	ARING		TER OF	ARING	DIAMETER THE HOLE				OTECTIVE SING		Steel	LOCKING CAP?
SURFACE	E				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	dive.	,Sin	Fire.	01142 _	Sinc	CASING W				SING FERIAL	_	Aluminum	⊠ Yes
COMPLET	lon	· با	Flush M	ount	5	ft.	J	i .	4x4 in.	· '	12 in. :	າ ft.			٠.	_	Plastic	□ No
WEEP HOL	E?		D CAP?		H OF FLUSH	I DIAN	METER O		H DIAM	METER A	AND DEPTH O	OF THE		SURFAC		_		<u> </u>
Yes		⊠ Ye		MOUNT		MOL	TAUC		HOLE	E FLUSH	SH MOUNT WA	AS PLACE	ED 1	COMPLE	ETION	⊠ Cr	Concrete	
□ No		□ No	ا ر	1.	ft.			f	ft.	in	n		ft.	GROUT	1	🗆 O'	Other	_
·	LEN	NGTH	DIAMET		VEIGHT	DIAMET	TER OF	MATE			<u></u>	$\overline{}$	<u></u>		LENGT		MATERIAL	
1	i	,	1		R SDR#	DRILL H				1 Therr	moplastic ((PVC)		NTONITE	SEAL		Slurry	
RISER	28	. H	2 in.	40	0	0.69 f	4		Other	. •	// C p	1	SEA	AL	3 ft.			ular □Chips
PIPE DETAIL	GLU		1 2						FILTER P	-ACK		 L		T DF	EPTH			DESCRIPTION
		Yes	ŗ	M Sat										FROM	ТО		JKWATT	DESCRIPTION.
]	⊠ i		1	1							rated 🛛 Ye	åS ∐ IV	10	0	15	_	'av & Silt:	Very Fine &
					th Zones			-	d Te	_			_	J			ine Sand	V 51 y 1 1110 -
PRIMARY	ا ا	LENGTH		DEPTH I	O TOP OF 1	RIMAR	YFILTER	PACK	SECOND	OARY FI	ILTER PACK I	LENGTH		15	35			ե Fine Sand;
FILTER PACK				1		0	**)	í								ood fragme	
		13.3 f				21.8	ft.				1.1	ft.		_				-
	1 1	Bent	tonite Si	urry	E] Cem	nent/Ber	ntonite	Slurry	"	ENGTH			İ				
ANNULAR SEAL	[_] Non	. Slurry F	3entonite	еТуре 🗌] Bagr	s of Cer	ment U	sed	_				1				
SEAL							f Benton			_				1		1		
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	T LE	NGTH	I DIA	AMETER	DIAMETI		er Used/) gai.					<u>ا</u> '				
WELL		10.111	brir s.	METER	OF DRIL	LL 7	TOP OF		Ctae		MATERIAL Thormonion	"- /D\	·~\	_				
SCREEN					HOLE	- 1	SCREEN				Thermoplas	Stic (Pv	/C)	,			•	
	10) ft.	2"	ft.	8.25 in	n	24.8 ft.	'ـــــــــــــــــــــــــــــــــــــ	Other	<u>г</u>] '	1			
Multiple C	<u>asec</u>	J Wells	, ☐ Ye	es 🛭 No	ر	P	ump Ins	stalled f	ior Rem	ediatic	on ☐ Yes	.s		1 '				
Submit a	dditi	ional ε	as built	diagrar	ns show	ing we	ell cons				cluding typ		<u>, </u>	1 '				
size of all	ll cas	sing, h	iole dia	meters	and gro	ut use	ed.						'	TD:	1			Í
STATIC WAT		/		V_{J}				LL DRILL	LING WAS	COMPL	ETED			35ft	1			I
			SUPPING P				10/28						′	1 '	1			
SIGNATURE	Prop	ARY CO	MTRACIL	JR)			PERMIT NO 2876M			_	-			1 /	1			
1111	71	<u>V 10</u>	<u>ب ميچ</u>	**ine										4 1	ĺ .			!
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SIGNATURE	WEY.	PRILLE	ER)	7/			NUMBER		TE /	7		J Weiler		1	l	1		
11 2		Lin		Lu		2836		-	11/20	0/05	ġ		1	1 1	i			
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					IG WEL)BD			RED			* (4)		ROVED BY	State Salaken	ATE	ROUTE	
INFOE									Ph1	Ph2		Ph3							
OWNER N	VAME	IIUN	SUPPL	-IED	BYPKII	MAK	CON	IKA	CTOR	OR DR	<u> </u>	ING CO						4.	THE PARTY OF THE P
Amere	n												WELL	NUMB	™ 18°	a		RIANCE G	RANTED
OWNER A		ESS					1	CITY					STATE		ZIP CODE	7		DNR	n a copy or
1901 C	hou	iteau /	Ave.				- 1		ouis				MO		63166		pro	vide numbe	er of variance.
SITE NAM				·				Jt. L	,ouis	CONTAC	CT NA	AME	MO		03100	···			
Labadi SITE ADD			lant		·					Paul F	Pike	;							
			ver Plat	nt Rd	l., MC L	RD_6	.45			CITY	1:_					ATE	- 1	CODE	
PROPOSE	DUS	E OF WI	ELL	10 110	., MC D	00-0		PE OF	POTEN	Labad	116				MONITORI		630 (CHECK	J55 ALL THAT AP	PLV)
☐ Gas		-	Well		/lonitoring] Haz	zardous	s Materia	al	⊠ La	ındfill	- 1			•		Products Only
☐ Extra	ctio	n Weli		⊠ P	Piezomete	rs	l l			Assessn			U.S.T.		☐ Explo			Metals	□ voc
AREA	T 6	COUNTY			ELEVATIO	4] Wa	ter Lev	el Drawd	lown				SVO			Pesticides/I	lerbicides
1	I	ranki			@465'	•						SM	ALLES	Т	LA	RGEST			
LOCATION															% 1	٧W	_¼		
Lat. 38_ Long. 90		°,	33 <u> </u>	<u></u> ', -	.18 17	n -,,	İ	Sec	tion 17	'	Tov	vnship4	14 No	orth			Range	_2 🛭 Eas	st 🔲 West
TYPE OF		1			LENG	TH OF	E CASING		IAMETE			DIAMETER				TECTIVE	[Z] (Steel	LOCKING CAP?
SURFACE	Ξ		Above		ì	IECITY	E CASING	` "	KOJEC	TIVE CASIN	₩G	THE HOLE CASING W				NG ERIAL		Aluminum	⊠ Yes
COMPLE	IION	' □	Flush M	lount	5	i ft	: .		43	(4 in.		12 in .	2 ft.					Plastic	□ No
WEEP HOL	E?		D CAP?	LEN	GTH OF FLL	SH	DIAMETE	ROF	LUSH	DIAMET		ND DEPTH	OF THE		SURFAC	· E			
⊠ Yes		⊠ Ye			,,,,		WOON			HOLEF	LUSH	I MOUNT W	AS PLAC	ED	COMPLE		IXI C	oncrete	
□ No		□ No				ft.			ft.		in	ı .		ft.	GROUT			her	_
,	LE	IGTH	DIAMET	FER	WEIGHT OR SDR#		AMETER O		MATERI	-				BEN	TOME	LENG SEAL	TH OF	MATERIAL	
RISER	•				40	1						noplastic (PVC)	SEA	ITONITE L	1		Slurry	
PIPE	28 GLI		2 in.		40	0.0	69 ft.			er	_				· ·	3 ft.		☐Granu	lar Chips
DETAIL										TER PAC						PTH	F	DRMATION	DESCRIPTION
1		Yes										ited 🛛 Ye	s 🗌 I	No	FROM 0	14	┥		
	Ø				Both Zone	_				☐ Yes					ľ	17	Int	erbedded	Clay, Silt, VF
PRIMARY	'	ENGTH		DEPT	TH TO TOP (OF PRIM	MARY FILT	ER PA	ACK S	SECONDAR	RY FIL	TER PACK I	.ENGTH		14	22		nu ne Sand	
FILTER PACK		12.0]		1.11	ic Salid	
·	_	13.8				21.					LE	2.0	ft.		22	27	Me	dium San	ıd
ANNULAR	- 1			_			ement/E			-	-				i				
SEAL	[_ Non	Slurry E	sentor	nite Type	ЦВ	lags of C)eme	nt Use	d					27	35	Co	arse Sand	
						□ %	of Ben	tonite	Used		l]				
						⊠ v	Vater Us	ed/Ba	ag 25	gal.	16	5.0	ft.				ŀ		
	LE	NGTH	DIA	METER	DIAM OF D	ETER	DEPTI TOP C	H TO			MA	TERIAL			1		1		
WELL SCREEN					HOLI		SCRE			Steel [X TI	hermoplas	stic (P	VC)					
	10	ft.	2"	ft.	8.2	5 in.	24.5	ft.		Other _									
Multiple C												n 🗌 Yes							
Submit a	ddit	ional a	s built	diagr	rams sho	wing	well co	nstr	uction	details	incl	uding typ	e and	j					
STATIC WAT	ER L	EVEL		, mere	rs and g	rout t		WELL	DDH I IN	G WAS CO					TD:				
NA FEET F	ROM	MARASU	NING POI	#			10-1		DRILLIN	3 WAS CO	MPLE	IED			35ft		l		
SIGNOSTARIZ	PRI	KRY CO	MTRACT	R)			PERMI		BER										
horoby		/_/	VV .	alde at			2876			· 									
hereby c the Depart	mile	DK OL M	aturai r	nitorii Resou	ng well h Irces rea	erein uirem	describ ents fo	ed w	as co	nstructe	d in	accorda	nce wi	th					
SIGNATURE	WEL	LORILLE	(R) -	/		PER	MIT NUMB	ER	DATE				Wells						
d/XI.	4	DN	1 K	U		283				92-0	-05	9							
IGNATURE (APPF /	CENTICE)			PERM	AIT NUMBI	ER	DATE						TOTA	L DEF	TH:		
10 700 4145														j					1



OFFICE USE ONLY REF NO	DATE RECEIVED
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SHOOT STANSFER STANSF	A 152 7 July 22			051_072_044.0	CLUBS COLUMN	1. 10 00 1 00 2		Ph1	Ph2	* Ph3							
INFOR	MA	ION:	SUPPL	JED B	Y PRIM	MARY	CONTR	ACTOR	OR DR	RILLING CO	NTRA	CTO	R	A DIST			
OWNER N	AME										WELL	NUMB	ER			RIANCE G	
Amere											191				BY	DNR	
OWNER A	DDRE	SS		-		•	CITY	,			STATE		ZIP CODE				h a copy or
1901 C	hout	eau A	ve.				St.	Louis			МО		63166		pro	vide numb	er of variance.
SITE NAMI	Ē								CONTAC	CT NAME	10		05100				
Labadie	e Po	wer P	lant						Paul F	Pike							
SITE ADDR									СПҮ				Si	TATE	I ZIP	CODE	·
226 Lal	badi	Pow	er Plar	ıt Rd	MC L	RD-64	15		Labad	lia				10	630		
PROPOSE	D USE	OF WE	Ш		1110 10.	<u> </u>		OF POTEN		iic		Т	MONITOR	ING EOB:	CHECK	ALL THAT AF	DDI VI
☐ Gas I	Moni	oring \	Well	ПМо	nitoring		Пн	azardous	Materia	i ⊠	andfill						Products Only
Extra		_			zomete			itial Site			.U.S.T.	ĺ					_
					_0,,,0,0						.0.3.1.	i	☐ Explo			Metals	□ voc
AREA	l co	UNTY		T E	LEVATIO		<u> L. VV</u>	ater Leve	ei Drawd				SVO			esticides/	Herbicides
1		rankli			0465'	•				SN	ALLES	Т	L	ARGEST	•		
LOCATION					9105						14		%_]	NW/	1/		
Lat. 38			22	, 40	28.1	н		otion 17	,	Township			^			^ = -	. —
Lat. 30 Long. 90			33 <u></u> 49	', - <u>16</u>	700/ 	- ,	36	cuon 1 /		i ownsnip	44 NO	orm			Range	_2 🔀 Ea	st 🔲 West
		$\overline{}$				TH OF	- 1	DIAMETE	ROF	DIAMETE	P AND D	EDTU /	or I ppo	TECTIVE			LOCKING CAP?
TYPE OF			Above (Ground			CASING	PROTECT	IVE CASIN	IG THE HOLI	E PROTE	CTIVE			⊠ :	Steel	
SURFACE			Flush M	lount	ĺ					CASING V	VAS PLA	CED	MAT	ERIAL		Aluminum	⊠ Yes
		_	1 10311 14	iou.it) 5	ft.		4x	4 in.	12 in.	2 ft.				□F	Plastic	□ No
WEEP HOL	E?	VENTE	D CAP?	LENGT	H OF FLL	SH	DIAMETER OI		DIAMET	ER AND DEPTH	OF THE		011754		Γ=		<u> </u>
Yes	J	☑ Ye	s	MOUN	ſ		TAUON		HOLE F	LUSH MOUNT W	AS PLAC	ED .	SURFAC		⊠ Co	oncrete	
□ No	Ī	□ No		ļ		_			Ī				GROUT		По	ther	
	LEN		DIAMET	ED 1	VEIGHT	ft.	ATTER 0.5	ft.	<u> </u>	in.		ft.					
	LEIN	3111	DUANE		OR SDR#		METER OF LL HOLE	MATERIA				DEL	ITONITE	LENG' SEAL	TH OF	MATERIAL	
RISER				1.	••	i			el 🔼 TI	hermoplastic	(PVC)	SEA				Slurry	Pellets
PIPE	28	t.	2 in.		10	0.6	9 ft.	Oth	er	_				3 ft.		Granu	ılar 🏻 Chips
DETAIL	GLU	ED					SECON	DARY FIL	TER PAC	K			DE	PTH	F	ORMATION	DESCRIPTION
		es	ĺ	⊠ Sa	turated	Zone	□Unsat	ursted 7	one H	ydrated 🛛 Y	~	No.	FROM				
ľ	× I	do.	-		th Zone						65 LJ	NU	0	10	Sil	t and Cla	v
							If Yes, H						10	18			ine Sand
PRIMARY	L	NGTH	- 1	DEPTH	TO TOP	OF PRIM	ARY FILTER	PACK S	ECONDAR	Y FILTER PACK	LENGTH		18	23		dium Sar	
FILTER	İ		ĺ										23	28	- 1		
PACK	1	3.5 f	Ł			21.3	ft.	- 1		1.7	ft.		28	35		avelly Sa	na
	D	3 Bent	onite SI	ипу		Пс	ement/Ben	tonite Si	IMV	LENGTH			1 20	33	Fin	e Sand	
ANNULAR	1 -	_		•	_				•	ļ				1	Í		
SEAL	╽┖	1 иоп	Siurry E	entonit	e iype	∐В	ags of Cerr	ent Use	a	ļ			l	1	1		
						□ %	of Bentoni	ite Used		1				1	1		
	-					⊠ 14/	ater Used/	Pag 25 d		16.6	ft.		ĺ				
	I FN	GTH	DIA	METER	DIAL	ETER	DEPTH TO		jai.	<u> </u>			ł	ĺ	1		
WELL		•	55.		OFD	RILL.	TOP OF		<u> </u>	MATERIAL			l i	i			
SCREEN					HOLI	•	SCREEN	_	Steel [★ Thermopla	stic (P	VC)			İ		
	10	ft.	2"	ft.	8.2	5 in.	24.5 ft.		Other _				TD:		i		
Multiple C	ased	Wells	□ Ye	s 🖾 N				alled for	Demodi	ation			35ft	l	1		
	_														1		
size of all	uaiu	ina b	olo dio	olagra:	ms sno	wing	well cons	truction	details	including ty	pe and	1					
STATIC WAT				unerets	and g	rout u							i		1		
NI FEET FE			VG 5 LL	,	-		DATE WEL	L DRILLING	WAS CO	MPLETED					1		
SIGH		, , ,					12/17								I		
				<i>(</i> 70)			PERMIT NU 2876M	MBER							1		
/ no	<i></i>	100	-	•													
nereby C	entify	tnat i	ine moi	nitoring	y well h	erein (described	was cor	structe	d in accorda	nce w	ith			1		
SIGNATORE (WEV.	RILLE	R)	เขอบนา	~02 LEd		IT NUMBER	DATE	uction (of monitoring	g wells	•	ł		ı		
.[]	27			`/		ŀ) JA1E	1/4	-/10			j		1		
SIGNATURE (APPR	ENTICE	y l	//		283	T NUMBER	DATE	7/ 1	117							
(1	0	-			· Lruw	HUMBER	JAIE				İ	TOTA	L DEP	ΉH:		
			THEN					1									



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*INFOR	MA	TION	SUPPI	LIED	BY PRI	ARY C	ONTR	ACTOR	OR DI	RILLI	NG CO	NTRA	CTC)R	el V	1.64		
Amere	n					-						WELL 193	NUME	BER		VA BY	RIANCE (GRANTED
1901 C			lve.				CIT	y Louis				STATI	- 1	ZIP CODE			Yes. Atta	ch a copy or ber of variance.
SITE NAM	E						DL	Louis	CONTA	CT NAI	ME	МО		63166		Pic		
Labadi	RESS					 -			Paul	Pike				l s	TATE	ZIP	CODE	
226 La	badi	e Pov	er Plan	nt Rd	., MC L	3D-645			Labac					N	10	630	055	
☐ Gas					ionitoring			OF POTEN		•	⊠ La	-deil					ALL THAT A	
☐ Extra	ction	Well			iezomete	s		itial Site			_	U.S.T.	l	☐ Expl			Petroleum Metals	Products Only
AREA	1 6	OUNTY			ELEVATION	-	_ Dw	ater Lev	el Drawo	down				SVO		_		/Herbicides
1	F	rankli			@465'						SM	ALLES	Т	L	ARGEST			
LOCATION	OF W					_	7 .		_			_¼ _		1⁄4	NW	_¼		
Lat. 38_ Long. 90		<u> </u>	33 <u> </u>	<u> </u>	15N 9W	"	Se	ection 17		Tow	nship4	l4 No	orth			Range	_2 🛭 Ea	st 🗌 West
TYPE OF			Above (Groun	d PROT	TH OF ECTIVE C	ASING	DIAMETEI	R OF IVE CASIN	NG	DIAMETER THE HOLE	AND D	EPTH	OF PRO	TECTIVE		Steel	LOCKING CAP?
SURFACE COMPLET			Flush M		ŀ		[CASING W	AS PLA	CED	MAT	ERIAL		Numinum	⊠ Yes
WEEP HOL	E?	VENTE	CAP?	LENG	5 TH OF FLU		METER O	6 F FLUSH	in.		14 in. :	2 ft.		PV	<u> </u>	⊠ F	Plastic	□ No
⊠ Yes		⊠ Ye		MOU			UNT		HOLEF	LUSH	MOUNT WA	S PLAC	ED	SURFAC		⊠ c	oncrete	
□ No		□ No				ft.		ft.		in.			ft.	GROUT		□ Ot	her	
- 1	LEN	GTH	DIAMET	ER	WEIGHT OR SDR#	DIAME DRILL	TER OF HOLE	MATERIA						TONITE	LENGT SEAL	TH OF	MATERIAL	
RISER	28:	ft	4 in.	ł	40	0.05				hemo	oplastic (I	PVC)	SEA		}		⊠Slum □	_
PIPE DETAIL	GLU		7 7715			0.85		Other		-K				T 05	3 ft.	L E		ular Chips
	□ '	res ·		⊠s	aturated .						ed 🛛 Ye	s П в	<u></u>	FROM	TO		JRMATION	DESCRIPTION
	X	No			oth Zone			ydrated				٠	••	0	6	,	t and Cla	•
PRIMARY	Ц	NGTH		DEPT	н то тор с	F PRIMAR	Y FILTER	PACK S	ECONDAR	RY FILT	ER PACK L	ENGTH	-	6 15	15 28		ry Fine S	
FILTER PACK	1	3.5 fi	. 1			21.4	4				•			28	33		ry rine S e Sand	ilty Sand
	1	_	onite Si	umv	···········		ft.	tonite Sit	1777	LEN	2.0 GTH	ft.	_	33	35		dium Saı	nd
ANNULAR	1			•	ite Type				-					l				
SEAL			•					te Used										,
								Bag 25 g		16.	4	ft.				1		
14/51	LEN	GTH	DIA	WETER	DIAM! OF D	TER I	DEPTH TO		,,	MAT	ERIAL					1		
WELL SCREEN					HOLE		SCREEN	1		The	emoplas	tic (PV	(C)	777	i			
	10		4"		10.3	in.	24.6 ft.		Other _		<u>. </u>			TD: 35ft		1		
Multiple Ca			☐ Ye			Pı	ımp Inst	alled for	Remedia	ation	☐ Yes							
Submit ac size of all	casi	ing, ho	s built (ole dia:	olagra meter	ams shows and ar	wing we out use	ill consi d.	truction	details i	inclu	ding type	e and	ļ					
STATIC WATE NI FEET FRO	R LE	/EL _	71	!	<u> </u>	0	ATE WELL	L DRILLING	WAS CON	MPLETE	D							
SIGNATURE			,,,	R)			2/17 ERMIT NU	MBCD			<u></u>			. [
Zily	<u> </u>	lur	1	<i>*</i>		2	876M						ł	}		ł		
hereby ce	rtify	that t	he mon	itorin	g well he	rein des	cribed	was con	structed	d in a	ccordan	ce wit	h		1			
IGNATURE OF	77	DRILLER	()	1	See redu	PERMIT N	UMBER	DATE		1	nitoring	<u>wells.</u>						
IGNATURE (A	DDD	NICE	De	L	-	2836			1/4/	10								
	w-r ik E		_			PERMIT N		DATE						TOTAL				
O 780-1415 (0	06-09)	RET	URN CO	OMPLE	TED FOR	M TO: W	ELLHEA	D PROTE	CTION SI	ECTIO	N, PO. BO	OX 250	. ROL	LA. MO 6	5402 57:	3-368-2	165	



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MEAS	rv ir e				N KEC		· are conse	Phi	PHZ		Ph3			HUVED BY		MIE	HOUTE	
OWNER	AME	<u>IION</u>	SUPPL	TED BY	PRIMA	RY CO	NTR	ACTOR	OR DR	ĮĽĽ	ING CO	VELL	CTC)R ****	Het the			1896 481
Amere	n										l	WELL 195	NUMB	HER			RIANCE G DNR	RANTED
OWNER A							CITY					STATE	<u> </u>	ZIP CODE		\neg	Yes. Attac	h a copy or
1901 C		teau A	ve.				St.	Louis				MO		63166		pro	vide numb	er of variance.
Labadi	_	wer P	lant						CONTAC Paul P		ME	_				-		
SITE ADD	RESS								CITY					Sī	TATE	ZIP	CODE	
PROPOSE	badi D USI	e Pow	er Plar	nt Rd., M	IC LBD	-645	TYPE (OF POTEN	Labad	ie					10		055	
☐ Gas	Moni	toring \	Vell	☐ Monit	toring			azardous			⊠ La	ndfill					ALL THAT AF	PLY) Products Only
☐ Extra	ction	Well		☑ Piezo	meters	,		itial Site			☐ L.U			☐ Explo			Metals	
AREA	LC	OUNTY		1 51 5	VATION			ater Leve	el Drawde	own				□ svo				Herbicides
1		rankli	n		165'						SMA	ALLES'	T	LA	ARGEST	•		
LOCATION	OF W													¼ 1	NW	_ 14		
Lat. 38_ Long. 90		° .	33 48	', _17N 54W			Se	ction 17		Tow	nship <u>4</u>	4 No	orth		1	Range	_2 🛭 Ea	st 🔲 West
TYPE OF		T -			LENGTH		T	DIAMETER			DIAMETER	AND D	EPTH (OF PRO	TECTIVE			LOCKING CAP?
SURFACE			Above (PROTECT	TIVE CASI	NG	PROTECT	IVE CASING	G	THE HOLE CASING WA	PROTE	CTIVE	CAS		M :	Steel Aluminum	⊠ Yes
COMPLET			Flush M	lount	5	ft.		4x	4 in.	- [12 in. 2	ft.					Plastic	□ No
WEEP HOL	E?	VENTE		LENGTH (OF FLUSH	DIAME		FLUSH	DIAMETE	ER AN	ID DEPTH O	E THE		SURFAC	F		oncrete	<u></u>
□ No	-	☑ Ye					•	į	HOLLIE	.0011	MOOINI WAY	SPLAC	בט	COMPLE				
	IFN	отн Стн	DIAMET	ED I WE	ft.	DIAMETER	i or	ft.		in.			ft.	GROUT			ther	
			OF U.I.Z.			DRILL HOI			_	em	oplastic (F	31/61	BEN	ITONITE	LENG1 SEAL	TH OF	MATERIAL	
RISER PIPE	28	ft.	2 in.	40	1	0.69 ft.		☐ Othe		GIIII	opiasuc (F	-vc,	SEA		3 ft.		⊠Slurry	Pellets lar □Chips
DETAIL	GLU	ED	1				COND	ARY FIL		<u>-</u>	 			DE	PTH) FO		DESCRIPTION
		Yes	l	⊠ Satu	rated Zon						ed 🛛 Yes	s 🗆 1	Vo.	FROM	ТО	」 ¨`	JI WINT TOTAL	DESCRIPTION
l	X I	No	ļ	□ Both				drated [0	6		ay w/Silt	
PRIMARY	L	NGTH		DEPTH TO	TOP OF P	RIMARY F	ILTER F	ACK S	CONDARY	Y FILT	ER PACK L	ENGTH		6	35	VF	-F Sand	
FILTER PACK	╽,	13.4 fi	.		0.		_								•			
	_		onite Si				ft.			LEN	1.2	ft.						
ANNULAR	- 1			•				tonite Slu	- 1							ł		
SEAL	-] NON	Siully B	entonite '														
	1							te Used _	i	17.	5	ft.						
	LEN	GTH	DIAN	WETER	DIAMETEI		Jsed/E	3ag 25 g	ai.			16.						
WELL					OF DRILL HOLE	TOF	OF REEN		Steel IV	MAT 1 Th	TERIAL ermoplasi	Ho (D)	<u>/C\</u>			1		
SCREEN	10	ft	2"1		8.25 in.	- [.8 ft.		Other	¥	omopiasi	uc (F v	,,,			İ		
Multiple Ca				s 🛭 No	0.23 111.					tion	_ ☐ Yes		_			1		
Submit ac					s showin	a well	const	ruction (detaile i	nclu	ding type	a and		TD:		l		
size of all	cas	ıng, no	ole diar	meters a	nd grout	used.				ICIU	ding type	s aliu	j	35ft				
STATIC WATE NI FEET ER			NG POINT	///		12/		DRILLING	WAS COM	PLET	ED					1	•	
SIONAL LIKE (, ,	/ /	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,			MIT NUI	MBER					-					
Tub.	1/	<u> </u>	كرير				6M						ı	I			٠	
hereby co	rtify	that t	he mon	itoring w	veli herei	n descr	ibed v	was con	structed	in a	ccordan	ce wit	th			1		
he Depart	FE7 /	ORILLE	3)	-source:	P 18quile	MENTS T	OF THE	DATE				wells.	4			l		
1/ 5	1/2	en	n	La	28	36			1/4	4/1	0							
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					ION F			_	Phi	Ph2			de entre		ROVED BY		DATE	ROUTE		
INFOR	MAT	ION	SUPP	LIED	BY PR	MAI	RY CO	ONTR	ACTO	RORDE	RILLI	NG CO	NTRA	CTO	R					
OWNER	W-UVILL												WELL	NUMB	ER			RIANCE G	RANTED	
Amere OWNER A								CITY					197					DNR	-	
1901 C		_	720									ſ	STATE	- 1	ZIP CODE		7 🛴	Yes. Attack	h a copy or er of variance.	
SITE NAM		au P	146.					St.	Louis	CONTA	CT NA	<u> </u>	MO		63166		Pio	vide Hallibi	er or variance.	
Labadi	e Pov	ver P	lant							Paul		MIC								
SITE ADD										CITY					1 6	FATE	7/0	CODE		
226 La	badie	Pow	er Pla	nt Rd	., MC I	BD-	-645			Labac	die					10				
PROPOSE	DUSE	OF WE	ш	_	. ,			TYPE	OF POTE	NTIAL SITE							63055 FOR: (CHECK ALL THAT APPLY)			
☐ Gas			Well		lonitorin;	_		□Ha	azardo	us Materia	al	⊠ La	ndfili					s Petroleum Products Only		
│ □ Extra	Extraction Well ☑ Piezometers ☐ Initial Site Assessment ☐ L.U.S.T.								- 1	☐ Expl			Vetals	□ voc						
								□ w	ater Le	vel Drawo	down	_			SVO			Pesticides/l		
AREA	1	unty ankli	n		ELEVATION	ON						SMA	ALLES	<u> </u>		ARGEST			10/10/000	
LOCATION			ш		@465'											A 717 7				
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TYPE OF					LEN	IGTH (DIAMET		T	DIAMETER	AND DE	PTH (OF PRO	TECTIVE			LOCKING CAP?	
SURFACE	E		Above		id PR	DIECT	IVE CA	SING	PROTE	CTIVE CASIN	NG	THE HOLE CASING WA	PROTE	CTIVE	CAS	ING	U,	Steel	⊠ Yes	
COMPLE	TION		Flush M	/ount		_	•				ı			JLU	PV	ERIAL		Vuminum	□ No	
WEEP HOL	E? V	<u> </u> ENTE	CAP?	LENG	3TH OF FL		ft.	ETER OF	FILISH	in.	TED AN	14 in . 2	ft.				⊠F	Plastic		
Yes	Ì	⊠ Ye	s	MOU			MOU	NT	LOGIS		LUSH	MOUNT WA	S PLAC	ED	SURFAC		⊠ co	oncrete		
☐ No	10	_] No				4									COMPLI GROUT		ПО	her		
	LENG	тн	DIAMET	FR T	WEIGHT	ft.	IAMETI	ED OF	ft		in.			ft.						
				· · ·	OR SDR#		RILL H			dal eel⊠Ti	'hom	onlantia (s		BEN	TONITE	LENG' SEAL	TH OF	MATERIAL		
RISER	28 ft		4 in.	1	40	١,	. 0				Henne	opiasuc (F	² VC)	SEA		1		Slurry	Pellets	
PIPE DETAIL	GLUE		4 m.			10).85 ft			her						3 ft.			lar □Chips	
DEIAIL	□ Y									LTER PAC	_					PTH	FC	DRMATION I	DESCRIPTION	
ľ										Zone H			s 🔲 1	lo	FROM 0	6 6	┨			
	⊠ N	0		_	oth Zon					☐ Yes					6	28		and Clay	<i>,</i>	
PRIMARY	LEN	IGTH		DEPT	н то тор	OF PF	RIMARY	FILTER F	PACK	SECONDAR	RY FILT	ER PACK LI	ENGTH		28	33	- 1	-F Sand		
FILTER PACK	1	_	1												33	35		dium San	_	
TAOR	13	3.5 f				21	.2	ft.				1.9	ft.		"			-F Sand w	W Wood	
		Bente	onite SI	urry			Ceme	nt/Beni	tonite S	Slurry	LEN	GTH			ľ		FIA	gments		
ANNULAR SEAL		Non :	Slurry E	Benton	ite Type		Bags	of Cem	ent Us	ed	ŀ									
SEAL								3entoni								•	1			
											16.	3	ft.				1			
	LENG	TLI	DIA	METER	l DIA	METER		Used/I		gal.	10.									
WELL		•••	"	WE I EI	OF	DRILL	TO	EPTH TO OP OF		300	MAT	TERIAL								
SCREEN			1		HOI	E	50	CREEN		Steel [XI The	ermopiasi	tic (PV	(C)			}			
	10 ft	•	4"	ft.	10.	<u>3 in.</u>	2	4.4 ft.	<u> </u>	Other_				- 1	TD:		1			
Multiple Ca	_		☐ Ye	_			Pur	np Inst	alled fo	r Remedi	ation	☐ Yes			35ft		ļ		İ	
Submit a	dditior	nal a	s built	diagra	ams sh	owin	g wel	const	ructio	n details	inclu	ding type	e and				1		ļ	
SIZE OF ALL	casır	ıg, ho	ole dia	meter	rs and g	prout	used	l <u>. </u>				- **		J			1		ļ	
				J/l					. DRILLI	IG WAS CO	MPLET	ED			ł					
NI FEET FR	PHILLIP	7 ''''	TRACTO					2/17	MORE								i			
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OWNER A		_	-					CIT	•				STATE	E T	ZIP CODE		\neg	Yes. Attac	h a copy or
1901 C	houte	au A	ve.					St.	Lou		CONTAC	TNAME	МО		63166	·	pro	vide numb	er of variance.
Labadi		er P	lant								Paul P								
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226 La PROPOSE	D USE C)F WE	LL	ut Ka	., M	LBL	-045	TYPE	OF PO	TENTIA	Labadi	<u>e</u>			MO 63055 MONITORING FOR: (CHECK ALL THAT APPLY)				DDI VI
Gas			Veli		fonito						fateria!		andfill						Products Only
☐ Extra	iction v	Veli		⊠ P	iezom	neters					sessm	_	U.S.T.		☐ Expl			Metals	□ voc
AREA		INTY			ELEVA			<u> </u>	ater	Level	Drawdo		ALLES		SVO	CS ARGEST		Pesticides/	Herbicides
1 LOCATION		nkli 1	<u> </u>		@46	55'		-					14		¼	NTW/	1/		
Lat. 38_		. • ;	33 <u> </u>		14N_	,		Se	ection	17	7	Fownship4	—∕* - 44 No	orth				2 ⊠ Fa	st 🔲 West
Long. 90		-	49		13W	LENGTH	ÖF	<u> </u>		ETER O		DIAMETER			or I no	TECTIVE			
TYPE OF SURFACE			Above (id i	PROTEC		SING	PROT	ECTIVE	CASING	THE HOLE	PROTE	CTIVE	CAS	DIECTIVE BING TERIAL			LOCKING CAP?
COMPLET			Flush M	lount		5	ft.			6 in	1 .	14 in.			PV			Numinum Plastic	□ No
WEEP HOL	1	Yes	CAP?	LENG		FLUSH		METER O	F FLUS	SH [DIAMETE	R AND DEPTH (OF THE	ED	SURFAC	CE		ncrete	
□ No] No					ł						1011270		COMPLI	ETION	-		
	LENGT	н	DIAMET	ER	WEIG	ft.	DIAMET	ER OF	_	ft. ERIAL		ln.		ft.		LENGT		her	
RISER					OR SI	DR#	DRILL H	OLE		Steel	⊠ The	ermoplastic (PVC)	BEN	ITONITE	SEAL	n or	Slurry	
PIPE DETAIL	28 ft.		4 in.	1	40	\perp L	0.85 f			Other		-		Ų.		3 ft.		□Granu	lar Chips
DETAIL	☐ Ye		ŀ	⊠s	atura	ted Zor		SECONI							FROM	PTH TO	FC	RMATION	DESCRIPTION
	⊠ No		ļ		oth Z			Yes, H				drated ⊠ Ye	s Lji	NO.	0	8	Silt	and Clay	7
PRIMARY	LEN	GTH		DEPT	н то т	OP OF P						FILTER PACK L	ENGTH		8 23	23	VF	-F Sand	
FILTER PACK	1,,	2 ~	ĺ							İ					28	28 35		-F Gley S arse Sand	
		.3 ft	nite Si				1.6	ft.		<u></u>		1.8 LENGTH	ft.				100	nse sand	
ANNULAR	1			-				ent/Ben of Cem		-	y				ļ				
SEAL	-		J. G. 1. 7 D	- Critton				Bentoni										-	
								r Used/l		_	- 1	16.8	ft.						
14/51	LENGT	Н	DIAM	WETER		DIAMETE OF DRILL	R D	EPTH TO		yai.		MATERIAL							
WELL SCREEN						HOLE		CREEN		☐ Ste	eel 🛛	Thermoplas	tic (PV	(C)]		
	10 ft.		4" 1			10.3 in.		4.6 ft.		Off					TD:		l		
Multiple Ca			☐ Yes		_							ion 🗌 Yes			35ft				
size of all	casing	g, no	le dia	neter	ams : I s and	snowir d grou	ig wei t usec	i consi i.	iructio	on de	tails in	cluding typ	e and	ı					
DATE WELL DRILLING WAS COMPLETED 12/17																			
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~ 100-1412 (C	10-03)	KE (UKN UC	/mrLt		rukm 1	U: WE	:LLHEA	D PRC	TECT	ION SEC	CTION, PO. B	OX 250	. ROL	LA. MO 6	5402 573	3-36R-2	165	



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	Pro Phi	The reside to a			
INFORMATION SUPPLIED BY PRIMARY CONTRACTOR CONNER NAME	VRIDRILLING CONTRACT WELL NO		VARIANCE GRANTED		
Ameren OWNER ADDRESS			BY DNR		
GIT	STATE	ZIP CODE	Yes. Attach a copy or provide number of variance.		
24 2046	MO CONTACT NAME	63166 provide number of vans			
OFF ADDRESS	Paul Pike				
	CITY	STATE	ZIP CODE		
PROPOSED USE OF WELL TYPE OF POTENTIA	Labadie ALSITE	MO 63055 MONITORING FOR: (CHECK ALL THAT APPLY)			
Gas Monitoring Weil Monitoring Hazardous			es Petroleum Products Only		
☐ Extraction Well ☐ Plezometers ☐ Initial Site As		☐ Explosives	Metals □ VOC		
AREA COUNTY ELEVATION Water Level	SMALLEST	SVOCS LARGES	Pesticides/Herbicides		
1 Franklin @465'					
Lat. 38 ° 33 ' _12N " Section 17 Long. 90 ° 49 ' 6W "		% NW			
			Range 2 East West		
TYPE OF SURFACE Above Ground LENGTH OF PROTECTIVE CASING PROTECTIVE	E CASING THE HOLE PROTECT	VE CASING	Steel Looking on		
COMPLETION Flush Mount	CASING WAS PLACED	MATERIAL PVC	☐ Aluminum ☐ Yes ☐ No		
WEEP HOLE? VENTED CAP? LENGTH OF FLUSH DIAMETER OF FLUSH	DIAMETER AND DEPTH OF THE		Plastic LI NO		
	HOLE FLUSH MOUNT WAS PLACED	SURFACE COMPLETION	☑ Concrete		
□ No □ No ft. ft.	in. ft	GROUT	☐ Other		
LENGTH DIAMETER WEIGHT DIAMETER OF MATERIAL OR SDR# DRILL HOLE	⊠ ∓hB	LENG ENTONITE SEAL	TH OF MATERIAL		
RISER 204 2 h 40	23 monitopiastic (PVC)	EAL	⊠Slurry		
PIPE 26 IL 2 II. 10 SECONDARY FILTE		3 ft.	Granular Chips FORMATION DESCRIPTION		
☐ Yes		FROM TO	- TORMATION DESCRIPTION		
☑ No ☐ Both Zones If Yes, Hydrated ☐		0 10 10 23	Silt and Clay		
	ONDARY FILTER PACK LENGTH	$\begin{array}{c c} -10 & 23 \\ 23 & 28 \end{array}$	Very Fine Silty Gley Sand		
PACK 13.7 ft. 21.3 ft.	10	28 35	Very Fine Sand Medium Sand		
13.7 ft. 21.3 ft. ☑ Bentonite Slurry ☐ Cement/Bentonite Slurry	1.3 ft.	-			
ANNULAR Non Sturry Bentonite Type D Born of Compart Hood	•		,		
SEAL State S					
✓ Water Used/Bag 25 gal	17.0 ft.				
LENGTH DIAMETER DIAMETER DEPTH TO	MATERIAL	-			
WELL OF DRILL TOP OF SCREEN SCREEN SCREEN	teel Thermoplastic (PVC)				
10 ft. 2" ft. 8.25 in. 24.7 ft. □ O	ther	TD:			
Multiple Cased Wells ☐ Yes ☒ No Pump Installed for R		35ft			
Submit additional as built diagrams should a coul	etails including type and	7			
Submit additional as built diagrams showing well construction de		_ -			
STATIC WATER LEVEL DRIFT IN THE WELL DRIFT IN CA	AS COMPLETED	1 1	i i		
STATIC WATER LEVEL DATE WELL DRILLING W. 12/17	AS COMPLETED				
STATIC WATER LEVEL DATE WELL DRILLING W 12/17 SIGNATURE (PRIMARY CONTRACTOR) PERMIT NUMBER	AS COMPLETED				
STATIC WATER LEVEL DATE WELL DRILLING W 12/17 SIGNATURE (PRIMARY CONTRACTOR) PERMIT NUMBER 2876M hereby certify that the monitoring well herein described was considered.	rated in accordance with	4			
STATIC WATER LEVEL DATE WELL DRILLING W 12/17 SIGNATURE PROMUE A CONTRACTION PERMIT NUMBER 2876M hereby certify that the monitoring well herein described was constituted by the construction of Natural Resources requirements for the construction of the construction	rated in accordance with				
STATIC WATER LEVEL DATE WELL DRILLING W 12/17 SIGNATURE (PERMAN CONTRACTION) PERMIT NUMBER 2876M hereby certify that the monitoring well herein described was constituted by the Department of Natural Resources requirements for the construction of Natural Resources requirements and grout used. DATE WELL DRILLING W 12/17 PERMIT NUMBER 2876M PERMIT NUMBER DATE	ructed in accordance with tion of monitoring wells.				
TATIC WATER LEVEL NI FEET FROM MEASURING POINT 12/17 DATE WELL DRILLING W 12/17 PERMIT NUMBER 2876M hereby certify that the monitoring well herein described was constitutionally and the Department of Natural Resources requirements for the construction.	rated in accordance with	TOTAL DEP	TH:		

Appendix 8

Development Records

Detailed Site Investigation Proposed Utility Waste Disposal Area Ameren Labadie Power Plant

Location: Ame	eren Laba	die Plant DSI	- L	·		Date: 11/02/09						
Piezometer:			P-9			Initial Depth to	Groundwater	(ft, btoc):	7. 6 5 ft			
Borehole Diam	eter:		10.25"			Base of Well (1	ft, btoc):	37.97 ft	37.97 ft			
Casing Diamet	er:		4"			Filter Pack Hg	t (ft):	15.5 ft				
Development r	nethod:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Coarse sand						
Date/Tin of each purge	Purge Volume (cummulative) (gallons)				Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)				
11/2/09	2:34	171	19.7	16.9	56	166	clear	7.65	same			
Comments:						- <u>-</u> -						
Name: Mi	ke Carlso	n				Company:	Gredell Engine	eering Resources	s, Inc.			

_OCaliOn. A	\meren Laba	die Plant DSI				Date: 10/13/09	•			
Piezometer:			P-12			Initial Depth to	Groundwater	(ft, btoc):	14.36 ft	
Borehole Di	iameter:		8.25"			Base of Well (1		36.76 ft		
Casing Diar	meter:		2"			Filter Pack Hgt	' (ft):	14.3 ft	14.3 ft	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Medium sand				
Date	/Time	Purge Volume	Casing	Annular	 Tremie	Total Purge	Turbidity	Initial	Ending	
	each					1 - 1	-		. •	
		(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
10/7	11:27		2.5	64		F4	·	16.84		
10/13 10/13	3:00 3:11 - 3:23	20	3.6	6.1	25	54		14.36		
10/13	3:11 - 3:23	20 (40)	<u> </u>			 				
10/13	3:45 - 3:54	15 (55)							14.32	
	0.40 - 0.04	10 (00)							14.32	
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Comments:	·	Water darker tha	an usual (First 25 G	allons)	· · · · · · · · · · · · · · · · · · ·		. -		
								···		
No 200 :	Coott Vins						01 # = -:	· <u> </u>		
<u>Name:</u>	Scott King		·			Company:	Gredell Engine	ering Resources	s, Inc.	

Piezometer: P-15	Location: /	Ameren Laba	die Plant DSI				Date: 10/13/09)			
Base of Well (ft, btoc): 37.55 ft Casing Diameter: 2" Filter Pack Hgt (ft): 14.2 ft Screened Interval Lithology: Medium sand	Piezometei	r:		P-15			Initial Depth to	Groundwater	(ft, btoc):	13.89 ft	
Development method: Submersible Pump/Bailer Screened Interval Lithology: Medium sand	Borehole D	Diameter:		8.25"					37.55 ft		
Date/Time of each of	Casing Dia	meter:		2"					14.2 ft		
of each purge (curmulative) (gallons) Volume (gallo	Developme	ent method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Medium sand				
purge (gallons) (gallons) (gallons) (gallons) (ft., btoc) (ft., btoc) 10/7 10:39 17.17 10/13 9:48 3.8 6.1 30 60 13:89 10/13 9:59 - 10:12 20 13:89 10/13 10:17 - 10:29 20 (40) 13:89 10/13 10:35 - 10:47 20 (60) 13:89 13:89	Date	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
10/7 10:39 17.17 10/13 9:48 3.8 6.1 30 60 13.89 10/13 9:59 - 10:12 20 13.89 10/13 10:17 - 10:29 20 (40) 10/13 10:35 - 10:47 20 (60) 13.89 13.89 Comments:	of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
10/13 9:59 - 10:12 20 13.89 10/13 10:17 - 10:29 20 (40) 10/13 10:35 - 10:47 20 (60) 10/13 10:35 - 10:47 20 (60) Comments:			(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
10/13 9:59 - 10:12 20 13.89 10:17 - 10:29 20 (40) 13.89 110:13 10:35 - 10:47 20 (60) 13.89 13.89 10:17 - 10:29 20 (40) 13.89 10:18 10:18 10:35 - 10:47 20 (60) 13.89 13.				···					17.17		
10/13 10:17 - 10:29 20 (40) 10/13 10:35 - 10:47 20 (60) 13.89 Comments:				3.8	6.1	30	60				
10/13 10:35 - 10:47 20 (60) 13.89									13.89	····	
Comments:									<u> </u>		
	10/13	10:35 - 10:47	20 (60)							13.89	
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	Comments	<u></u>		<u> </u>			<u> </u>		L	L	
Name: Scott King Company Condall Facing along Bases In	Comments	•							······		
Name: Scott King Company Condall Engineering Description											
NEITHE STAN KIND	Mamai	Coott Kins					0	0 1 11 = 1			
Name: Scott King Company: Gredell Engineering Resources, Inc.	Name:	Scott King	 				Company:	Gredell Engine	ering Resources	s, Inc.	

Location: I	Ameren Labad	die Plant DSI				Date: 10/13/09)	111111111111111111111111111111111111111		
Piezomete	r:		P-17			Initial Depth to	Groundwater	(ft, btoc):	14.22 ft	
Borehole D	Diameter:		8.25"			Base of Well (ft, btoc):	37.59 ft	37.59 ft	
Casing Dia	meter:		2"			Filter Pack Hg	t (ft):	14.1 ft		
Developme	ent method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Fine sand				
Date	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
ρι	ırge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	, ,	(ft., btoc)	(ft., btoc)	
10/7	10:20							16.72		
10/13	11:19		3.7	6.1	30	59		14.22		
10/13	11:27 - 11:39	20						14.22		
10/13	11:43 - 11:56	20 (40)								
10/13	12:01 - 12:13	20 (60)							14.21	
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Comments	<u> </u>		l					<u> </u>		
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Mame:	000#1/2							·		
Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.	

Location: Ameren Laba	die Plant DSI	71			Date: 11/02/09						
Piezometer:		P-19			Initial Depth to	Groundwater	(ft, btoc):	6.17 ft			
Borehole Diameter:		10.25"			Base of Well (37.33 ft				
Casing Diameter:		4"			Filter Pack Hg						
Development method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Medium-Coarse sand						
Date/Time of each purge	Purge Volume (cummulative) (gallons)				Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)			
11/2 10:46	168	20.3	16.2	53	163	clear	6.17	6.19			
Comments:											
Name: Mike Carlso	n				Company:	Gredell Engine	ering Resources	, Inc.			

Location: A	Ameren Labad	die Plant DSI			Date: 10/13/09						
Piezometer	•		P-20			Initial Depth to	Groundwater	(ft, btoc):	13.46 ft		
Borehole D	iameter:		8.25"			Base of Well (ft, btoc): 37.50 ft					
Casing Dia	meter:		2"			Filter Pack Hg	t (ft):	14.7 ft	14.7 ft		
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Fine sand					
Date	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending		
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level		
pu	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	,	(ft., btoc)	(ft., btoc)		
10/13	8:27		3.8	6.3	25	56		13.46	· · · · · · · · · · · · · · · · · · ·		
10/13	8:40 - 8:52	20									
10/13	8:57 - 9:09	20 (40)									
10/13	9:15 - 9:25	15 (55)							13.44		
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Comments:			· · ·	·		<u> </u>					
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Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.		
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Location: A	meren Laba	die Plant DSI	**************************************			Date: 10/14/09				
Piezometer:			P-22			Initial Depth to	Groundwater	(ft, btoc):	13.21 ft	
Borehole Di	iameter:		10.25"			Base of Well (1	t, btoc):	37.50 ft		
Casing Diar	neter:		4"			Filter Pack Hgt	(ft):	13.5 ft		
Developme.	nt method:		Submers	ible Pump	/Bailer	Screened Inter		Coarse sand		
41	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
1	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
10/14	2:11		15.8	14.7	36	128		13.21	+ <u></u>	
10/14 10/14	2:20 - 2:34 2:40 - 3:05	20						 		
10/14	3:14 - 3:28	20 (40) 20 (60)	<u> </u>							
10/14	3:54 - 4:20	20 (80)						13.18		
10/14	4:28 - 4:46	20 (100)					- <u></u>	13.10		
10/14	5:00 - 5:14	20 (120)								
10/14	5:17 - 5:34	15 (135)							13.15	
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Comments:	· · · · · · · · · · · · · · · · · · ·	Pump Clogged								
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Name:	Scott King		,		·····	Company:	Gredell Engine	ering Resources	Inc	
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Location: A	meren Laba	die Plant DSI		· · · · · · · · · · · · · · · · · · ·		Date: 10/12/09)		
Piezometer:	•		P-24			Initial Depth to	Groundwater	(ft, btoc):	13.78 ft
Borehole Di	iameter:		8.25"			Base of Well (1		37.61 ft	
Casing Diar	meter:		2"			Filter Pack Hg	t (ft):	14.2 ft	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Intel	rval Lithology:	Fine-Medium s	and
Date/	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
pui	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	,	(ft., btoc)	(ft., btoc)
10/7								15.70	()
10/12	1:48		3.8	6.1	35	65		13.78	
10/12	2:01 - 2:13	20						13.78	
10/12	2:20 - 2:33	20 (40)	<u>-</u> -						
10/12 10/12	2:39 - 2:50 2:53 - 2:56	20 (60)			<u> </u>				
10/12	2.55 - 2.56	5 (65)						-	13.78
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Name:	Scott King				· · · · · · · · · · · · · · · · · · ·	Company:	Gredell Engine	ering Resources	lnc
				· · · · · ·			C. CGOII ETIGITIC	omig resources	, 1110.

Location: A	meren Laba	die Plant DSI				Date: 10/12/09					
Piezometer.	•		P-27			Initial Depth to	Groundwater	(ft, btoc):	13.25 ft		
Borehole Di	iameter:		8.25"			Base of Well (1		38.27 ft			
Casing Diar			2"			Filter Pack Hgt	' (ft):	14.9 ft			
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	val Lithology:	Medium-Coars	e sand		
H	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending		
1	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level		
	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)		
10/7	10:46	: 						16,39			
10/12	3:30 3:47		3.9	6.4	40	71		13.25			
	3:47 3:57 - 4:09	20						13.25			
	4:14 - 4:26	20 (40)									
	4:31 - 4:42	20 (60)									
	4:47 - 4:54	11 (71)					···	<u> </u>	13.41		
							· · · · · · · · · · · · · · · · · · ·		10.41		
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Name:	Scott King		·	<u></u>		Company:	Gredell Engine	ering Resources	Inc		
		<u> </u>				Company.	Creden Engine	cing itesources	, 1110.		

Location: I	Ameren Labad	die Plant DSI				Date: 10/14/09				
Piezomete.	r:		P-29			Initial Depth to	Groundwater	(ft, btoc):	12.12 ft	
Borehole D	Diameter:		8.25"			Base of Well (37.54 ft		
Casing Dia	meter:		2"			Filter Pack Hg	t (ft):	14.2 ft		
Developme	ent method:		Submers	ible Pump	/Bailer			Medium-Coars	e sand	
Date	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	En eline e	
1	each	=		1			Turbidity	Initial	Ending	
1		(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	<i>Irge</i> 10:26	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
10/7	10:20		4.1	6.1	35	- 00		15.10		
10/14	10:38 - 10:50	20	4.1	0.1	35	66		12.12 12.12		
10/14	10:55 - 11:07	20 (40)					·	12.12		
10/14	11:12 - 11:24	20 (60)								
10/14	11:27 - 11:32	6 (66)							12.18	
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Comments	:									
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		·								
Name:	Scott King		·			Company:	Gredell Engine	ering Resources	, Inc.	

Location: A	meren Laba	die Plant DSI		<u>, , , , , , , , , , , , , , , , , , , </u>		Date: 11/11/09				
Piezometer:			P-31			Initial Depth to	Groundwater	(ft, btoc):	7.81 ft	
Borehole Di	ameter:		10.25"			Base of Well (37.09 ft		
Casing Dian	neter:		4"		· -	Filter Pack Hg		15.0 ft		
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Very Fine sand	1	
Date/		Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of e		(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
pui		(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	·	(ft., btoc)	(ft., btoc)	
11/11 11/11	5:04 - 5:10 5:10 - 5:18	72 48 (120)	19.0	16.4	50	156		7.81		
11/11	5:18 - 5:24	45 (165)							8.61	
	3.10 - 3.24	+3 (103)					······································		0.01	
								 		
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Comments:									· · · · · · · · · · · · · · · · · ·	
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Name:	Mike Carlso	n & Scott King				Company:	Gredell Engine	ering Resources	Inc	
		5550 7 4,79				company.	Oroden Engine	Cirily Nesources	, 1110.	

Location:	Ameren Laba	die Plant DSI		····		Date: 10/07/09		Company of the control of the contro	
Piezomete	r:		P-33			Initial Depth to	Groundwater	(ft, btoc):	15.40 ft
Borehole I	Diameter:		8.25"			Base of Well (1		37.30 ft	
Casing Dia	ameter:		2"			Filter Pack Hgt	(ft):	14.3 ft	
Developm	ent method:		Submers	sible Pump	/Bailer	Screened Inter		Gravelly sand	
	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
	urge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)
10/7	10:43		3.5	6.1	30	59		15.40	
	2:45 - 2:56	20						15.40	
	3:03 - 3:18	20 (40)							
40/40	3:25 - 3:36	20 (60)							15.35
10/12	1:30							12.47	
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Comments	S.:			·					
Name:	Scott King	,		<u>-</u>		Company:	Gredell Engine	ering Resources	, Inc.

Location: A	Ameren Laba	die Plant DSI				Date: 10/12/09)	<u></u>	
Piezometer	•		P-35			Initial Depth to	Groundwater	(ft, btoc):	12.36 ft
Borehole D	iameter:		8.25"			Base of Well (1		36.41 ft	
Casing Dia	meter:		2"			Filter Pack Hgt	' (ft):	13.7 ft	
Developme	ent method:		Submers	ible Pump	/Bailer	Screened Inter	val Lithology:	Gravelly sand	
II	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
	ırge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)
10/7	10:50							14.68	
10/12	5:35		3.8	5.9	50	79			
<u> </u>	5:40 - 5:51	20	· · · · · · · · · · · · · · · · · · ·		·			12.36	
	5:55 - 6:06	20 (40)			<u>,</u>	ļ	· · · · · · · · · · · · · · · · · · ·	-	
<u> </u>	6:11 - 6:22 6:28 - 6:40	20 (60) 20 (80)			- 				40.00
	0.20 - 0.40	20 (00)	<u> </u>	 		\		<u> </u>	12.36
	 	 							
								 	
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						<u> </u>			
Comments									
									
Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.

Location: A	meren Labad	die Plant DSI				Date: 10/14/09	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	
Piezometer			P-36	,		Initial Depth to	Groundwater	(ft, btoc):	12.80 ft
Borehole D	iameter:		8.25"			Base of Well (f		37.49 ft	
Casing Dia	meter:		2"			Filter Pack Hgt		15.3 ft	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	val Lithology:	Fine sand	
Date.	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
ри	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	,	(ft., btoc)	(ft., btoc)
10/7	11:03							(***, *****)	
10/14	11:47		4.0	6.6	30	62		12.80	
10/14	11:54 - 12:15	20						12.80	
10/14	12:20 - 12:32	20 (40)							
10/14 10/14	12:37 - 12:50 12:52 - 12:56	20 (60)				ļ			
10/14	12.52 - 12.56		<u> </u>						12.78
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Comments:		Pump seems to I	oe siowing	g down.		··			
	<u> </u>				· · · · · - · · ·		· · · · · · · · · · · · · · · · · · ·		
Name:	Scott King					Company	Cradall Francis	oning Deserved	t
TVAITIC.	GCOR KING					Company:	Greaell Engine	ering Resources	, inc.

Location: A	Ameren Labad	die Plant DSI	-,-;			Date: 10/12/09					
Piezometer	•		P-38			Initial Depth to	Groundwater	(ft, btoc):	11.34 ft		
Borehole D	iameter:		8.25"			Base of Well (37.16 ft			
Casing Dia	meter:		2"			Filter Pack Hg	t (ft):	15.3 ft			
Developme	ent method:		Submers	ible Pump	/Bailer	Screened Inte	rval Lithology:	sand			
Date	:/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending		
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level		
pu	ırge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)		
10/12	9:20		4.1	6.6	40	72					
10/12	9:39							11.34			
10/12	9:39 - 9:51	20									
10/12	9:57 - 10:11	20 (40)									
10/12	10:18 - 10:32	20 (60)									
10/12	10:37 - stop						7'.				
10/12	11:41 - start	40 (70)			 		· -	11.32			
10/12	11:42 - 11:51	12 (72)				ļ <u> </u>		-	11.28		
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Comments.	:										
Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.		
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Location: A	meren Labad	die Plant DSI		***		Date: 11/02/09				
Piezometer	•		P-40			Initial Depth to	Groundwater	(ft, btoc):	5.01 ft	
Borehole D	iameter:		8.25"			Base of Well (37.73 ft		
Casing Dia	meter:		2"			Filter Pack Hg	t (ft):	16.0 ft		
Developme	nt method:		Submers	ible Pump	/Bailer			Medium-Coars	e sand	
li .	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
li .	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/2	10:08		5.2	6.9	38	74		5.01		
	10:12 - 10:58	5 (40)			· <u>. </u>					
	10:58 - 11:18	5 (10)			·	ļ				
ļ	11:18 - 11:38 11:53 - 12:05	5 (15) 20 (35)								
	12:20 - 12:31	20 (55)	<u> </u>							
	12:36 - 12:47	19.5 (74.5)						-	5.02	
	12.50	10.0 (74.0)				 			5.02	
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Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.	

Location: A	meren Laba	die Plant DSI				Date: 10/28/09			
Piezometer:			P-42			Initial Depth to	Groundwater	(ft, btoc):	8.60 ft
Borehole Di			10.25"			Base of Well (ft, btoc):	37.40 ft	
Casing Dian			4"			Filter Pack Hgt	t (ft):	14.8 ft	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Coarse sand	
Date/ of e pui	ach ge	Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/28	5:02	10	18.7	16.1	48	153	clear	8.60	
10/28 10/28	5:07 5:21	80 (90) 80 (170)	 		,	-			
10,20	<u> </u>	00(170)							
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Comments:									
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Name:	Mike Carlso	<u>n</u>				Company:	Gredell Engine	ering Resources	, Inc.

Location: A	Ameren Labad	die Plant DSI	Tree to be a second			Date: 10/19/09			
Piezometei	7		P-43			Initial Depth to	Groundwater	(ft, btoc):	9.19 ft
Borehole D	iameter:		8.25"			Base of Well (f		37.20 ft	
Casing Dia	meter:		2"			Filter Pack Hgt		14.7 ft	
Developme	ent method:		Submers	ible Pump	/Bailer			Medium-Coars	e sand
Date	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
	ırge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)
10/19	9:40		4.5	6.3	35	67		9.19	
	9:47 - 10:02	20							
	10:07 - 10:23	20 (40)							
 	10:31 - 10:46	20 (60)							
 	10:49 - 10:55	7.5 (67.5)					· · · · · · · · · · · · · · · · · · ·	<u> </u>	9.19
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Comments				<u> </u>		<u></u>			
									
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Name:	Scott King					Company:	Gredell Engine	ering Resources	Inc
	233.6.1.0.79					Company.	Crodell Englise	Cillig INESOUICES	, 1110.

Location: Ameren Labadie Plant DSI						Date: 10/15/09				
Piezometer: P-45					Initial Depth to Groundwater (ft, btoc): 10.30 ft					
Borehole D	Diameter:		8.25"			Base of Well (ft, btoc):		37.44 ft		
Casing Dia	meter:		2"			Filter Pack Hgt (ft):		15.2 ft		
Development method:			Submersible Pump/Bailer			Screened Interval Lithology: Coarse sand				
		Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of .	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
purge		(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
10/15	10:50		4.3	6.5	40	73		10.30		
10/15	10:55 - 11:09	20								
10/15	11:18 - 11:32	20 (40)								
10/15	11:38 - 11:51	20 (60)								
10/15	11:57 - 12:06	12.5 (72.5)			 				10.37	
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Comments	·									
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Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.	
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Location: Ameren Labadie Plant DSI						Date: 10/15/09				
Piezometer: P-47					Initial Depth to Groundwater (ft, btoc): 10.26 ft					
Borehole Diameter: 8.25"						Base of Well (ft, btoc):		37.09 ft		
Casing Diameter: 2"					F		Filter Pack Hgt (ft):		14.5 ft	
Development method:			Submersible Pump/Bailer			Screened Interval Lithology: Medium-Very Coarse sand				
Date/Time of each		Purge Volume (cummulative)	Casing Volume	Annular Volume	Tremie Volume	Total Purge Volume	Turbidity (visual)	Initial Water Level	Ending Water Level	
purge		(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	······································	(ft., btoc)	(ft., btoc)	
10/15	9:13		4.3	6.2	50	82		10.26		
	9:19 - 9:33 9:38 - 9:51	20 20 (40)								
	9:57 - 10:11	20 (40)							***************************************	
	10:17 - 10:30	20 (80)	<u> </u>					 		
	10:30 - 10:32	2 (82)			<u> </u>				10.36	
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Comments	· · · · · · · · · · · · · · · · · · ·	Pulled out white	plastic de	bris, look	ed like shredo	led paper.		· · · · · · · · · · · · · · · · · · ·		
Name:	Scott King					Company:	Gredell Engine	ering Resources	s, Inc.	
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Piezometer: P.49	Location: A	Ameren Laba	die Plant DSI				Date: 11/02/09			
Date/Time	Piezometer	:		P-49			Initial Depth to	Groundwater	(ft, btoc):	6.07 ft
Development method: Submersible Pump/Bailer Screened Interval Lithology: Coarse sand	Borehole D	iameter:		8.25"			Base of Well (ft, btoc):	37.81 ft	
Date/Time of each of each purge Purge Volume (cummulative) Volume (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (fit, btoc) (fit, bt	Casing Dia	meter:		2"						
of each purge (curmulative) (gallons) Volume (gallons) Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention Solvention <td>Developme</td> <td>nt method:</td> <td></td> <td>Submers</td> <td>ible Pump</td> <td>/Bailer</td> <td>Screened Inte</td> <td>rval Lithology:</td> <td>Coarse sand</td> <td></td>	Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inte	rval Lithology:	Coarse sand	
purge (gallons) (gallons) (gallons) (gallons) (gallons) (ft., btoc) (ft., btoc) (ft., btoc) 11/2 1:23 5.1 6.7 38 73 6.07 1:52 - 2:01 20 (25) 2:06 - 2:19 20 (45) 2:24 - 2:34 20 (65) 6.08 2:42 - 2:48 8.5 (73.5) 6.08	11						1	_		
11/2 1:22 5.1 6.7 38 73 6.07 1:23-1:50 5	li .		•	1	ł I		ł	(Vicadi)	1	
1;23 - 1:50			(ganorio)					·		(11., 1100)
2:06 - 2:19			5							
2:24 - 2:34			20 (25)							
2:42 - 2:48										
Comments:										
	<u> </u>	2:42 - 2:48	8.5 (73.5)							6.08
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Name: Scott King Company: Gredell Engineering Resources, Inc.	Comments.									
Name: Scott King Company: Gredell Engineering Resources, Inc.								·		
ivarrie: Scott King Company: Gredell Engineering Resources, Inc.	Maraa	Coott Vine					0	01		
	ıvame:	Scott King					Company:	Gredell Engine	ering Resources	s, Inc.

Location: A	Ameren Laba	die Plant DSI			Date: 10/26/09				
Piezometer	···	, ii	P-51			Initial Depth to	Groundwater	(ft, btoc):	8.13 ft
Borehole D	iameter:		8.25"			Base of Well (1	ft, btoc):	37.32 ft	
Casing Dia	meter:		2"			Filter Pack Hgt	t (ft):	16.3 ft	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Fine sand	
11	/Time each	Purge Volume (cummulative)	Casing Volume	Annular Volume	Tremie Volume	Total Purge Volume	Turbidity (visual)	Initial Water Level	Ending Water Level
	ırge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)
10/26	2:35		4.7	7	40	75		8.13	
10/26	2:42 - 2:54	20							
10/26	3:00 - 3:13	20 (40)							
10/26	3:18 - 3:37	20 (60)							
10/26	3:43 - 4:15	10 (70)					V-10-	<u></u>	8.13
11/2								4.77	
11/2	11/2 1:09 - 1:14 5 (75)								4.78
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Comments		Pump Stopped							·
Name:	Scott King					Company:	Gredell Engine	ering Resources	s, Inc.

Location: A	Ameren Laba	die Plant DSI		· · · · · · · · · · · · · · · · · · ·	Date: 10/29/09				
Piezometer.			P-53			Initial Depth to	Groundwater	(ft, btoc):	7.57 ft
Borehole Di	iameter:		10.25"			Base of Well (t	t, btoc):	37.10 ft	
Casing Diar	meter:		4"	-		Filter Pack Hgt		15.0 ft	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	val Lithology:	Very Fine-Coa	rse sand
of e	/Time each erge	Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/29	8:17	122	19.2	16.4	53	160		7.57	7.57
11/2	10:00	48 (170)						5.08	5.08
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Comments:	•				,.			·	
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Name:	Mike Carlso	<u>n</u>		·		Company:	Gredell Engine	ering Resources	s, Inc.
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Location: A	meren Laba	die Plant DSI		"" 		Date: 11/02/09				
Piezometer			P-55			Initial Depth to	Groundwater	(ft, btoc):	6.33 ft	
Borehole D	iameter:		8.25"			Base of Well (37.01 ft		
Casing Dia	neter:		2"			Filter Pack Hg		15.1 ft		
Developme			Submers	sible Pump	/Bailer			Fine-Medium s	and	
1	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/2	3:21		4.9	6.5	40	74		6.33		
11/2	3:23 - 3:37	2			- 4					
11/2	3:40 - 3:51	20 (22)								
11/2	3:57 - 4:08	20 (42)	<u> </u>							
11/2	4:13 - 4:26	20 (62)								
11/2	4:30 - 4:38	12.5 (74.5)							6.37	
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Comments:				<u> </u>		<u> </u>		<u> </u>		
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Name:	Scott King					Company	Cradall Engine	oring Descusses	. In a	
ivanio.	Jour King					Company:	Gredell Engine	ering Resources	, INC.	

Piezometer: P-57	Location: A	meren Laba	die Plant DSI				Date: 10/29/09				
Borehole Diameter:	Piezometer:			P-57			Initial Depth to	Groundwater	(ft, btoc):	7.71 ft	
Development method: Date/Time of each purge Purge Volume (gallons) (gal	Borehole Di	ameter:		10.25"							
Date/Time of each of each purge Purge Volume (cummulative) purge Casing (gallons) (gallon							Filter Pack Hgt	' (ft):			
of each purge (curmulative) (gallons) Volume (gallo	Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	val Lithology:	Fine-Coarse sa	and	
10/29 10:05 90 19.2 16.8 69 177 clear 7.71 11/2 10:17 98 (186)	of e	ach	(cummulative)	Volume	Volume	Volume	Volume	_	Water Level	Water Level	
11/2 10:17 96 (186) clear 5.36 5.36 Comments:								clear		(n., bloc)	
Comments:				10.5	10.0		.,,,			5.36	
											
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Name: Mike Carlson Company: Gredell Engineering Resources, Inc.	Comments:				·		·				
Name: Mike Carlson Company: Gredell Engineering Resources, Inc.				,							
Name: Mike Carlson Company: Gredell Engineering Resources, Inc.	 	1411 0 1									
	Name:	Mike Carlso	<u>n</u>		<u> </u>		Company:	Gredell Engine	ering Resources	, Inc.	

Location: A	meren Labad	die Plant DSI		<u> </u>	Date: 10/19/09				
Piezometer	•		P-59			Initial Depth to	Groundwater	(ft, btoc):	7.87 ft
Borehole D	iameter:		8.25"			Base of Well (ft, btoc):	37.37 ft	
Casing Dia	meter:		2"			Filter Pack Hg		14.6 ft	
Developme	nt method:	=	Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Medium-Grave	lly sand
li .	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
II	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
	rge	(gallons)	(gallons)	(gallons)	(gallons) 38	(gallons)	· · · · · · · · · · · · · · · · · · ·	(ft., btoc)	(ft., btoc)
10/19	11:19 11:25 - 11:39	20	4.7	6.3	38 .	71		7.87	
	11:45 - 11:59	20 (40)				 			
	12:06 - 12:21	20 (60)							
	12:26 - 12:34	11.5 (71.5)							7.86
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Name:	Scott King					Company:	Gredell Engine	ering Resources	Inc
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Location: A	meren Laba	die Plant DSI			Date: 11/12/09				
Piezometer:			P-61			Initial Depth to	Groundwater	(ft, btoc):	6.41 ft
Borehole Di	ameter:		10.25"			Base of Well (ft, btoc):	37.53 ft	
Casing Diar	neter:		4"			Filter Pack Hgt	f (ft):	14.7 ft	-
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	val Lithology:	Medium-Coars	e sand
Date/ of e pui	ach	Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/12	8:15	(ganono)	20.2	16	50	159	<u>-</u>	6.41	(<i>i.i., 2.</i> 100)
	8:24 - 8:41	170							6.81
		· · · · · · · · · · · · · · · · · · ·							
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Comments:	l		L ,,	1				L	
	Miles O. J.	0.0-1116							
Name:	Mike Carlso	n & Scott King				Company:	Gredell Engine	ering Resources	, Inc.

Location: A	meren Labad	die Plant DSI			Date: 10/19/09				
Piezometer:			P-63			Initial Depth to	Groundwater	(ft, btoc):	9.17 ft
Borehole Di	ameter:		8.25"	· · · · · · · · · · · · · · · · · · ·		Base of Well (1	ft, btoc):	37.29 ft	
Casing Diar	neter:		2"			Filter Pack Hgt	t (ft):	15.1 ft	
Developme			Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Coarse sand	
1	Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of e	ach	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
pu		(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)
10/19	1:24		4.5	6.5	50	83		9.17	
10/19	1:29 - 1:59	20							
10/19	2:03 - 2:18	20 (40)							
10/19	2:23 - 2:38	20 (60)							
10/19	2:43 - 2:57	23 (83)		ļ				ļ	9.26
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Name:	Scott King					Company:	Gredell Engine	ering Resources	Inc
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Location:	Ameren Labad	die Plant DSI			Date: 11/04/09				
Piezomete	r:		P-65			Initial Depth to	Groundwater	(ft, btoc):	7.08 ft
Borehole D	Diameter:		8.25"	· · · · · · · · · · · · · · · · · · ·		Base of Well (1	ft, btoc):	37.64 ft	
Casing Dia	ameter:		2"			Filter Pack Hg	t (ft):	14.6 ft	
	ent method:		Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Coarse sand	
Date	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
	urge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(1100.0.1)	(ft., btoc)	(ft., btoc)
11/4	10:48	(ganerie)	4.9	6.3	40	74		7.08	(11.)
11/4	10:52 - 11:24	5							
11/4	11:28 - 11:40	20 (25)							
11/4	11:45 - 11:55	20 (45)							
11/4	12:00 - 12:12	20 (65)							
11/4	12:17 - 12:22	9 (74)					· .		7.10
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Nomo:	Soott Kina					Company	Cradell Engine	oring Decourses	lno.
Name:	Scott King					Company:	Greaell Engine	ering Resources	s, inc.

Location: A	meren Laba	die Plant DSI				Date: 11/04/09			<u> </u>
Piezometer			P-67			Initial Depth to	Groundwater	(ft, btoc):	4.23 ft
Borehole D	iameter:		8.25"			Base of Well (f		37.15 ft	
Casing Dia	meter:		2"			Filter Pack Hgt		14.8 ft	· · · · · · · · · · · · · · · · · · ·
Developme	nt method:		Submers	ible Pump	/Bailer			Medium-Coars	e sand
Date	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of ∈	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
il	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(Vioual)	(ft., btoc)	(ft., btoc)
11/4	12:55	(ganorio)	5.3	6.4	40	75		4.23	(11., 1100)
11/4	12:59 - 1:27	5						7.20	
11/4	1:29 - 1:40	20 (25)							
11/4	1:46 - 1:58	20 (45)							
11/4	2:04 - 2:15	20 (65)							
11/4	2:19 - 2:25	10 (75)							4.28
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Name:	Scott King	7 · . Vanna			,n	Company:	Gredell Engine	ering Resources	Inc
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Location: A	Ameren Laba	die Plant DSI	· · · · ·		Date: 11/04/09				
Piezometer			P-69			Initial Depth to	Groundwater	(ft, btoc):	3.94 ft
Borehole D	iameter:		8.25"			Base of Well (1		37.54 ft	
Casing Dia	meter: .		2"			Filter Pack Hgt	(ft):	14.7 ft	
Developme			Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Fine-Coarse sa	and
Date	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
שם	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	,	(ft., btoc)	(ft., btoc)
11/4	2:45	, , , ,	5.4	6.3	40	75		3.94	
11/4	2:46 - 3:00	2							-
11/4	3:00 - 3:12	20 (22)							
11/4	3:17 - 3:29	20 (42)							
11/4	3:35 - 3:47	20 (62)							
11/4	3:51 - 3:58	13 (75)							3.98
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Name:	Scott King					Company:	Gredell Engine	ering Resources	s, Inc.
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Location: A	meren Laba	die Plant DSI			Date: 11/10/09					
Piezometer:			P-71			Initial Depth to	Groundwater	(ft, btoc):	8.03 ft	
Borehole Di	ameter:		8.25"			Base of Well (37.62 ft		
Casing Diar	neter:		2"			Filter Pack Hgt (ft): 14.8 ft				
Developme			Submers	ible Pump	/Bailer	Screened Inte	rval Lithology:	Very Fine-Fine	sand	
	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/10	2:06		4.7	6.4	48	81		8.03		
11/10	2:08 - 2:30	5								
11/10 11/10	2:31 - 2:42 2:47 - 2:58	20 (25) 20 (45)				 				
11/10	3:02 - 3:14	20 (45)							***	
11/10	3:18 - 3:28	16.5 (81.5)	ļ			 		<u> </u>	8.08	
11,10	0.10 0.20	10.0 (01.0)							0.00	
				 						
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Name:	Scott King					Company	Gradall Engine	oring Possures	lno.	
livairie.	Scott King				:	Company:	Greden Engine	ering Resources	, IIIC.	

Location: Ar	neren Labad	die Plant DSI				Date: 11/12/09				
Piezometer:			P-73			Initial Depth to	Groundwater	(ft, btoc):	7.51 ft	
Borehole Dia	meter:		10.25"			Base of Well (ft, btoc):	36.84 ft		
Casing Diam	eter:		4"			Filter Pack Hg		14.7 ft		
Developmen			Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Fine-Gravelly s	and	
Date/ of ea purg	ach	Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)	
11/12	8:56	(3	19.1	16	40	145		7.51		
11/12	9:04 - 9:20	160							7.99	
Comments:							····		· - · · · · · · · · · · · · · · · · · ·	
Name:	Mike Carlso	n & Scott King				Company:	Gredell Engine	ering Resources	s, Inc.	

Location: A	Ameren Laba	die Plant DSI				Date: 10/19/09					
Piezometei	•		P-75			Initial Depth to	Groundwater	(ft, btoc):	8.64 ft		
Borehole D	iameter:		8.25"			Base of Well (f	t, btoc):	37.23 ft			
Casing Dia	meter:		2"			Filter Pack Hgt		14.6 ft			
Developme	ent method:		Submers	ible Pump	/Bailer	Screened Inter		Fine sand			
Date	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending		
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level		
ρι	ırge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(,	(ft., btoc)	(ft., btoc)		
10/19	4:23	(3)	4.6	6.3	31	64		8.64			
10/19	4:27 - 4:45	20									
10/19	4:50 - 5:08	20 (40)									
10/19	5:13 - 5:38	13.5 (53.5)							8.66		
10/20	11:13							8.79			
10/20	11:24 - 11:35	10 (63.5)							8.79		
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Comments		Pump stopped w	orking								

Name:	Scott King					Company	Gradall Engine	orina Desaura -	lna.		
vaiiic.	Scott King					Company:	Greaell Engine	ering Resources	, inc.		

Location: A	meren Laba)							
Piezometer:			P-77			Initial Depth to	Groundwater	(ft, btoc):	8.01 ft
Borehole Di	iameter:		8.25"			Base of Well (1	ft, btoc):	37.45 ft	
Casing Diar	neter:		2"			Filter Pack Hg	t (ft):	15.1	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	rval Lithology:	Coarse-Very C	oarse sand
II .	/Time each	Purge Volume	Casing	Annular	Tremie Volume	Total Purge	Turbidity	Initial	Ending
H		(cummulative)	Volume	Volume		Volume	(visual)	Water Level	Water Level
10/19	<i>rge</i> 3:15	(gallons)	(gallons) 4.7	(gallons) 6.5	(gallons) 31	(gallons) 65		(ft., btoc) 8.01	(ft., btoc)
10/19	3:18 - 3:31	20	4.7	0.5	31	05		0.01	
10/19	3:35 - 3:48	20 (40)							
10/19	3:53 - 4:04	20 (60)							
10/19	4:09 - 4:12	5 (65)							8.01
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Name:	Scott King		<u> </u>			Company:	Gredell Engine	ering Resources	Inc
	230.17.11.19					Company.	C. Saon Engine	5g 1.05001000	, 1110.

Location: A	Ameren Labad	die Plant DSI				Date: 11/06/09			· · · · · · · · · · · · · · · · · · ·
Piezometer			P-79			Initial Depth to	Groundwater	(ft. btoc):	5.86 ft
Borehole D	iameter:		8.25"			Base of Well (f		37.60 ft	
Casing Dia	meter:		2"			Filter Pack Hgt		14.7 ft	·
Developme	ent method:		Submers	sible Pump	/Bailer			Very Fine-Fine	sand
Date	:/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
pu	ırge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	,	(ft., btoc)	(ft., btoc)
11/6	9:32		5.1	6.3	56	90		5.86	(it., btoo)
11/6	9:34 - 9:49	3							
11/6	9:51 - 10:02	20 (23)							
11/6	10:06 - 10:17	20 (43)							
11/6	10:21 - 10:32	20 (63)							
11/6	10:38 - 10:50	20 (83)							
11/6	10:55 - 11:00	7.5 (90.5)							5.87
									
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Name:	Scott King					Company	Cradall Crains	oring Danier	Las
	Cook rang					Company: 0	Jiedeli Engine	ering Resources	, inc.

Location: A	meren Labad	die Plant DSI			, , , , , , , , , , , , , , , , , , , 	Date: 11/11/09	1.		
Piezometer:			P-81			Initial Depth to	Groundwater	(ft, btoc):	7.66 ft
Borehole Di	ameter:		10.25"			Base of Well (f	t, btoc):	37.43 ft	
Casing Dian	neter:		4"			Filter Pack Hgt		14.8 ft	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inter	val Lithology:	sand	
Date/		Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending
of e	ach	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level
pui	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	<u>,</u>	(ft., btoc)	(ft., btoc)
11/11	2:07	400	19.4	16.1	53	159		7.66	7.70
11/11	2:22 - 2:35	162					-	<u> </u>	7.70
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Marsa	Miles Carles	n O Coatt Vina			<u> </u>	Company	Gradall Engine	oring Possuross	lne
Name:	wike Cariso	n & Scott King				Company:	Greden Engine	ering Resources	s, IIIC.

Location: A	meren Laba	die Plant DSI				Date: 12/01/09				
Piezometer:			P-83			Initial Depth to	Groundwater	(ft, btoc):	5.48 ft	
Borehole Di	ameter:		8.25"			Base of Well (ft, btoc):	37.14 ft		
Casing Dian	neter:		2"			Filter Pack Hg	t (ft):	14.8 ft		
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inte		Medium sand		
Date/	Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of e		(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
pui		(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(VISUAI)	(ft., btoc)	(ft., btoc)	
12/1	2:41	(ganorio)	5.1	6.4	30	64		5.48	(n., bloc)	
12/1	2:43 - 2:58	5						91.0		
12/1	3:01 - 3:12	20 (25)						· · · · · · · · · · · · · · · · · · ·		
12/1	3:16 - 3:27	20 (45)								
12/1	3:31 - 3:43	20 (65)							5.72	
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Name:	Scott King					Company:	Gredell Engine	ering Resources	Inc.	
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Location: A	meren Laba	die Plant DSI				Date: 11/30/09)		
Piezometer:	•		P-85		·	Initial Depth to	Groundwater	(ft, btoc):	4.61 ft
Borehole D	iameter:		10.25"			Base of Well (36.71 ft	
Casing Dia			4"			Filter Pack Hg		15.3 ft	
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Inte	rval Lithology:	Very Fine-Med	ium sand
of e	/Time each rge	Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/30	2:08	(gailoris)	20.9	16.7	50	163		4.61	(n., bioc)
11/30	2:15 - 2:34	165	20.0	10.7		100		7.01	4.91
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Comments:				·		•			
Name:	Travis Doll 8	& Scott King				Company:	Gredell Engine	ering Resources	, Inc.
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Location: A	meren Laba	die Plant DSI				Date: 11/09/09					
Piezometer:	,		P-87			Initial Depth to	Groundwater	(ft. btoc):	6.92 ft		
Borehole Di	ameter:		8.25"			Base of Well (f		36.17 ft			
Casing Dian	neter:		2"			Filter Pack Hgt		15.4 ft			
Developme			Submers	ible Pump	/Bailer	Screened Inter					
Date/	Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending		
of e	1	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	_		
pui		(gallons)		1			(Visual)		Water Level		
11/9	3:37	(galions)	(gallons) 4.7	(gallons) 6.6	(gallons) 50	(gallons) 84		(ft., btoc)	(ft., btoc)		
11/9	3:39 - 3:58	5	4.7	0.6	- 30	04	· · · · · · · · · · · · · · · · · · ·	6.92			
11/9	3:59 - 4:08	20 (25)			· · · · · · · · · · · · · · · · · · ·	 					
11/9	4:13 - 4:24	20 (45)				 		 	6.92		
11/10	1:24							\ 	0.92		
11/10	1:26 - 1:37	20 (65)						7.06			
11/10	1:42 - 1:54	20 (85)			· · · · · · · · · · · · · · · · · · ·			T	7.06		
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Name:	Scott King		- <u></u>			Company:	Gredell Engine	ering Resources	Inc		
						company.	C. CGCII Erigirie	Cirily Mesources	, 1110.		

Location: A	meren Laba	die Plant DSI				Date: 11/20/09				
Piezometer:			P-88			Initial Depth to	Groundwater	(ft, btoc):	4.97 ft	
Borehole Di	ameter:		8.25"		···	Base of Well (37.01 ft		
Casing Diar	neter:		2"			Filter Pack Hg	t (ft):	14.0 ft		
Developme	nt method:		Submers	ible Pump	n/Bailer	Screened Inte	rval Lithology:	Fine-Gravelly s	sand	
11	Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of e	ach	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
pu		(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/20	1:10		5.1	6	60	93		4.47		
11/20	1:12 - 1:38	5								
11/20	1:40 - 1:51	20 (25)								
11/20	1:57 - 2:07	20 (45)								
11/20 11/20	12:12 - 2:21	20 (65)								
11/20	2:25 - 2:35 2:40 -2:45	20 (85) 10 (95)				ļ				
11/20	2.40 -2.45	10 (95)				ļ			5.05	
										
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Name:	Scott King		· · · · · · · · · · · · · · · · · · ·			Company:	Gredell Engine	ering Resources	, Inc.	
										

	Ameren Labac	die Plant DSI		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Date: 10/20/09		<u> </u>		
Piezometei			P-90			Initial Depth to	Groundwater	(ft. btoc):	8.10 ft	
Borehole D			8.25"			Base of Well (f		37.01 ft		
Casing Dia			2"			Filter Pack Hgt		15.0 ft		
Developme	ent method:		Submers	sible Pump	/Bailer	Screened Inter		sand	· · · · · · · · · · · · · · · · · · ·	
	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	irge	(galions)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
10/20	11:45		4.6	6.5	31	64		8.10		
10/20	11:49 - 12:23	20								
10/20	12:30 - 12:47	20 (40)								
10/20 10/20	12:53 - 1:10	20 (60)			· · · · · · · · · · · · · · · · · · ·					
10/20	1:13 - 1:17	5 (65)							8.09	
	 					 				
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Comments:	<u> </u>	Pump hose came	off at 11	·55am		<u> </u>		<u> </u>		
		· carry mode some	z on at 11	.coam				<u> </u>		
Name:	Scott King					Company:	Gredell Engine	ering Resources	Inc	
				:		Company.	Siedeli Eligine	ening Resources	, IIIC.	

Location: A	meren Labad	die Plant DSI				Date: 11/06/09				
Piezometer			P-93		·	Initial Depth to	Groundwater	(ft, btoc):	4.88 ft	
Borehole D	iameter:		8.25"			Base of Well (f	ft, btoc):	36.90 ft		
Casing Dia	meter:		2"			Filter Pack Hgt	t (ft):	14.5 ft		
Developme	nt method:		Submers	ible Pum _l	o/Bailer	Screened Inter	rval Lithology:	Coarse sand		
iš –	/Time each	Purge Volume (cummulative)	Casing Volume	Annular Volume	Tremie Volume	Total Purge Volume	Turbidity (visual)	Initial Water Level	Ending	
li	rge	(gallons)	(gallons)	(gallons)		1 1	(visuai)		Water Level	
11/6	196 11:16	(galions)	5.1	(<i>galions)</i>	(gallons) 69	(gallons) 103		(ft., btoc) 4.88	(ft., btoc)	
11/6	11:17 - 11:43	4	9.1	0.2		100		4.00		
11/6	11:45 - 11:57	20 (24)				 				
11/6	12:02 - 12:13	20 (44)							-	
11/6	12:18 - 12:29	20 (64)								
11/6	12:34 - 12:46	20 (84)								
11/6	12:53 - 1:04	19 (103)							4.88	
	 									
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			<u></u>							
Name:	Scott King		<u> </u>			Company	Cradall Engine	oring Descussion	la a	
ivairie.	Scott Kirig					Company:	Gredell Engine	ering Resources	, inc.	

Location: A	meren Laba	die Plant DSI			<u> </u>	Date: 11/06/09				
Piezometer	•		P-95			Initial Depth to	Groundwater	(ft, btoc):	6.11 ft	
Borehole D	iameter:		8.25"			Base of Well (f		37.12 ft		
Casing Diai	meter:	<u> </u>	2"			Filter Pack Hgt		14.6 ft		
Developme	nt method:		Submers	ible Pump	/Bailer			Fine-Medium s	and	
Date.	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
pu pu	rge	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(**************************************	(ft., btoc)	(ft., btoc)	
11/6	1:18		5.0	6.3	60	94		6.11	(11., 11.00)	
11/6	1:20 - 1;44	5								
11/6	1:46 - 1:57	20 (25)							**************************************	
11/6	2:01 - 2:12	20 (45)								
11/6	2:17 - 2:28	20 (65)								
11/6	2:33 - 2:44	20 (85)								
11/6	2:48 - 2:54	9 (94)							6.11	
 										
										
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A !	011-12									
Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.	

Location: A	meren Laba	die Plant DSI				Date: 11/06/09				
Piezometer.			P-97			Initial Depth to	Groundwater	(ft, btoc):	5.98 ft	
Borehole Di	iameter:		8.25"			Base of Well (1		36.85 ft		
Casing Diar	meter:		2"			Filter Pack Hgt (ft): 14.8 ft				
Developme	nt method:		Submers	ible Pum _l	o/Bailer	Screened Inter	rval Lithology:	Fine-Coarse sa	and	
	/Time	Purge Volume	Casing Volume	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
_	of each (cummulative			Volume	Volume	Volume	(visual)	Water Level	Water Level	
	purge (gallons)			(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/6 3:32			4.9	6.4	66	100		5.98		
11/6	3:33 - 3:45	2			· · · · · · · · · · · · · · · · · · ·					
11/6	3:47 - 3:58	20 (22)								
11/6 11/6	4:02 - 4:13 4:18 - 4:30	20 (42)								
11/6	4:16 - 4:30	20 (62) 20 (82)						-	·	
11/6	4:50 - 5:01	18 (100)							6.00	
1170	4.55 5.51	10 (100)				<u> </u>			6.00	
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Comments:	<u> </u>		L			 		<u> </u>		
										
Name:	Scott King					Company:	Gredell Engine	ering Resources	Inc	
	Cook rang					Company.	Greden Engine	ening Resources	, ITIC.	

Location: A	meren Laba	die Plant DSI		- 11	Tanal 1 Tanal 1	Date: 11/09/09				
Piezometer		···	P-99			Initial Depth to	Groundwater	(ft, btoc):	4.36 ft	
Borehole D	iameter:		8.25"			Base of Well (36.55 ft		
Casing Dia	meter:		2"			Filter Pack Hgt (ft):		15.0 ft		
Developme	nt method:		Submersible Pump/Bailer			Screened Interval Lithology: Coarse-Gravelly sand				
Date.	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
purge (gallons)			(gallons)	(gallons)	(gallons)	(gallons)	, ,	(ft., btoc)	(ft., btoc)	
11/9	11/9 1:47			6.5	60	95		4.36	(11.1) 21.00)	
11/9	1:49 - 2:09	5								
11/9	2:11 - 2:22	20 (25)								
11/9	2:26 - 2:37	20 (45)								
11/9	2:45 - 2:56	20 (65)								
11/9	2:59 - 3:09	20 (85)		·						
11/9	3:14 - 3:20	10 (95)							4.38	
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Comments:	·	 		· · ·						
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Name:	Scott King					Company:	Gradall Engine	ering Resources	Inc	
runio.	Cook rang					Company.	Greden Engine	ening Resources	, IIIC.	

Base of Well (ft, btoc): 35.87 ft Same planeter: 2" Filter Pack Hgt (ft): 14.9 ft Screened Interval Lithology: Medium sand	 		die Plant DSI			Date: 10/20/09					
Base of Well (ft, btoc): 35.87 ft Casing Diameter: 2" Filter Pack Hgt (ft): 14.9 ft Screened Interval Lithology: Medium sand	Piezometer			P-102			Initial Depth to	Groundwater	(ft, btoc):	7.15 ft	
Development method: Date/Time of each purge (cummulative) purge (gallons)	Borehole D	iameter:									
Date/Time of each purge Purge Volume (gallons) Casing purge Volume (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (fit, btoc) (fi				2"			Filter Pack Hgt (ft):				
of each purge (cummulative) (gallons) Volume (gallo	Developme	nt method:		Submers	rsible Pump/Bailer Screened			ned Interval Lithology: Medium sand			
purge (gallons) (gallons) (gallons) (gallons) (gallons) (gallons) (ft., btoc)	11			_			_	-	1		
10/20 2:56 4.6 6.4 31 64 7.15 10/20 3:00-3:15 20	H		•				1	(visuai)			
10/20 3:00 - 3:15 20 10/20 3:20 - 3:37 20 (40) 10/20 3:41 - 4:03 24 (64) 7.17										(π., ρτος)	
10/20 3:41 - 4:03 24 (64) 7.17			20	1.0	0.7	- 01	0-7		7,13		
Comments:			20 (40)			~				· · · · · ·	
	10/20	3:41 - 4:03	24 (64)							7.17	
											
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	Comments:						<u> </u>				
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lame: Scott King Company On-t-11 February D			· · · · · · · · · · · · · · · · · · ·					<u> </u>			
	Name:	Scott King					Componi	Oradall Carin	a din a. Danie	1	
Iame: Scott King Company: Gredell Engineering Resources, Inc.	rvarre.	Scott King					Company:	Gredell Engine	ering Resources	, Inc.	

Piezometer: Borehole Diame	-1		D 404						Date: 11/11/09				
<u> </u>	- 4		P-104			Initial Depth to	Groundwater	(ft, btoc):	5.14 ft				
	eter:		10.25"			Base of Well (f		37.34 ft					
Casing Diamete			4"			Filter Pack Hgt		15.0 ft					
Development m	nethod:		Submers	rsible Pump/Bailer Screened Interval Lithology: Very Fine-l					sand				
Date/Tim of each		Purge Volume (cummulative)	Casing Volume	Annular Volume	Tremie Volume	Total Purge Volume	Turbidity	Initial	Ending				
1	purge (gallons)					1	(visual)	Water Level	Water Level				
	11/11 2:47 (ganons)			(gallons) 16.4	(gallons) 39	(gallons) 151		(ft., btoc)	(ft., btoc)				
11/11	4:27		20.9	10,7		131		5.14 5.17					
11/11 4:2	29 - 4:42	156					····	9.17	6.25				
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Name: Mik	e Carlsor	n & Scott King				Company:	Gredell Engine	ering Resources	, Inc.				

Location: A	Ameren Labad	die Plant DSI		 	Date: 11/09/09	9	<u> </u>			
Piezometer	·		P-106			Initial Depth to	Groundwater	(ft, btoc):	4.99 ft	
Borehole D	iameter:		8.25"			Base of Well (37.78 ft		
Casing Dia	meter:		2"			Filter Pack Hg	t (ft):	14.9 ft		
Developme	ent method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Fine sand				
11	e/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
41	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	<u>purge</u> (galloi 11/9 11:59		(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/9	12:01 - 12:24	5	5.2	6.4	50	85		4.99		
11/9	12:26 - 12:37	20 (25)								
11/9	12:42 - 12:54	20 (45)	 	L						
11/9	12:59 - 1:10	20 (65)	 							
11/9	1:16 - 1:27	20 (85)				 			5.02	
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Comments	•			<u> </u>				<u> </u>		
										
										
Name:	Scott King			-	 	Company:	Gredell Engine	ering Resources	, Inc.	
										

Location: A	Ameren Laba	die Plant DSI			Date: 11/10/09					
Piezometer	•		P-108			Initial Depth to	Groundwater	(ft, btoc):	5.70 ft	
Borehole D	iameter:		8.25"			Base of Well (1	t, btoc):	37.45 ft		
Casing Dia	meter:	-	2"			Filter Pack Hgt (ft): 15.0 ft				
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Medium sand				
11	/Time	Purge Volume	Casing Volume	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
l.	of each (cummulative			Volume	Volume	Volume	(visual)	Water Level	Water Level	
	purge (gallons)			(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/10	3:48		5.1	6.5	44	79		5.70		
11/10 11/10	3:50 - 4:08 4:09 - 4:20	5					· · · · · · · · · · · · · · · · · · ·			
11/10	4:28 - 4:39	20 (25) 20 (45)	_					-		
11/10	4:44 - 4:56	20 (45)				 				
11/10	5:00 - 5:10	14 (79)				-		 	5.73	
	0.20 0.10	11-(10)				 			5.13	
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Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.	

Piezometer:					Date: 11/11/09				
Parabala Dia			P-110			Initial Depth to	Groundwater	(ft, btoc):	6.33 ft
poreriole Dia	ameter:		8.25"			Base of Well (f		37.01 ft	
Casing Diam	neter:		2"			Filter Pack Hgt (ft):			
Developmen	t method:		Submers	ible Pump	/Bailer	Screened Inter	val Lithology:	Very Fine-Fine	sand
of ea	Date/Time Purge (cum		Casing Volume	Annular Volume	Tremie Volume	Total Purge Volume	Turbidity (visual)	Initial Water Level	Ending Water Level
		(gallons)	(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)
11/11	7:11		4.9	6.4	38	72		6.33	
11/11	7:13 - 7:38	5				ļ		<u> </u>	·
11/11	7:40 - 7:51 7:56 - 8:07	20 (25) 20 (45)					· · ·	 	····
11/11	8:13 - 8:24	20 (65)						 	
11/11	8:30 - 8:36	7 (72)		·				+	6.66
	0,00 0.00							 	0.00
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Comments:									
Mana	0412								
Name: S	Scott King					Company:	Gredell Engine	ering Resources	, Inc.

Location: A	Meren Laba	die Plant DSI				Date: 11/11/09				
Piezometer.			P-112			Initial Depth to	Groundwater	(ft, btoc):	6.33 ft	
Borehole Di	iameter:		8.25"			Base of Well (f		36.70 ft		
Casing Diar	meter:		2"			Filter Pack Hgt (ft): 15.3 ft				
Developme	nt method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Fine-Coarse sand				
	Date/Time Purge Volum			Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
purge (gallons)			(gallons)	(gallons)	_(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/11	8:55		4.9	6.6	31	65		6.33	(10., 2000)	
11/11	8:58 - 9:21	5								
11/11	9:22 - 9:33	20 (25)								
11/11	9:39 - 9:51	20 (45)								
11/11	9:57 - 10:10	20.5 (65.5)							6.36	
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Comments:	<u> </u>									
Mana	04-16									
Name:	Scott King					Company: (Gredell Engine	ering Resources	, Inc.	

Location: Ameren Laba	adie Plant DSI				Date: 11/30/09				
Piezometer:		P-114			Initial Depth to	Groundwater	(ft. btoc):	4.75 ft	
Borehole Diameter:		10.25"			Base of Well (1		37.54 ft		
Casing Diameter:		4"			Filter Pack Hgt (ft): 14.7 ft				
Development method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Coarse-Gravelly sand				
Date/Time of each purge	Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)	
11/30 1:31 - 1:51	200	21.3	16	78	190		4.75	5.15	
Comments:									
Name: Travis Doll	& Scott King				Company:	Gredell Engine	ering Resources	, Inc.	

Location: I	Ameren Laba	die Plant DSI				Date: 10/20/09				
Piezomete	r:		P-116			Initial Depth to	Groundwater	(ft. btoc):	7.38 ft	
Borehole D	Diameter:	<u> </u>	8.25"			Base of Well (f		37.48 ft		
Casing Dia	meter:		2"			Filter Pack Hgt (ft): 15.2 ft				
Developme	ent method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Medium-Coarse sand				
H	Date/Time Purge Volume			Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of (each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
	purge (gallons)			(gallons)	(gallons)	(gallons)	,	(ft., btoc)	(ft., btoc)	
10/20				6.5	25	59		7.38	(11., 5100)	
10/20	4:24 - 4:40	20			·					
10/20	4:45 - 5:07	16 (36)							7.40	
10/26	10:18							5.83		
10/26	11:24 - 11:37	23 (59)							5.82	
										
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Comments										
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Name:	Scott King					Company: (Gredell Engine	ering Resources	Inc	
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Location: A	Ameren Labac	die Plant DSI			· · · · · · · · · · · · · · · · · · ·	Date: 11/02/09				
Piezometer	:		P-118			Initial Depth to	Groundwater	(ft, btoc):	5.16 ft	
Borehole D	iameter:		8.25"			Base of Well (1		37.96 ft		
Casing Dia	meter:		2"			Filter Pack Hgt (ft): 15.3 ft				
Developme	ent method:		Submers	ible Pump	/Bailer	Screened Interval Lithology: Fine-Medium sand				
Date	/Time	Purge Volume	Casing	Annular	Tremie	Total Purge	Turbidity	Initial	Ending	
of e	each	(cummulative)	Volume	Volume	Volume	Volume	(visual)	Water Level	Water Level	
purge (gallons)			(gallons)	(gallons)	(gallons)	(gallons)		(ft., btoc)	(ft., btoc)	
11/12				6.6	28	63	· · · · · · · · · · · · · · · · · · ·	5.16	(11)	
11/12	11:21 - 11:45	4								
11/12	11:47 - 11:58	20 (24)								
11/12	12:03 - 12:14	20 (44)								
11/12	12:19 - 12:30	20 (64)							5.09	
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Name:	Scott King					Company:	Gredell Engine	ering Resources	, Inc.	