Addendum

Missouri Department of Natural Resources
Environmental Services Program

Addendum

Reason: Reprinted by individual sample

Order ID 091013003 **Program, Contact:** ESP Tim Rielly

Report Date: 11/03/2009 **LDPR/JobCode:** FELZB / NPLOZBL1

Order Comment:

Sample: AB07989

Customer #: 0932022

Facility ID:
County:
Collector: CHRIS RADCLIFFE
Sample Comment: Duplicate of 0932015

Site: Lake of the Ozarks Baseline Survey
Sample Reference ID:
Affiliation: ESP
Collect Date: 10/12/2009 3:30:00PM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
507/508	Alachlor	<0.25	ND,06	ug/L	1,663	507/508
507/508	Aldrin	<0.1	ND,06	ug/L	1,663	507/508
507/508	Arochlor 1016 (PCB-1016)	<0.25	ND	ug/L	1,663	507/508
507/508	Arochlor 1221 (PCB-1221)	<0.25	ND	ug/L	1,663	507/508
507/508	Arochlor 1232 (PCB-1232)	<0.25	ND	ug/L	1,663	507/508
507/508	Arochlor 1242 (PCB-1242)	<0.25	ND	ug/L	1,663	507/508
507/508	Arochlor 1248 (PCB-1248)	<0.25	ND	ug/L	1,663	507/508
507/508	Arochlor 1254 (PCB-1254)	<0.25	ND	ug/L	1,663	507/508
507/508	Arochlor 1260 (PCB-1260)	<0.25	ND	ug/L	1,663	507/508
507/508	Atrazine	0.34	05	ug/L	1,663	507/508
507/508	Butachlor	<0.25	ND	ug/L	1,663	507/508
507/508	Chlordane	<1	ND	ug/L	1,663	507/508
507/508	Cyanazine	<0.25	ND	ug/L	1,663	507/508
507/508	Dieldrin	<0.1	ND	ug/L	1,663	507/508
507/508	Endrin	<0.1	ND	ug/L	1,663	507/508
507/508	gamma-BHC (Lindane)	<0.1	ND	ug/L	1,663	507/508
507/508	Heptachlor	<0.1	ND	ug/L	1,663	507/508
507/508	Heptachlor Epoxide	<0.1	ND	ug/L	1,663	507/508
507/508	Hexachlorobenzene	<0.1	ND,06	ug/L	1,663	507/508
507/508	Hexachlorocyclopentadiene	<0.1	ND,06	ug/L	1,663	507/508
507/508	Methoxychlor	<0.1	ND	ug/L	1,663	507/508
507/508	Metolachlor	<0.25	ND,06	ug/L	1,663	507/508
507/508	Metribuzin	<0.25	ND	ug/L	1,663	507/508
507/508	Propachlor	<0.25	ND	ug/L	1,663	507/508
507/508	Simazine	<0.25	ND	ug/L	1,663	507/508
507/508	Toxaphene	<1	ND	ug/L	1,663	507/508

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507/508	Trifluralin	<1	ND	ug/L	1,663	507/508
Chloride	Chloride	5.50		mg/L	1,703	SM 4500-Cl-E
E. coli	E. coli	12.2		mpn/100ml		SM 9223B
Field Dissolved Oxygen	Field Dissolved Oxygen	6.35		mg/L		SM 4500-O-G
Field pH	Field pH	7.78		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	258 uS/cm				SM 2510
Field Temperature	Field Temperature	19.6 C				EPA 170.1
Non-Filterable Residue	Non-Filterable Residue	10.0		mg/L	1,636	SM 2540-D
Petroleum Fractions	TPH as Gasoline	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as Hydraulic Fluid	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as Jet Fuel	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as JP4	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as Kerosene	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as Mineral Spirits	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as No. 1 Diesel	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as No. 2 Diesel	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as No. 3 Diesel	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as No. 4 Diesel	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as No. 5 Diesel	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as No. 6 Diesel	<500	ND	ug/L	1,647	OA-2
Petroleum Fractions	TPH as Waste Oil	<500	ND	ug/L	1,647	OA-2
Total Alkalinity as CaCO3	Total Alkalinity as CaCO3	98.2		mg/L	1,805	SM 2320 B
Total Nitrogen	Total Nitrogen	0.53		mg/L	1,735	I-2650-03
Total Phosphorus	Total Phosphorus	0.05		mg/L	1,770	L 10-115-01-1-C
Turbidity-WQMS	Turbidity-WQMS	4.86		NTU		EPA 180.1
VOAs	1,1,1,2-Tetrachloroethane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,1,1-Trichloroethane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,1,2,2-Tetrachloroethane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,1,2-Trichloroethane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,1-Dichloroethane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,1-Dichloroethene	<0.5	ND	ug/L	1,580	8260B
VOAs	1,1-Dichloropropanone	<1	ND	ug/L	1,580	8260B
VOAs	1,1-Dichloropropene	<0.5	ND	ug/L	1,580	8260B
VOAs	1,2,3-Trichlorobenzene	<2.5	ND	ug/L	1,580	8260B
VOAs	1,2,3-Trichloropropane	<0.5	ND	ug/L	1,580	8260B

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VOAs	1,2,4-Trichlorobenzene	<2.5	ND	ug/L	1,580	8260B
VOAs	1,2,4-Trimethylbenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	1,2-Dibromo-3-chloropropane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,2-Dibromoethane (EDB)	<0.5	ND	ug/L	1,580	8260B
VOAs	1,2-Dichlorobenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	1,2-Dichloroethane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,2-Dichloropropane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,3,5-Trimethylbenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	1,3-Dichlorobenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	1,3-Dichloropropane	<0.5	ND	ug/L	1,580	8260B
VOAs	1,4-Dichlorobenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	1-Chorobutane	<0.5	ND	ug/L	1,580	8260B
VOAs	2,2-Dichloropropane	<0.5	ND	ug/L	1,580	8260B
VOAs	2-Butanone (MEK)	<2.5	ND	ug/L	1,580	8260B
VOAs	2-Chlorotoluene	<0.5	ND	ug/L	1,580	8260B
VOAs	2-Hexanone	<1	ND	ug/L	1,580	8260B
VOAs	2-Nitropropane	<0.5	ND	ug/L	1,580	8260B
VOAs	4-Chlorotoluene	<0.5	ND	ug/L	1,580	8260B
VOAs	4-Methyl-2-pentanone(MIBK)	<0.5	ND	ug/L	1,580	8260B
VOAs	acetone	<10	ND	ug/L	1,580	8260B
VOAs	Acrylonitrile	<1	ND	ug/L	1,580	8260B
VOAs	Allyl Chloride	<0.5	ND	ug/L	1,580	8260B
VOAs	Benzene	<0.5	ND	ug/L	1,580	8260B
VOAs	Bromobenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	Bromochloromethane	<0.5	ND	ug/L	1,580	8260B
VOAs	Bromodichloromethane	<0.5	ND	ug/L	1,580	8260B
VOAs	Bromoform	<0.5	ND	ug/L	1,580	8260B
VOAs	Bromomethane	<2.5	ND	ug/L	1,580	8260B
VOAs	carbon disulfide	<0.5	ND	ug/L	1,580	8260B
VOAs	Carbon Tetrachloride	<0.5	ND	ug/L	1,580	8260B
VOAs	Chloroacetonitrile	<12.5	ND	ug/L	1,580	8260B
VOAs	Chlorobenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	Chloroethane	<2.5	ND	ug/L	1,580	8260B
VOAs	Chloroform	<0.5	ND	ug/L	1,580	8260B
VOAs	Chloromethane	<12.5	ND	ug/L	1,580	8260B

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Collect Date: 10/12/2009 3:30:00PM

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
VOAs	cis-1,2-dichloroethene	<0.5	ND	ug/L	1,580	8260B
VOAs	cis-1,3-Dichloropropene	<0.5	ND	ug/L	1,580	8260B
VOAs	Dibromochloromethane	<0.5	ND	ug/L	1,580	8260B
VOAs	Dibromomethane	<0.5	ND	ug/L	1,580	8260B
VOAs	Dichlorodifluoromethane	<0.5	ND	ug/L	1,580	8260B
VOAs	Diethyl ether	<10	ND	ug/L	1,580	8260B
VOAs	Ethylbenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	Ethylmethacrylate	<0.5	ND	ug/L	1,580	8260B
VOAs	Hexachlorobutadiene	<1	ND	ug/L	1,580	8260B
VOAs	Hexachloroethane	<0.5	ND	ug/L	1,580	8260B
VOAs	Iodomethane	<2.5	ND	ug/L	1,580	8260B
VOAs	Isopropylbenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	m&p-Xylenes	<0.5	ND	ug/L	1,580	8260B
VOAs	Methacrylonitrile	<0.5	ND	ug/L	1,580	8260B
VOAs	Methyl Acrylate	<5	ND	ug/L	1,580	8260B
VOAs	Methylene chloride	<10	ND	ug/L	1,580	8260B
VOAs	Methylmethacrylate	<0.5	ND	ug/L	1,580	8260B
VOAs	Methyl-t-butyl ether	<0.5	ND	ug/L	1,580	8260B
VOAs	Naphthalene	<2.5	ND	ug/L	1,580	8260B
VOAs	n-Butylbenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	Nitrobenzene	<5	ND	ug/L	1,580	8260B
VOAs	n-Propylbenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	o-Xylene	<0.5	ND	ug/L	1,580	8260B
VOAs	Pentachloroethane	<0.5	ND	ug/L	1,580	8260B
VOAs	p-isopropyltoluene	<0.5	ND	ug/L	1,580	8260B
VOAs	Propionitrile	<10	ND	ug/L	1,580	8260B
VOAs	sec-Butylbenzene	<0.5	ND	ug/L	1,580	8260B
VOAs	Styrene	<0.5	ND	ug/L	1,580	8260B
VOAs	tert-Butylbenzene	<1	ND	ug/L	1,580	8260B
VOAs	Tetrachloroethene	<0.5	ND	ug/L	1,580	8260B
VOAs	Tetrahydrofuran	<2.5	ND	ug/L	1,580	8260B
VOAs	Toluene	<0.5	ND	ug/L	1,580	8260B
VOAs	Total Xylenes	<1	ND	ug/L	1,580	8260B
VOAs	trans-1,2-Dichloroethene	<0.5	ND	ug/L	1,580	8260B
VOAs	trans-1,3-Dichloropropene	<0.5	ND	ug/L	1,580	8260B

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Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
VOAs	trans-1,4-Dichloro-2-butene	<0.5	ND	ug/L	1,580	8260B
VOAs	Trichloroethene	<0.5	ND	ug/L	1,580	8260B
VOAs	Trichlorofluoromethane	<2.5	ND	ug/L	1,580	8260B
VOAs	Vinyl Chloride	<0.5	ND	ug/L	1,580	8260B

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt

Chris Boldt, Laboratory Manager
Environmental Services Program
Field Services Division

Qualifier Descriptions

01 Improper collection method
02 Improper preservation
03 Exceeded holding time
04 Analyzed by Contract Laboratory
05 Estimated value, detected below PQL
06 Estimated value, QC data outside limits
07 Estimated value, analyte outside calibration range
08 Analyte present in blank at > 1/2 reported value
09 Sample was diluted during analysis
10 Laboratory error
11 Estimated value, matrix interference
12 Insufficient quantity
13 Estimated value, true result is > reported value
14 Estimated value, non-homogeneous sample
15 No Result - Failed Quality Controls Requirements
16 Not analyzed - related analyte not detected
17 Results in dry weight
18 Sample pH is outside the acceptable range
19 Estimated value
20 Not analyzed - Instrument failure
21 No result - spectral interference
22 pH was performed at the Laboratory
ND Not detected at reported value