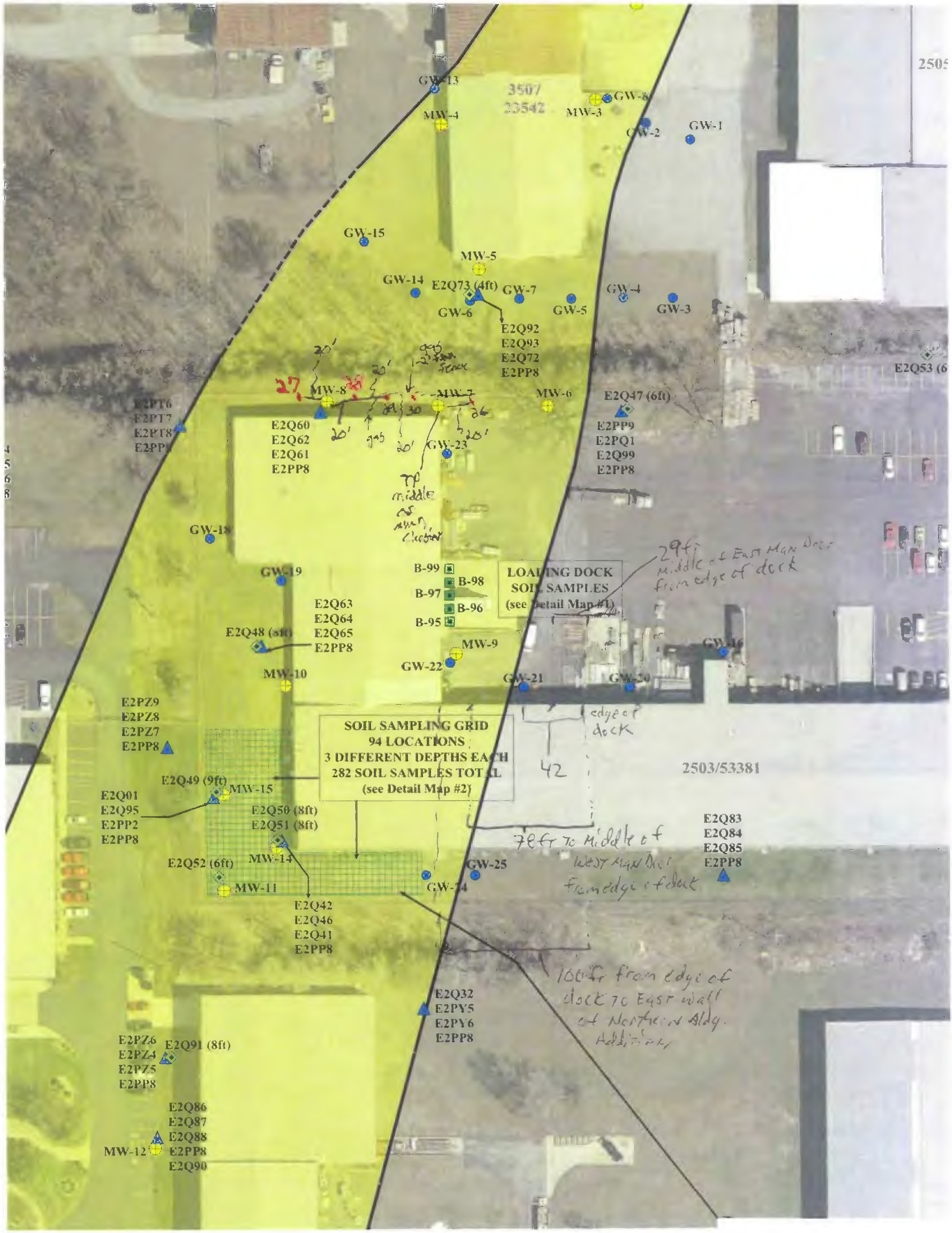
GW-13
3507
23542
GW-8
MW-4
MW-3
GW-2
GW-1
2505
GW-15
MW-5
GW-14
E2Q73 (4ft)
GW-7
GW-6
GW-5
GW-4
GW-3
E2Q92
E2Q93
E2Q72
E2PP8
E2Q53 (6
MW-8
MW-7
MW-6
E2Q47 (6ft)
E2PT6
E2PT7
E2PT8
E2Q60
E2Q62
E2Q61
E2PP8
GW-23
E2PP9
E2PQ1
E2Q99
E2PP8
GW-18
GW-19
B-99
B-98
B-97
B-96
B-95
LOADING DOCK
SOIL SAMPLES
(see Detail Map #1)
E2Q63
E2Q64
E2Q65
E2PP8
E2Q48 (8ft)
MW-9
GW-22
MW-10
GW-21
GW-20
E2PZ9
E2PZ8
E2PZ7
E2PP8
SOIL SAMPLING GRID
94 LOCATIONS
3 DIFFERENT DEPTHS EACH
282 SOIL SAMPLES TOTAL
(see Detail Map #2)
2503/53381
E2Q49 (9ft)
MW-15
E2Q01
E2Q95
E2PP2
E2PP8
E2Q50 (8ft)
E2Q51 (8ft)
E2Q83
E2Q84
E2Q85
E2PP8
E2Q52 (6ft)
MW-14
MW-11
GW-25
GW-24
E2Q42
E2Q46
E2Q41
E2PP8
E2Q32
E2PY5
E2PY6
E2PP8
E2PZ6
E2PZ4
E2PZ5
E2PP8
E2Q91 (8ft)
E2Q86
E2Q87
E2Q88
E2PP8
E2Q90
MW-12

VAS	MW-7	MW-8
29-32.5	~~19.5-22~~	~~13.5-16~~ 1.0 1.0 0.5
25-28.5		~~16.5-19~~ 4.0
21-24.5		~~19.5-22~~ 1.5
17-20.5		
13-16.5		
2-12		

Sand 1' above Tap of screen
chips = 6"
Volclay grout

9-6-13

9-9-13

MW-2 i 19 → 2' sand pad → MW-2 ✓, MW-5, MW-1 ✓

Dumpster in way at MW-3 location - Fred to get w/ tenant re: moving. He said to do other locations while waiting for them to move. Bimbo will try a move yet today. Moved = 8:15 on 9-10-13. Start MW-3 @ = 8:35 AM. No tracks in/out on 9-9-13.

9-10-13 → MW-3, MW-13 ✓

2601 Maring
ROW - Cooper
Sept 3 3:45

#1308293119

2503 Maring
Elkhart, Osolo
for NW portion - North of bldg btw fence & bldg.
* Sept 3rd 3:45 pm Sept 18th call Sept 16th
AEP Cons. Elkhart Frontier NIPSCO
#1308293110

2601 Maring
S. side of Bldg
White Flag S. side of bldg
A
#1309050499

7 i 11/9/11

5 i 11/2/11

3501 Cooper Dr.
Entire Property
Sept 7-9 11 Exp Sept 25
AEP Comcast Elkhart Frontier NIPSCO
#1309050464

11/8/11

3 i 10/25/11

2 i 11/3/11

1 i 11/3/11

Geology from this location collected on (date).

Hanna 9828 Meter Calibration Log

R·E·S
ROBERTS ENVIRONMENTAL SERVICES, LLC

Date	Personel	Type of Calibration	End of Day Check (Ph, Temp.)		Project Number
9/11/13	JWB	Hanna 9828 Quick Cal			11-10378-70

ROBERTS ENVIRONMENTAL SERVICES, LLC

2112 Carmen Court
Goshen, Indiana 46526

Ph: (574) 537-0881
Fax: (574) 537-9021

QUALITY, COST-EFFECTIVE ENVIRONMENTAL CONSULTANTS

MONITORING WELL SAMPLING FORM

Project Name: Flexsteel - Lane St

Project Number:

Location:

Sampler(s): DJ / JB

Field Equipment (begin/end day checks or calibration)

pH: Hanna

D.O.: optical

Cond: 5

ORP: Hanna

Temp: 2

See back side for cooler temp.

SAMPLING & FIELD MEASURMENTS/OBSERVATIONS					
Sample Location I.D.:	MW-2; 16	MW-2; 19	MW-2; 22	MW-5; 16	MW-5; 19
Date of Sampling:	9 / 13 / 13	/ /	/ / 13	9 / 13 / 13	/ /
Sampled By:	DJ / JB				
Weather Conditions (rain, snow, wind, temp., etc.)	≈60°F Sunny				
Top of Casing Elevation (if known):					
Top of Casing to Grade (ft):	0.33	0.4	0.5	0.33	0.4
Static Water Level (ft) from TOC:	7.59	7.52	7.44	7.74	7.77
Measured Well Depth (ft) from TOC:	15.83	18.55	21.52	15.84	18.82
Volume of Water Column* (gal) (one well volume):	0.34	0.45	0.58	0.33	0.45
Gallons Purged/#Casing Volumes:	3+-/ +1.0 (1.5)	3+-/ +1.4 (1.5)	3+-/ +1.2 (1.75)	3+-/+1.0 (1.25)	3+-/+1.5 (1.75)
Purging/Sampling Device(s):	Peristaltic				
Well Purged Dry? (Y/N):					
Time Purging Completed (military):					
Time Sample Withdrawn (military):	9:34	9:51	10:07	10:21	10:48
Temperature / F (+/- 3%)	1) 63.27	1) 61.68	1) 60.30	1) 62.12	1) 61.36
	2) 63.19	2) 61.54	2) 60.02	2) 61.97	2) 61.36
	3) 63.18	3) 61.54	3) 60.19	3) 62.03	3) 61.37
	4) 63.15	4)	4)	4)	4)
Conductivity / mS/cm (+/- 3%)	1) 318	1) 345	1) 395	1) 255	1) 292
	2) 310	2) 340	2) 390	2) 255	2) 286
	3) 306	3) 338	3) 388	3) 255	3) 282
	4) 304	4)	4)	4)	4)
Field Oxydation Reduction Potential (ORP) (mV): (+/- 10 mv)	1) 110	1) 125	1) 117	1) 106	1) 106
	2) 117	2) 125	2) 118	2) 108	2) 106
	3) 117.9	3) 125	3) 116	3) 106	3) 105
	4) 119.9	4)	4)	4)	4)
Field pH (std. units): (+/- 0.1)	1) 7.90	1) 7.06	1) 7.13	1) 7.47	1) 7.38
	2) 7.62	2) 7.04	2) 7.11	2) 7.44	2) 7.42
	3) 7.46	3) 7.04	3) 7.12	3) 7.43	3) 7.45
	4) 7.39	4)	4)	4)	4)
DO (ppm) - (final reading)	5.02	5.52	3.90	5.49	5.29
Color:	Clear	Clear			
Odor:	—	—	—	—	—
Turbidity (clear, cloudy, etc.):	Clear	Clear			
Other Observations/Notes: (FD or MS/MSD, etc.)				MS/MSD (6)	

* *Gallons Per Foot of Water Column for Well Dia.: 1"=0.041 2"=0.163 3"=0.367 4"=0.653 5"=1.020 6"=1.469 3/4"=0.023*

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Goshen, Indiana 46526

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QUALITY, COST-EFFECTIVE ENVIRONMENTAL CONSULTANTS

MONITORING WELL SAMPLING FORM

Project Name: Flex-Lane St

Project Number:

Location:

Sampler(s):

Field Equipment (begin/end day checks or calibration)

pH: D.O.:

Cond: ORP:

Temp: See back side for cooler temp.

SAMPLING & FIELD MEASURMENTS/OBSERVATIONS					
Sample Location I.D.:	MW-5,22		MW-3,22	MW-3,19	MW-3,16
Date of Sampling:	9/13/13	/ /	9/16/13	/ /	/ /
Sampled By:			Cloudy 55°		
Weather Conditions (rain, snow, wind, temp., etc.)					
Top of Casing Elevation (if known):					
Top of Casing to Grade (ft):	0.4				
Static Water Level (ft) from TOC:	7.72		8.02	7.95	7.90
Measured Well Depth (ft) from TOC:	21.84		21.5	18.62	15.71
Volume of Water Column* (gal) (one well volume):	0.58		0.55	0.44	0.32
Gallons Purged/#Casing Volumes:	3+-/+1.35 (1.75)	3+-/	3+-/1.7 (2.25)	3+-/1.3 (1.6)	3+-/+1.0 (1.3)
Purging/Sampling Device(s):					
Well Purged Dry? (Y/N):					
Time Purging Completed (military):					
Time Sample Withdrawn (military):	11:04		8:53	9:06	~~9:06~~ 9:22
Temperature / F (+/- 3%)	1) 60.03	1) ~~59.97~~	1) 60.65	1) 62.12	1) 64.67
	2) 59.97	2)	2) 60.55	2) 62.05	2) 64.67
	3) 59.95	3)	3) 60.49	3) 61.97	3) 64.59
	4)	4)	4) 60.45	4)	4)
Conductivity / mS/cm (+/- 3%)	1) 311	1) ~~318~~	1) 418	1) 353	1) 313
	2) 312	2)	2) 410	2) 354	2) 312
	3) 312	3)	3) 407	3) 354	3) 312
	4)	4)	4) 406	4)	4)
Field Oxydation Reduction Potential (ORP) (mV): (+/- 10 mv)	1) 109	1)	1) 114	1) 114	1) 102
	2) 108	2)	2) 119	2) 113	2) 101
	3) 109	3)	3) 122	3) 112	3) 101
	4)	4)	4) 123	4)	4)
Field pH (std. units): (+/- 0.1)	1) 7.44	1)	1) 8.05	1) 7.44	1) 7.49
	2) 7.42	2)	2) 7.21	2) 7.44	2) 7.55
	3) 7.42	3)	3) 7.56	3) 7.42	3) 7.57
	4)	4)	4) 7.46	4)	4)
DO (ppm) - (final reading)	4.23		3.02	5.02	8.09
Color:	Clear				
Odor:	—				
Turbidity (clear, cloudy, etc.):	Clear				
Other Observations/Notes: (FD or MS/MSD, etc.)	FD				

** Gallons Per Foot of Water Column for Well Dia.: 1"=0.041 2"=0.163 3"=0.367 4"=0.653 5"=1.020 6"=1.469 3/4"=0.023*

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QUALITY, COST-EFFECTIVE ENVIRONMENTAL CONSULTANTS

MONITORING WELL SAMPLING FORM

Project Name:_____

Project Number:_

Location:_ _____

Sampler(s):_____

Field Equipment (begin/end day checks or calibration)

pH:_____ D.O.:_____

Cond:_____ ORP:_____

Temp:_____ See back side for cooler temp.

SAMPLING & FIELD MEASURMENTS/OBSERVATIONS					
Sample Location I.D.:	MW-1; 21	MW-13; 21	MW-13; 18	MW-13; 16	MW-8; 22
Date of Sampling:	9 / 16 / 13				
Sampled By:	DJ				
Weather Conditions (rain, snow, wind, temp., etc.)	Cloudy=55°F				
Top of Casing Elevation (if known):					
Top of Casing to Grade (ft):	0.4	0.4	0.3	0.4	0.4
Static Water Level (ft) from TOC:	6.04	5.56	5.47	5.41	7.27
Measured Well Depth (ft) from TOC:	20.72	20.80	18.11	15.81	21.90
Volume of Water Column* (gal) (one well volume):	0.60	0.62	0.52	0.43	0.60
Gallons Purged/#Casing Volumes:	3+-/+1.8 (3.0)	3+-/1.9 (2.0)	3+-/+1.6 (2.0)	3+-/1.3 (1.5)	3+-/1.8 (2.0)
Purging/Sampling Device(s):					
Well Purged Dry? (Y/N):					
Time Purging Completed (military):					
Time Sample Withdrawn (military):	9:53	10:16	10:33	10:50	11:33
Temperature / F (+/- 3%)	1) 58.96	1) 60.14	1) 60.99	1) 61.57	1) 58.91
	2) 58.87	2) 60.01	2) 60.85	2) 61.57	2) 58.78
	3) 58.81	3) 59.98	3) 60.86	3) 61.44	3) 58.75
	4) 58.70/58.96	4)	4)	4)	4)
Conductivity / mS/cm (+/- 3%)	1) 496	1) 435	1) 399	1) 381	1) 360
	2) 494	2) 435	2) 404	2) 380	2) 361
	3) 494	3) 435	3) 406	3) 380	3) 361
	4) 494/494	4)	4)	4)	4)
Field Oxydation Reduction Potential (ORP) (mV): (+/- 10 mv)	1) 113	1) 43	1) 41	1) 46	1) 81
	2) 99	2) 45	2) 45	2) 49	2) 83
	3) 83.5	3) 47.6	3) 45	3) 51	3) 81
	4) 71.3/83.3	4)	4)	4)	4)
Field pH (std. units): (+/- 0.1)	1) 7.27	1) 7.40	1) 7.51	1) 7.55	1) 7.46
	2) 7.22	2) 7.38	2) 7.47	2) 7.52	2) 7.41
	3) 7.21	3) 7.38	3) 7.45	3) 7.50	3) 7.41
	4) 7.20/7.20	4)	4)	4)	4)
DO (ppm) - (final reading)	2.04	4.93	6.10	—	3.06
Color:					
Odor:					
Turbidity (clear, cloudy, etc.):					
Other Observations/Notes: (FD or MS/MSD, etc.)					

** Gallons Per Foot of Water Column for Well Dia.: 1"=0.041 2"=0.163 3"=0.367 4"=0.653 5"=1.020 6"=1.469 3/4"=0.023*

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QUALITY, COST-EFFECTIVE ENVIRONMENTAL CONSULTANTS

MONITORING WELL SAMPLING FORM

Project Name:_____

Project Number:_

Location:_ _____

Sampler(s):_____

Field Equipment (begin/end day checks or calibration)

pH:_____ D.O.:_____

Cond:_____ ORP:_____

Temp:_____ See back side for cooler temp.

SAMPLING & FIELD MEASURMENTS/OBSERVATIONS					
Sample Location I.D.:	MW-8; 19	MW-8; 16	MW-7; 20	Drum Comp	
Date of Sampling:	9/10/13	~~/ /~~	~~/ /~~	/ /	/ /
Sampled By:	[illegible]				
Weather Conditions (rain, snow, wind, temp., etc.)					
Top of Casing Elevation (if known):					
Top of Casing to Grade (ft):	0.4	0.4	0.4		
Static Water Level (ft) from TOC:	7.26	7.26	7.44		
Measured Well Depth (ft) from TOC:	18.69	15.81	21.23		
Volume of Water Column* (gal) (one well volume):	0.47	0.35	0.57		
Gallons Purged/#Casing Volumes:	3+-/1.5 (1.25)	3+-/+1.1 (1.25)	3+-/1.8 (1.8)	3+-/	3+-/
Purging/Sampling Device(s):					
Well Purged Dry? (Y/N):					
Time Purging Completed (military):					
Time Sample Withdrawn (military):	11:50	12:08	12:32	12:45	
Temperature / F (+/- 3%)	1) 59.42	1) 60.39	1) 60.50	1)	1)
	2) 59.38	2) 60.33	2) 60.39	2)	2)
	3) 59.39	3) 60.31	3) 60.50	3)	3)
	4)	4)	4)	4)	4)
Conductivity / mS/cm (+/- 3%)	1) 364	1) 336	1) 371	1)	1)
	2) 364	2) 336	2) 373	2)	2)
	3) 364	3) 336	3) 373	3)	3)
	4)	4)	4)	4)	4)
Field Oxydation Reduction Potential (ORP) (mV): (+/- 10 mv)	1) 72	1) 68	1) 26.4	1)	1)
	2) 73	2) 71	2) 31.8	2)	2)
	3) 73	3) 73	3) 30.4	3)	3)
	4)	4)	4)	4)	4)
Field pH (std. units): (+/- 0.1)	1) 7.52	1) 7.65	1) 7.61	1)	1)
	2) 7.50	2) 7.61	2) 7.55	2)	2)
	3) 7.49	3) 7.58	3) 7.52	3)	3)
	4)	4)	4)	4)	4)
DO (ppm) - (final reading)	2.70	3.21	2.53		
Color:					
Odor:					
Turbidity (clear, cloudy, etc.):					
Other Observations/Notes: (FD or MS/MSD, etc.)				"Drum Comp." 2 drums	

** Gallons Per Foot of Water Column for Well Dia.: 1"=0.041 2"=0.163 3"=0.367 4"=0.653 5"=1.020 6"=1.469 3/4"=0.023*

Develop	TOC Depth	TOC SWL	0.041 (gal) HV	Purge & Develop	Date
MW-2i 22	21.52	7.32	0.58	3.0 gal ~~3.0~~	9-9-13
MW-2i 19	18.55	7.40	0.46	3.0	9-9-13
MW-2i 16	15.83	7.47	0.34	2.5	9-9-13
MW-5i 22	21.84	7.67	0.58	3.25 gal	9-9-13
MW-5i 19	18.82	7.67	0.46	2.25	9-9-13
MW-5i 16	15.84	7.64	0.34	2.5 gal	9-9-13
21, 18.5, 16 MW-3i 22	21.50	7.92	0.56	3.0 gal	9-10-13
MW-3i 19	18.62	7.80	0.44	3.0 gal	9-10-13
MW-3i 16	15.71	7.74	0.33	3.0	9-10-13
MW-13i 21	20.80	5.42	0.63	3.0	9-10-13
MW-13i 18	18.11	5.32	0.52	3.0	9-10-13
MW-13i 16	15.81	5.26	0.43	~~2.5~~ 3.0	9-10-13
MW-1i 21	20.72	5.85	0.61	3.0	Develop 9-10-13 Install 9-9-13
MW-8i 16	15.81	7.14	0.36	2.5	9-10-13
MW-8i 19	18.69	7.14	0.47	2.75	9-10-13
MW-8i 22	21.90	7.15	0.61	3.0	9-10-13
MW-7i 22	21.23	7.31	0.57	3.0	9-10-13

PERMIT NO. 8515 DATE: 9/04/13

PERMIT FOR EXCAVATION

IS HEREBY ISSUED TO:

CONTRACTOR: Roberts Environmental

LOCATION OF EXCAVATION: Soil Borings at: northern ROW of Cooper Dr. (approx 2601 Marina Dr. @ Cooper)

TYPE OF EXCAVATION: Soil Boring

OWNER'S NAME: COE - ROW

PARKING PAVEMENT ROADWAY

PERMIT EXPIRES: 10/05/13 AUTHORIZED BY: Jane Lucier

City of Elkhart
Engineering

Elkhart Public Works & Utilities
1201 S. Nappanee Street
Elkhart, IN 46516
Ph. 574-293-2572
Fax # 574-293-7658

Permit Number: 8515

Date: 9/04/13

Receipt Number: 085986

Paid: $75.- JL

APPLICATION FOR EXCAVATION PERMIT

PLEASE GIVE (2) TWO HOUR

NOTICE FOR INSPECTIONS (574) 293-2572

Permit Issued to: Roberts Environmental

Address: 2112 Carmen Court
Goshen IN 46526

Phone: 537-0881

Type of Work: Soil Borings

Location: (address) Northern Row of Cooper Dr (approx. 2601 Marina Dr @ Cooper

Owner: CoE - ROW

Date excavation work is to begin: 9/05/13

Permit will expire on: 10/05/13

Date restoration work is to be complete: _____

In accordance with Ordinance No. 5192, the following information is required to obtain an Excavation Permit with the City of Elkhart, IN

(a) In the absence of a lateral to the property a plan or sketch of the proposed connection must be attached to this permit

(b) A bond or certified check guaranteeing performance in an amount of **$10,000** or a blanket bond must be on file with Elkhart Public Works & Utilities. In lieu of this requirement any person may post a performance bond in the amount of **$100,000** and bond shall remain in force for a period of two (2) years after completion of last work performed.

(c) The excavation permit fee is **$25.00** for each tunnel, opening, or excavation of 100 L.F. or less. An additional charge of **$25.00** required for each additional one hundred L.F.

(d) Written explanation of emergency, if applicable, in accordance with Ordinance No. 5192

ADA CERTIFICATION

The City of Elkhart is committed to providing accessibility to all of its citizens and visitors. I understand that any project in the right-of-way, or any other public place, must conform to ADA specifications and guidelines. I acknowledge that it is my responsibility to assure that the finished work product of this project will meet those specifications and guidelines.

Mae Lucier
Signature of issuing authority

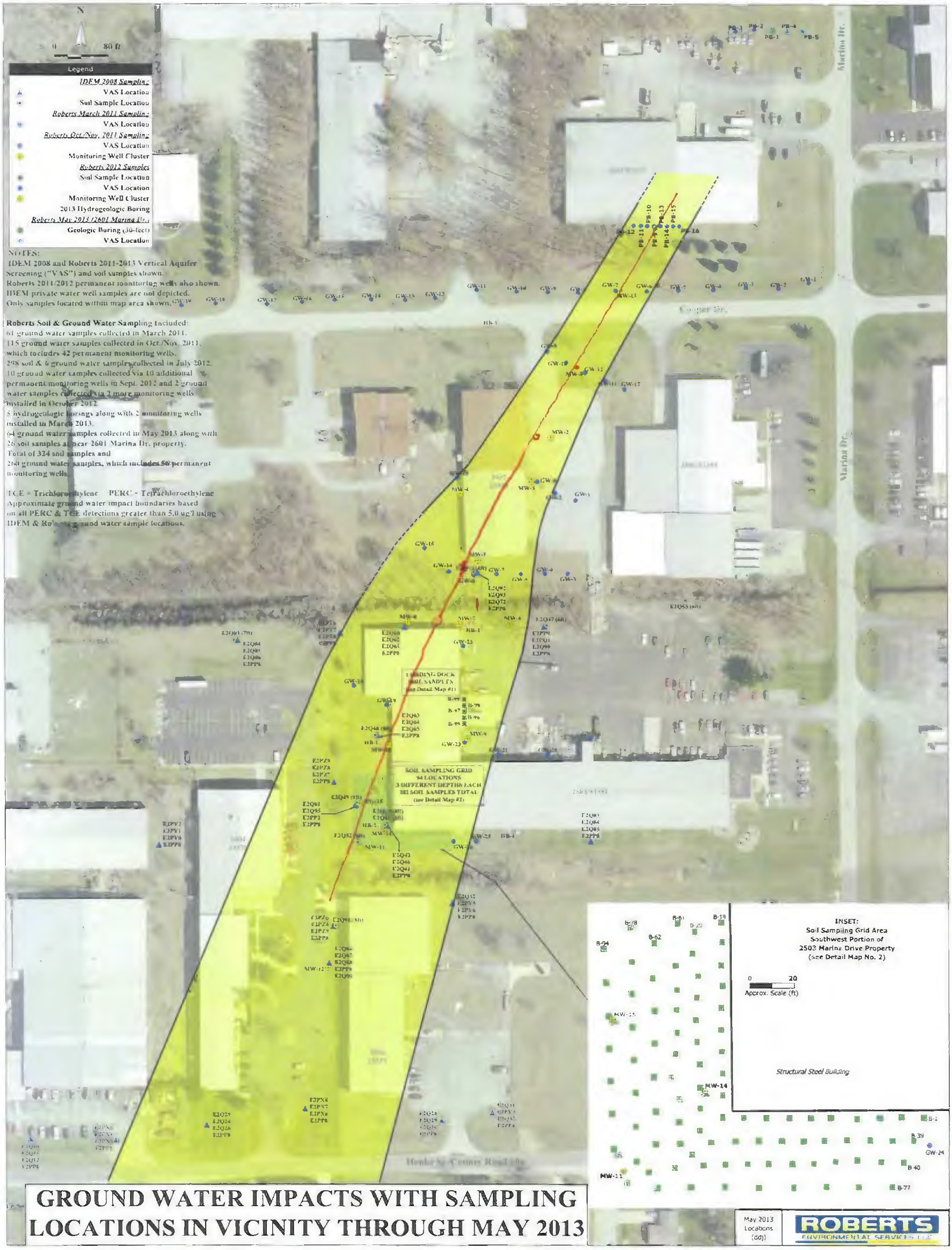
Signature of Excavation Contractor

Jeff Roberts
Print Name

NOTES: YOU MUST RESTORE THE SITE USING CITY OF ELKHART STANDARD CONSTRUCTION SPECIFICATIONS PARTICULARLY FOR 4" CONCRETE SIDEWALK WHICH MEET ADA REQUIREMENTS.

Elkhart County, IN

Printed: 08/22/13



GROUND WATER IMPACTS WITH SAMPLING LOCATIONS IN VICINITY THROUGH MAY 2013

ROBERTS
ENVIRONMENTAL SERVICES, LLC

2112 Carmen Court
Goshen, Indiana 46526

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QUALITY, COST-EFFECTIVE ENVIRONMENTAL CONSULTANTS

SAMPLE LOG

Page 1 of

PROJECT NO:

PROJECT NAME:

LOCATION: 2503 Marion

SAMPLER: [illegible]

DATE: 9-4-13

SAMPLE I.D.	DEPTH (ft)	DATE	TIME	SAMPLE TYPE (Soil, Water, etc)	LOCATION	DESCRIPTION	FID/NOTES/OTHER
GW-26 (12)	2-12	9-4-13	9:28		East of MW-7	≈8' bgs to SWL	Purge ≈1/2 gal each
GW-26 (32)	29-32.5		10:02				
GW-26 (28)	25-28.5		10:09				
GW-26 (24)	21-24.5		10:16				
GW-26 (20)	17-20.5		10:25				FD-1*
GW-26 (16)	13-16.5		10:33				
GW-27 (12)	2-12		11:00				
GW-27 (32)	29-32.5		11:25				
GW-27 (28)	25-28.5		11:31				
GW-27 (24)	21-24.5		11:37				
GW-27 (20)	17-20.5		11:43				
GW-27 (16)	13-16.5		11:51				
GW-28 (12)	2-12		12:38				HA to 5'

ROBERTS
ENVIRONMENTAL SERVICES, LLC

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Fax: (574) 537-9021

Bruce W. Hinshaw

QUALITY, COST-EFFECTIVE ENVIRONMENTAL CONSULTANTS

SAMPLE LOG

Page 2 of _____

PROJECT NO: _____

SAMPLER: _____

PROJECT NAME: _____

LOCATION: _____

DATE: 9-4-13

SAMPLE I.D.	DEPTH (ft)	DATE	TIME	SAMPLE TYPE (Soil, Water, etc)	LOCATION	DESCRIPTION	FID/NOTES/OTHER
GW-28 (32)	29-32.5	9-4-13	12:59				
GW-28 (28)	25-28.5		13:05				
GW-28 (24)	21-24.5		13:12				
GW-28 (20)	17-20.5		13:19				
GW-28 (16)	13-16.5		13:26				
GW-29 (12)	2-12		13:54				
GW-29 (32)	29-32.5		15:03				+ MS/MSD (6)
GW-29 (28)	25-28.5		15:13				
GW-29 (24)	21-24.5		15:20				
GW-29 (20)	17-20.5		15:29				
GW-29 (16)	13-16.5		15:36				
GW-30 (12)	2-12		14:34				
GW-30 (32)	29-32.5		16:01				

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QUALITY, COST-EFFECTIVE
ENVIRONMENTAL CONSULTANTS

SAMPLE LOG

Page 3 of _____

PROJECT NO: _____

SAMPLER: _____

PROJECT NAME: _____

LOCATION: _____

DATE: 8-4-13

SAMPLE I.D.	DEPTH (ft)	DATE	TIME	SAMPLE TYPE (Soil, Water, etc)	LOCATION	DESCRIPTION	FID/NOTES/OTHER
~~GW-30 (32)~~	~~29-32.5~~	~~8/4~~	~~see pg 2~~				
GW-30 (28)	25-28.5		16:09				
GW-30 (24)	21-24.5		16:18				
GW-30 (20)	17-20.5		16:25				
GW-30 (16)	13-16.5		16:34				