Risk Evaluation/ Corrective Action Program (RECAP)

Prepared by:
Louisiana Department of Environmental Quality
Corrective Action Group
August 4, 2003

Welcome to the **Louisiana Department of Environmental Quality's Risk Evaluation/Corrective Action Program (RECAP) workbook**. This workbook contains all of the Management Option 2 (MO-2) equations, except for the Domenico model. There is a spreadsheet for each of the MO-2 exposure pathways. Each spreadsheet lists the equations used to calculate a RECAP Standard and contains the calculations of the RECAP Standards for all of the chemicals listed in the document for that exposure pathway. Within the spreadsheets are comment boxes for each equation. The comment box contains the parameter definitions and the default values for that equation. (Point the mouse at the cell and rick click into that cell that contains the red triangle in the upper right corner and click show comment. Click the comment box to highlight the box drag the edge of the box to enlarge the cell to read the contents.)

The spreadsheets are linked together for data that is common to most of the equations (e.g., the Slope Factor (SF) and Reference dose (RfD) values are contained in one spreadsheet, "SF&RfD"). Site-specific data that can be entered under MO-2 is highlighted in blue. Site-specific input values related to a specific exposure pathway are listed in that exposure pathway spreadsheet. Site-specific values are found in the "Soil properties", "Sd & DAF Summers", "Soil-PEF", "Soiles", "GWes", and "GWair" spreadsheets. The soil properties spreadsheet is the only spreadsheet that contains site-specific input values that can be changed that will effect many of the equations. Site size can be entered as the length and width.

At the bottom of each spreadsheet are several rows highlighted in blue for additional chemicals.

LDEQ RECAP
APPENDIX H: TABLE H1
CANCER SLOPE FACTORS AND REFERENCE DOSES

COMPOUND	CAS #	SF_o	REF	SF_i	REF	RfD_o	REF	RfD_i	REF	ABS
		$(mg/kg\text{-}day)^{-1}$		$(mg/kg\text{-}day)^{-1}$		mg/kg-day		mg/kg-day		unitless
Acenaphthene	83-32-9	*******		*******		6.00E-02	I	6.00E-02	*	0
Acenaphthylene	208-96-8	*******		*******		6.00E-02	S	6.00E-02	*	0
Acetone	67-64-1	*******		*******		1.00E-01	I	1.00E-01	*	0
Aldrin	309-00-2	1.70E+01	I	1.71E+01	I	3.00E-05	I	3.00E-05	*	0.1
Aniline	62-53-3	5.70E-03	I	5.70E-03	*	7.00E-03	E	2.86E-04	I	0.1
Anthracene	120-12-7	*******		*******		3.00E-01	I	3.00E-01	*	0
Antimony	7440-36-0	*******		*******		4.00E-04	I	4.00E-04	*	0
Arsenic	7440-38-2	1.50E+00	I	1.51E+01	I	3.00E-04	I	3.00E-04	*	0.03
Barium	7440-39-3	*******		*******		7.00E-02	I	1.43E-04	H	0
Benzene	71-43-2	2.90E-02	I	2.90E-02	I	4.00E-03	I	8.60E-03	I	0
Benz(a)anthracene	56-55-3	7.30E-01	E	3.10E-01	E	*******		*******		0.13
Benzo(a)pyrene	50-32-8	7.30E+00	I	3.10E+00	E	*******		*******		0.13
Benzo(b)fluoranthene	205-99-2	7.30E-01	E	3.10E-01	E	*******		*******		0.13
Benzo(k)fluoranthene	207-08-9	7.30E-02	E	3.10E-02	E	*******		*******		0.13
Beryllium	7440-41-7	*******		8.40E+00	I	2.00E-03	I	5.70E-06	I	0
Biphenyl,1,1-	92-52-4	*******		*******		5.00E-02	I	5.00E-02	*	0
Bis(2-chloroethyl)ether	111-44-4	1.10E+00	I	1.16E+00	I	*******		*******		0
Bis(2-chloroisopropyl)ether	108-60-1	7.00E-02	H	3.50E-02	H	4.00E-02	I	4.00E-02	*	0
Bis(2-ethyl-hexyl)phthalate	117-81-7	1.40E-02	I	1.40E-02	*	2.00E-02	I	2.00E-02	*	0.1
Bromodichloromethane	75-27-4	6.20E-02	I	6.20E-02	*	2.00E-02	I	2.00E-02	*	0
Bromoform	75-25-2	7.90E-03	I	3.85E-03	I	2.00E-02	I	2.00E-02	*	0
Bromomethane	74-83-9	*******		*******		1.40E-03	I	1.43E-03	I	0
Butyl benzyl phthalate	85-68-7	*******		*******		2.00E-01	I	2.00E-01	*	0.1
Cadmium	7440-43-9	*******		6.30E+00	I	5.00E-04	I,D	5.71E-05	W	0.001
Carbon Disulfide	75-15-0	*******		*******		1.00E-01	I	2.00E-01	I	0
Carbon Tetrachloride	56-23-5	1.30E-01	I	5.25E-02	I	7.00E-04	I	5.71E-04	W	0
Chlordane	57-74-9	3.50E-01	I	3.50E-01	I	5.00E-04	I	2.00E-04	I	0.04
Chloroaniline,p-	106-47-8	*******		*******		4.00E-03	I	4.00E-03	*	0.1
Chlorobenzene	108-90-7	*******		*******		2.00E-02	I	1.70E-02	E	0
Chlorodibromomethane	124-48-1	8.40E-02	I	8.40E-02	*	2.00E-02	I	2.00E-02	*	0
Chloroethane (Ethylchloride)	75-00-3	2.90E-03	E	2.90E-03	*	4.00E-01	E	2.86E+00	I	0
Chloroform	67-66-3	6.10E-03	W	8.05E-02	I	1.00E-02	I	8.60E-05	E	0
Chloromethane	74-87-3	1.30E-02	H	6.30E-03	H	8.60E-02	#	8.60E-02	E	0

NOTE: See end of Table for designation of letters and symbols.

LDEQ RECAP
APPENDIX H: TABLE H1
CANCER SLOPE FACTORS AND REFERENCE DOSES

COMPOUND	CAS #	SF_o	REF	SF_i	REF	RfD_o	REF	RfD_i	REF	ABS
		$(mg/kg\text{-}day)^{-1}$		$(mg/kg\text{-}day)^{-1}$		mg/kg-day		mg/kg-day		unitless
Chloronaphthalene,2-	91-58-7	*******		*******		8.00E-02	I	8.00E-02	*	0
Chlorophenol,2-	95-57-8	*******		*******		5.00E-03	I	5.00E-03	*	0
Chromium(III)	16065-83-1	*******		*******		1.50E+00	I	*******		0
Chromium(VI)	18540-29-97	*******		2.90E-02	I	3.00E-03	I	*******		0
Chrysene	218-01-9	7.30E-03	E	3.10E-03	E	*******		*******		0.13
Cobalt	7440-48-4	*******		*******		6.00E-02	E	5.70E-06	W	0
Copper	7440-50-8	*******		*******		4.00E-02	H	*******		0
Cyanide (free)	57-12-5	*******		*******		2.00E-02	I	*******		0.01
DDD	72-54-8	2.40E-01	I	2.40E-01	*	*******		*******		0.03
DDE	72-55-9	3.40E-01	I	3.40E-01	*	*******		*******		0.03
DDT	50-29-3	3.40E-01	I	3.40E-01	I	5.00E-04	I	5.00E-04	*	0.03
Dibenz(a,h)anthracene	53-70-3	7.30E+00	E	3.10E+00	E	*******		*******		0.13
Dibenzofuran	132-64-9	*******		*******		4.00E-03	E	4.00E-03	*	0
Dibromo-3-chloropropane,1,2-	96-12-8	1.40E+00	H	2.42E-03	H	5.71E-05	#	5.71E-05	I	0.1
Dichlorobenzene,1,2-	95-50-1	*******		*******		9.00E-02	I	5.70E-02	H	0
Dichlorobenzene,1,3-	541-73-1	*******		*******		9.00E-04	E	9.00E-04	*	0
Dichlorobenzene,1,4-	106-46-7	2.40E-02	H	2.40E-02	*	3.00E-02	E	2.29E-01	I	0
Dichlorobenzidine,3,3-	91-94-1	4.50E-01	I	4.50E-01	*	*******		*******		0.1
Dichloroethane,1,1-	75-34-3	*******		*******		1.00E-01	H	1.43E-01	H	0
Dichloroethane,1,2-	107-06-2	9.10E-02	I	9.10E-02	I	3.00E-03	*	2.90E-03	W	0
Dichloroethene,1,1-	75-35-4	*******		*******		5.00E-02	I	5.70E-02	I	0
Dichloroethene,cis,1,2-	156-59-2	*******		*******		1.00E-02	H	1.00E-02	*	0
Dichloroethene,trans,1,2-	156-60-5	*******		*******		2.00E-02	I	2.00E-02	*	0
Dichlorophenol,2,4-	120-83-2	*******		*******		3.00E-03	I	3.00E-03	*	0.1
Dichloropropane,1,2-	78-87-5	6.80E-02	H	6.80E-02	*	1.14E-03	*	1.14E-03	I	0
Dichloropropene,1,3-	542-75-6	1.00E-01	I	1.40E-02	I	3.00E-02	I	5.71E-03	I	0
Dieldrin	60-57-1	1.60E+01	I	1.61E+01	I	5.00E-05	I	5.00E-05	*	0.1
Diethylphthalate	84-66-2	*******		*******		8.00E-01	I	8.00E-01	*	0.1
Dimethylphenol,2,4-	105-67-9	*******		*******		2.00E-02	I	2.00E-02	*	0.1
Dimethylphthalate	131-11-3	*******		*******		1.00E+01	H	1.00E+01	*	0.1
Di-n-octylphthalate	117-84-0	*******		*******		4.00E-02	E	2.00E-02	*	0.1
Dinitrobenzene,1,3-	99-65-0	*******		*******		1.00E-04	I	1.00E-04	*	0.1
Dinitrophenol,2,4-	51-28-5	*******		*******		2.00E-03	I	2.00E-03	*	0.1

NOTE: See end of Table for designation of letters and symbols.

LDEQ RECAP
APPENDIX H: TABLE H1
CANCER SLOPE FACTORS AND REFERENCE DOSES

COMPOUND	CAS #	SF_o	REF	SF_i	REF	RfD_o	REF	RfD_i	REF	ABS
		$(mg/kg\text{-}day)^{-1}$		$(mg/kg\text{-}day)^{-1}$		mg/kg-day		mg/kg-day		unitless
Dinitrotoluene,2,6-	606-20-2	*******		*******		1.00E-03	H	1.00E-03	*	0.1
Dinitrotoluene,2,4-	121-14-2	*******		*******		2.00E-03	I	2.00E-03	*	0.1
Dinoseb	88-85-7	*******		*******		1.00E-03	I	1.00E-03	*	0.1
Endosulfan	115-29-7	*******		*******		6.00E-03	I	6.00E-03	*	0.1
Endrin	72-20-8	*******		*******		3.00E-04	I	3.00E-04	*	0.1
Ethyl benzene	100-41-4	*******		*******		1.00E-01	I	2.86E-01	I	0
Fluoranthene	206-44-0	*******		*******		4.00E-02	I	4.00E-02	*	0.13
Fluorene	86-73-7	*******		*******		4.00E-02	I	4.00E-02	*	0
Heptachlor	76-44-8	4.50E+00	I	4.55E+00	I	5.00E-04	I	5.00E-04	*	0.1
Heptachlor epoxide	1024-57-3	9.10E+00	I	9.10E+00	I	1.30E-05	I	1.30E-05	*	0.1
Hexachlorobenzene	118-74-1	1.60E+00	I	1.61E+00	I	8.00E-04	I	8.00E-04	*	0
Hexachlorobutadiene	87-68-3	7.80E-02	I	7.70E-02	I	2.00E-04	H	2.00E-04	*	0.1
Hexachlorocyclohexane,alpha	319-84-6	6.30E+00	I	6.30E+00	I	*******		*******		0.04
Hexachlorocyclohexane,beta	319-85-7	1.80E+00	I	1.80E+00	I	*******		*******		0.04
Hexachlorocyclohexane,gamma	58-89-9	1.30E+00	H	1.30E+00	*	3.00E-04	I	3.00E-04	*	0.04
Hexachlorocyclopentadiene	77-47-4	*******		*******		6.00E-03	I	5.70E-05	I	0
Hexachloroethane	67-72-1	1.40E-02	I	1.40E-02	I	1.00E-03	I	1.00E-03	*	0
Indeno(1,2,3-cd)pyrene	193-39-5	7.30E-01	E	3.10E-01	E	*******		*******		0.13
Isobutyl alcohol	78-83-1	*******		*******		3.00E-01	I	3.00E-01	*	0.1
Isophorone	78-59-1	9.50E-04	I	9.50E-04	*	2.00E-01	I	2.00E-01	*	0.1
Lead (inorganic)	7439-92-1	*******		*******		*******		*******		IEUBK
Mercury (inorganic)	7487-94-7	*******		*******		3.00E-04	I	8.57E-05	I	0
Methoxychlor	72-43-5	*******		*******		5.00E-03	I	5.00E-03	*	0.1
Methylene chloride	75-09-2	7.50E-03	I	1.64E-03	I	6.00E-02	I	8.57E-01	H	0
Methyl ethyl ketone	78-93-3	*******		*******		6.00E-01	I	2.86E-01	I	0
Methyl isobutyl ketone	108-10-1	*******		*******		8.00E-02	H	8.60E-01	I	0
Methylnaphthalene,2-	91-57-6	*******		*******		2.00E-02	S	8.60E-04	S	0
MTBE (methyl tert-butyl ether)	1634-04-4	*******		*******		8.57E-01	#	8.57E-01	I	0
Naphthalene	91-20-3	*******		*******		2.00E-02	I	8.60E-04	I	0
Nickel	7440-02-0	*******		*******		2.00E-02	I	*******		0
Nitrate	14797-55-8	*******		*******		1.60E+00	I	1.60E+00	*	0
Nitrite	14797-65-0	*******		*******		1.00E-01	I	1.00E-01	*	0
Nitroaniline,2-	88-74-4	*******		*******		3.00E-03	E	2.90E-05	E	0

NOTE: See end of Table for designation of letters and symbols.

LDEQ RECAP
APPENDIX H: TABLE H1
CANCER SLOPE FACTORS AND REFERENCE DOSES

COMPOUND	CAS #	SF_o	REF	SF_i	REF	RfD_o	REF	RfD_i	REF	ABS
		$(mg/kg\text{-}day)^{-1}$		$(mg/kg\text{-}day)^{-1}$		mg/kg-day		mg/kg-day		unitless
Nitroaniline,3-	99-09-2	*******		*******		3.00E-03	O	3.00E-03	*	0
Nitroaniline,4-	100-01-6	*******		*******		3.00E-03	O	3.00E-03	*	0.1
Nitrobenzene	98-95-3	*******		*******		5.00E-04	I	5.71E-04	H	0
Nitrophenol,4-	100-02-7	*******		*******		8.00E-03	E	8.00E-03	*	0.1
Nitrosodi-n-propylamine,n-	621-64-7	7.00E+00	I	7.00E+00	*	*******		*******		0.1
N-nitrosodiphenylamine	86-30-6	4.90E-03	I	4.90E-03	*	*******		*******		0.1
Pentachlorophenol	87-86-5	1.20E-01	I	1.20E-01	*	3.00E-02	I	3.00E-02	*	0.25
Phenanthrene	85-01-8	*******		*******		3.00E-01	S	3.00E-01	*	0
Phenol	108-95-2	*******		*******		3.00E-01	I	3.00E-01	*	0
Polychlorinated biphenyls	1336-36-3	2.00E+00	I	2.00E+00	*	2.00E-05	I	2.00E-05	*	0.14
Pyrene	129-00-0	*******		*******		3.00E-02	I	3.00E-02	*	0
Selenium	7782-49-2	*******		*******		5.00E-03	I	*******		0
Silver	7440-22-4	*******		*******		5.00E-03	I	*******		0
Styrene	100-42-5	*******		*******		2.00E-01	I	2.86E-01	I	0
Tetrachlorobenzene,1,2,4,5-	95-94-3	*******		*******		3.00E-04	I	3.00E-04	*	0.1
Tetrachloroethane,1,1,1,2-	630-20-6	2.60E-02	I	2.59E-02	I	3.00E-02	I	3.00E-02	*	0
Tetrachloroethane,1,1,2,2-	79-34-5	2.00E-01	I	2.03E-01	I	6.00E-02	E	6.00E-02	*	0
Tetrachloroethylene	127-18-4	5.20E-02	E	2.03E-03	E	1.00E-02	I	1.10E-01	E	0
Tetrachlorophenol,2,3,4,6-	58-90-2	*******		*******		3.00E-02	I	3.00E-02	*	0.1
Thallium	7440-28-0	*******		*******		7.00E-05	H	*******		0
Toluene	108-88-3	*******		*******		2.00E-01	I	1.14E-01	I	0
Toxaphene	8001-35-2	1.10E+00	I	1.12E+00	I	*******		*******		0.1
Trichlorobenzene,1,2,4-	120-82-1	*******		*******		1.00E-02	I	5.70E-02	H	0
Trichloroethane,1,1,1-	71-55-6	*******		*******		3.50E-02	E	2.86E-01	E	0
Trichloroethane,1,1,2-	79-00-5	5.70E-02	I	5.60E-02	I	4.00E-03	I	4.00E-03	*	0
Trichloroethene	79-01-6	4.00E-01	E	4.00E-01	E	3.00E-04	E	1.14E-02	E	0
Trichlorofluoromethane	75-69-4	*******		*******		3.00E-01	I	2.00E-01	A	0
Trichlorophenol,2,4,5-	95-95-4	*******		*******		1.00E-01	I	1.00E-01	*	0.1
Trichlorophenol,2,4,6-	88-06-2	1.10E-02	I	1.10E-02	I	*******		*******		0.1
Vanadium	7440-62-2	*******		*******		7.00E-03	H	*******	*	0
Vinyl chloride	75-01-4	1.40E+00	I	3.10E-02	I	3.00E-03	I	2.90E-02	I	0
Xylene(mixed)	1330-20-7	*******		*******		2.00E-01	I	2.90E-02	I	0
Zinc	7440-66-6	*******		*******		3.00E-01	I	3.00E-01	*	0

NOTE: See end of Table for designation of letters and symbols.

LDEQ RECAP
APPENDIX H: TABLE H1
CANCER SLOPE FACTORS AND REFERENCE DOSES

COMPOUND	CAS #	SF_o	REF	SF_i	REF	RfD_o	REF	RfD_i	REF	ABS
		$(mg/kg\text{-}day)^{-1}$		$(mg/kg\text{-}day)^{-1}$		mg/kg-day		mg/kg-day		unitless
Aliphatics C6-C8	NA	*******		*******		5.00E+00	T	5.30E+00	T	0
Aliphatics >C8-C10	NA	*******		*******		1.00E-01	T	2.90E-01	T	0
Aliphatics >C10-C12	NA	*******		*******		1.00E-01	T	3.00E-01	T	0
Aliphatics >C12-C16	NA	*******		*******		1.00E-01	T	3.00E-01	T	0
Aliphatics >C16-C35	NA	*******		*******		2.00E+00	T	2.00E+00	*	0.1
Aromatics >C8-C10	NA	*******		*******		4.00E-02	T	6.00E-02	T	0
Aromatics >C10-C12	NA	*******		*******		4.00E-02	T	6.00E-02	T	0
Aromatics >C12-C16	NA	*******		*******		4.00E-02	T	6.00E-02	T	0
Aromatics >C16-C21	NA	*******		*******		3.00E-02	T	3.00E-02	*	0.1
Aromatics >C21-C35	NA	*******		*******		3.00E-02	T	3.00E-02	*	0.1

I = Integrated Risk Information System (IRIS), EPA.
H = Health Effects Assessment Summary Tables (HEAST), EPA.
A = Health Effects Assessment Summary Tables Alternative, EPA Region III Risk-Based Concentration Table.
E = EPA-NCEA Regional Support provisional value, EPA Region III Risk-Based Concentration Table.
* = Inhalation toxicity not available, oral toxicity value used to assess inhalation exposure.
# = Oral toxicity value not available, inhalation toxicity value used to assess oral exposure.
O = EPA Region III Risk-Based Concentration Table.
W = Withdrawn from IRIS or HEAST.
T = TPH Criteria Working Group, 1997.
IEUBK = refer to IEUBK model guidelines.
D= Dermal RfD for cadmium is 2.5E-05 mg/kg-d (based on an oral absorption efficiency of 5%; RAGS-E, EPA 1999).
S = Surrogate (Acenaphthene for Acenaphthylene; Naphthalene for Methylnaphthalene, 2-; Anthracene for Phenanthrene) .

NOTE: See end of Table for designation of letters and symbols.

LDEQ RECAP
APPENDIX H: TABLE H2
CHEMICAL AND PHYSICAL PARAMETERS

COMPOUND	CAS #	MOL. WT	Koc	REF	H	REF	Da	REF	Dw	REF	S	REF
		g/g-mole	cm3/g		atm-m3/mol		cm2/s		cm2/s		mg/L	
Acenaphthene	83-32-9	154.2	4.90E+03	1	1.55E-04	1	4.21E-02	1	7.69E-06	1	4.24E+00	1
Acenaphthylene	208-96-8	152.2	2.00E+03	2	1.14E-04	2	4.39E-02	3	7.53E-06	3	1.60E+01	2
Acetone	67-64-1	58.08	5.75E-01	1	3.88E-05	1	1.24E-01	1	1.14E-05	1	1.00E+06	1
Aldrin	309-00-2	364.91	4.87E+04	1	1.70E-04	1	1.32E-02	1	4.86E-06	1	1.80E-01	1
Aniline	62-53-3	93.13	2.57E+01	5	1.90E-06	2	7.00E-02	3	8.30E-06	3	3.60E+04	2
Anthracene	120-12-7	178.23	2.35E+04	1	6.50E-05	1	3.24E-02	1	7.74E-06	1	4.30E-02	1
Antimony	7440-36-0	121.75	********	********	********	********	********	********	********	********	********	*******
Arsenic	7440-38-2	74.92	********	********	********	********	********	********	********	********	********	*******
Barium	7440-39-3	137.33	********	********	********	********	********	********	********	********	********	*******
Benzene	71-43-2	78.11	6.17E+01	1	5.55E-03	1	8.80E-02	1	9.80E-06	1	1.75E+03	1
Benz(a)anthracene	56-55-3	228.29	3.58E+05	1	3.35E-06	1	5.10E-02	1	9.00E-06	1	9.40E-03	1
Benzo(a)pyrene	50-32-8	252.32	9.69E+05	1	1.13E-06	1	4.30E-02	1	9.00E-06	1	1.60E-03	1
Benzo(b)fluoranthene	205-99-2	252.32	1.23E+06	1	1.11E-04	1	2.26E-02	1	5.56E-06	1	1.50E-03	1
Benzo(k)fluoranthene	207-08-9	252.32	1.23E+06	1	8.29E-07	1	2.26E-02	1	5.56E-06	1	8.00E-04	1
Beryllium	7440-41-7	9.01	********	********	********	********	********	********	********	********	********	*******
Biphenyl,1,1-	92-52-4	154.21	5.13E+03	5	3.00E-04	2	4.04E-02	9	8.15E-06	E	7.50E+00	2
Bis(2-chloroethyl)ether	111-44-4	143.01	7.59E+01	1	1.80E-05	1	6.92E-02	1	7.53E-06	1	1.70E+04	1
Bis(2-chloroisopropyl)ether	108-60-1	171.04	6.17E+01	4	1.13E-04	4	5.95E-02	E	6.62E-06	E	1.70E+03	4
Bis(2-ethyl-hexyl)phthalate	117-81-7	390.56	1.10E+05	1	1.02E-07	1	3.51E-02	1	3.66E-06	1	3.40E-01	1
Bromodichloromethane	75-27-4	163.83	5.50E+01	1	1.60E-03	1	2.98E-02	1	1.06E-05	1	6.70E+03	1
Bromoform	75-25-2	252.73	1.26E+02	1	5.35E-04	1	1.49E-02	1	1.03E-05	1	3.10E+03	1
Bromomethane	74-83-9	94.94	9.00E+00	1	6.20E-03	2	7.28E-02	3	1.21E-05	3	1.50E+04	2
Butyl benzyl phthalate	85-68-7	312.37	1.37E+04	1	1.26E-06	1	1.74E-02	1	4.83E-06	1	2.70E+00	1
Cadmium	7440-43-9	112.41	********	********	********	********	********	********	********	********	********	*******
Carbon Disulfide	75-15-0	76.14	4.57E+01	1	3.03E-02	1	1.04E-01	1	1.00E-05	1	1.19E+03	1
Carbon Tetrachloride	56-23-5	153.82	1.52E+02	1	3.04E-02	1	7.80E-02	1	8.80E-06	1	7.93E+02	1
Chlordane	57-74-9	409.78	5.13E+04	1	4.86E-05	1	1.18E-02	1	4.37E-06	1	5.60E-02	1
Chloroaniline,p-	106-47-8	127.57	6.61E+01	1	3.31E-07	1	4.83E-02	1	1.01E-05	1	5.30E+03	1
Chlorobenzene	108-90-7	112.56	2.24E+02	1	3.70E-03	1	7.30E-02	1	8.70E-06	1	4.72E+02	1
Chlorodibromomethane	124-48-1	208.28	6.31E+01	1	7.83E-04	1	1.96E-02	1	1.05E-05	1	2.60E+03	1
Chloroethane (Ethylchloride)	75-00-3	64.51	3.24E+00	4	8.80E-03	2	2.71E-01	E	1.15E-05	E	5.70E+03	2
Chloroform	67-66-3	119.38	5.25E+01	1	3.67E-03	1	1.04E-01	1	1.00E-05	1	7.92E+03	1
Chloromethane	74-87-3	50.49	2.51E+01	4	8.80E-03	2	1.26E-01	E	6.50E-06	E	5.30E+03	1
Chloronaphthalene,2-	91-58-7	162.62	8.51E+03	4	3.10E-04	2	3.47E-02	3	8.80E-06	3	1.20E+01	2

NOTE: See end of Table for designation of numbers and letter.

LDEQ RECAP
APPENDIX H: TABLE H2
CHEMICAL AND PHYSICAL PARAMETERS

COMPOUND	CAS #	MOL. WT	Koc	REF	H	REF	Da	REF	Dw	REF	S	REF
		g/g-mole	cm3/g		atm-m3/mol		cm2/s		cm2/s		mg/L	
Chlorophenol,2-	95-57-8	128.56	3.63E+02	4	3.91E-04	1	5.01E-02	1	9.46E-06	1	2.20E+04	1
Chromium(III)	16065-83-1	52	********	********	********	********	********	********	********	********	********	*******
Chromium(VI)	18540-29-97	52	********	********	********	********	********	********	********	********	********	*******
Chrysene	218-01-9	228.29	3.98E+05	1	9.46E-05	1	2.48E-02	1	6.21E-06	1	1.60E-03	1
Cobalt	7440-48-4	58.93	********	********	********	********	********	********	********	********	********	*******
Copper	7440-50-8	63.55	********	********	********	********	********	********	********	********	********	*******
Cyanide (free)	57-12-5	26.01	********	********	********	********	********	********	********	********	********	*******
DDD	72-54-8	320.04	4.58E+04	1	4.00E-06	1	1.69E-02	1	4.76E-06	1	9.00E-02	1
DDE	72-55-9	318.03	8.64E+04	1	2.10E-05	1	1.44E-02	1	5.87E-06	1	1.20E-01	1
DDT	50-29-3	354.49	6.78E+05	1	8.10E-06	1	1.37E-02	1	4.95E-06	1	2.50E-02	1
Dibenz(a,h)anthracene	53-70-3	278.35	1.79E+06	1	1.47E-08	1	2.02E-02	1	5.18E-06	1	2.50E-03	1
Dibenzofuran	132-64-9	168.19	8.13E+03	4	1.30E-05	2	2.67E-02	3	6.00E-06	3	3.10E+00	2
Dibromo-3-chloropropane,1,2-	96-12-8	236.33	8.80E+01	E	1.50E-04	2	2.12E-02	3	7.00E-06	3	1.20E+03	2
Dichlorobenzene,1,2-	95-50-1	147	3.79E+02	1	1.90E-03	1	6.90E-02	1	7.90E-06	1	1.56E+02	1
Dichlorobenzene,1,3-	541-73-1	147	1.70E+03	4	3.30E-03	2	6.42E-02	E	7.10E-06	E	1.30E+02	2
Dichlorobenzene,1,4-	106-46-7	147	6.16E+02	1	2.43E-03	1	6.90E-02	1	7.90E-06	1	7.38E+01	1
Dichlorobenzidine,3,3-	91-94-1	253.13	7.24E+02	1	4.00E-09	1	1.94E-02	1	6.74E-06	1	3.10E+00	1
Dichloroethane,1,1-	75-34-3	98.96	5.34E+01	1	5.62E-03	1	7.42E-02	1	1.05E-05	1	5.06E+03	1
Dichloroethane,1,2-	107-06-2	98.96	3.80E+01	1	9.79E-04	1	1.04E-01	1	9.90E-06	1	8.52E+03	1
Dichloroethene,1,1-	75-35-4	96.94	6.50E+01	1	2.61E-02	1	9.00E-02	1	1.04E-05	1	2.25E+03	1
Dichloroethene,cis,1,2-	156-59-2	96.94	3.55E+01	1	4.08E-03	1	7.36E-02	1	1.13E-05	1	3.50E+03	1
Dichloroethene,trans,1,2-	156-60-5	96.94	3.80E+01	1	9.38E-03	1	7.07E-02	E	1.19E-05	E	6.30E+03	1
Dichlorophenol,2,4-	120-83-2	163	8.71E+02	4	3.16E-06	1	3.46E-02	1	8.77E-06	1	4.50E+03	1
Dichloropropane,1,2-	78-87-5	112.99	4.70E+01	1	2.80E-03	1	7.82E-02	1	8.73E-06	1	2.80E+03	1
Dichloropropene,1,3-	542-75-6	110.98	4.57E+01	1	1.77E-03	1	6.26E-02	1	1.00E-05	1	2.80E+03	1
Dieldrin	60-57-1	380.91	2.55E+04	1	1.51E-05	1	1.25E-02	1	4.74E-06	1	1.95E-01	1
Diethylphthalate	84-66-2	222.24	8.22E+01	1	4.50E-07	1	2.56E-02	1	6.35E-06	1	1.08E+03	1
Dimethylphenol,2,4-	105-67-9	122.17	2.09E+02	1	2.00E-06	1	5.84E-02	1	8.69E-06	1	7.87E+03	1
Dimethylphthalate	131-11-3	194.19	4.26E+01	4	1.10E-07	2	5.68E-02	3	6.30E-06	3	4.00E+03	2
Di-n-octylphthalate	117-84-0	390.56	8.32E+07	1	6.68E-05	1	1.51E-02	1	3.58E-06	1	2.00E-02	1
Dinitrobenzene,1,3-	99-65-0	168.11	1.51E+02	5	3.70E-07	2	2.79E-01	3	9.10E-06	3	5.30E+02	2
Dinitrophenol,2,4-	51-28-5	184.11	1.78E+01	4	4.43E-07	1	2.73E-02	1	9.06E-06	1	2.79E+03	1
Dinitrotoluene,2,6-	606-20-2	182.14	6.92E+01	1	7.47E-07	1	3.27E-02	1	7.26E-06	1	1.82E+02	1
Dinitrotoluene,2,4-	121-14-2	182.14	9.55E+01	1	9.26E-08	1	2.03E-01	1	7.06E-06	1	2.70E+02	1

NOTE: See end of Table for designation of numbers and letter.

LDEQ RECAP
APPENDIX H: TABLE H2
CHEMICAL AND PHYSICAL PARAMETERS

COMPOUND	CAS #	MOL. WT	Koc	REF	H	REF	Da	REF	Dw	REF	S	REF
		g/g-mole	cm3/g		atm-m3/mol		cm2/s		cm2/s		mg/L	
Dinoseb	88-85-7	240.22	1.24E+02	8	4.60E-07	2	5.00E-02	E	5.60E-06	E	5.20E+01	2
Endosulfan	115-29-7	406.93	2.04E+03	1	1.12E-05	1	1.15E-02	1	4.55E-06	1	5.10E-01	1
Endrin	72-20-8	380.93	1.08E+04	1	7.52E-06	1	1.25E-02	1	4.74E-06	1	2.50E-01	1
Ethyl benzene	100-41-4	106.17	2.04E+02	1	7.88E-03	1	7.50E-02	1	7.80E-06	1	1.69E+02	1
Fluoranthene	206-44-0	202.26	4.91E+04	1	1.61E-05	1	3.02E-02	1	6.35E-06	1	2.06E-01	1
Fluorene	86-73-7	166.22	7.71E+03	1	6.36E-05	1	3.63E-02	1	7.88E-06	1	1.98E+00	1
Heptachlor	76-44-8	373.32	9.53E+03	1	1.48E+00	1	1.12E-02	1	5.69E-06	1	1.80E-01	1
Heptachlor epoxide	1024-57-3	389.32	8.32E+04	1	9.50E-06	1	1.32E-02	1	4.23E-06	1	2.00E-01	1
Hexachlorobenzene	118-74-1	284.78	8.00E+04	1	1.32E-03	1	5.42E-02	1	5.91E-06	1	6.20E+00	1
Hexachlorobutadiene	87-68-3	260.76	5.37E+04	1	8.15E-03	1	5.61E-02	1	6.16E-06	1	3.23E+00	1
Hexachlorocyclohexane,alpha	319-84-6	290.83	1.76E+03	1	1.06E-05	1	1.42E-02	1	7.34E-06	1	2.00E+00	1
Hexachlorocyclohexane,beta	319-85-7	290.83	2.14E+03	1	7.43E-07	1	1.42E-02	1	7.34E-06	1	2.40E-01	1
Hexachlorocyclohexane,gamma	58-89-9	290.83	1.35E+03	1	1.40E-05	1	1.42E-02	1	7.34E-06	1	6.80E+00	1
Hexachlorocyclopentadiene	77-47-4	272.77	2.00E+05	1	2.70E-02	1	1.61E-02	1	7.21E-06	1	1.80E+00	1
Hexachloroethane	67-72-1	236.74	1.78E+03	1	3.89E-03	1	2.50E-03	1	6.80E-06	1	5.00E+00	1
Indeno(1,2,3-cd)pyrene	193-39-5	276.34	3.47E+06	1	1.60E-06	1	1.90E-02	1	5.66E-06	1	2.20E-05	1
Isobutyl alcohol	78-83-1	74.12	2.20E+00	1	1.20E-05	2	9.00E-02	E	1.00E-05	E	8.50E+04	2
Isophorone	78-59-1	138.21	4.68E+01	1	6.64E-06	1	6.23E-02	1	6.76E-06	1	1.20E+04	1
Lead (inorganic)	7439-92-1	207.2	********	********	********	********	********	********	********	********	********	********
Mercury (inorganic)	7487-94-7	200.59	********	********	********	********	********	********	********	********	********	********
Methoxychlor	72-43-5	345.65	8.00E+04	1	1.58E-05	1	1.56E-02	1	4.46E-06	1	4.50E-02	1
Methylene chloride	75-09-2	84.93	6.16E+00	1	2.19E-03	1	1.01E-01	1	1.17E-05	1	1.30E+04	1
Methyl ethyl ketone	78-93-3	72.11	1.23E+00	4	5.60E-05	2	8.08E-02	E	9.80E-06	E	2.20E+05	2
Methyl isobutyl ketone	108-10-1	100.16	6.20E+00	4	1.40E-04	2	7.50E-02	3	7.80E-06	3	1.90E+04	2
Methylnaphthalene,2-	91-57-6	142.2	2.24E+03	3	5.80E-05	3	4.80E-02	3	7.84E-06	3	2.46E+01	2
MTBE (methyl tert-butyl ether)	1634-04-4	83.1	1.12E+01	6	5.87E-04	6	1.02E-01	3	1.05E-05	3	5.10E+04	6
Naphthalene	91-20-3	128.17	1.19E+03	1	4.83E-04	1	5.90E-02	1	7.50E-06	1	3.10E+01	1
Nickel	7440-02-0	58.69	********	********	********	********	********	********	********	********	********	********
Nitrate	14797-55-8	62	********	********	********	********	********	********	********	********	********	********
Nitrite	14797-65-0	46	********	********	********	********	********	********	********	********	********	********
Nitroaniline,2-	88-74-4	138.13	1.70E+01	4	9.72E-05	4	6.60E-02	E	7.40E-06	E	1.26E+03	4
Nitroaniline,3-	99-09-2	138.13	1.82E+01	4	1.47E-07	2	6.60E-02	E	7.40E-06	E	1.20E+03	2
Nitroaniline,4-	100-01-6	138.13	1.20E+01	4	2.10E-09	2	4.73E-02	E	8.58E-06	E	7.30E+02	2
Nitrobenzene	98-95-3	123.11	1.19E+02	1	2.40E-05	1	7.60E-02	1	8.60E-06	1	2.09E+03	1

NOTE: See end of Table for designation of numbers and letter.

LDEQ RECAP
APPENDIX H: TABLE H2
CHEMICAL AND PHYSICAL PARAMETERS

COMPOUND	CAS #	MOL. WT	Koc	REF	H	REF	Da	REF	Dw	REF	S	REF
		g/g-mole	cm3/g		atm-m3/mol		cm2/s		cm2/s		mg/L	
Nitrophenol,4-	100-02-7	139.11	5.50E+01	4	4.20E-10	2	4.30E-02	3	9.60E-06	3	1.20E+04	2
Nitrosodi-n-propylamine,n-	621-64-7	130.19	2.40E+01	1	2.25E-06	1	5.45E-02	1	8.17E-06	1	9.89E+03	1
N-nitrosodiphenylamine	86-30-6	198.22	1.29E+03	1	5.00E-06	1	3.12E-02	1	6.35E-06	1	3.51E+01	1
Pentachlorophenol	87-86-5	266.34	8.91E+02	4	2.44E-08	1	5.60E-02	1	6.10E-06	1	1.95E+03	1
Phenanthrene	85-01-8	178.24	4.80E+03	2	2.33E-05	2	3.24E-02	E	7.74E-06	E	1.15E+00	2
Phenol	108-95-2	94.11	2.88E+01	1	3.97E-07	1	8.20E-02	1	9.10E-06	1	8.28E+04	1
Polychlorinated biphenyls	1336-36-3	290	3.09E+05	1	1.10E-03	2	4.56E-02	E	5.09E-06	E	3.10E-02	2
Pyrene	129-00-0	202.26	6.80E+04	1	1.10E-05	1	2.72E-02	1	7.24E-06	1	1.35E-01	1
Selenium	7782-49-2	78.96	********	********	********	********	********	********	********	********	********	*******
Silver	7440-22-4	107.87	********	********	********	********	********	********	********	********	********	*******
Styrene	100-42-5	104.15	9.12E+02	1	2.75E-03	1	7.10E-02	1	8.00E-06	1	3.10E+02	1
Tetrachlorobenzene,1,2,4,5-	95-94-3	215.89	5.25E+03	5	2.60E-03	2	2.11E-02	3	8.80E-06	3	6.00E-01	2
Tetrachloroethane,1,1,1,2-	630-20-6	167.85	5.40E+01	7	2.40E-03	7	6.00E-02	E	6.70E-06	E	1.10E+03	2
Tetrachloroethane,1,1,2,2-	79-34-5	167.85	7.90E+01	1	3.45E-04	1	7.10E-02	1	7.90E-06	1	2.97E+03	1
Tetrachloroethylene	127-18-4	165.83	2.65E+02	1	1.84E-02	1	7.20E-02	1	8.20E-06	1	2.00E+02	1
Tetrachlorophenol,2,3,4,6-	58-90-2	231.89	2.13E+02	1	4.40E-06	2	2.17E-02	1	7.10E-06	1	1.00E+03	2
Thallium	7440-28-0	204.38	********	********	********	********	********	********	********	********	********	*******
Toluene	108-88-3	92.14	1.40E+02	1	6.64E-03	1	8.70E-02	1	8.60E-06	1	5.26E+02	1
Toxaphene	8001-35-2	413.2	9.58E+04	1	6.00E-06	1	1.16E-02	1	4.34E-06	1	7.40E-01	1
Trichlorobenzene,1,2,4-	120-82-1	181.45	1.66E+03	1	1.42E-03	1	3.00E-02	1	8.23E-06	1	3.00E+02	1
Trichloroethane,1,1,1-	71-55-6	133.4	1.35E+02	1	1.72E-02	1	7.80E-02	1	8.80E-06	1	1.33E+03	1
Trichloroethane,1,1,2-	79-00-5	133.4	7.50E+01	1	9.13E-04	1	7.80E-02	1	8.80E-06	1	4.42E+03	1
Trichloroethene	79-01-6	131.39	9.43E+01	1	1.03E-02	1	7.90E-02	1	9.10E-06	1	1.10E+03	1
Trichlorofluoromethane	75-69-4	137.37	1.59E+02	4	9.70E-02	2	8.70E-02	3	9.70E-06	3	1.10E+03	2
Trichlorophenol,2,4,5-	95-95-4	197.45	7.08E+02	4	4.33E-06	1	2.91E-02	1	7.03E-06	1	1.20E+03	1
Trichlorophenol,2,4,6-	88-06-2	197.45	1.07E+03	4	7.80E-06	1	3.18E-02	1	6.25E-06	1	8.00E+02	1
Vanadium	7440-62-2	50.94	********	********	********	********	********	********	********	********	********	*******
Vinyl chloride	75-01-4	62.5	1.86E+01	1	2.70E-02	1	1.06E-01	1	1.23E-06	1	2.76E+03	1
Xylene(mixed)	1330-20-7	106.17	1.29E+02	4	7.60E-03	1	7.00E-02	1	7.80E-06	1	1.60E+02	1
Zinc	7440-66-6	65.38	********	********	********	********	********	********	********	********	********	*******
Aliphatics C6-C8	NA	100	3.98E+03	10	1.22E+00	10	1.00E-01	10	1.00E-05	10	********	*******
Aliphatics >C8-C10	NA	130	3.16E+04	10	1.95E+00	10	1.00E-01	10	1.00E-05	10	********	*******
Aliphatics >C10-C12	NA	160	2.51E+05	10	2.93E+00	10	1.00E-01	10	1.00E-05	10	********	*******
Aliphatics >C12-C16	NA	200	5.01E+06	10	1.27E+01	10	1.00E-01	10	1.00E-05	10	********	*******

NOTE: See end of Table for designation of numbers and letter.

LDEQ RECAP
APPENDIX H: TABLE H2
CHEMICAL AND PHYSICAL PARAMETERS

COMPOUND	CAS #	MOL. WT	Koc	REF	H	REF	Da	REF	Dw	REF	S	REF
		g/g-mole	cm3/g		atm-m3/mol		cm2/s		cm2/s		mg/L	
Aliphatics >C16-C35	NA	270	6.31E+08	10	1.20E+02	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C8-C10	NA	120	1.58E+03	10	1.17E-02	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C10-C12	NA	130	2.51E+03	10	3.41E-03	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C12-C16	NA	150	5.01E+03	10	1.29E-03	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C16-C21	NA	190	1.58E+04	10	3.17E-04	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C21-C35	NA	240	1.26E+05	10	1.63E-05	10	1.00E-01	10	1.00E-05	10	********	*******

* If data on more than one isomer is available; then used most protective. If data available on only one isomer; then used that data.

1. Soil Screening Guidance, 1996.
2. Superfund Chemical Data Matrix, June 1996.
3. Air Emissions Models for Waste and Wastewater, EPA-453/R-94-080A, 1994.
4. Groundwater Chemicals Desk Reference, Montgomery, J. H., et.al., 1990.
5. Groundwater Chemicals Desk Reference, vol. II, Montgomery, J. H., et.al., 1991.
6. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, vol. IV, 1991.
7. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, vol. II, 1991.
8. Soil Chemistry of Hazardous Materials, 1988.
9. CHEMDAT 8, November, 1994.
10. Total Petroleum Hydrocarbon Criteria Workgroup, 1996.

E - Estimated.

NOTE: See end of Table for designation of numbers and letter.

LDEQ RECAP
APPENDIX H
TABLE H-4
QUANTITATION LIMITS USED IN RECAP

COMPOUND	Soil	GW
	mg/kg	mg/l
Acenaphthene		1.0E-02
Acenaphthylene		
Acetone		1.0E-01
Aldrin		1.9E-03
Aniline		1.0E-02
Anthracene		1.0E-02
Antimony		
Arsenic		
Barium		
Benzene		
Benz(a)anthracene		7.8E-03
Benzo(a)pyrene	3.3E-01	
Benzo(b)fluoranthene		4.8E-03
Benzo(k)fluoranthene		2.5E-03
Beryllium		
Biphenyl,1,1-		1.0E-04
Bis(2-chloroethyl)ether	3.3E-01	5.7E-03
Bis(2-chloroisopropyl)ether	8.0E-01	5.7E-03
Bis(2-ethyl-hexyl)phthalate		
Bromodichloromethane		
Bromoform		
Bromomethane		1.0E-02
Butyl benzyl phthalate		1.0E-02
Cadmium		
Carbon Disulfide		5.0E-03
Carbon Tetrachloride		
Chlordane		
Chloroaniline,p-		2.0E-02
Chlorobenzene		
Chlorodibromomethane		
Chloroethane (Ethylchloride)		1.0E-02
Chloroform		
Chloromethane	1.0E-01	1.0E-02
Chloronaphthalene,2-		1.0E-02
Chlorophenol,2-		1.0E-02
Chromium(III)		
Chromium(VI)		
Chrysene		1.5E-03
Cobalt		
Copper		
Cyanide (free)		
DDD		1.2E-05
DDE		5.0E-05
DDT		3.0E-04
Dibenz(a,h)anthracene	3.3E-01	2.5E-03
Dibenzofuran		1.0E-02
Dibromo-3-chloropropane,1,2-	1.0E-02	
Dichlorobenzene,1,2-		

LDEQ RECAP
APPENDIX H
TABLE H-4
QUANTITATION LIMITS USED IN RECAP

COMPOUND	Soil	GW
	mg/kg	mg/l
Dichlorobenzene,1,3-		1.0E-02
Dichlorobenzene,1,4-		
Dichlorobenzidine,3,3-		2.0E-02
Dichloroethane,1,1-		5.0E-03
Dichloroethane,1,2-		
Dichloroethene,1,1-		
Dichloroethene,cis,1,2-		
Dichloroethene,trans,1,2-		
Dichlorophenol,2,4-		1.0E-02
Dichloropropane,1,2-		
Dichloropropene,1,3-		5.0E-03
Dieldrin		2.5E-03
Diethylphthalate		1.0E-02
Dimethylphenol,2,4-		1.0E-02
Dimethylphthalate		1.0E-02
Di-n-octylphthalate		2.5E-03
Dinitrobenzene,1,3-	2.5E-01	1.0E-02
Dinitrophenol,2,4-	1.7E+00	5.0E-02
Dinitrotoluene,2,6-		1.0E-02
Dinitrotoluene,2,4-		1.0E-02
Dinoseb	1.4E-01	
Endosulfan		1.2E-04
Endrin		
Ethyl benzene		
Fluoranthene		1.0E-02
Fluorene		1.0E-02
Heptachlor		
Heptachlor epoxide		
Hexachlorobenzene	3.3E-01	
Hexachlorobutadiene		6.0E-04
Hexachlorocyclohexane,alpha		3.0E-05
Hexachlorocyclohexane,beta		6.0E-05
Hexachlorocyclohexane,gamma		
Hexachlorocyclopentadiene		
Hexachloroethane		1.0E-02
Indeno(1,2,3-cd)pyrene		3.7E-03
Isobutyl alcohol		
Isophorone		1.0E-02
Lead (inorganic)		
Mercury (inorganic)		
Methoxychlor		
Methylene chloride		
Methyl ethyl ketone		1.0E-01
Methyl isobutyl ketone		5.0E-02
Methylnaphthalene,2-		
MTBE (methyl tert-butyl ether)		
Naphthalene		1.0E-02
Nickel		1.5E-02

LDEQ RECAP
APPENDIX H
TABLE H-4
QUANTITATION LIMITS USED IN RECAP

COMPOUND	Soil	GW
	mg/kg	mg/l
Nitrate		
Nitrite		
Nitroaniline,2-	1.7E+00	5.0E-02
Nitroaniline,3-	1.7E+00	5.0E-02
Nitroaniline,4-	1.7E+00	5.0E-02
Nitrobenzene	3.3E-01	1.9E-03
Nitrophenol,4-		5.0E-02
Nitrosodi-n-propylamine,n-	3.3E-01	1.0E-02
N-nitrosodiphenylamine		1.0E-02
Pentachlorophenol	1.7E+00	
Phenanthrene		
Phenol		1.0E-02
Polychlorinated biphenyls		
Pyrene		1.0E-02
Selenium		
Silver		7.0E-03
Styrene		
Tetrachlorobenzene,1,2,4,5-		
Tetrachloroethane,1,1,1,2-		5.0E-03
Tetrachloroethane,1,1,2,2-		5.0E-04
Tetrachloroethylene		
Tetrachlorophenol,2,3,4,6-		
Thallium		
Toluene		
Toxaphene		
Trichlorobenzene,1,2,4-		
Trichloroethane,1,1,1-		
Trichloroethane,1,1,2-		
Trichloroethene		
Trichlorofluoromethane		
Trichlorophenol,2,4,5-		1.0E-02
Trichlorophenol,2,4,6-		1.0E-02
Vanadium		
Vinyl chloride		
Xylene(mixed)		
Zinc		2.0E-02
Aliphatics C6-C8		1.5E-01
Aliphatics >C8-C10		1.5E-01
Aliphatics >C10-C12		1.5E-01
Aliphatics >C12-C16		1.5E-01
Aliphatics >C16-C35		1.5E-01
Aromatics >C8-C10		1.5E-01
Aromatics >C10-C12		1.5E-01
Aromatics >C12-C16		1.5E-01
Aromatics >C16-C21		1.5E-01
Aromatics >C21-C35		1.5E-01

Soil properties		Management Option 2							
Revision Date: 08/04/2003									
Run date:	6/28/2011								
*****calculation inputs*****									
1.7	g/cm3		pb = dry soil bulk density						
0.358491	Lpore/Lsoil		n = total soil porosity						
0.21	Lwater/Lsoil		nw = water-filled soil porosity						
0.148491	Lair/Lsoil		na = air-filled soil porosity						
2.65	g/cm3		ps = soil particle density						
0.006	g/g		foc = fractional organic carbon in soil						
30	(ft) = L = length of the source at the water table								
30	(ft) = W = width of impacted area perpendicular to flow direction of aquifer								
0.0	Acres		AOI site area - input into Q/C equation below						
143.5317	g/m2-s per kg/m3		Q/C = inverse of mean concentration at center of square source						
Q/C Table									
site size	148*148	209*209	295*295	467*467	660*660	1143*1143			
site size	0.5 acre	1 acre	2 acre	5 acre	10 acre	30 acre			
Q/C value	76.3062	67.4304	59.872	51.4648	46.1707	39.2329			

Sd eqn & Summer's Model DAF	
Revision Date: 08/04/2003	
Run date:	6/28/2011
Sd = hadv + hdisp = thickness of the mixing zone	
3.2	(ft)
hadv = B*[1 - exp((-I*L)/(B*Dv))]	
0.17	(ft) = hadv = advective component of the plume depth
0.33	(ft/ft) = I = infiltration rate
60.00	(ft/yr) = Dv = horizontal Darcy velocity
20.90	(ft) = B = thickness of the shallow water bearing zone
30.00	(ft) = L = length of the source at the water table
hdisp = (2*Az*L)	
3.00	(ft) = hdisp = dispersive component of the plume depth
0.15	(ft) = Az = vertical dispersivity
30.00	(ft) = L = length of the source at the water table
Summer's Model DAF	
DAF = Cl/Cgw = (Qa+Qp)/Qp	
20.0	unitless
Qa = Dv*Sd*W	
5699	(ft3/yr) = Qa = volumetric flow rate of groundwater
60.00	(ft/yr) = Dv = horizontal Darcy velocity
3.17	(ft) = Sd = hadv + hdisp = thickness of the mixing zone
30.00	(ft) = W = width of impacted area perpendicular to flow direction of aquifer
Qp = I*A	
300.00	(ft3/yr) = Qp = volumetric flow rate of infiltration (soil pore water) into the aquifer
0.33	(ft/yr) = I = infiltration rate
900.00	(ft2) = A = area of the source
Max DF Domenico	440
(for use with SoilGW and GW values)	

LDEQ RECAP
WORKSHEET 2
GW 3NDW
(mg/l)

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

C (mg/l) GW3NDW = (TR*BWa) / (SFo*(IRWndw+BCF*IRF))
N (mg/l) GW3NDW = (THQ*RfDo*BWa) / (IRWndw+BCF*IRF)

COMPOUND	LAC 33:IX. 1113(HHNDW) (mg/L)	LAC 33:IX. 1113(HHDW) (mg/L)	MCL (mg/l)	BCF (l/kg)	C (mg/l)	N (mg/l)	LAC(NDW) or max (LAC,MCL, (MIN C, N)) (mg/l)	
Acenaphthene				3.87E+02	NA	5.36E-01	5.4E-01	(*2)N
Acenaphthylene				2.69E+02	NA	7.68E-01	7.7E-01	(*2)N
Acetone				3.87E-01	NA	7.24E+01	7.2E+01	(*2)N
Aldrin	4.00E-08	4.00E-08					4.0E-08	(*1)LAC(NDW)
Aniline				3.27E+00	7.95E-02	3.17E+00	8.0E-02	(*2)C
Anthracene				9.20E+03	NA	1.14E-01	1.1E-01	(*2)N
Antimony			6.00E-03	9.00E-01	NA	2.62E-01	2.6E-01	(*2)N
Arsenic		5.00E-02	1.00E-02	4.00E+00	2.76E-04	1.24E-01	5.0E-02	LAC(DW)
Barium			2.00E+00	1.00E+00	NA	4.50E+01	4.5E+01	(*2)N
Benzene	1.25E-02	1.10E-03	5.00E-03				1.3E-02	(*1)LAC(NDW)
Benz(a)anthracene				1.26E+04	3.80E-07	NA	3.8E-07	(*2)C
Benzo(a)pyrene			2.00E-04	8.29E+04	5.78E-09	NA	2.0E-04	MCL
Benzo(b)fluoranthene				3.03E+04	1.58E-07	NA	1.6E-07	(*2)C
Benzo(k)fluoranthene				3.03E+04	1.58E-06	NA	1.6E-06	(*2)C
Beryllium			4.00E-03	1.90E+01	NA	2.99E-01	3.0E-01	(*2)N
Biphenyl,1,1-				6.46E+02	NA	2.69E-01	2.7E-01	(*2)N
Bis(2-chloroethyl)ether				1.10E+01	2.06E-04	NA	2.1E-04	(*2)C
Bis(2-chloroisopropyl)ether				5.57E+01	8.31E-04	2.33E+00	8.3E-04	(*2)C
Bis(2-ethyl-hexyl)phthalate			6.00E-03	2.15E+04	1.16E-05	3.26E-03	6.0E-03	MCL
Bromodichloromethane	3.30E-03	2.00E-04	1.00E-01				3.3E-03	(*1)LAC(NDW)
Bromoform	3.47E-02	3.90E-03	1.00E-01				3.5E-02	(*1)LAC(NDW)
Bromomethane				4.81E+00	NA	5.29E-01	5.3E-01	(*2)N
Butyl benzyl phthalate				6.63E+02	NA	1.05E+00	1.0E+00	(*2)N
Cadmium		1.00E-02	5.00E-03	3.77E+03	NA	4.64E-04	1.0E-02	LAC(DW)
Carbon Disulfide				1.95E+01	NA	1.46E+01	1.5E+01	(*2)N
Carbon Tetrachloride	1.20E-03	2.20E-04	5.00E-03				1.2E-03	(*1)LAC(NDW)
Chlordane	1.90E-07	1.90E-07	2.00E-03				1.9E-07	(*1)LAC(NDW)
Chloroaniline,p-				1.64E+01	NA	6.71E-01	6.7E-01	(*2)N

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

Chlorobenzene			1.00E-01	9.42E+01	NA	7.10E-01	7.1E-01	(*2)N
Chlorodibromomethane	5.08E-03	3.90E-04	1.00E-01				5.1E-03	(*1)LAC(NDW)
Chloroethane (Ethylchloride)				6.82E+00	NA	1.24E+02	1.2E+02	(*2)N
Chloroform	7.00E-02	5.30E-03	1.00E-01				7.0E-02	(*1)LAC(NDW)
Chloromethane				2.89E+00	3.67E-02	NA	3.7E-02	(*2)C
Chloronaphthalene,2-				7.69E+02	NA	3.62E-01	3.6E-01	(*2)N
Chlorophenol,2-	1.26E-01	1.00E-04					1.3E-01	(*1)LAC(NDW)
Chromium(III)		5.00E-02	1.00E-01	1.00E+00	NA	9.63E+02	9.6E+02	(*2)N
Chromium(VI)		5.00E-02	1.00E-01	1.00E+00	NA	1.93E+00	1.9E+00	(*2)N
Chrysene				1.26E+04	3.80E-05	NA	3.8E-05	(*2)C
Cobalt				1.00E+00	NA	3.85E+01	3.9E+01	(*2)N
Copper		1.00E+00	1.30E+00	2.26E+04	NA	6.19E-03	1.3E+00	MCL
Cyanide (free)	1.28E+01	6.64E-01	2.00E-01				1.3E+01	(*1)LAC(NDW)
DDD	2.70E-07	2.70E-07					2.7E-07	(*1)LAC(NDW)
DDE	1.90E-07	1.90E-07					1.9E-07	(*1)LAC(NDW)
DDT	1.90E-07	1.90E-07					1.9E-07	(*1)LAC(NDW)
Dibenz(a,h)anthracene				7.28E+04	6.59E-09	NA	6.6E-09	(*2)C
Dibenzofuran				9.16E+02	NA	1.52E-02	1.5E-02	(*2)N
Dibromo-3-chloropropane,1,2-			2.00E-04	3.30E+01	6.68E-05	5.34E-03	2.0E-04	MCL
Dichlorobenzene,1,2-			6.00E-01	8.90E+01	NA	3.37E+00	3.4E+00	(*2)N
Dichlorobenzene,1,3-				6.60E+01	NA	4.47E-02	4.5E-02	(*2)N
Dichlorobenzene,1,4-			7.50E-02	6.00E+01	2.26E-03	1.63E+00	7.5E-02	MCL
Dichlorobenzidine,3,3-				5.07E+02	1.52E-05	NA	1.5E-05	(*2)C
Dichloroethane,1,1-				1.37E+01	NA	1.93E+01	1.9E+01	(*2)N
Dichloroethane,1,2-	6.80E-03	3.60E-04	5.00E-03				6.8E-03	(*1)LAC(NDW)
Dichloroethene,1,1-	5.80E-04	5.00E-05	7.00E-03				5.8E-04	(*1)LAC(NDW)
Dichloroethene,cis,1,2-			7.00E-02	1.64E+01	NA	1.68E+00	1.7E+00	(*2)N
Dichloroethene,trans,1,2-			1.00E-01	2.32E+01	NA	2.53E+00	2.5E+00	(*2)N
Dichlorophenol,2,4-	2.33E-01	3.00E-04					2.3E-01	(*1)LAC(NDW)
Dichloropropane,1,2-			5.00E-03	1.95E+01	2.15E-03	1.67E-01	5.0E-03	MCL
Dichloropropene,1,3-	1.63E-01	9.86E-03					1.6E-01	(*1)LAC(NDW)
Dieldrin	5.00E-08	5.00E-08					5.0E-08	(*1)LAC(NDW)
Diethylphthalate				1.17E+02	NA	2.31E+01	2.3E+01	(*2)N
Dimethylphenol,2,4-				1.50E+02	NA	4.53E-01	4.5E-01	(*2)N

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

Dimethylphthalate				5.70E+01	NA	5.70E+02	5.7E+02	(*2)N
Di-n-octylphthalate				1.13E+02	NA	1.19E+00	1.2E+00	(*2)N
Dinitrobenzene,1,3-				8.13E+00	NA	2.78E-02	2.8E-02	(*2)N
Dinitrophenol,2,4-				9.68E+00	NA	4.95E-01	5.0E-01	(*2)N
Dinitrotoluene,2,6-				1.64E+01	NA	1.68E-01	1.7E-01	(*2)N
Dinitrotoluene,2,4-				1.95E+01	NA	2.92E-01	2.9E-01	(*2)N
Dinoseb			7.00E-03	1.34E+02	NA	2.53E-02	2.5E-02	(*2)N
Endosulfan	6.40E-04	4.70E-04					6.4E-04	(*1)LAC(NDW)
Endrin	2.60E-04	2.60E-04	2.00E-03				2.6E-04	(*1)LAC(NDW)
Ethyl benzene	8.10E+00	2.39E+00	7.00E-01				8.1E+00	(*1)LAC(NDW)
Fluoranthene				4.43E+03	NA	3.16E-02	3.2E-02	(*2)N
Fluorene				1.80E+03	NA	7.76E-02	7.8E-02	(*2)N
Heptachlor	7.00E-08	7.00E-08	4.00E-04				7.0E-08	(*1)LAC(NDW)
Heptachlor epoxide			2.00E-04	2.33E+00	5.67E-05	6.71E-03	2.0E-04	MCL
Hexachlorobenzene	2.50E-07	2.50E-07	1.00E-03				2.5E-07	(*1)LAC(NDW)
Hexachlorobutadiene	1.10E-04	9.00E-05					1.1E-04	(*1)LAC(NDW)
Hexachlorocyclohexane,alpha				2.12E+02	2.57E-06	NA	2.6E-06	(*2)C
Hexachlorocyclohexane,beta				2.93E+02	6.54E-06	NA	6.5E-06	(*2)C
Hexachlorocyclohexane,gamma	2.00E-04	1.10E-04	2.00E-04				2.0E-04	(*1)LAC(NDW)
Hexachlorocyclopentadiene			5.00E-02	7.48E+03	NA	2.81E-03	5.0E-02	MCL
Hexachloroethane				1.39E+02	1.74E-03	2.44E-02	1.7E-03	(*2)C
Indeno(1,2,3-cd)pyrene				7.28E+04	6.59E-08	NA	6.6E-08	(*2)C
Isobutyl alcohol				2.19E+00	NA	1.58E+02	1.6E+02	(*2)N
Isophorone				7.00E+00	3.22E-01	6.11E+01	3.2E-01	(*2)C
Lead (inorganic)		5.00E-02	1.50E-02		NA	NA	5.0E-02	LAC(DW)
Mercury (inorganic)		2.00E-03	2.00E-03	8.57E+04	NA	1.23E-05	2.0E-03	LAC(DW)
Methoxychlor			4.00E-02	7.07E+04	NA	2.48E-04	4.0E-02	MCL
Methylene chloride	8.70E-02	4.40E-03	5.00E-03				8.7E-02	(*1)LAC(NDW)
Methyl ethyl ketone				9.61E-01	NA	3.88E+02	3.9E+02	(*2)N
Methyl isobutyl ketone				4.81E+00	NA	3.02E+01	3.0E+01	(*2)N
Methylnaphthalene,2-				2.60E+03	NA	2.69E-02	2.7E-02	(*2)N
MTBE (methyl tert-butyl ether)			2.00E-02	1.00E+00	NA	5.50E+02	5.5E+02	(*2)N
Naphthalene				3.10E+02	NA	2.23E-01	2.2E-01	(*2)N
Nickel				8.00E-01	NA	1.33E+01	1.3E+01	(*2)N

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

Nitrate			1.00E+01	1.00E+00	NA	1.03E+03	1.0E+03	(*2)N
Nitrite			1.00E+00	1.00E+00	NA	6.42E+01	6.4E+01	(*2)N
Nitroaniline,2-				1.64E+01	NA	5.04E-01	5.0E-01	(*2)N
Nitroaniline,3-				6.82E+00	NA	9.32E-01	9.3E-01	(*2)N
Nitroaniline,4-				6.82E+00	NA	9.32E-01	9.3E-01	(*2)N
Nitrobenzene				1.37E+01	NA	9.64E-02	9.6E-02	(*2)N
Nitrophenol,4-				1.64E+01	NA	1.34E+00	1.3E+00	(*2)N
Nitrosodi-n-propylamine,n-				6.82E+00	4.44E-05	NA	4.4E-05	(*2)C
N-nitrosodiphenylamine				2.17E+02	3.23E-03	NA	3.2E-03	(*2)C
Pentachlorophenol			1.00E-03	6.40E+02	4.53E-05	1.63E-01	1.0E-03	MCL
Phenanthrene				5.10E+03	NA	2.06E-01	2.1E-01	(*2)N
Phenol				8.13E+00	NA	8.35E+01	8.3E+01	(*2)N
Polychlorinated biphenyls	1.00E-08	1.00E-08	5.00E-04				1.0E-08	(*1)LAC(NDW)
Pyrene				6.90E+01	NA	1.43E+00	1.4E+00	(*2)N
Selenium			5.00E-02	5.69E+03	NA	3.07E-03	5.0E-02	MCL
Silver				2.80E+01	NA	5.39E-01	5.4E-01	(*2)N
Styrene			1.00E-01	9.42E+01	NA	7.10E+00	7.1E+00	(*2)N
Tetrachlorobenzene,1,2,4,5-				1.85E+03	NA	5.66E-04	5.7E-04	(*2)N
Tetrachloroethane,1,1,1,2-				5.57E+01	2.24E-03	1.75E+00	2.2E-03	(*2)C
Tetrachloroethane,1,1,2,2-	1.80E-03	1.60E-04					1.8E-03	(*1)LAC(NDW)
Tetrachloroethylene	2.50E-03	6.50E-04	5.00E-03				2.5E-03	(*1)LAC(NDW)
Tetrachlorophenol,2,3,4,6-				5.88E+02	NA	1.77E-01	1.8E-01	(*2)N
Thallium			2.00E-03	1.30E+02	NA	1.82E-03	2.0E-03	MCL
Toluene	4.62E+01	6.10E+00	1.00E+00				4.6E+01	(*1)LAC(NDW)
Toxaphene	2.40E-07	2.40E-07	3.00E-03				2.4E-07	(*1)LAC(NDW)
Trichlorobenzene,1,2,4-			7.00E-02	1.82E+02	NA	1.88E-01	1.9E-01	(*2)N
Trichloroethane,1,1,1-		2.00E-01	2.00E-01	9.00E+00	NA	9.11E+00	9.1E+00	(*2)N
Trichloroethane,1,1,2-	6.90E-03	5.60E-04	5.00E-03				6.9E-03	(*1)LAC(NDW)
Trichloroethene	2.10E-02	2.80E-03	5.00E-03				2.1E-02	(*1)LAC(NDW)
Trichlorofluoromethane				4.68E+01	NA	2.05E+01	2.0E+01	(*2)N
Trichlorophenol,2,4,5-				5.42E+02	NA	6.40E-01	6.4E-01	(*2)N
Trichlorophenol,2,4,6-				3.82E+02	8.23E-04	NA	8.2E-04	(*2)C
Vanadium				1.00E+00	NA	4.50E+00	4.5E+00	(*2)N
Vinyl chloride	3.58E-02	1.90E-03	2.00E-03				3.6E-02	(*1)LAC(NDW)

LDEQ RECAP
WORKSHEET 2
GW 3NDW
(mg/l)

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

Xylene(mixed)			1.00E+01	1.59E+02	NA	4.28E+00	1.0E+01	MCL
Zinc		5.00E+00		1.26E+02	NA	8.05E+00	8.0E+00	(*2)N
Aliphatics C6-C8				0.00E+00	NA	3.93E+03	3.9E+03	(*2)N
Aliphatics >C8-C10				0.00E+00	NA	7.87E+01	7.9E+01	(*2)N
Aliphatics >C10-C12				0.00E+00	NA	7.87E+01	7.9E+01	(*2)N
Aliphatics >C12-C16				0.00E+00	NA	7.87E+01	7.9E+01	(*2)N
Aliphatics >C16-C35				0.00E+00	NA	1.57E+03	1.6E+03	(*2)N
Aromatics >C8-C10				0.00E+00	NA	3.15E+01	3.1E+01	(*2)N
Aromatics >C10-C12				0.00E+00	NA	3.15E+01	3.1E+01	(*2)N
Aromatics >C12-C16				0.00E+00	NA	3.15E+01	3.1E+01	(*2)N
Aromatics >C16-C21				0.00E+00	NA	2.36E+01	2.4E+01	(*2)N
Aromatics >C21-C35				0.00E+00	NA	2.36E+01	2.4E+01	(*2)N
TPH-GRO (C6-C10)							3.1E+01	
TPH-DRO (C10-C28)							2.4E+01	
TPH-ORO (>C28)							2.4E+01	

References: Data hierarchy is based on (*1) then (*2).

(*1) Louisiana Administrative Code 33.IX.1113, Table 1 (HHNDW)

(*2) The maximum value of LAC 33.IX1113 (DW), MCL, or the minimum of human health non-drinking water criteria calculated in accordance with "Human Health Numerical Criteria Derivations for Toxic Substances", LDEQ-OWR, June 23, 1994; (N=non-carcinogen, C=carcinogen)

Notes:

* BCF values from the Superfund Chemical Data Matrix, June 1996

* BCF values not found in the Superfund Chemical Data Matrix are estimated below

*MTBE - The value listed in the MCL column is the EPA taste/odor advisory value.

LDEQ RECAP
WORKSHEET 2
GW 3NDW
(mg/l)

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

Estimation of BCF from Kow:
log BCF = 0.76 log Kow - 0.23
(from the Handbook of Chemical Property Estimation Methods, Lyman, Reehl, and Rosenblatt, American Chemical Society, Washington, DC, 1990)

					log Kow	log BCF	BCF	
Acenaphthylene					3.5	2.43	2.69E+02	
Acetone					-2.4E-01	-0.4124	3.87E-01	
Aniline					9.8E-01	0.5148	3.27E+00	
Barium (ionic)							1.00E+00	(1)
Benz(a)anthracene					5.7E+00	4.102	1.26E+04	
Benzo(b)fluoranthene					6.2E+00	4.482	3.03E+04	
Benzo(k)fluoranthene					6.2E+00	4.482	3.03E+04	
Biphenyl, 1,1-					4.0E+00	2.81	6.46E+02	
Bis(2-chloroisopropyl)ether					2.6E+00	1.746	5.57E+01	
Bromomethane					1.2E+00	0.682	4.81E+00	
Carbon disulfide					2.0E+00	1.29	1.95E+01	
Chloroaniline, p-					1.9E+00	1.214	1.64E+01	
Chlorobenzene					2.9E+00	1.974	9.42E+01	
Chloroethane (ethylchloride)					1.4E+00	0.834	6.82E+00	
Chloromethane(Methyl chloride)					9.1E-01	0.4616	2.89E+00	
Chloronaphthalene, 2-					4.1E+00	2.886	7.69E+02	
Chromium (III)							1.00E+00	(1)
Chromium (VI)							1.00E+00	(1)
Chrysene					5.7E+00	4.102	1.26E+04	
Cobalt							1.00E+00	(1)
Dibenz(a,h)anthracene					6.7E+00	4.862	7.28E+04	
Dibenzofuran					4.2E+00	2.962	9.16E+02	
Dibromo-3-chloropropane,1,2-					2.3E+00	1.518	3.30E+01	
Dichloroethane, 1,1-					1.8E+00	1.138	1.37E+01	
Dichloroethene, cis, 1,2-					1.9E+00	1.214	1.64E+01	
Dichloroethene, trans, 1,2-					2.1E+00	1.366	2.32E+01	

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

Dichloropropane, 1,2-					2.0E+00	1.29	1.95E+01	
Dinitrobenzene, 1,3-					1.5E+00	0.91	8.13E+00	
Dinitrophenol, 2,4-					1.6E+00	0.986	9.68E+00	
Dinitrotoluene, 2,6-					1.9E+00	1.214	1.64E+01	
Dinitrotoluene, 2,4-					2.0E+00	1.29	1.95E+01	
Dinoseb					3.1E+00	2.126	1.34E+02	
Fluroanthene					5.1E+00	3.646	4.43E+03	
Hexachlorocyclopentadiene					5.4E+00	3.874	7.48E+03	
Indeno(1,2,3-cd)pyrene					6.7E+00	4.862	7.28E+04	
Isobutyl alcohol					7.5E-01	0.34	2.19E+00	
Methyl ethyl ketone					2.8E-01	-0.0172	9.61E-01	
Methyl isobutyl ketone					1.2E+00	0.682	4.81E+00	
MTBE							1.00E+00	(1)
Nitrate							1.00E+00	(1)
Nitrite							1.00E+00	(1)
Nitroaniline, 2-					1.9E+00	1.214	1.64E+01	
Nitroaniline, 3-					1.4E+00	0.834	6.82E+00	
Nitroaniline, 4-					1.4E+00	0.834	6.82E+00	
Nitrobenzene					1.8E+00	1.138	1.37E+01	
Nitrophenol, 4-					1.9E+00	1.214	1.64E+01	
Nitrosodi-n-propylamine, n-					1.4E+00	0.834	6.82E+00	
Phenol					1.5E+00	0.91	8.13E+00	
Styrene					2.9E+00	1.974	9.42E+01	
Tetrachlorobenzene,1,2,4,5-					4.6E+00	3.266	1.85E+03	
Tetrachloroethane,1,1,1,2-					2.6E+00	1.746	5.57E+01	
Trichlorofluoromethane					2.5E+00	1.67	4.68E+01	
Trichlorophenol, 2,4,5-					3.9E+00	2.734	5.42E+02	
Trichlorophenol, 2,4,6-					3.7E+00	2.582	3.82E+02	
Vanadium							1.00E+00	(1)
Xylene (mixed)					3.2E+00	2.202	1.59E+02	
Aliphatics C6-C8							0.00E+00	(2)
Aliphatics >C8-C10							0.00E+00	(2)
Aliphatics >C10-C12							0.00E+00	(2)
Aliphatics >C12-C16							0.00E+00	(2)

LDEQ RECAP
WORKSHEET 2
GW 3NDW
(mg/l)

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

Aliphatics >C16-C35							0.00E+00	(2)
Aromatics >C8-C10							0.00E+00	(2)
Aromatics >C10-C12							0.00E+00	(2)
Aromatics >C12-C16							0.00E+00	(2)
Aromatics >C16-C21							0.00E+00	(2)
Aromatics >C21-C35							0.00E+00	(2)

Notes:
log Kow values from the Superfund Data Matrix, June 1996
(1) Data on this chemical could not be found. Therefore, assume BCF = 1
Xylene (mixed) Kow is the highest value of m,o,p xylene Kow values.
(2) Research has shown that this chemical does not bioconcentrate.

Estimation of Kow from Koc:
log Koc = 0.0784 + (0.7919 * log Kow)
(p 141 Soil Screening Guidance: Technical Background Document, May 1996)

LDEQ RECAP
WORKSHEET 4
SOILni
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Nonindustrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFnic = (Q\C*1e-4*(3.14*DA*Tnic)^0.5)/(2*pb*DA)
VFnia = (Q\C*1e-4*(3.14*DA*Tnia)^0.5)/(2*pb*DA)

Soilni-C-O = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFi*(IRAadj/VFnia)+SFo*1e-6*ABS*IRDadj))
Soilni-C-I = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFo*1e-6*ABS*IRDadj))
Soilni-N-O = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(IRAc/RfDi)*(1/VFnic)+(SAc/RfDo)*AFc*ABS*1e-6))
Soilni-N-I = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(SAc/RfDo)*AFc*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFnic (m3/kg)	VFnia (m3/kg)	Soilni C-O (mg/kg)	Soilni C-I (mg/kg)	Soilni N-O (mg/kg)	Soilni N-I (mg/kg)	min value (C or N)	Soilni (mg/kg)	
Acenaphthene	7.85E-08	3.67E+05		NA		4.13E+03		4.1E+03	4.1E+03	N
Acenaphthylene	1.50E-07	2.66E+05		NA		3.95E+03		3.9E+03	3.9E+03	N
Acetone	1.46E-05	2.70E+04		NA		2.74E+03		2.7E+03	2.7E+03	N
Aldrin	2.92E-09	1.91E+06	4.27E+06	2.81E-02		1.80E+00		2.8E-02	2.8E-02	C
Aniline	9.09E-07	1.08E+05	2.42E+05	6.55E+01		4.34E+01		4.3E+01	4.3E+01	N
Anthracene	6.24E-09	1.30E+06		NA		2.26E+04		2.3E+04	2.3E+04	N
Antimony	NA	NA			NA		3.13E+01	3.1E+01	3.1E+01	N
Arsenic	NA	NA			3.90E-01		2.16E+01	3.9E-01	3.9E-01	C
Barium	NA	NA			NA		5.48E+03	5.5E+03	5.5E+03	N
Benzene	3.10E-04	5.85E+03	1.31E+04	2.64E+00		6.29E+01		2.6E+00	2.6E+00	C
Benz(a)anthracene	1.31E-10	8.98E+06	2.01E+07	6.21E-01		NA		6.2E-01	6.2E-01	C
Benzo(a)pyrene	4.17E-11	1.59E+07	3.57E+07	6.21E-02		NA		6.2E-02	3.3E-01	Q
Benzo(b)fluoranthene	1.30E-10	9.04E+06	2.03E+07	6.21E-01		NA		6.2E-01	6.2E-01	C
Benzo(k)fluoranthene	1.98E-11	2.31E+07	5.18E+07	6.22E+00		NA		6.2E+00	6.2E+00	C
Beryllium					NA		1.56E+02	1.6E+02	1.6E+02	N
Biphenyl,1,1-	1.34E-07	2.81E+05		NA		3.32E+03		3.3E+03	3.3E+03	N
Bis(2-chloroethyl)ether	1.03E-06	1.02E+05	2.27E+05	4.02E-01		NA		4.0E-01	4.0E-01	C
Bis(2-chloroisopropyl)ether	4.76E-06	4.72E+04	1.06E+05	6.28E+00		1.52E+03		6.3E+00	6.3E+00	C
Bis(2-ethyl-hexyl)phthalate	1.41E-10	8.65E+06	1.94E+07	3.46E+01		1.22E+03		3.5E+01	3.5E+01	C
Bromodichloromethane	3.44E-05	1.76E+04	3.93E+04	2.99E+00		4.07E+02		3.0E+00	3.0E+00	C
Bromoform	3.24E-06	5.72E+04	1.28E+05	5.93E+01		8.35E+02		5.9E+01	5.9E+01	C
Bromomethane	7.37E-04	3.79E+03		NA		7.87E+00		7.9E+00	7.9E+00	N

LDEQ RECAP
WORKSHEET 4
SOILni
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Nonindustrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFnic = (Q\C*1e-4*(3.14*DA*Tnic)^0.5)/(2*pb*DA)
VFnia = (Q\C*1e-4*(3.14*DA*Tnia)^0.5)/(2*pb*DA)

Soilni-C-O = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFi*(IRAadj/VFnia)+SFo*1e-6*ABS*IRDadj))
Soilni-C-I = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFo*1e-6*ABS*IRDadj))
Soilni-N-O = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(IRAc/RfDi)*(1/VFnic)+(SAc/RfDo)*AFc*ABS*1e-6))
Soilni-N-I = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(SAc/RfDo)*AFc*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFnic (m3/kg)	VFnia (m3/kg)	Soilni C-O (mg/kg)	Soilni C-I (mg/kg)	Soilni N-O (mg/kg)	Soilni N-I (mg/kg)	min value (C or N)	Soilni (mg/kg)	
Butyl benzyl phthalate	1.56E-09	2.60E+06		NA		1.20E+04		1.2E+04	1.2E+04	N
Cadmium	NA	NA			NA		3.90E+01	3.9E+01	3.9E+01	N
Carbon Disulfide	2.03E-03	2.29E+03		NA		6.56E+02		6.6E+02	6.6E+02	N
Carbon Tetrachloride	6.74E-04	3.96E+03	8.88E+03	9.14E-01		3.33E+00		9.1E-01	9.1E-01	C
Chlordane	9.64E-10	3.32E+06	7.43E+06	1.61E+00		3.40E+01		1.6E+00	1.6E+00	C
Chloroaniline,p-	4.99E-07	1.46E+05		NA		1.93E+02		1.9E+02	1.9E+02	N
Chlorobenzene	5.95E-05	1.33E+04		NA		2.89E+02		2.9E+02	2.9E+02	N
Chlorodibromomethane	1.04E-05	3.19E+04	7.15E+04	3.24E+00		6.09E+02		3.2E+00	3.2E+00	C
Chloroethane (Ethylchloride)	4.45E-03	1.54E+03	3.46E+03	7.64E+00		5.66E+03		7.6E+00	7.6E+00	C
Chloroform	2.76E-04	6.20E+03	1.39E+04	1.13E+00		8.33E-01		8.3E-01	8.3E-01	N
Chloromethane	1.18E-03	3.00E+03	6.71E+03	6.18E+00		3.80E+02		6.2E+00	6.2E+00	C
Chloronaphthalene,2-	7.27E-08	3.82E+05		NA		5.53E+03		5.5E+03	5.5E+03	N
Chlorophenol,2-	2.87E-06	6.07E+04		NA		2.15E+02		2.1E+02	2.1E+02	N
Chromium(III)	NA	NA			NA		1.17E+05	1.2E+05	1.2E+05	N
Chromium(VI)	NA	NA			NA		2.35E+02	2.3E+02	2.3E+02	N
Chrysene	3.85E-10	5.24E+06	1.17E+07	6.20E+01		NA		6.2E+01	6.2E+01	C
Cobalt	NA	NA			NA		4.69E+03	4.7E+03	4.7E+03	N
Copper	NA	NA			NA		3.13E+03	3.1E+03	3.1E+03	N
Cyanide (free)	NA	NA			NA		1.52E+03	1.5E+03	1.5E+03	N
DDD	5.16E-10	4.53E+06	1.01E+07	2.42E+00		NA		2.4E+00	2.4E+00	C
DDE	4.75E-10	4.72E+06	1.06E+07	1.71E+00		NA		1.7E+00	1.7E+00	C

LDEQ RECAP
WORKSHEET 4
SOILni
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Nonindustrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFnic = (Q\C*1e-4*(3.14*DA*Tnic)^0.5)/(2*pb*DA)
VFnia = (Q\C*1e-4*(3.14*DA*Tnia)^0.5)/(2*pb*DA)

Soilni-C-O = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFi*(IRAadj/VFnia)+SFo*1e-6*ABS*IRDadj))
Soilni-C-I = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFo*1e-6*ABS*IRDadj))
Soilni-N-O = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(IRAc/RfDi)*(1/VFnic)+(SAc/RfDo)*AFc*ABS*1e-6))
Soilni-N-I = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(SAc/RfDo)*AFc*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFnic (m3/kg)	VFnia (m3/kg)	Soilni C-O (mg/kg)	Soilni C-I (mg/kg)	Soilni N-O (mg/kg)	Soilni N-I (mg/kg)	min value (C or N)	Soilni (mg/kg)	
DDT	3.95E-11	1.64E+07	3.67E+07	1.72E+00		3.60E+01		1.7E+00	1.7E+00	C
Dibenz(a,h)anthracene	1.22E-11	2.95E+07	6.61E+07	6.22E-02		NA		6.2E-02	3.3E-01	Q
Dibenzofuran	5.40E-09	1.40E+06		NA		3.02E+02		3.0E+02	3.0E+02	N
Dibromo-3-chloropropane,1,2-	1.86E-06	7.55E+04	1.69E+05	3.47E-01		2.30E+00		3.5E-01	3.5E-01	C
Dichlorobenzene,1,2-	1.78E-05	2.44E+04		NA		1.66E+03		1.7E+03	1.7E+03	N
Dichlorobenzene,1,3-	6.69E-06	3.98E+04		NA		3.12E+01		3.1E+01	3.1E+01	N
Dichlorobenzene,1,4-	1.43E-05	2.72E+04	6.10E+04	1.03E+01		1.89E+03		1.0E+01	1.0E+01	C
Dichlorobenzidine,3,3-	3.80E-08	5.28E+05	1.18E+06	1.02E+00		NA		1.0E+00	1.0E+00	C
Dichloroethane,1,1-	2.93E-04	6.01E+03		NA		1.15E+03		1.1E+03	1.1E+03	N
Dichloroethane,1,2-	9.40E-05	1.06E+04	2.38E+04	1.39E+00		4.00E+01		1.4E+00	1.4E+00	C
Dichloroethene,1,1-	1.26E-03	2.90E+03	6.50E+03	NA		2.43E+02		2.4E+02	2.4E+02	N
Dichloroethene,cis,1,2-	2.79E-04	6.16E+03		NA		8.58E+01		8.6E+01	8.6E+01	N
Dichloroethene,trans,1,2-	5.61E-04	4.35E+03		NA		1.25E+02		1.3E+02	1.3E+02	N
Dichlorophenol,2,4-	4.80E-08	4.70E+05		NA		1.69E+02		1.7E+02	1.7E+02	N
Dichloropropane,1,2-	1.72E-04	7.85E+03	1.76E+04	1.45E+00		1.21E+01		1.5E+00	1.5E+00	C
Dichloropropene,1,3-	8.98E-05	1.09E+04	2.43E+04	4.12E+00		9.31E+01		4.1E+00	4.1E+00	C
Dieldrin	1.18E-09	3.00E+06	6.71E+06	3.01E-02		3.02E+00		3.0E-02	3.0E-02	C
Diethylphthalate	2.65E-07	2.00E+05		NA		4.09E+04		4.1E+04	4.1E+04	N
Dimethylphenol,2,4-	1.87E-07	2.38E+05		NA		1.05E+03		1.1E+03	1.1E+03	N
Dimethylphthalate	4.24E-07	1.58E+05		NA		4.90E+05		4.9E+05	4.9E+05	N
Di-n-octylphthalate	8.38E-13	1.12E+08		NA		2.44E+03		2.4E+03	2.4E+03	N

LDEQ RECAP
WORKSHEET 4
SOILni
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Nonindustrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFnic = (Q\C*1e-4*(3.14*DA*Tnic)^0.5)/(2*pb*DA)
VFnia = (Q\C*1e-4*(3.14*DA*Tnia)^0.5)/(2*pb*DA)

Soilni-C-O = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFi*(IRAadj/VFnia)+SFo*1e-6*ABS*IRDadj))
Soilni-C-I = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFo*1e-6*ABS*IRDadj))
Soilni-N-O = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(IRAc/RfDi)*(1/VFnic)+(SAc/RfDo)*AFc*ABS*1e-6))
Soilni-N-I = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(SAc/RfDo)*AFc*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFnic (m3/kg)	VFnia (m3/kg)	Soilni C-O (mg/kg)	Soilni C-I (mg/kg)	Soilni N-O (mg/kg)	Soilni N-I (mg/kg)	min value (C or N)	Soilni (mg/kg)	
Dinitrobenzene,1,3-	2.55E-07	2.04E+05		NA		5.13E+00		5.1E+00	5.1E+00	N
Dinitrophenol,2,4-	1.01E-06	1.03E+05		NA		8.85E+01		8.8E+01	8.8E+01	N
Dinitrotoluene,2,6-	3.54E-07	1.73E+05		NA		4.98E+01		5.0E+01	5.0E+01	N
Dinitrotoluene,2,4-	2.64E-07	2.00E+05		NA		1.02E+02		1.0E+02	1.0E+02	N
Dinoseb	1.71E-07	2.49E+05		NA		5.28E+01		5.3E+01	5.3E+01	N
Endosulfan	1.27E-08	9.15E+05		NA		3.52E+02		3.5E+02	3.5E+02	N
Endrin	2.31E-09	2.14E+06		NA		1.80E+01		1.8E+01	1.8E+01	N
Ethyl benzene	1.40E-04	8.70E+03		NA		2.60E+03		2.6E+03	2.6E+03	N
Fluoranthene	1.08E-09	3.13E+06		NA		2.27E+03		2.3E+03	2.3E+03	N
Fluorene	2.05E-08	7.19E+05		NA		2.93E+03		2.9E+03	2.9E+03	N
Heptachlor	8.62E-05	1.11E+04	2.48E+04	2.71E-02		6.76E+00		2.7E-02	2.7E-02	C
Heptachlor epoxide	2.95E-10	5.99E+06	1.34E+07	5.32E-02		7.89E-01		5.3E-02	5.3E-02	C
Hexachlorobenzene	4.88E-08	4.66E+05	1.04E+06	3.66E-01		5.65E+01		3.7E-01	3.7E-01	C
Hexachlorobutadiene	4.62E-07	1.51E+05	3.39E+05	5.14E+00		9.72E+00		5.1E+00	5.1E+00	C
Hexachlorocyclohexane,alpha	2.19E-08	6.96E+05	1.56E+06	8.55E-02		NA		8.6E-02	8.6E-02	C
Hexachlorocyclohexane,beta	1.45E-08	8.54E+05	1.91E+06	3.02E-01		NA		3.0E-01	3.0E-01	C
Hexachlorocyclohexane,gamma	3.04E-08	5.91E+05	1.32E+06	4.11E-01		1.96E+01		4.1E-01	4.1E-01	C
Hexachlorocyclopentadiene	1.18E-07	3.00E+05		NA		2.53E+01		2.5E+01	2.5E+01	N
Hexachloroethane	3.08E-07	1.85E+05	4.15E+05	3.71E+01		6.16E+01		3.7E+01	3.7E+01	C
Indeno(1,2,3-cd)pyrene	7.32E-12	3.80E+07	8.52E+07	6.22E-01		NA		6.2E-01	6.2E-01	C
Isobutyl alcohol	4.41E-06	4.90E+04		NA		1.02E+04		1.0E+04	1.0E+04	N

LDEQ RECAP
WORKSHEET 4
SOILni
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Nonindustrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFnic = (Q\C*1e-4*(3.14*DA*Tnic)^0.5)/(2*pb*DA)
VFnia = (Q\C*1e-4*(3.14*DA*Tnia)^0.5)/(2*pb*DA)

Soilni-C-O = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFi*(IRAadj/VFnia)+SFo*1e-6*ABS*IRDadj))
Soilni-C-I = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFo*1e-6*ABS*IRDadj))
Soilni-N-O = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(IRAc/RfDi)*(1/VFnic)+(SAc/RfDo)*AFc*ABS*1e-6))
Soilni-N-I = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(SAc/RfDo)*AFc*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFnic (m3/kg)	VFnia (m3/kg)	Soilni C-O (mg/kg)	Soilni C-I (mg/kg)	Soilni N-O (mg/kg)	Soilni N-I (mg/kg)	min value (C or N)	Soilni (mg/kg)	
Isophorone	7.54E-07	1.19E+05	2.66E+05	4.01E+02		9.19E+03		4.0E+02	4.0E+02	C
Lead (inorganic)	NA	NA		NA	NA	NA	NA	NA	NA	
Mercury (inorganic)	NA	NA			NA		2.35E+01	2.3E+01	2.3E+01	N
Methoxychlor	4.01E-10	5.14E+06		NA		3.03E+02		3.0E+02	3.0E+02	N
Methylene chloride	4.29E-04	4.97E+03	1.11E+04	2.95E+01		2.75E+03		2.9E+01	2.9E+01	C
Methyl ethyl ketone	1.31E-05	2.84E+04		NA		1.00E+04		1.0E+04	1.0E+04	N
Methyl isobutyl ketone	2.24E-05	2.17E+04		NA		5.15E+03		5.2E+03	5.2E+03	N
Methylnaphthalene,2-	8.13E-08	3.61E+05		NA		3.71E+02		3.7E+02	3.7E+02	N
MTBE (methyl tert-butyl ether)	1.02E-04	1.02E+04		NA		1.13E+04		1.1E+04	1.1E+04	N
Naphthalene	1.30E-06	9.02E+04		NA		1.13E+02		1.1E+02	1.1E+02	N
Nickel	NA	NA			NA		1.56E+03	1.6E+03	1.6E+03	N
Nitrate	NA	NA			NA		1.25E+05	1.3E+05	1.3E+05	N
Nitrite	NA	NA			NA		7.82E+03	7.8E+03	7.8E+03	N
Nitroaniline,2-	1.01E-05	3.24E+04		NA		1.46E+00		1.5E+00	1.7E+00	Q
Nitroaniline,3-	8.15E-07	1.14E+05		NA		1.63E+02		1.6E+02	1.6E+02	N
Nitroaniline,4-	1.11E-06	9.79E+04		NA		1.31E+02		1.3E+02	1.3E+02	N
Nitrobenzene	9.67E-07	1.05E+05		NA		2.76E+01		2.8E+01	2.8E+01	N
Nitrophenol,4-	5.33E-07	1.41E+05		NA		3.83E+02		3.8E+02	3.8E+02	N
Nitrosodi-n-propylamine,n-	9.19E-07	1.07E+05	2.41E+05	5.33E-02		NA		5.3E-02	3.3E-01	Q
N-nitrosodiphenylamine	2.68E-08	6.29E+05	1.41E+06	9.44E+01		NA		9.4E+01	9.4E+01	C
Pentachlorophenol	2.82E-08	6.13E+05	1.37E+06	2.87E+00		1.32E+03		2.9E+00	2.9E+00	C

LDEQ RECAP
WORKSHEET 4
SOILni
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Nonindustrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFnic = (Q\C*1e-4*(3.14*DA*Tnic)^0.5)/(2*pb*DA)
VFnia = (Q\C*1e-4*(3.14*DA*Tnia)^0.5)/(2*pb*DA)

Soilni-C-O = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFi*(IRAadj/VFnia)+SFo*1e-6*ABS*IRDadj))
Soilni-C-I = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFo*1e-6*ABS*IRDadj))
Soilni-N-O = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(IRAc/RfDi)*(1/VFnic)+(SAc/RfDo)*AFc*ABS*1e-6))
Soilni-N-I = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(SAc/RfDo)*AFc*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFnic (m3/kg)	VFnia (m3/kg)	Soilni C-O (mg/kg)	Soilni C-I (mg/kg)	Soilni N-O (mg/kg)	Soilni N-I (mg/kg)	min value (C or N)	Soilni (mg/kg)	
Phenanthrene	1.52E-08	8.34E+05		NA		2.21E+04		2.2E+04	2.2E+04	N
Phenol	8.09E-07	1.14E+05		NA		1.63E+04		1.6E+04	1.6E+04	N
Polychlorinated biphenyls	8.87E-09	1.09E+06	2.45E+06	2.16E-01		1.09E+00		2.2E-01	2.2E-01	C
Pyrene	6.85E-10	3.93E+06		NA		2.32E+03		2.3E+03	2.3E+03	N
Selenium	NA	NA			NA		3.91E+02	3.9E+02	3.9E+02	N
Silver	NA	NA			NA		3.91E+02	3.9E+02	3.9E+02	N
Styrene	1.14E-05	3.05E+04		NA		7.29E+03		7.3E+03	7.3E+03	N
Tetrachlorobenzene,1,2,4,5-	5.71E-07	1.36E+05		NA		1.42E+01		1.4E+01	1.4E+01	N
Tetrachloroethane,1,1,1,2-	1.03E-04	1.01E+04	2.27E+04	4.71E+00		3.96E+02		4.7E+00	4.7E+00	C
Tetrachloroethane,1,1,2,2-	1.36E-05	2.79E+04	6.24E+04	1.25E+00		1.68E+03		1.2E+00	1.2E+00	C
Tetrachloroethylene	2.42E-04	6.61E+03	1.48E+04	9.82E+00		4.64E+02		9.8E+00	9.8E+00	C
Tetrachlorophenol,2,3,4,6-	1.50E-07	2.66E+05		NA		1.60E+03		1.6E+03	1.6E+03	N
Thallium	NA	NA			NA		5.48E+00	5.5E+00	5.5E+00	N
Toluene	1.91E-04	7.46E+03		NA		1.23E+03		1.2E+03	1.2E+03	N
Toxaphene	2.30E-10	6.79E+06	1.52E+07	4.40E-01		NA		4.4E-01	4.4E-01	C
Trichlorobenzene,1,2,4-	1.39E-06	8.72E+04		NA		7.11E+02		7.1E+02	7.1E+02	N
Trichloroethane,1,1,1-	4.39E-04	4.91E+03		NA		1.22E+03		1.2E+03	1.2E+03	N
Trichloroethane,1,1,2-	4.06E-05	1.62E+04	3.62E+04	3.10E+00		7.64E+01		3.1E+00	3.1E+00	C
Trichloroethene	3.65E-04	5.39E+03	1.21E+04	1.78E-01		1.89E+01		1.8E-01	1.8E-01	C
Trichlorofluoromethane	1.93E-03	2.34E+03		NA		7.11E+02		7.1E+02	7.1E+02	N
Trichlorophenol,2,4,5-	4.99E-08	4.61E+05		NA		5.63E+03		5.6E+03	5.6E+03	N

LDEQ RECAP
WORKSHEET 4
SOILni
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Nonindustrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFnic = (Q\C*1e-4*(3.14*DA*Tnic)^0.5)/(2*pb*DA)
VFnia = (Q\C*1e-4*(3.14*DA*Tnia)^0.5)/(2*pb*DA)

Soilni-C-O = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFi*(IRAadj/VFnia)+SFo*1e-6*ABS*IRDadj))
Soilni-C-I = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFo*1e-6*ABS*IRDadj))
Soilni-N-O = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(IRAc/RfDi)*(1/VFnic)+(SAc/RfDo)*AFc*ABS*1e-6))
Soilni-N-I = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(SAc/RfDo)*AFc*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFnic (m3/kg)	VFnia (m3/kg)	Soilni C-O (mg/kg)	Soilni C-I (mg/kg)	Soilni N-O (mg/kg)	Soilni N-I (mg/kg)	min value (C or N)	Soilni (mg/kg)	
Trichlorophenol,2,4,6-	3.64E-08	5.40E+05	1.21E+06	4.17E+01		NA		4.2E+01	4.2E+01	C
Vanadium	NA	NA			NA		5.48E+02	5.5E+02	5.5E+02	N
Vinyl chloride	2.81E-03	1.94E+03	4.35E+03	3.07E-01		NA		3.1E-01	3.1E-01	C
Xylene(mixed)	1.87E-04	7.52E+03		NA		3.34E+02		3.3E+02	3.3E+02	N
Zinc	NA	NA			NA		2.35E+04	2.3E+04	2.3E+04	N
Aliphatics C6-C8	1.40E-03	2.75E+03		NA		2.16E+04		2.2E+04	1.0E+04	O,T
Aliphatics >C8-C10	3.22E-04	5.73E+03		NA		1.95E+03		2.0E+03	2.0E+03	N
Aliphatics >C10-C12	6.28E-05	1.30E+04		NA		3.43E+03		3.4E+03	3.4E+03	N
Aliphatics >C12-C16	1.37E-05	2.78E+04		NA		4.89E+03		4.9E+03	4.9E+03	N
Aliphatics >C16-C35	1.03E-06	1.02E+05		NA		8.83E+04		8.8E+04	1.0E+04	O,T
Aromatics >C8-C10	3.94E-05	1.64E+04		NA		1.03E+03		1.0E+03	1.0E+03	N
Aromatics >C10-C12	7.31E-06	3.81E+04		NA		1.67E+03		1.7E+03	1.7E+03	N
Aromatics >C12-C16	1.40E-06	8.71E+04		NA		2.26E+03		2.3E+03	2.3E+03	N
Aromatics >C16-C21	1.11E-07	3.09E+05		NA		1.63E+03		1.6E+03	1.6E+03	N
Aromatics >C21-C35	1.04E-09	3.20E+06		NA		1.81E+03		1.8E+03	1.8E+03	N
TPH-GRO (C6-C10)								1.0E+03	1.0E+03	
TPH-DRO (C10-C28)								1.0E+03	1.0E+03	
TPH-ORO (>C28)								1.8E+03	1.8E+03	

LDEQ RECAP
WORKSHEET 5
SOILi
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Industrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFi = (Q\C*1e-4*(3.14*DA*Ti)^0.5)/(2*pb*DA)

Soili-C-O = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFi*(IRAa/VFi)+SFo*SAai*AFai*ABS*1e-6))
Soili-C-I = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFo*SAai*AFai*ABS*1e-6))
Soili-N-O = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(IRAa/RfDi)*(1/VFi)+(SAai/RfDo)*AFai*ABS*1e-6))
Soili-N-I = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(SAai/RfDo)*AFai*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFi (m3/kg)	Soili C-O (mg/kg)	Soili C-I (mg/kg)	Soili N-O (mg/kg)	Soili N-I (mg/kg)	min value (C or N)	Soili (mg/kg)	
Acenaphthene	7.85E-08	7.51E+05	NA		8.00E+04		8.0E+04	8.0E+04	N
Acenaphthylene	1.50E-07	5.43E+05	NA		7.06E+04		7.1E+04	7.1E+04	N
Acetone	1.46E-05	5.51E+04	NA		2.47E+04		2.5E+04	2.5E+04	N
Aldrin	2.92E-09	3.89E+06	1.39E-01		2.53E+01		1.4E-01	1.4E-01	C
Aniline	9.09E-07	2.21E+05	2.43E+02		3.06E+02		2.4E+02	2.4E+02	C
Anthracene	6.24E-09	2.66E+06	NA		5.33E+05		5.3E+05	5.3E+05	N
Antimony	NA	NA		NA		8.18E+02	8.2E+02	8.2E+02	N
Arsenic	NA	NA		2.73E+00		4.39E+02	2.7E+00	2.7E+00	C
Barium	NA	NA		NA		1.43E+05	1.4E+05	1.4E+05	N
Benzene	3.10E-04	1.19E+04	5.72E+00		4.93E+02		5.7E+00	5.7E+00	C
Benz(a)anthracene	1.31E-10	1.83E+07	2.88E+00		NA		2.9E+00	2.9E+00	C
Benzo(a)pyrene	4.17E-11	3.26E+07	2.88E-01		NA		2.9E-01	3.3E-01	Q
Benzo(b)fluoranthene	1.30E-10	1.85E+07	2.88E+00		NA		2.9E+00	2.9E+00	C
Benzo(k)fluoranthene	1.98E-11	4.72E+07	2.88E+01		NA		2.9E+01	2.9E+01	C
Beryllium	NA	NA		NA		4.09E+03	4.1E+03	4.1E+03	N
Biphenyl,1,1-	1.34E-07	5.74E+05	NA		6.02E+04		6.0E+04	6.0E+04	N
Bis(2-chloroethyl)ether	1.03E-06	2.07E+05	1.72E+00		NA		1.7E+00	1.7E+00	C
Bis(2-chloroisopropyl)ether	4.76E-06	9.63E+04	2.66E+01		1.59E+04		2.7E+01	2.7E+01	C
Bis(2-ethyl-hexyl)phthalate	1.41E-10	1.77E+07	1.75E+02		1.75E+04		1.7E+02	1.7E+02	C
Bromodichloromethane	3.44E-05	3.59E+04	7.60E+00		3.36E+03		7.6E+00	7.6E+00	C
Bromoform	3.24E-06	1.17E+05	2.72E+02		9.24E+03		2.7E+02	2.7E+02	C
Bromomethane	7.37E-04	7.75E+03	NA		5.55E+01		5.6E+01	5.6E+01	N

LDEQ RECAP
WORKSHEET 5
SOILi
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Industrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFi = (Q\C*1e-4*(3.14*DA*Ti)^0.5)/(2*pb*DA)

Soili-C-O = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFi*(IRAa/VFi)+SFo*SAai*AFai*ABS*1e-6))
Soili-C-I = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFo*SAai*AFai*ABS*1e-6))
Soili-N-O = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(IRAa/RfDi)*(1/VFi)+(SAai/RfDo)*AFai*ABS*1e-6))
Soili-N-I = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(SAai/RfDo)*AFai*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFi (m3/kg)	Soili C-O (mg/kg)	Soili C-I (mg/kg)	Soili N-O (mg/kg)	Soili N-I (mg/kg)	min value (C or N)	Soili (mg/kg)	
Butyl benzyl phthalate	1.56E-09	5.31E+06	NA		1.71E+05		1.7E+05	1.7E+05	N
Cadmium	NA	NA		NA		1.01E+03	1.0E+03	1.0E+03	N
Carbon Disulfide	2.03E-03	4.67E+03	NA		4.67E+03		4.7E+03	4.7E+03	N
Carbon Tetrachloride	6.74E-04	8.10E+03	2.10E+00		2.32E+01		2.1E+00	2.1E+00	C
Chlordane	9.64E-10	6.77E+06	1.03E+01		6.10E+02		1.0E+01	1.0E+01	C
Chloroaniline,p-	4.99E-07	2.98E+05	NA		2.23E+03		2.2E+03	2.2E+03	N
Chlorobenzene	5.95E-05	2.73E+04	NA		2.24E+03		2.2E+03	2.2E+03	N
Chlorodibromomethane	1.04E-05	6.52E+04	9.54E+00		5.73E+03		9.5E+00	9.5E+00	C
Chloroethane (Ethylchloride)	4.45E-03	3.15E+03	1.54E+01		4.36E+04		1.5E+01	1.5E+01	C
Chloroform	2.76E-04	1.27E+04	2.25E+00		5.57E+00		2.2E+00	2.2E+00	C
Chloromethane	1.18E-03	6.12E+03	1.35E+01		2.65E+03		1.3E+01	1.3E+01	C
Chloronaphthalene,2-	7.27E-08	7.80E+05	NA		1.08E+05		1.1E+05	1.1E+05	N
Chlorophenol,2-	2.87E-06	1.24E+05	NA		2.42E+03		2.4E+03	2.4E+03	N
Chromium(III)				NA		3.07E+06	3.1E+06	1.0E+06	O
Chromium(VI)				NA		6.13E+03	6.1E+03	6.1E+03	N
Chrysene	3.85E-10	1.07E+07	2.87E+02		NA		2.9E+02	2.9E+02	C
Cobalt	NA	NA		NA		1.23E+05	1.2E+05	1.2E+05	N
Copper	NA	NA		NA		8.18E+04	8.2E+04	8.2E+04	N
Cyanide (free)	NA	NA		NA		3.61E+04	3.6E+04	3.6E+04	N
DDD	5.16E-10	9.25E+06	1.66E+01		NA		1.7E+01	1.7E+01	C
DDE	4.75E-10	9.65E+06	1.17E+01		NA		1.2E+01	1.2E+01	C
DDT	3.95E-11	3.34E+07	1.20E+01		7.26E+02		1.2E+01	1.2E+01	C

LDEQ RECAP
WORKSHEET 5
SOILi
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Industrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFi = (Q\C*1e-4*(3.14*DA*Ti)^0.5)/(2*pb*DA)

Soili-C-O = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFi*(IRAa/VFi)+SFo*SAai*AFai*ABS*1e-6))
Soili-C-I = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFo*SAai*AFai*ABS*1e-6))
Soili-N-O = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(IRAa/RfDi)*(1/VFi)+(SAai/RfDo)*AFai*ABS*1e-6))
Soili-N-I = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(SAai/RfDo)*AFai*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFi (m3/kg)	Soili C-O (mg/kg)	Soili C-I (mg/kg)	Soili N-O (mg/kg)	Soili N-I (mg/kg)	min value (C or N)	Soili (mg/kg)	
Dibenz(a,h)anthracene	1.22E-11	6.03E+07	2.88E-01		NA		2.9E-01	3.3E-01	Q
Dibenzofuran	5.40E-09	2.86E+06	NA		7.17E+03		7.2E+03	7.2E+03	N
Dibromo-3-chloropropane,1,2-	1.86E-06	1.54E+05	1.76E+00		2.38E+01		1.8E+00	1.8E+00	C
Dichlorobenzene,1,2-	1.78E-05	4.98E+04	NA		1.34E+04		1.3E+04	1.3E+04	N
Dichlorobenzene,1,3-	6.69E-06	8.13E+04	NA		3.11E+02		3.1E+02	3.1E+02	N
Dichlorobenzene,1,4-	1.43E-05	5.56E+04	2.91E+01		3.16E+04		2.9E+01	2.9E+01	C
Dichlorobenzidine,3,3-	3.80E-08	1.08E+06	4.73E+00		NA		4.7E+00	4.7E+00	C
Dichloroethane,1,1-	2.93E-04	1.23E+04	NA		8.60E+03		8.6E+03	8.6E+03	N
Dichloroethane,1,2-	9.40E-05	2.17E+04	3.23E+00		3.05E+02		3.2E+00	3.2E+00	C
Dichloroethene,1,1-	1.26E-03	5.92E+03	NA		1.70E+03		1.7E+03	1.7E+03	N
Dichloroethene,cis,1,2-	2.79E-04	1.26E+04	NA		6.24E+02		6.2E+02	6.2E+02	N
Dichloroethene,trans,1,2-	5.61E-04	8.88E+03	NA		8.87E+02		8.9E+02	8.9E+02	N
Dichlorophenol,2,4-	4.80E-08	9.60E+05	NA		2.24E+03		2.2E+03	2.2E+03	N
Dichloropropane,1,2-	1.72E-04	1.60E+04	3.24E+00		8.98E+01		3.2E+00	3.2E+00	C
Dichloropropene,1,3-	8.98E-05	2.22E+04	1.62E+01		6.40E+02		1.6E+01	1.6E+01	C
Dieldrin	1.18E-09	6.12E+06	1.50E-01		4.28E+01		1.5E-01	1.5E-01	C
Diethylphthalate	2.65E-07	4.08E+05	NA		4.95E+05		5.0E+05	5.0E+05	N
Dimethylphenol,2,4-	1.87E-07	4.87E+05	NA		1.30E+04		1.3E+04	1.3E+04	N
Dimethylphthalate	4.24E-07	3.23E+05	NA		5.74E+06		5.7E+06	1.0E+06	O
Di-n-octylphthalate	8.38E-13	2.30E+08	NA		3.52E+04		3.5E+04	3.5E+04	N
Dinitrobenzene,1,3-	2.55E-07	4.16E+05	NA		6.23E+01		6.2E+01	6.2E+01	N
Dinitrophenol,2,4-	1.01E-06	2.09E+05	NA		9.66E+02		9.7E+02	9.7E+02	N

LDEQ RECAP
WORKSHEET 5
SOILi
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Industrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFi = (Q\C*1e-4*(3.14*DA*Ti)^0.5)/(2*pb*DA)

Soili-C-O = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFi*(IRAa/VFi)+SFo*SAai*AFai*ABS*1e-6))
Soili-C-I = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFo*SAai*AFai*ABS*1e-6))
Soili-N-O = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(IRAa/RfDi)*(1/VFi)+(SAai/RfDo)*AFai*ABS*1e-6))
Soili-N-I = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(SAai/RfDo)*AFai*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFi (m3/kg)	Soili C-O (mg/kg)	Soili C-I (mg/kg)	Soili N-O (mg/kg)	Soili N-I (mg/kg)	min value (C or N)	Soili (mg/kg)	
Dinitrotoluene,2,6-	3.54E-07	3.53E+05	NA		5.92E+02		5.9E+02	5.9E+02	N
Dinitrotoluene,2,4-	2.64E-07	4.09E+05	NA		1.24E+03		1.2E+03	1.2E+03	N
Dinoseb	1.71E-07	5.08E+05	NA		6.58E+02		6.6E+02	6.6E+02	N
Endosulfan	1.27E-08	1.87E+06	NA		4.84E+03		4.8E+03	4.8E+03	N
Endrin	2.31E-09	4.37E+06	NA		2.54E+02		2.5E+02	2.5E+02	N
Ethyl benzene	1.40E-04	1.78E+04	NA		2.30E+04		2.3E+04	2.3E+04	N
Fluoranthene	1.08E-09	6.40E+06	NA		2.94E+04		2.9E+04	2.9E+04	N
Fluorene	2.05E-08	1.47E+06	NA		6.43E+04		6.4E+04	6.4E+04	N
Heptachlor	8.62E-05	2.27E+04	6.30E-02		5.12E+01		6.3E-02	6.3E-02	C
Heptachlor epoxide	2.95E-10	1.22E+07	2.67E-01		1.13E+01		2.7E-01	2.7E-01	C
Hexachlorobenzene	4.88E-08	9.52E+05	2.51E+00		1.15E+03		2.5E+00	2.5E+00	C
Hexachlorobutadiene	4.62E-07	3.09E+05	2.04E+01		1.13E+02		2.0E+01	2.0E+01	C
Hexachlorocyclohexane,alpha	2.19E-08	1.42E+06	5.02E-01		NA		5.0E-01	5.0E-01	C
Hexachlorocyclohexane,beta	1.45E-08	1.74E+06	1.81E+00		NA		1.8E+00	1.8E+00	C
Hexachlorocyclohexane,gamma	3.04E-08	1.21E+06	2.37E+00		3.30E+02		2.4E+00	2.4E+00	C
Hexachlorocyclopentadiene	1.18E-07	6.12E+05	NA		1.76E+02		1.8E+02	1.8E+02	N
Hexachloroethane	3.08E-07	3.79E+05	1.99E+02		9.94E+02		2.0E+02	2.0E+02	C
Indeno(1,2,3-cd)pyrene	7.32E-12	7.77E+07	2.88E+00		NA		2.9E+00	2.9E+00	C
Isobutyl alcohol	4.41E-06	1.00E+05	NA		9.71E+04		9.7E+04	9.7E+04	N
Isophorone	7.54E-07	2.42E+05	1.52E+03		1.03E+05		1.5E+03	1.5E+03	C
Lead (inorganic)	NA	NA	NA	NA	NA	NA	NA	0.0E+00	Q
Mercury (inorganic)	NA	NA		NA		6.13E+02	6.1E+02	6.1E+02	N

LDEQ RECAP
WORKSHEET 5
SOILi
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Industrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFi = (Q\C*1e-4*(3.14*DA*Ti)^0.5)/(2*pb*DA)

Soili-C-O = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFi*(IRAa/VFi)+SFo*SAai*AFai*ABS*1e-6))
Soili-C-I = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFo*SAai*AFai*ABS*1e-6))
Soili-N-O = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(IRAa/RfDi)*(1/VFi)+(SAai/RfDo)*AFai*ABS*1e-6))
Soili-N-I = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(SAai/RfDo)*AFai*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFi (m3/kg)	Soili C-O (mg/kg)	Soili C-I (mg/kg)	Soili N-O (mg/kg)	Soili N-I (mg/kg)	min value (C or N)	Soili (mg/kg)	
Methoxychlor	4.01E-10	1.05E+07	NA		4.33E+03		4.3E+03	4.3E+03	N
Methylene chloride	4.29E-04	1.01E+04	7.93E+01		3.26E+04		7.9E+01	7.9E+01	C
Methyl ethyl ketone	1.31E-05	5.81E+04	NA		7.94E+04		7.9E+04	7.9E+04	N
Methyl isobutyl ketone	2.24E-05	4.44E+04	NA		8.90E+04		8.9E+04	8.9E+04	N
Methylnaphthalene,2-	8.13E-08	7.37E+05	NA		3.00E+03		3.0E+03	3.0E+03	N
MTBE (methyl tert-butyl ether)	1.02E-04	2.08E+04	NA		8.65E+04		8.6E+04	8.6E+04	N
Naphthalene	1.30E-06	1.84E+05	NA		7.94E+02		7.9E+02	7.9E+02	N
Nickel	NA	NA		NA		4.09E+04	4.1E+04	4.1E+04	N
Nitrate	NA	NA		NA		3.27E+06	3.3E+06	1.0E+06	O
Nitrite	NA	NA		NA		2.04E+05	2.0E+05	2.0E+05	N
Nitroaniline,2-	1.01E-05	6.63E+04	NA		9.80E+00		9.8E+00	9.8E+00	N
Nitroaniline,3-	8.15E-07	2.33E+05	NA		2.26E+03		2.3E+03	2.3E+03	N
Nitroaniline,4-	1.11E-06	2.00E+05	NA		1.42E+03		1.4E+03	1.4E+03	N
Nitrobenzene	9.67E-07	2.14E+05	NA		3.87E+02		3.9E+02	3.9E+02	N
Nitrophenol,4-	5.33E-07	2.88E+05	NA		4.41E+03		4.4E+03	4.4E+03	N
Nitrosodi-n-propylamine,n-	9.19E-07	2.19E+05	1.97E-01		NA		2.0E-01	3.3E-01	Q
N-nitrosodiphenylamine	2.68E-08	1.28E+06	4.44E+02		NA		4.4E+02	4.4E+02	C
Pentachlorophenol	2.82E-08	1.25E+06	1.03E+01		1.33E+04		1.0E+01	1.0E+01	C
Phenanthrene	1.52E-08	1.70E+06	NA		4.97E+05		5.0E+05	5.0E+05	N
Phenol	8.09E-07	2.34E+05	NA		2.26E+05		2.3E+05	2.3E+05	N
Polychlorinated biphenyls	8.87E-09	2.23E+06	9.45E-01		1.35E+01		9.5E-01	9.5E-01	C
Pyrene	6.85E-10	8.03E+06	NA		5.84E+04		5.8E+04	5.8E+04	N

LDEQ RECAP
WORKSHEET 5
SOILi
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Industrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFi = (Q\C*1e-4*(3.14*DA*Ti)^0.5)/(2*pb*DA)

Soili-C-O = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFi*(IRAa/VFi)+SFo*SAai*AFai*ABS*1e-6))
Soili-C-I = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFo*SAai*AFai*ABS*1e-6))
Soili-N-O = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(IRAa/RfDi)*(1/VFi)+(SAai/RfDo)*AFai*ABS*1e-6))
Soili-N-I = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(SAai/RfDo)*AFai*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFi (m3/kg)	Soili C-O (mg/kg)	Soili C-I (mg/kg)	Soili N-O (mg/kg)	Soili N-I (mg/kg)	min value (C or N)	Soili (mg/kg)	
Selenium	NA	NA		NA		1.02E+04	1.0E+04	1.0E+04	N
Silver	NA	NA		NA		1.02E+04	1.0E+04	1.0E+04	N
Styrene	1.14E-05	6.24E+04	NA		7.45E+04		7.5E+04	7.5E+04	N
Tetrachlorobenzene,1,2,4,5-	5.71E-07	2.78E+05	NA		1.63E+02		1.6E+02	1.6E+02	N
Tetrachloroethane,1,1,1,2-	1.03E-04	2.07E+04	1.09E+01		3.02E+03		1.1E+01	1.1E+01	C
Tetrachloroethane,1,1,2,2-	1.36E-05	5.69E+04	3.52E+00		1.53E+04		3.5E+00	3.5E+00	C
Tetrachloroethylene	2.42E-04	1.35E+04	5.10E+01		5.54E+03		5.1E+01	5.1E+01	C
Tetrachlorophenol,2,3,4,6-	1.50E-07	5.43E+05	NA		2.01E+04		2.0E+04	2.0E+04	N
Thallium	NA	NA		NA		1.43E+02	1.4E+02	1.4E+02	N
Toluene	1.91E-04	1.52E+04	NA		8.68E+03		8.7E+03	8.7E+03	N
Toxaphene	2.30E-10	1.39E+07	2.21E+00		NA		2.2E+00	2.2E+00	C
Trichlorobenzene,1,2,4-	1.39E-06	1.78E+05	NA		1.47E+04		1.5E+04	1.5E+04	N
Trichloroethane,1,1,1-	4.39E-04	1.00E+04	NA		1.22E+04		1.2E+04	1.2E+04	N
Trichloroethane,1,1,2-	4.06E-05	3.30E+04	7.78E+00		6.23E+02		7.8E+00	7.8E+00	C
Trichloroethene	3.65E-04	1.10E+04	3.83E-01		3.13E+02		3.8E-01	3.8E-01	C
Trichlorofluoromethane	1.93E-03	4.79E+03	NA		4.86E+03		4.9E+03	4.9E+03	N
Trichlorophenol,2,4,5-	4.99E-08	9.41E+05	NA		7.45E+04		7.4E+04	7.4E+04	N
Trichlorophenol,2,4,6-	3.64E-08	1.10E+06	1.94E+02		NA		1.9E+02	1.9E+02	C
Vanadium	NA	NA		NA		1.43E+04	1.4E+04	1.4E+04	N
Vinyl chloride	2.81E-03	3.97E+03	1.26E+00		NA		1.3E+00	1.3E+00	C
Xylene(mixed)	1.87E-04	1.54E+04	NA		2.26E+03		2.3E+03	2.3E+03	N
Zinc	NA	NA		NA		6.13E+05	6.1E+05	6.1E+05	N

LDEQ RECAP
WORKSHEET 5
SOILi
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Industrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFi = (Q\C*1e-4*(3.14*DA*Ti)^0.5)/(2*pb*DA)

Soili-C-O = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFi*(IRAa/VFi)+SFo*SAai*AFai*ABS*1e-6))
Soili-C-I = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFo*SAai*AFai*ABS*1e-6))
Soili-N-O = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(IRAa/RfDi)*(1/VFi)+(SAai/RfDo)*AFai*ABS*1e-6))
Soili-N-I = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(SAai/RfDo)*AFai*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFi (m3/kg)	Soili C-O (mg/kg)	Soili C-I (mg/kg)	Soili N-O (mg/kg)	Soili N-I (mg/kg)	min value (C or N)	Soili (mg/kg)	
Aliphatics C6-C8	1.40E-03	5.62E+03	NA		1.50E+05		1.5E+05	1.0E+04	O,T
Aliphatics >C8-C10	3.22E-04	1.17E+04	NA		1.60E+04		1.6E+04	1.0E+04	O,T
Aliphatics >C10-C12	6.28E-05	2.65E+04	NA		3.39E+04		3.4E+04	1.0E+04	O,T
Aliphatics >C12-C16	1.37E-05	5.68E+04	NA		6.10E+04		6.1E+04	1.0E+04	O,T
Aliphatics >C16-C35	1.03E-06	2.07E+05	NA		9.62E+05		9.6E+05	1.0E+04	O,T
Aromatics >C8-C10	3.94E-05	3.35E+04	NA		9.13E+03		9.1E+03	9.1E+03	N
Aromatics >C10-C12	7.31E-06	7.78E+04	NA		1.85E+04		1.8E+04	1.0E+04	O,T
Aromatics >C12-C16	1.40E-06	1.78E+05	NA		3.27E+04		3.3E+04	1.0E+04	O,T
Aromatics >C16-C21	1.11E-07	6.31E+05	NA		2.08E+04		2.1E+04	1.0E+04	O,T
Aromatics >C21-C35	1.04E-09	6.53E+06	NA		2.58E+04		2.6E+04	1.0E+04	O,T
TPH-GRO (C6-C10)							9.1E+03	9.1E+03	
TPH-DRO (C10-C28)							9.1E+03	9.1E+03	
TPH-ORO (>C28)							2.6E+04	1.0E+04	

LDEQ RECAP
WORKSHEET 6
SOILGW and SOILsat
(mg/kg)

Derivation of Management Option 1 & 2 **SoilGW & Soilsat**
Revision Date: 08/04/2003 Run date: 6/28/2011

SoilGW1 = DFsummers*(GW1*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW2 = DFsummers*(GW2*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3NDW =DFsummers* (GW3NDW*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3DW =DFsummers* (GW3DW*(pb*Koc*foc+nw+na*H*41))/(pb)

Soilsat = S*(Koc*foc*pb+nw+H*41*na)/pb

COMPOUND	SoilGW1 (mg/kg)	SoilGW2 (mg/kg)	SoilGW3DW (mg/kg)	SoilGW3NDW (mg/kg)	Soilsat (mg/kg)
Acenaphthene	2.2E+02	2.2E+02	2.5E+02	3.2E+02	NA
Acenaphthylene	8.8E+01	8.8E+01	1.4E+02	1.9E+02	NA
Acetone	1.5E+00	1.5E+00	8.5E+00	1.8E+02	1.3E+05
Aldrin	1.1E+01	1.1E+01	1.1E+01	1.1E+01	NA
Aniline	6.5E-02	6.5E-02	3.2E-02	4.4E-01	1.0E+04
Anthracene	1.2E+02	1.2E+02	1.2E+02	1.2E+02	NA
Antimony	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA
Benzene	5.1E-02	5.1E-02	1.1E-02	1.3E-01	9.0E+02
Benz(a)anthracene	3.4E+02	3.9E+00	1.6E-02	1.6E-02	NA
Benzo(a)pyrene	2.3E+01	2.3E+01	2.3E+01	2.3E+01	NA
Benzo(b)fluoranthene	2.2E+02	1.3E+01	1.3E+01	1.3E+01	NA
Benzo(k)fluoranthene	1.2E+02	1.2E+02	1.2E+02	1.2E+02	NA
Beryllium	NA	NA	NA	NA	NA
Biphenyl,1,1-	1.9E+02	1.9E+02	1.4E+02	1.7E+02	2.3E+02
Bis(2-chloroethyl)ether	6.6E-02	6.6E-02	3.2E-04	2.4E-03	9.8E+03
Bis(2-chloroisopropyl)ether	5.6E-02	2.7E-03	3.1E-03	8.2E-03	8.4E+02
Bis(2-ethyl-hexyl)phthalate	7.9E+01	7.9E+01	7.9E+01	7.9E+01	2.2E+02
Bromodichloromethane	9.2E-01	9.2E-01	9.2E-01	3.0E-02	3.1E+03
Bromoform	1.8E+00	1.8E+00	6.9E-02	6.1E-01	2.7E+03
Bromomethane	4.0E-02	3.5E-02	1.8E-01	2.1E+00	3.0E+03
Butyl benzyl phthalate	4.4E+03	4.4E+03	1.5E+03	1.7E+03	2.2E+02

LDEQ RECAP
WORKSHEET 6
SOILGW and SOILsat
(mg/kg)

Derivation of Management Option 1 & 2 **SoilGW & Soilsat**
Revision Date: 08/04/2003 Run date: 6/28/2011

SoilGW1 = DFsummers*(GW1*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW2 = DFsummers*(GW2*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3NDW =DFsummers* (GW3NDW*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3DW =DFsummers* (GW3DW*(pb*Koc*foc+nw+na*H*41))/(pb)

Soilsat = S*(Koc*foc*pb+nw+H*41*na)/pb

COMPOUND	SoilGW1 (mg/kg)	SoilGW2 (mg/kg)	SoilGW3DW (mg/kg)	SoilGW3NDW (mg/kg)	Soilsat (mg/kg)
Cadmium	NA	NA	NA	NA	NA
Carbon Disulfide	1.1E+01	1.1E+01	2.9E+01	1.5E+02	6.0E+02
Carbon Tetrachloride	1.1E-01	1.1E-01	5.0E-03	2.7E-02	9.1E+02
Chlordane	1.2E+01	1.2E+01	1.2E+01	1.2E+01	NA
Chloroaniline,p-	1.5E+00	1.5E+00	1.2E+00	7.0E+00	NA
Chlorobenzene	3.0E+00	3.0E+00	3.0E+00	2.1E+01	7.0E+02
Chlorodibromomethane	1.0E+00	1.0E+00	3.9E-03	5.1E-02	1.3E+03
Chloroethane (Ethylchloride)	3.5E-02	1.3E-02	4.4E+01	4.3E+02	9.9E+02
Chloroform	9.0E-01	9.0E-01	4.8E-02	6.3E-01	3.6E+03
Chloromethane	6.1E-02	9.1E-03	1.5E-02	2.2E-01	1.6E+03
Chloronaphthalene,2-	5.0E+02	5.0E+02	3.3E+02	3.7E+02	NA
Chlorophenol,2-	1.4E+00	1.4E+00	4.6E-03	5.8E+00	5.1E+04
Chromium(III)	NA	NA	NA	NA	NA
Chromium(VI)	NA	NA	NA	NA	NA
Chrysene	7.6E+01	7.6E+01	1.8E+00	1.8E+00	NA
Cobalt	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA
Cyanide (free)	NA	NA	NA	NA	NA
DDD	1.5E+00	1.5E+00	1.5E+00	1.5E+00	NA
DDE	2.0E+00	2.0E+00	2.0E+00	2.0E+00	NA
DDT	2.4E+01	1.6E+01	1.6E+01	1.6E+01	NA
Dibenz(a,h)anthracene	5.4E+02	2.0E+00	2.0E+00	2.0E+00	NA
Dibenzofuran	2.4E+01	2.4E+01	1.3E+01	1.5E+01	1.5E+02

LDEQ RECAP
WORKSHEET 6
SOILGW and SOILsat
(mg/kg)

Derivation of Management Option 1 & 2 **SoilGW & Soilsat**
Revision Date: 08/04/2003 Run date: 6/28/2011

SoilGW1 = DFsummers*(GW1*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW2 = DFsummers*(GW2*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3NDW =DFsummers* (GW3NDW*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3DW =DFsummers* (GW3DW*(pb*Koc*foc+nw+na*H*41))/(pb)

Soilsat = S*(Koc*foc*pb+nw+H*41*na)/pb

COMPOUND	SoilGW1 (mg/kg)	SoilGW2 (mg/kg)	SoilGW3DW (mg/kg)	SoilGW3NDW (mg/kg)	Soilsat (mg/kg)
Dibromo-3-chloropropane,1,2-	2.6E-03	2.6E-03	2.6E-03	2.6E-03	7.8E+02
Dichlorobenzene,1,2-	2.9E+01	2.9E+01	2.9E+01	1.6E+02	3.8E+02
Dichlorobenzene,1,3-	2.1E+00	1.1E+00	3.8E+00	9.2E+00	1.3E+03
Dichlorobenzene,1,4-	5.7E+00	5.7E+00	5.7E+00	5.7E+00	NA
Dichlorobenzidine,3,3-	1.8E+00	1.3E-02	1.1E-03	1.4E-03	NA
Dichloroethane,1,1-	7.5E+00	7.5E+00	2.7E+01	1.8E+02	2.3E+03
Dichloroethane,1,2-	3.5E-02	3.5E-02	2.6E-03	4.8E-02	3.0E+03
Dichloroethene,1,1-	8.5E-02	8.5E-02	6.1E-04	7.0E-03	1.4E+03
Dichloroethene,cis,1,2-	4.9E-01	4.9E-01	4.9E-01	1.2E+01	1.2E+03
Dichloroethene,trans,1,2-	7.7E-01	7.7E-01	7.7E-01	1.9E+01	2.4E+03
Dichlorophenol,2,4-	1.2E+01	1.2E+01	3.2E-02	2.5E+01	NA
Dichloropropane,1,2-	4.2E-02	4.2E-02	4.2E-02	4.2E-02	1.2E+03
Dichloropropene,1,3-	4.0E-02	3.2E-03	8.0E-02	1.3E+00	1.1E+03
Dieldrin	7.7E+00	7.7E+00	7.7E+00	7.7E+00	NA
Diethylphthalate	3.6E+02	3.6E+02	1.6E+02	2.8E+02	6.7E+02
Dimethylphenol,2,4-	2.0E+01	2.0E+01	7.6E+00	1.2E+01	NA
Dimethylphthalate	2.8E+03	2.8E+03	1.6E+03	4.3E+03	1.5E+03
Di-n-octylphthalate	2.0E+05	2.0E+05	2.0E+05	2.0E+05	1.0E+04
Dinitrobenzene,1,3-	2.1E-01	7.5E-02	6.4E-02	5.7E-01	5.5E+02
Dinitrophenol,2,4-	3.4E-01	3.4E-01	2.8E-01	2.3E+00	NA
Dinitrotoluene,2,6-	3.9E-01	3.9E-01	3.1E-01	1.8E+00	NA
Dinitrotoluene,2,4-	1.0E+00	1.0E+00	7.9E-01	4.1E+00	NA
Dinoseb	1.2E-01	1.2E-01	1.2E-01	4.4E-01	NA

LDEQ RECAP
WORKSHEET 6
SOILGW and SOILsat
(mg/kg)

Derivation of Management Option 1 & 2 **SoilGW & Soilsat**
Revision Date: 08/04/2003 Run date: 6/28/2011

SoilGW1 = DFsummers*(GW1*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW2 = DFsummers*(GW2*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3NDW =DFsummers* (GW3NDW*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3DW =DFsummers* (GW3DW*(pb*Koc*foc+nw+na*H*41))/(pb)

Soilsat = S*(Koc*foc*pb+nw+H*41*na)/pb

COMPOUND	SoilGW1 (mg/kg)	SoilGW2 (mg/kg)	SoilGW3DW (mg/kg)	SoilGW3NDW (mg/kg)	Soilsat (mg/kg)
Endosulfan	5.4E+01	5.4E+01	5.4E+01	1.6E-01	NA
Endrin	2.6E+00	2.6E+00	3.4E-01	3.4E-01	NA
Ethyl benzene	1.9E+01	1.9E+01	6.6E+01	2.2E+02	2.3E+02
Fluoranthene	1.2E+03	1.2E+03	1.8E+02	1.9E+02	NA
Fluorene	2.3E+02	2.3E+02	6.8E+01	7.2E+01	NA
Heptachlor	5.0E-01	5.0E-01	5.0E-01	5.0E-01	NA
Heptachlor epoxide	2.0E+00	2.0E+00	2.0E+00	2.0E+00	NA
Hexachlorobenzene	9.6E+00	9.6E+00	9.6E+00	9.6E+00	NA
Hexachlorobutadiene	5.5E+00	5.5E+00	5.8E-01	7.1E-01	1.0E+03
Hexachlorocyclohexane,alpha	6.4E-03	2.3E-03	3.8E-04	5.5E-04	NA
Hexachlorocyclohexane,beta	1.6E-02	9.6E-03	1.3E-03	1.7E-03	NA
Hexachlorocyclohexane,gamma	3.3E-02	3.3E-02	1.8E-02	3.3E-02	NA
Hexachlorocyclopentadiene	1.2E+03	1.2E+03	1.2E+03	1.2E+03	2.2E+03
Hexachloroethane	2.2E+00	1.7E-01	2.2E-01	3.8E-01	NA
Indeno(1,2,3-cd)pyrene	9.2E+00	9.2E+00	9.2E+00	9.2E+00	NA
Isobutyl alcohol	3.0E+01	3.0E+01	2.7E+01	4.3E+02	1.2E+04
Isophorone	5.6E-01	5.6E-01	2.7E-01	2.6E+00	4.9E+03
Lead (inorganic)	NA	NA	NA	NA	NA
Mercury (inorganic)	NA	NA	NA	NA	NA
Methoxychlor	3.8E+02	3.8E+02	3.8E+02	3.8E+02	NA
Methylene chloride	1.7E-02	1.7E-02	1.5E-02	2.9E-01	2.2E+03
Methyl ethyl ketone	5.0E+00	5.0E+00	5.2E+01	1.0E+03	2.9E+04
Methyl isobutyl ketone	6.4E+00	6.4E+00	8.3E+00	9.7E+01	3.1E+03

LDEQ RECAP
WORKSHEET 6
SOILGW and SOILsat
(mg/kg)

Derivation of Management Option 1 & 2 **SoilGW & Soilsat**
Revision Date: 08/04/2003 Run date: 6/28/2011

SoilGW1 = DFsummers*(GW1*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW2 = DFsummers*(GW2*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3NDW =DFsummers* (GW3NDW*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3DW =DFsummers* (GW3DW*(pb*Koc*foc+nw+na*H*41))/(pb)

Soilsat = S*(Koc*foc*pb+nw+H*41*na)/pb

COMPOUND	SoilGW1 (mg/kg)	SoilGW2 (mg/kg)	SoilGW3DW (mg/kg)	SoilGW3NDW (mg/kg)	Soilsat (mg/kg)
Methylnaphthalene,2-	1.7E+00	1.7E+00	7.0E+00	7.3E+00	NA
MTBE (methyl tert-butyl ether)	7.7E-02	7.7E-02	7.7E-02	2.1E+03	9.8E+03
Naphthalene	1.5E+00	9.0E-01	2.5E+01	3.2E+01	NA
Nickel	NA	NA	NA	NA	NA
Nitrate	NA	NA	NA	NA	NA
Nitrite	NA	NA	NA	NA	NA
Nitroaniline,2-	2.3E-01	9.5E-04	3.9E-01	2.3E+00	2.8E+02
Nitroaniline,3-	2.3E-01	8.5E-02	4.4E-01	4.3E+00	2.8E+02
Nitroaniline,4-	4.3E-01	4.3E-01	3.7E-01	3.6E+00	1.4E+02
Nitrobenzene	5.7E-02	5.7E-02	2.5E-01	1.6E+00	1.8E+03
Nitrophenol,4-	2.6E+00	2.6E+00	2.1E+00	1.2E+01	5.4E+03
Nitrosodi-n-propylamine,n-	5.3E-02	5.3E-02	5.3E-02	2.4E-04	NA
N-nitrosodiphenylamine	2.1E+00	2.1E+00	3.5E-01	5.1E-01	NA
Pentachlorophenol	1.1E-01	1.1E-01	1.1E-01	1.1E-01	NA
Phenanthrene	6.7E+02	6.7E+02	1.2E+02	1.2E+02	NA
Phenol	1.1E+01	1.1E+01	5.5E+01	4.9E+02	NA
Polychlorinated biphenyls	1.9E+01	1.9E+01	1.9E+01	1.9E+01	5.7E+01
Pyrene	1.1E+03	1.1E+03	1.1E+03	1.1E+03	NA
Selenium	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA
Styrene	1.1E+01	1.1E+01	1.1E+01	8.0E+02	1.7E+03
Tetrachlorobenzene,1,2,4,5-	6.9E+00	6.9E+00	3.4E-01	3.6E-01	1.9E+01
Tetrachloroethane,1,1,1,2-	4.6E-02	3.9E-03	7.7E-03	2.0E-02	5.0E+02

LDEQ RECAP
WORKSHEET 6
SOILGW and SOILsat
(mg/kg)

Derivation of Management Option 1 & 2 **SoilGW & Soilsat**
Revision Date: 08/04/2003 Run date: 6/28/2011

SoilGW1 = DFsummers*(GW1*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW2 = DFsummers*(GW2*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3NDW =DFsummers* (GW3NDW*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3DW =DFsummers* (GW3DW*(pb*Koc*foc+nw+na*H*41))/(pb)

Soilsat = S*(Koc*foc*pb+nw+H*41*na)/pb

COMPOUND	SoilGW1 (mg/kg)	SoilGW2 (mg/kg)	SoilGW3DW (mg/kg)	SoilGW3NDW (mg/kg)	Soilsat (mg/kg)
Tetrachloroethane,1,1,2,2-	6.0E-03	6.5E-04	1.9E-03	2.2E-02	1.8E+03
Tetrachloroethylene	1.8E-01	1.8E-01	2.3E-02	8.9E-02	3.6E+02
Tetrachlorophenol,2,3,4,6-	3.1E+01	3.1E+01	4.2E+00	5.0E+00	1.4E+03
Thallium	NA	NA	NA	NA	NA
Toluene	2.0E+01	2.0E+01	1.2E+02	9.1E+02	5.2E+02
Toxaphene	3.4E+01	3.4E+01	3.4E+01	3.4E+01	NA
Trichlorobenzene,1,2,4-	1.4E+01	1.4E+01	1.4E+01	3.8E+01	NA
Trichloroethane,1,1,1-	4.0E+00	4.0E+00	4.0E+00	1.8E+02	1.3E+03
Trichloroethane,1,1,2-	5.8E-02	5.8E-02	6.5E-03	8.0E-02	2.5E+03
Trichloroethene	7.3E-02	7.3E-02	4.1E-02	3.0E-01	8.0E+02
Trichlorofluoromethane	3.7E+01	3.7E+01	2.0E+02	5.8E+02	1.6E+03
Trichlorophenol,2,4,5-	3.2E+02	3.2E+02	4.7E+01	5.6E+01	NA
Trichlorophenol,2,4,6-	1.3E+00	7.9E-01	8.6E-02	1.1E-01	NA
Vanadium	NA	NA	NA	NA	NA
Vinyl chloride	1.3E-02	1.3E-02	1.3E-02	2.4E-01	9.2E+02
Xylene(mixed)	1.8E+02	1.8E+02	1.8E+02	1.8E+02	1.5E+02
Zinc	NA	NA	NA	NA	NA
Aliphatics C6-C8	1.8E+04	1.8E+04	9.5E+04	2.2E+06	NA
Aliphatics >C8-C10	5.3E+03	5.3E+03	1.3E+04	3.1E+05	NA
Aliphatics >C10-C12	4.2E+04	4.2E+04	1.0E+05	2.4E+06	NA
Aliphatics >C12-C16	8.2E+05	8.2E+05	2.0E+06	4.7E+07	NA
Aliphatics >C16-C35	5.5E+09	5.5E+09	5.1E+09	1.2E+11	NA
Aromatics >C8-C10	6.5E+01	6.5E+01	2.6E+02	6.1E+03	NA

LDEQ RECAP
WORKSHEET 6
SOILGW and SOILsat
(mg/kg)

Derivation of Management Option 1 & 2 **SoilGW & Soilsat**
Revision Date: 08/04/2003 Run date: 6/28/2011

SoilGW1 = DFsummers*(GW1*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW2 = DFsummers*(GW2*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3NDW =DFsummers* (GW3NDW*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3DW =DFsummers* (GW3DW*(pb*Koc*foc+nw+na*H*41))/(pb)

Soilsat = S*(Koc*foc*pb+nw+H*41*na)/pb

COMPOUND	SoilGW1 (mg/kg)	SoilGW2 (mg/kg)	SoilGW3DW (mg/kg)	SoilGW3NDW (mg/kg)	Soilsat (mg/kg)
Aromatics >C10-C12	1.0E+02	1.0E+02	4.1E+02	9.6E+03	NA
Aromatics >C12-C16	2.0E+02	2.0E+02	8.1E+02	1.9E+04	NA
Aromatics >C16-C21	2.1E+03	2.1E+03	1.9E+03	4.5E+04	NA
Aromatics >C21-C35	1.7E+04	1.7E+04	1.5E+04	3.6E+05	NA
TPH-GRO (C6-C10)	6.5E+01	6.5E+01	2.6E+02	6.1E+03	
TPH-DRO (C10-C28)	6.5E+01	6.5E+01	2.6E+02	6.1E+03	
TPH-ORO (>C28)	1.7E+04	1.7E+04	1.5E+04	3.6E+05	

LDEQ REAP
WORKSHEET 15
GWairni
(mg/l)

Volatile releases from groundwater to ambient air-Non-industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-NONINDUSTRIAL						Site-Specific				
volumetric air content in capillary fringe					nacap =	0.015	cm3-air/cm3-soil			
volumetric water content in capillary fringe					nwcap =	0.345	cm3-water/cm3-soil			
total porosity of capillary fringe soil					nc =	0.36	cm3/cm3			
thickness of capillary fringe					hcap =	5	cm			
thickness of vadose zone					hv =	295	cm			
depth to groundwater					Lgw =	300	cm			
wind speed above ground surface in ambient mixing zone					Uair =	225	cm/s			
width of source area parallel to wind					W =	4511	cm			
ambient air mixing zone height					dair =	200	cm			
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairni = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cani C-O = (TR*ATc*365*1000)/(EFni*SFi*IRAadj)										
Cani N-O = (THQ*RfDi*BWa*ATnni*365*1000)/(IRAa*EFni*EDni)										
GWairni = Cani*0.001/VFgwairni										
	Ds	Dcap	Dws	VFgwairni	Cani	Cani	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Acenaphthene	6.24E-04	2.70E-04	6.10E-04	1.30E-06	#VALUE!	2.19E+02	#VALUE!	1.69E+05	1.7E+05	J
Acenaphthylene	6.65E-04	3.60E-04	6.56E-04	1.02E-06	#VALUE!	2.19E+02	#VALUE!	2.14E+05	2.1E+05	J
Acetone	1.99E-03	1.60E-03	1.98E-03	1.05E-06	#VALUE!	3.65E+02	#VALUE!	3.46E+05	3.5E+05	J
Aldrin										
Aniline										
Anthracene	5.65E-04	6.48E-04	5.66E-04	5.04E-07	#VALUE!	1.10E+03	#VALUE!	2.17E+06	2.2E+06	J
Antimony										
Arsenic										
Barium										
Benzene	1.20E-03	1.02E-05	4.07E-04	3.09E-05	1.20E+01		3.88E+02		3.9E+02	K
Benz(a)anthracene										
Benzo(a)pyrene										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Beryllium										
Biphenyl,1,1-	5.77E-04	1.48E-04	5.50E-04	2.26E-06		2.38E+01		1.05E+04	1.1E+04	K
Bis(2-chloroethyl)ether	1.38E-03	2.28E-03	1.39E-03	3.42E-07	3.00E-01		8.76E+02		8.8E+02	K
Bis(2-chloroisopropyl)ether	8.69E-04	3.19E-04	8.45E-04	1.31E-06	1.90E-01	1.46E+02	1.45E+02	1.12E+05	1.4E+02	J
Bis(2-ethyl-hexyl)phthalate										
Bromodichloromethane	4.12E-04	3.62E-05	3.51E-04	7.69E-06	1.07E-01	7.30E+01	1.39E+01	9.49E+03	1.4E+01	J
Bromoform	2.23E-04	1.05E-04	2.18E-04	1.60E-06	1.72E+00	7.30E+01	1.08E+03	4.56E+04	1.1E+03	J
Bromomethane	9.90E-04	1.11E-05	4.01E-04	3.40E-05	#VALUE!	5.22E+00	#VALUE!	1.53E+02	1.5E+02	J
Butyl benzyl phthalate										
Cadmium										
Carbon Disulfide	1.41E-03	2.47E-06	1.34E-04	5.58E-05		7.14E+01		1.28E+03	1.3E+03	K
Carbon Tetrachloride	1.06E-03	2.08E-06	1.12E-04	4.66E-05	6.67E+00		1.43E+02		1.4E+02	K
Chlordane										
Chloroaniline,p-										
Chlorobenzene	9.94E-04	1.33E-05	4.45E-04	2.26E-05		1.10E+03		4.87E+04	4.9E+04	K
Chlorodibromomethane	2.80E-04	7.31E-05	2.68E-04	2.87E-06	7.90E-02	7.30E+01	2.75E+01	2.54E+04	2.8E+01	J
Chloroethane (Ethylchloride)	3.68E-03	8.87E-06	4.66E-04	5.62E-05		6.29E+04		1.12E+06	1.1E+06	K
Chloroform	1.41E-03	1.55E-05	5.65E-04	2.84E-05	4.30E+00		1.51E+02		1.5E+02	K
Chloromethane	1.71E-03	4.84E-06	2.49E-04	3.00E-05	5.56E+01		1.85E+03		1.9E+03	K

LDEQ REAP
WORKSHEET 15
GWairni
(mg/l)

Volatile releases from groundwater to ambient air-Non-industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-NONINDUSTRIAL						Site-Specific				
volumetric air content in capillary fringe					nacap =	0.016	cm3-air/cm3-soil			
volumetric water content in capillary fringe					nwcap =	0.345	cm3-water/cm3-soil			
total porosity of capillary fringe soil					nc =	0.36	cm3/cm3			
thickness of capillary fringe					hcap =	5	cm			
thickness of vadose zone					hv =	295	cm			
depth to groundwater					Lgw =	300	cm			
wind speed above ground surface in ambient mixing zone					Uair =	225	cm/s			
width of source area parallel to wind					W =	4511	cm			
ambient air mixing zone height					dair =	200	cm			
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairni = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cani C-O = (TR*ATc*365*1000)/(EFni*SFi*IRAadj)										
Cani N-O = (THQ*RfDi*BWa*ATnni*365*1000)/(IRAa*EFni*EDni)										
GWairni = Cani*0.001/VFgwairni										
	Ds	Dcap	Dws	VFgwairni	Cani	Cani	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Chloronaphthalene,2-	5.01E-04	1.55E-04	4.83E-04	2.05E-06	#VALUE!	2.92E+02	#VALUE!	1.42E+05	1.4E+05	J
Chlorophenol,2-	7.06E-04	1.32E-04	6.58E-04	3.52E-06	#VALUE!	1.83E+01	#VALUE!	5.18E+03	5.2E+03	J
Chromium(III)										
Chromium(VI)										
Chrysene										
Cobalt										
Copper										
Cyanide (free)										
DDD										
DDE										
DDT										
Dibenz(a,h)anthracene										
Dibenzofuran	8.47E-04	2.51E-03	8.57E-04	1.53E-07	#VALUE!	1.46E+01	#VALUE!	9.57E+04	9.6E+04	J
Dibromo-3-chloropropane,1,2-										
Dichlorobenzene,1,2-	9.41E-04	2.31E-05	5.66E-04	1.47E-05	#VALUE!	2.08E+02	#VALUE!	1.41E+04	1.4E+04	J
Dichlorobenzene,1,3-	8.74E-04	1.21E-05	4.00E-04	1.81E-05	#VALUE!	3.29E+00	#VALUE!	1.82E+02	1.8E+02	J
Dichlorobenzene,1,4-	9.40E-04	1.81E-05	5.09E-04	1.69E-05		1.43E+03		8.44E+04	8.4E+04	K
Dichlorobenzidine,3,3-										
Dichloroethane,1,1-	1.01E-03	1.06E-05	3.94E-04	3.03E-05	#VALUE!	5.22E+02	#VALUE!	1.72E+04	1.7E+04	J
Dichloroethane,1,2-	1.42E-03	5.57E-05	1.01E-03	1.35E-05	3.85E+00		2.84E+02		2.8E+02	K
Dichloroethene,1,1-	1.22E-03	2.75E-06	1.46E-04	5.21E-05	#VALUE!	2.08E+02	#VALUE!	3.99E+03	4.0E+03	J
Dichloroethene,cis,1,2-	1.00E-03	1.55E-05	4.87E-04	2.72E-05	#VALUE!	3.65E+01	#VALUE!	1.34E+03	1.3E+03	J
Dichloroethene,trans,1,2-	9.61E-04	7.36E-06	3.04E-04	3.91E-05	#VALUE!	7.30E+01	#VALUE!	1.87E+03	1.9E+03	J
Dichlorophenol,2,4-										
Dichloropropane,1,2-	1.06E-03	1.75E-05	5.33E-04	2.04E-05		8.26E+03		4.04E+05	4.0E+05	K
Dichloropropene,1,3-	8.56E-04	3.11E-05	5.94E-04	1.44E-05		1.07E+02		7.43E+03	7.4E+03	K
Dieldrin										
Diethylphthalate										
Dimethylphenol,2,4-										
Dimethylphthalate										
Di-n-octylphthalate										
Dinitrobenzene,1,3-										
Dinitrophenol,2,4-										

LDEQ REAP
WORKSHEET 15
GWairni
(mg/l)

Volatile releases from groundwater to ambient air-Non-industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-NONINDUSTRIAL						Site-Specific				
volumetric air content in capillary fringe					nacap =	0.015	cm3-air/cm3-soil			
volumetric water content in capillary fringe					nwcap =	0.345	cm3-water/cm3-soil			
total porosity of capillary fringe soil					nc =	0.36	cm3/cm3			
thickness of capillary fringe					hcap =	5	cm			
thickness of vadose zone					hv =	295	cm			
depth to groundwater					Lgw =	300	cm			
wind speed above ground surface in ambient mixing zone					Uair =	225	cm/s			
width of source area parallel to wind					W =	4511	cm			
ambient air mixing zone height					dair =	200	cm			
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairni = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cani C-O = (TR*ATc*365*1000)/(EFni*SFi*IRAadj)										
Cani N-O = (THQ*RfDi*BWa*ATnni*365*1000)/(IRAa*EFni*EDni)										
GWairni = Cani*0.001/VFgwairni										
	Ds	Dcap	Dws	VFgwairni	Cani	Cani	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Dinitrotoluene,2,6-										
Dinitrotoluene,2,4-										
Dinoseb										
Endosulfan										
Endrin										
Ethyl benzene	1.02E-03	5.87E-06	2.63E-04	2.84E-05		1.03E+04		3.63E+05	3.6E+05	K
Fluoranthene										
Fluorene	6.23E-04	6.74E-04	6.24E-04	5.43E-07	#VALUE!	1.46E+02	#VALUE!	2.69E+05	2.7E+05	J
Heptachlor										
Heptachlor epoxide										
Hexachlorobenzene	7.41E-04	2.47E-05	4.99E-04	9.03E-06	2.00E-01		2.21E+01		2.2E+01	K
Hexachlorobutadiene										
Hexachlorocyclohexane,alpha										
Hexachlorocyclohexane,beta										
Hexachlorocyclohexane,gamma										
Hexachlorocyclopentadiene	2.19E-04	1.56E-06	6.58E-05	2.43E-05	#VALUE!	2.08E-01	#VALUE!	8.55E+00	8.5E+00	J
Hexachloroethane	3.58E-05	9.52E-06	3.42E-05	1.82E-06	2.50E+01		1.37E+04		1.4E+04	K
Indeno(1,2,3-cd)pyrene										
Isobutyl alcohol										
Isophorone										
Lead (inorganic)										
Mercury (inorganic)										
Methoxychlor										
Methylene chloride	1.38E-03	2.97E-05	7.84E-04	2.35E-05	2.13E+02		9.04E+03		9.0E+03	K
Methyl ethyl ketone	1.28E-03	9.52E-04	1.27E-03	9.77E-07		1.40E+04		1.43E+07	1.4E+07	K
Methyl isobutyl ketone	1.08E-03	3.04E-04	1.03E-03	1.98E-06		4.88E+03		2.46E+06	2.5E+06	K
Methylnaphthalene,2-	7.94E-04	7.36E-04	7.93E-04	6.30E-07	#VALUE!	3.14E+00	#VALUE!	4.98E+03	5.0E+03	J
MTBE (methyl tert-butyl ether)	1.40E-03	9.80E-05	1.15E-03	9.24E-06	#VALUE!	3.13E+03	#VALUE!	3.39E+05	3.4E+05	J
Naphthalene	8.17E-04	8.48E-05	7.15E-04	4.73E-06	#VALUE!	3.14E+00	#VALUE!	6.64E+02	6.6E+02	J
Nickel										
Nitrate										
Nitrite										
Nitroaniline,2-	9.76E-04	4.15E-04	9.54E-04	1.27E-06	#VALUE!	1.06E-01	#VALUE!	8.33E+01	8.3E+01	J

LDEQ REAP
WORKSHEET 15
GWairni
(mg/l)

Volatile releases from groundwater to ambient air-Non-industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-NONINDUSTRIAL						Site-Specific				
volumetric air content in capillary fringe					nacap =	0.016	cm3-air/cm3-soil			
volumetric water content in capillary fringe					nwcap =	0.345	cm3-water/cm3-soil			
total porosity of capillary fringe soil					nc =	0.36	cm3/cm3			
thickness of capillary fringe					hcap =	5	cm			
thickness of vadose zone					hv =	295	cm			
depth to groundwater					Lgw =	300	cm			
wind speed above ground surface in ambient mixing zone					Uair =	225	cm/s			
width of source area parallel to wind					W =	4511	cm			
ambient air mixing zone height					dair =	200	cm			
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairni = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cani C-O = (TR*ATc*365*1000)/(EFni*SFi*IRAadj)										
Cani N-O = (THQ*RfDi*BWa*ATnni*365*1000)/(IRAa*EFni*EDni)										
GWairni = Cani*0.001/VFgwairni										
	Ds	Dcap	Dws	VFgwairni	Cani	Cani	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Nitroaniline,3-	5.38E-02	2.74E-01	5.45E-02	1.10E-07	#VALUE!	1.10E+01	#VALUE!	9.98E+04	1.0E+05	J
Nitroaniline,4-										
Nitrobenzene	1.41E-03	1.95E-03	1.41E-03	4.65E-07		1.19E+02		2.56E+05	2.6E+05	K
Nitrophenol,4-										
Nitrosodi-n-propylamine,n-										
N-nitrosodiphenylamine										
Pentachlorophenol										
Phenanthrene	7.89E-04	1.81E-03	7.96E-04	2.54E-07	#VALUE!	1.10E+03	#VALUE!	4.31E+06	4.3E+06	J
Phenol	2.52E-02	1.25E-01	2.55E-02	1.39E-07	#VALUE!	1.10E+03	#VALUE!	7.89E+06	7.9E+06	J
Polychlorinated biphenyls										
Pyrene	1.06E-03	3.58E-03	1.07E-03	1.62E-07	#VALUE!	1.10E+02	#VALUE!	6.77E+05	6.8E+05	J
Selenium										
Silver										
Styrene	9.67E-04	1.63E-05	4.90E-04	1.85E-05		1.00E+03		5.42E+04	5.4E+04	K
Tetrachlorobenzene,1,2,4,5-										
Tetrachloroethane,1,1,1,2-	8.18E-04	1.56E-05	4.40E-04	1.45E-05	1.00E-01		6.91E+00		6.9E+00	K
Tetrachloroethane,1,1,2,2-	9.88E-04	1.25E-04	8.86E-04	4.19E-06	1.70E+00		4.06E+02		4.1E+02	K
Tetrachloroethylene	9.78E-04	2.89E-06	1.48E-04	3.73E-05	1.10E+02		2.95E+03		3.0E+03	K
Tetrachlorophenol,2,3,4,6-										
Thallium										
Toluene	1.18E-03	7.61E-06	3.31E-04	3.01E-05		4.00E+02		1.33E+04	1.3E+04	K
Toxaphene										
Trichlorobenzene,1,2,4-	4.13E-04	3.17E-05	3.44E-04	6.70E-06	#VALUE!	2.08E+02	#VALUE!	3.11E+04	3.1E+04	J
Trichloroethane,1,1,1-	1.06E-03	3.29E-06	1.67E-04	3.93E-05	#VALUE!	1.04E+03	#VALUE!	2.65E+04	2.7E+04	J
Trichloroethane,1,1,2-	1.07E-03	5.29E-05	8.10E-04	1.01E-05	6.30E+00		6.22E+02		6.2E+02	K
Trichloroethene	1.07E-03	5.32E-06	2.47E-04	3.49E-05	5.90E+01		1.69E+03		1.7E+03	K
Trichlorofluoromethane	1.18E-03	1.11E-06	6.31E-05	8.39E-05	#VALUE!	7.30E+02	#VALUE!	8.70E+03	8.7E+03	J
Trichlorophenol,2,4,5-										
Trichlorophenol,2,4,6-										
Vanadium										
Vinyl chloride	1.44E-03	9.38E-07	5.42E-05	2.01E-05	1.20E+00		5.98E+01		6.0E+01	K
Xylene(mixed)	9.51E-04	6.04E-06	2.64E-04	2.74E-05	#VALUE!	1.06E+02	#VALUE!	3.86E+03	3.9E+03	J
Zinc										

LDEQ REAP
WORKSHEET 15
GWairni
(mg/l)

Volatile releases from groundwater to ambient air-Non-industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-NONINDUSTRIAL						Site-Specific				
volumetric air content in capillary fringe					nacap =	0.015	cm3-air/cm3-soil			
volumetric water content in capillary fringe					nwcap =	0.345	cm3-water/cm3-soil			
total porosity of capillary fringe soil					nc =	0.36	cm3/cm3			
thickness of capillary fringe					hcap =	5	cm			
thickness of vadose zone					hv =	295	cm			
depth to groundwater					Lgw =	300	cm			
wind speed above ground surface in ambient mixing zone					Uair =	225	cm/s			
width of source area parallel to wind					W =	4511	cm			
ambient air mixing zone height					dair =	200	cm			
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairni = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cani C-O = (TR*ATc*365*1000)/(EFni*SFi*IRAadj)										
Cani N-O = (THQ*RfDi*BWa*ATnni*365*1000)/(IRAa*EFni*EDni)										
GWairni = Cani*0.001/VFgwairni										
	Ds	Dcap	Dws	VFgwairni	Cani	Cani	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Aliphatics C6-C8	1.36E-03	6.96E-07	4.05E-05	6.77E-04		1.93E+04		2.86E+04	2.9E+04	J
Aliphatics >C8-C10	1.36E-03	6.79E-07	3.96E-05	1.06E-03		1.06E+03		1.00E+03	1.0E+03	J
Aliphatics >C10-C12	1.36E-03	6.70E-07	3.91E-05	1.57E-03		1.10E+03		6.98E+02	7.0E+02	J
Aliphatics >C12-C16	1.36E-03	6.56E-07	3.82E-05	6.65E-03		1.10E+03		1.65E+02	1.6E+02	J
Aliphatics >C16-C35										
Aromatics >C8-C10	1.36E-03	5.30E-06	2.59E-04	4.14E-05		2.19E+02		5.29E+03	5.3E+03	J
Aromatics >C10-C12	1.36E-03	1.66E-05	5.79E-04	2.71E-05		2.19E+02		8.09E+03	8.1E+03	J
Aromatics >C12-C16	1.37E-03	4.28E-05	9.02E-04	1.59E-05		2.19E+02		1.37E+04	1.4E+04	J
Aromatics >C16-C21										
Aromatics >C21-C35										
TPH-GRO (C6-C10)						2.19E+02			1.0E+03	
TPH-DRO (C10-C28)										
TPH-ORO (>C28)										
J - Risk-based value calculated with one of the equations EQ 56 thru 59.										
K - Louisiana Toxic Air Pollutant Ambient Air Standards (LAC 33:III.5112 Table 51.2).										

LDEQ RECAP
WORKSHEET 16
GWairi
(mg/l)

Volatile releases from groundwater to ambient air-Industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-INDUSTRIAL					Site-Specific					
volumetric air content in capillary fringe				nacap =	0.015	cm3-air/cm3-soil				
volumetric water content in capillary fringe				nwcap =	0.345	cm3-water/cm3-soil				
total porosity of capillary fringe soil				nc =	0.36	cm3/cm3				
thickness of capillary fringe				hcap =	5	cm				
thickness of vadose zone				hv =	295	cm				
depth to groundwater				Lgw =	300	cm				
wind speed above ground surface in ambient mixing zone				Uair =	225	cm/s				
width of source area parallel to wind				W =	4511	cm				
ambient air mixing zone height				dair =	200	cm				
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairi = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cai C-O = (TR*BWa*ATc*365*1000)/(SFi*IRAa*EFi*EDi)										
Cai N-O = (THQ*RfDi*BWa*ATni*365*1000)/(IRAa*EFi*EDi)										
GWairi = Cai*0.001/VFgwairi										
	Ds	Dcap	Dws	VFgwairi	Cai	Cai	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Acenaphthene	6.24E-04	2.70E-04	6.10E-04	1.30E-06	#VALUE!	3.07E+02	#VALUE!	2.37E+05	2.4E+05	J
Acenaphthylene	6.65E-04	3.60E-04	6.56E-04	1.02E-06	#VALUE!	3.07E+02	#VALUE!	2.99E+05	3.0E+05	J
Acetone	1.99E-03	1.60E-03	1.98E-03	1.05E-06	#VALUE!	5.11E+02	#VALUE!	4.85E+05	4.8E+05	J
Aldrin										
Aniline										
Anthracene	5.65E-04	6.48E-04	5.66E-04	5.04E-07	#VALUE!	1.53E+03	#VALUE!	3.04E+06	3.0E+06	J
Antimony										
Arsenic										
Barium										
Benzene	1.20E-03	1.02E-05	4.07E-04	3.09E-05	1.20E+01		3.88E+02		3.9E+02	K
Benz(a)anthracene										
Benzo(a)pyrene										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Beryllium										
Biphenyl,1,1-	5.77E-04	1.48E-04	5.50E-04	2.26E-06		2.38E+01		1.05E+04	1.1E+04	K
Bis(2-chloroethyl)ether	1.38E-03	2.28E-03	1.39E-03	3.42E-07	3.00E-01		8.76E+02		8.8E+02	K
Bis(2-chloroisopropyl)ether	8.69E-04	3.19E-04	8.45E-04	1.31E-06	4.09E-01	2.04E+02	3.12E+02	1.56E+05	3.1E+02	J
Bis(2-ethyl-hexyl)phthalate										
Bromodichloromethane	4.12E-04	3.62E-05	3.51E-04	7.69E-06	2.31E-01	1.02E+02	3.00E+01	1.33E+04	3.0E+01	J
Bromoform	2.23E-04	1.05E-04	2.18E-04	1.60E-06	3.72E+00	1.02E+02	2.32E+03	6.38E+04	2.3E+03	J
Bromomethane	9.90E-04	1.11E-05	4.01E-04	3.40E-05	#VALUE!	7.31E+00	#VALUE!	2.15E+02	2.1E+02	J
Butyl benzyl phthalate										
Cadmium										
Carbon Disulfide	1.41E-03	2.47E-06	1.34E-04	5.58E-05		7.14E+01		1.28E+03	1.3E+03	K
Carbon Tetrachloride	1.06E-03	2.08E-06	1.12E-04	4.66E-05	6.67E+00		1.43E+02		1.4E+02	K
Chlordane										
Chloroaniline,p-										
Chlorobenzene	9.94E-04	1.33E-05	4.45E-04	2.26E-05		1.10E+03		4.87E+04	4.9E+04	K
Chlorodibromomethane	2.80E-04	7.31E-05	2.68E-04	2.87E-06	1.70E-01	1.02E+02	5.93E+01	3.56E+04	5.9E+01	J
Chloroethane (Ethylchloride)	3.68E-03	8.87E-06	4.66E-04	5.62E-05		6.29E+04		1.12E+06	1.1E+06	K
Chloroform	1.41E-03	1.55E-05	5.65E-04	2.84E-05	4.30E+00		1.51E+02		1.5E+02	K
Chloromethane	1.71E-03	4.84E-06	2.49E-04	3.00E-05	5.56E+01		1.85E+03		1.9E+03	K

LDEQ RECAP
WORKSHEET 16
GWairi
(mg/l)

Volatile releases from groundwater to ambient air-Industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-INDUSTRIAL					Site-Specific					
volumetric air content in capillary fringe				nacap =	0.015	cm3-air/cm3-soil				
volumetric water content in capillary fringe				nwcap =	0.345	cm3-water/cm3-soil				
total porosity of capillary fringe soil				nc =	0.36	cm3/cm3				
thickness of capillary fringe				hcap =	5	cm				
thickness of vadose zone				hv =	295	cm				
depth to groundwater				Lgw =	300	cm				
wind speed above ground surface in ambient mixing zone				Uair =	225	cm/s				
width of source area parallel to wind				W =	4511	cm				
ambient air mixing zone height				dair =	200	cm				
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairi = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cai C-O = (TR*BWa*ATc*365*1000)/(SFi*IRAa*EFi*EDi)										
Cai N-O = (THQ*RfDi*BWa*ATni*365*1000)/(IRAa*EFi*EDi)										
GWairi = Cai*0.001/VFgwairi										
	Ds	Dcap	Dws	VFgwairi	Cai	Cai	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Chloronaphthalene,2-	5.01E-04	1.55E-04	4.83E-04	2.05E-06	#VALUE!	4.09E+02	#VALUE!	1.99E+05	2.0E+05	J
Chlorophenol,2-	7.06E-04	1.32E-04	6.58E-04	3.52E-06	#VALUE!	2.56E+01	#VALUE!	7.25E+03	7.2E+03	J
Chromium(III)										
Chromium(VI)										
Chrysene										
Cobalt										
Copper										
Cyanide (free)										
DDD										
DDE										
DDT										
Dibenz(a,h)anthracene										
Dibenzofuran	8.47E-04	2.51E-03	8.57E-04	1.53E-07	#VALUE!	2.04E+01	#VALUE!	1.34E+05	1.3E+05	J
Dibromo-3-chloropropane,1,2-										
Dichlorobenzene,1,2-	9.41E-04	2.31E-05	5.66E-04	1.47E-05	#VALUE!	2.91E+02	#VALUE!	1.98E+04	2.0E+04	J
Dichlorobenzene,1,3-	8.74E-04	1.21E-05	4.00E-04	1.81E-05	#VALUE!	4.60E+00	#VALUE!	2.54E+02	2.5E+02	J
Dichlorobenzene,1,4-	9.40E-04	1.81E-05	5.09E-04	1.69E-05		1.43E+03		8.44E+04	8.4E+04	K
Dichlorobenzidine,3,3-										
Dichloroethane,1,1-	1.01E-03	1.06E-05	3.94E-04	3.03E-05	#VALUE!	7.31E+02	#VALUE!	2.41E+04	2.4E+04	J
Dichloroethane,1,2-	1.42E-03	5.57E-05	1.01E-03	1.35E-05	3.85E+00		2.84E+02		2.8E+02	K
Dichloroethene,1,1-	1.22E-03	2.75E-06	1.46E-04	5.21E-05	#VALUE!	2.91E+02	#VALUE!	5.59E+03	5.6E+03	J
Dichloroethene,cis,1,2-	1.00E-03	1.55E-05	4.87E-04	2.72E-05	#VALUE!	5.11E+01	#VALUE!	1.88E+03	1.9E+03	J
Dichloroethene,trans,1,2-	9.61E-04	7.36E-06	3.04E-04	3.91E-05	#VALUE!	1.02E+02	#VALUE!	2.61E+03	2.6E+03	J
Dichlorophenol,2,4-										
Dichloropropane,1,2-	1.06E-03	1.75E-05	5.33E-04	2.04E-05		8.26E+03		4.04E+05	4.0E+05	K
Dichloropropene,1,3-	8.56E-04	3.11E-05	5.94E-04	1.44E-05		1.07E+02		7.43E+03	7.4E+03	K
Dieldrin										
Diethylphthalate										
Dimethylphenol,2,4-										
Dimethylphthalate										
Di-n-octylphthalate										
Dinitrobenzene,1,3-										
Dinitrophenol,2,4-										

LDEQ RECAP
WORKSHEET 16
GWairi
(mg/l)

Volatile releases from groundwater to ambient air-Industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-INDUSTRIAL					Site-Specific					
volumetric air content in capillary fringe				nacap =	0.015	cm3-air/cm3-soil				
volumetric water content in capillary fringe				nwcap =	0.345	cm3-water/cm3-soil				
total porosity of capillary fringe soil				nc =	0.36	cm3/cm3				
thickness of capillary fringe				hcap =	5	cm				
thickness of vadose zone				hv =	295	cm				
depth to groundwater				Lgw =	300	cm				
wind speed above ground surface in ambient mixing zone				Uair =	225	cm/s				
width of source area parallel to wind				W =	4511	cm				
ambient air mixing zone height				dair =	200	cm				
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairi = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cai C-O = (TR*BWa*ATc*365*1000)/(SFi*IRAa*EFi*EDi)										
Cai N-O = (THQ*RfDi*BWa*ATni*365*1000)/(IRAa*EFi*EDi)										
GWairi = Cai*0.001/VFgwairi										
	Ds	Dcap	Dws	VFgwairi	Cai	Cai	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Dinitrotoluene,2,6-										
Dinitrotoluene,2,4-										
Dinoseb										
Endosulfan										
Endrin										
Ethyl benzene	1.02E-03	5.87E-06	2.63E-04	2.84E-05		1.03E+04		3.63E+05	3.6E+05	K
Fluoranthene										
Fluorene	6.23E-04	6.74E-04	6.24E-04	5.43E-07	#VALUE!	2.04E+02	#VALUE!	3.76E+05	3.8E+05	J
Heptachlor										
Heptachlor epoxide										
Hexachlorobenzene	7.41E-04	2.47E-05	4.99E-04	9.03E-06	2.00E-01		2.21E+01		2.2E+01	K
Hexachlorobutadiene										
Hexachlorocyclohexane,alpha										
Hexachlorocyclohexane,beta										
Hexachlorocyclohexane,gamma										
Hexachlorocyclopentadiene	2.19E-04	1.56E-06	6.58E-05	2.43E-05	#VALUE!	2.91E-01	#VALUE!	1.20E+01	1.2E+01	J
Hexachloroethane	3.58E-05	9.52E-06	3.42E-05	1.82E-06	2.50E+01		1.37E+04		1.4E+04	K
Indeno(1,2,3-cd)pyrene										
Isobutyl alcohol										
Isophorone										
Lead (inorganic)										
Mercury (inorganic)										
Methoxychlor										
Methylene chloride	1.38E-03	2.97E-05	7.84E-04	2.35E-05	2.13E+02		9.04E+03		9.0E+03	K
Methyl ethyl ketone	1.28E-03	9.52E-04	1.27E-03	9.77E-07		1.40E+04		1.43E+07	1.4E+07	K
Methyl isobutyl ketone	1.08E-03	3.04E-04	1.03E-03	1.98E-06		4.88E+03		2.46E+06	2.5E+06	K
Methylnaphthalene,2-	7.94E-04	7.36E-04	7.93E-04	6.30E-07	#VALUE!	4.39E+00	#VALUE!	6.98E+03	7.0E+03	J
MTBE (methyl tert-butyl ether)	1.40E-03	9.80E-05	1.15E-03	9.24E-06	#VALUE!	4.38E+03	#VALUE!	4.74E+05	4.7E+05	J
Naphthalene	8.17E-04	8.48E-05	7.15E-04	4.73E-06	#VALUE!	4.39E+00	#VALUE!	9.29E+02	9.3E+02	J
Nickel										
Nitrate										
Nitrite										
Nitroaniline,2-	9.76E-04	4.15E-04	9.54E-04	1.27E-06	#VALUE!	1.48E-01	#VALUE!	1.17E+02	1.2E+02	J

LDEQ RECAP
WORKSHEET 16
GWairi
(mg/l)

Volatile releases from groundwater to ambient air-Industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-INDUSTRIAL					Site-Specific					
volumetric air content in capillary fringe				nacap =	0.015	cm3-air/cm3-soil				
volumetric water content in capillary fringe				nwcap =	0.345	cm3-water/cm3-soil				
total porosity of capillary fringe soil				nc =	0.36	cm3/cm3				
thickness of capillary fringe				hcap =	5	cm				
thickness of vadose zone				hv =	295	cm				
depth to groundwater				Lgw =	300	cm				
wind speed above ground surface in ambient mixing zone				Uair =	225	cm/s				
width of source area parallel to wind				W =	4511	cm				
ambient air mixing zone height				dair =	200	cm				
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairi = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cai C-O = (TR*BWa*ATc*365*1000)/(SFi*IRAa*EFi*EDi)										
Cai N-O = (THQ*RfDi*BWa*ATni*365*1000)/(IRAa*EFi*EDi)										
GWairi = Cai*0.001/VFgwairi										
	Ds	Dcap	Dws	VFgwairi	Cai	Cai	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Nitroaniline,3-	5.38E-02	2.74E-01	5.45E-02	1.10E-07	#VALUE!	1.53E+01	#VALUE!	1.40E+05	1.4E+05	J
Nitroaniline,4-										
Nitrobenzene	1.41E-03	1.95E-03	1.41E-03	4.65E-07		1.19E+02		2.56E+05	2.6E+05	K
Nitrophenol,4-										
Nitrosodi-n-propylamine,n-										
N-nitrosodiphenylamine										
Pentachlorophenol										
Phenanthrene	7.89E-04	1.81E-03	7.96E-04	2.54E-07	#VALUE!	1.53E+03	#VALUE!	6.03E+06	6.0E+06	J
Phenol	2.52E-02	1.25E-01	2.55E-02	1.39E-07	#VALUE!	1.53E+03	#VALUE!	1.10E+07	1.1E+07	J
Polychlorinated biphenyls										
Pyrene	1.06E-03	3.58E-03	1.07E-03	1.62E-07	#VALUE!	1.53E+02	#VALUE!	9.48E+05	9.5E+05	J
Selenium										
Silver										
Styrene	9.67E-04	1.63E-05	4.90E-04	1.85E-05		1.00E+03		5.42E+04	5.4E+04	K
Tetrachlorobenzene,1,2,4,5-										
Tetrachloroethane,1,1,1,2-	8.18E-04	1.56E-05	4.40E-04	1.45E-05	1.00E-01		6.91E+00		6.9E+00	K
Tetrachloroethane,1,1,2,2-	9.88E-04	1.25E-04	8.86E-04	4.19E-06	1.70E+00		4.06E+02		4.1E+02	K
Tetrachloroethylene	9.78E-04	2.89E-06	1.48E-04	3.73E-05	1.10E+02		2.95E+03		3.0E+03	K
Tetrachlorophenol,2,3,4,6-										
Thallium										
Toluene	1.18E-03	7.61E-06	3.31E-04	3.01E-05		4.00E+02		1.33E+04	1.3E+04	K
Toxaphene										
Trichlorobenzene,1,2,4-	4.13E-04	3.17E-05	3.44E-04	6.70E-06	#VALUE!	2.91E+02	#VALUE!	4.35E+04	4.3E+04	J
Trichloroethane,1,1,1-	1.06E-03	3.29E-06	1.67E-04	3.93E-05	#VALUE!	1.46E+03	#VALUE!	3.72E+04	3.7E+04	J
Trichloroethane,1,1,2-	1.07E-03	5.29E-05	8.10E-04	1.01E-05	6.30E+00		6.22E+02		6.2E+02	K
Trichloroethene	1.07E-03	5.32E-06	2.47E-04	3.49E-05	5.90E+01		1.69E+03		1.7E+03	K
Trichlorofluoromethane	1.18E-03	1.11E-06	6.31E-05	8.39E-05	#VALUE!	1.02E+03	#VALUE!	1.22E+04	1.2E+04	J
Trichlorophenol,2,4,5-										
Trichlorophenol,2,4,6-										
Vanadium										
Vinyl chloride	1.44E-03	9.38E-07	5.42E-05	2.01E-05	1.20E+00		5.98E+01		6.0E+01	K
Xylene(mixed)	9.51E-04	6.04E-06	2.64E-04	2.74E-05	#VALUE!	1.48E+02	#VALUE!	5.40E+03	5.4E+03	J
Zinc										

LDEQ RECAP
WORKSHEET 16
GWairi
(mg/l)

Volatile releases from groundwater to ambient air-Industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-INDUSTRIAL					Site-Specific					
volumetric air content in capillary fringe				nacap =	0.015	cm3-air/cm3-soil				
volumetric water content in capillary fringe				nwcap =	0.345	cm3-water/cm3-soil				
total porosity of capillary fringe soil				nc =	0.36	cm3/cm3				
thickness of capillary fringe				hcap =	5	cm				
thickness of vadose zone				hv =	295	cm				
depth to groundwater				Lgw =	300	cm				
wind speed above ground surface in ambient mixing zone				Uair =	225	cm/s				
width of source area parallel to wind				W =	4511	cm				
ambient air mixing zone height				dair =	200	cm				
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairi = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cai C-O = (TR*BWa*ATc*365*1000)/(SFi*IRAa*EFi*EDi)										
Cai N-O = (THQ*RfDi*BWa*ATni*365*1000)/(IRAa*EFi*EDi)										
GWairi = Cai*0.001/VFgwairi										
	Ds	Dcap	Dws	VFgwairi	Cai	Cai	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Aliphatics C6-C8	1.36E-03	6.96E-07	4.05E-05	6.77E-04		1.93E+04		2.86E+04	2.9E+04	J
Aliphatics >C8-C10	1.36E-03	6.79E-07	3.96E-05	1.06E-03		1.06E+03		1.00E+03	1.0E+03	J
Aliphatics >C10-C12	1.36E-03	6.70E-07	3.91E-05	1.57E-03		1.10E+03		6.98E+02	7.0E+02	J
Aliphatics >C12-C16	1.36E-03	6.56E-07	3.82E-05	6.65E-03		1.10E+03		1.65E+02	1.6E+02	J
Aliphatics >C16-C35										
Aromatics >C8-C10	1.36E-03	5.30E-06	2.59E-04	4.14E-05		2.19E+02		5.29E+03	5.3E+03	J
Aromatics >C10-C12	1.36E-03	1.66E-05	5.79E-04	2.71E-05		2.19E+02		8.09E+03	8.1E+03	J
Aromatics >C12-C16	1.37E-03	4.28E-05	9.02E-04	1.59E-05		2.19E+02		1.37E+04	1.4E+04	J
Aromatics >C16-C21										
Aromatics >C21-C35										
TPH-GRO (C6-C10)						2.19E+02			1.0E+03	
TPH-DRO (C10-C28)										
TPH-ORO (>C28)										
J - Risk-based value calculated with one of the equations EQ 56 thru 59.										
K - Louisiana Toxic Air Pollutant Ambient Air Standards (LAC 33:III.5112 Table 51.2).										

APPENDIX E

ECOLOGICAL CHECKLIST – RECAP FORM 18

RECAP FORM 18
ECOLOGICAL CHECKLIST

Section 1 - Facility Information

1. Name of facility: Former Shell Retail Station No. 142059

2. Location of facility: 2300 S. Acadian Thruway
   Baton Rouge, LA

   Parish: East Baton Rouge Parish

3. Mailing address: P.O. Box 1087
   Huffman, TX 77336

4. Type of facility and/or operations associated with AOC: Gasoline Retail Facility

5. Name of AOC or AOI: AOI-1

6. If available, attach a USGS topographic map of the facility and/or aerial or other photographs of the release site and surrounding areas. See Figures 1 and 2, Appendix A

Section 2 - Land Use Information

1. Describe land use at and in the vicinity of the AOC/AOI: Currently the site is an active retail gasoline facility operated by Circle K. The area immediately surrounding the site consists of commercial to the south and east with residential on the north and west.

2. Describe land use adjacent to the facility: Land use surrounding the facility is primarily commercial and residential.

3. Provide the following information regarding the nearest surface water body which has been impacted or has the potential to be impacted by COC migrating from the AOC/AOC:

a) Name of the surface water body: Dawson Creek

b) Type of surface water body:

   [ ] freshwater river or stream
   [ ] freshwater swamp/marsh/wetland
   [ ] saltwater or brackish swamp/marsh/wetland
   [ ] lake or pond
   [ ] bayou or estuary
   [X] drainage ditch
   [ ] other:

c) Designated use of the segment/subsegment of the surface water body (LAC 33:IX): (041302) Primary and Secondary Contact Recreation and Propogation of Fish and Wildlife

d) Distance from the AOC/AOI to nearest surface water body: 115 feet

4. Do any potentially sensitive environmental areas exist adjacent to or in proximity to the site, e.g., federal and state parks, national and state monuments, wetlands, etc? [ ] Yes [X] No

If yes, explain:

Section 3 - Release Information

1. Nature of the release: Presumed gasoline release from underground storage tank (UST) System

2. Location of the release (within the facility): Petroleum hydrocarbon impact detected in the vicinity of the UST system.

3. Location of the release with respect to the facility property boundaries: Release occurred from the UST system located in the northwestern portion of the property.

4. Constituents known or suspected have been released: Gasoline constituents

5. Indicate which media are known or suspected to be impacted and if sampling data are available:

[ ]	soil 0 - 3 feet bgs	[ ] yes [ ] no
[X]	soil 0 - 15 feet bgs	[X] yes [ ] no
[ ]	soil >15 feet bgs	[ ] yes [ ] no
[X]	groundwater	[X] yes [ ] no
[ ]	surface water/sediment	[ ] yes [ ] no

6. Has migration occurred outside the facility property boundaries? [ ] yes [X] no

   If yes, describe the designated use of the offsite land impacted:

Section 4 - Criteria for Further Assessment

If the AOI meets **all** of the criteria presented below, then typically no further ecological evaluation shall be required. If the AOI **does not** meet **all** of the criteria, then a screening level ecological risk shall be conducted. The Submitter should make the initial decision regarding whether or not a screening level ecological risk assessment is warranted based on compliance of the AOI with criteria listed below. After review of the ecological checklist and other available site information, the Department will make a final determination on the need for a screening level ecological risk assessment. If site conditions at the AOI change such that one or more of the criteria are not met, then a screening level ecological risk assessment shall be conducted. Answers shall be based on current site conditions (i.e., shall not consider future remedial actions or institutional or engineering controls).

Indicate if the AOI meets the following criteria:

(1) The area of impacted soil is approximately 5 acres or less in size (based on the AOI identified for the human health assessment) and it is not expected that the COC will migrate such that the soil AOI becomes greater than 5 acres in size. [X] yes [ ] no

(2) There is no current release or demonstrable long-term threat of release (via runoff or groundwater discharge) of COC from the AOI to a surface water body. [X] yes [ ] no

(3) Recreational species, commercial species, threatened or endangered species, and/or their habitats are not currently being exposed, or expected to be exposed, to COC present at or migrating from the AOI.
[X] yes [ ] no

(4) There are no obvious impacts to ecological receptors or their habitats and none are expected in the future.
[X] yes [ ] no

Is further ecological evaluation required at this AOI? [ ] yes [X] no

This determination is subject to Department concurrence.

Section 5 - Site Summary

The ecological checklist submittal shall include a site summary that presents sufficient information to verify that the AOI meets or does not meet the criteria for further assessment.

Section 6 - Submitter Information

Date: June 26, 2011

Name of person submitting this checklist: Larry Braud, P.G.

Affiliation: Groundwater & Environmental Services, Inc.

Signature: _____

Date: 6/26/2011

Additional Preparers: Ryan Francis

APPENDIX F

ANALYTICAL LABORATORY REPORT AND FIELD SAMPLING DATA SHEET

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUE2850
Client Project/Site: SAP 137475
Client Project Description:
2300 S Acadian Thruway, Baton Rouge

For:
GES (Baton Rouge) / Shell
307 France Street, Suite B
Baton Rouge, LA 70802

Attn: Lawrence Braud

Authorized for release by:
06/01/2011 03:54:17 PM

Leah R. Klingensmith
Senior Project Management
leah.klingensmith@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Sample Summary

Client: GES (Baton Rouge) / Shell
Project/Site: SAP 137475

TestAmerica Job ID: NUE2850

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUE2850-01	RW-1	Water	05/16/11 11:10	05/17/11 09:15
NUE2850-02	DUP	Water	05/16/11 00:01	05/17/11 09:15
NUE2850-03	FB-1	Water	05/16/11 11:30	05/17/11 09:15
NUE2850-04	RINSATE	Water	05/16/11 11:10	05/17/11 09:15
NUE2850-05	TB	Water	05/16/11 00:01	05/17/11 09:15

Client Sample Results

Client: GES (Baton Rouge) / Shell
Project/Site: SAP 137475

TestAmerica Job ID: NUE2850

Client Sample ID: RW-1

Date Collected: 05/16/11 11:10
Date Received: 05/17/11 09:15

Lab Sample ID: NUE2850-01
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.800		0.100		mg/L		05/19/11 10:07	05/19/11 17:48	100

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*90*		*63 - 140*	*05/19/11 10:07*	*05/19/11 17:48*	*100*
Dibromofluoromethane	*98*		*73 - 131*	*05/19/11 10:07*	*05/19/11 17:48*	*100*
Toluene-d8	*101*		*80 - 120*	*05/19/11 10:07*	*05/19/11 17:48*	*100*
4-Bromofluorobenzene	*98*		*79 - 125*	*05/19/11 10:07*	*05/19/11 17:48*	*100*

Client Sample Results

Client: GES (Baton Rouge) / Shell
Project/Site: SAP 137475

TestAmerica Job ID: NUE2850

Client Sample ID: FB-1

Date Collected: 05/16/11 11:30
Date Received: 05/17/11 09:15

Lab Sample ID: NUE2850-03
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	L	0.00100		mg/L		05/18/11 21:12	05/19/11 00:41	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*89*		*63 - 140*	*05/18/11 21:12*	*05/19/11 00:41*	*1.00*
Dibromofluoromethane	*98*		*73 - 131*	*05/18/11 21:12*	*05/19/11 00:41*	*1.00*
Toluene-d8	*101*		*80 - 120*	*05/18/11 21:12*	*05/19/11 00:41*	*1.00*
4-Bromofluorobenzene	*102*		*79 - 125*	*05/18/11 21:12*	*05/19/11 00:41*	*1.00*

Client Sample Results

Client: GES (Baton Rouge) / Shell
Project/Site: SAP 137475

TestAmerica Job ID: NUE2850

Client Sample ID: TB

Date Collected: 05/16/11 00:01
Date Received: 05/17/11 09:15

Lab Sample ID: NUE2850-05
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	L	0.00100		mg/L		05/18/11 21:12	05/19/11 00:14	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*89*		*63 - 140*	*05/18/11 21:12*	*05/19/11 00:14*	*1.00*
Dibromofluoromethane	*97*		*73 - 131*	*05/18/11 21:12*	*05/19/11 00:14*	*1.00*
Toluene-d8	*100*		*80 - 120*	*05/18/11 21:12*	*05/19/11 00:14*	*1.00*
4-Bromofluorobenzene	*99*		*79 - 125*	*05/18/11 21:12*	*05/19/11 00:14*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11E4559-MS1
Matrix: Water
Analysis Batch: U008882

Client Sample ID: RW-1
Prep Type: Total
Prep Batch: 11E4559_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Ethylbenzene	0.0659		0.0500	0.134		mg/L		136	68 - 157
Toluene	0.0352		0.0500	0.0995		mg/L		129	61 - 153
Xylenes, total	0.0301		0.150	0.210		mg/L		120	68 - 158

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*101*		*63 - 140*
Dibromofluoromethane	*93*		*73 - 131*
Toluene-d8	*101*		*80 - 120*
4-Bromofluorobenzene	*102*		*79 - 125*

Lab Sample ID: 11E4559-MSD1
Matrix: Water
Analysis Batch: U008882

Client Sample ID: RW-1
Prep Type: Total
Prep Batch: 11E4559_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	1.12		0.0500	1.19		mg/L		128	65 - 151	0.6	12
Ethylbenzene	0.0659		0.0500	0.136		mg/L		140	68 - 157	1	12
Toluene	0.0352		0.0500	0.105		mg/L		139	61 - 153	5	35
Xylenes, total	0.0301		0.150	0.225		mg/L		130	68 - 158	7	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*84*		*63 - 140*
Dibromofluoromethane	*94*		*73 - 131*
Toluene-d8	*99*		*80 - 120*
4-Bromofluorobenzene	*101*		*79 - 125*

Lab Sample ID: 11E5337-BLK1
Matrix: Water
Analysis Batch: U008967

Client Sample ID: 11E5337-BLK1
Prep Type: Total
Prep Batch: 11E5337_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00100		mg/L		05/19/11 10:07	05/19/11 13:26	1.00
Ethylbenzene	ND		0.00100		mg/L		05/19/11 10:07	05/19/11 13:26	1.00
Toluene	ND		0.00100		mg/L		05/19/11 10:07	05/19/11 13:26	1.00
Xylenes, total	ND		0.00300		mg/L		05/19/11 10:07	05/19/11 13:26	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*89*		*63 - 140*	*05/19/11 10:07*	*05/19/11 13:26*	*1.00*
Dibromofluoromethane	*96*		*73 - 131*	*05/19/11 10:07*	*05/19/11 13:26*	*1.00*
Toluene-d8	*100*		*80 - 120*	*05/19/11 10:07*	*05/19/11 13:26*	*1.00*
4-Bromofluorobenzene	*100*		*79 - 125*	*05/19/11 10:07*	*05/19/11 13:26*	*1.00*

Lab Sample ID: 11E5337-BS1
Matrix: Water
Analysis Batch: U008967

Client Sample ID: 11E5337-BS1
Prep Type: Total
Prep Batch: 11E5337_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	50.0	50.2		ug/L		100	80 - 121
Ethylbenzene	50.0	50.6		ug/L		101	78 - 133

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11E5337-MSD1
Matrix: Water
Analysis Batch: U008967

Client Sample ID: RW-1
Prep Type: Total
Prep Batch: 11E5337_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Xylenes, total	ND		15.0	17.8	R2	mg/L		118	68 - 158	32	18

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*92*		*63 - 140*
Dibromofluoromethane	*99*		*73 - 131*
Toluene-d8	*103*		*80 - 120*
4-Bromofluorobenzene	*98*		*79 - 125*

Lab Chronicle

Client: GES (Baton Rouge) / Shell
Project/Site: SAP 137475

TestAmerica Job ID: NUE2850

Client Sample ID: RW-1

Lab Sample ID: NUE2850-01

Date Collected: 05/16/11 11:10
Date Received: 05/17/11 09:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11E5337_P	05/19/11 10:07	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	100	U008967	05/19/11 17:48	MLG	TAL NSH
Total	Analysis	SW846 8260B		1.00	U008882	05/19/11 05:02		TAL NSH

Client Sample ID: DUP

Lab Sample ID: NUE2850-02

Date Collected: 05/16/11 00:01
Date Received: 05/17/11 09:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	11E5337_P	05/19/11 10:07	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	100	U008967	05/19/11 18:14	MLG	TAL NSH

Client Sample ID: FB-1

Lab Sample ID: NUE2850-03

Date Collected: 05/16/11 11:30
Date Received: 05/17/11 09:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11E4559_P	05/18/11 21:12	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U008882	05/19/11 00:41	MLG	TAL NSH

Client Sample ID: RINSATE

Lab Sample ID: NUE2850-04

Date Collected: 05/16/11 11:10
Date Received: 05/17/11 09:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11E4559_P	05/18/11 21:12	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U008882	05/19/11 02:51	MLG	TAL NSH

Client Sample ID: TB

Lab Sample ID: NUE2850-05

Date Collected: 05/16/11 00:01
Date Received: 05/17/11 09:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11E4559_P	05/18/11 21:12	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U008882	05/19/11 00:14	MLG	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: GES (Baton Rouge) / Shell
Project/Site: SAP 137475

TestAmerica Job ID: NUE2850

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		AIHA		100790
TestAmerica Nashville		USDA		S-48469
TestAmerica Nashville	A2LA	ISO/IEC 17025	0	0453.07
TestAmerica Nashville	A2LA	WY UST	0	453.07
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA	0	3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

LAB (LOC NUE2850
06/01/11 23 59

☐ XENCO ( )
☐ CALSCIENCE ( )
☑ TEST AMERICA ( )
☐ SPL ( )
☐ OTHER ( )

Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: LARRY BRAUD

INCIDENT # (ENV SERVICES) 9 7 4 0 8 6 0 9 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 12/230/10

PAGE: ____ of ____

PO #

SAP # 1 3 7 4 7 5

CONSULTANT COMPANY: GES
ADDRESS: 307 FRANCE ST., SUITE B
CITY: BATON ROUGE, LA 70802
TELEPHONE: 504-331-7810 FAX: E-MAIL: Lbraud@gesonline.com

SITE ADDRESS (Street, City and State): 2300 S. ACADIAN THRUWAY, BATON ROUGE, LA
CONSULTANT PROJECT CONTACT (Report to): LARRY BRAUD
CONSULTANT PROJECT NO.:
SAMPLER NAME(S) (Print): RYAN FRANCIS
LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS. ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

X Louisiana RECAP Standards Apply

SPECIFIED PAHS BY METHOD 8270 SIM

☐ SHELL CONTRACT RATE APPLIES
☑ STATE REIMBURSEMENT RATE APPLIES
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE 2010	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	BENZENE (8260)	MS/MSD	Container PID Readings or Laboratory Notes
	RW-1	5/16	1110	W	X					9	X	X	-01
	DUP	5/16	—	W	X					3	X		-02
	~~EB-1~~ FB-1	5/16	1130	W	X					3	X		-03
	RINSATE	5/16	1110	W	X					3	X		-04
	TB	5/16	—	W	X					3	X		-05

Relinquished by: (Signature)
Received by: (Signature)
Date:
Time:

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL COMPLIANCE

JAN 1 5 2013

CERTIFIED – RETURN RECEIPT REQUESTED 7005 0390 0001 6875 3798

Shell Oil Product U.S.
Attn: Ken Springer
PO Box 1087
Huffman, TX 77336

RE: No Further Action Notification
Former Shell #142059 (Circle K #9730); **AI Number 71560**
UST FID No. 17-008376; UST Incident No. 86368
2300 S. Acadian Thruway
Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Springer:

The Louisiana Department of Environmental Quality – Underground Storage Tank and Remediation Division (LDEQ-USTRD) has completed its review of your Risk Evaluation/Corrective Action Program (RECAP) Report, dated June 26, 2011, for the above referenced area of investigation located at 2300 S. Acadian Thruway in East Baton Rouge Parish. Based on our review of this document and all previously submitted information, we have determined that no further action is necessary at this time. The Basis of Decision for this notification is attached.

No soils may be removed from this site without prior approval from LDEQ unless they are removed and disposed at a permitted disposal facility. Prior to the construction of enclosed structures over any portion of the impacted area, further evaluation and approval from LDEQ is warranted.

If you have any questions or need further information, please call Alan S. Karr at (225) 219-3440. Thank you for your cooperation in addressing this area.

Sincerely,

Thomas F. Harris, Administrator
Underground Storage Tank and Remediation Division—Remediation Process

ask

Attachment Basis of Decision

c: Imaging Operations – UST
Larry Braud – GES, Inc.
Terri Gibson – USTRD
Melissa Vizinat – MFTF
Jeff Baker – MFTF

USTform_1021_r02
12/8/2010

BASIS OF DECISION FOR NO FURTHER ACTION

Former Shell #142059 (Circle K #9730)
AI #71560

The Louisiana Department of Environmental Quality – Underground Storage Tank and Remediation Division—Remediation Process (LDEQ-USTRD-RP) has determined that Former Shell #142059, currently Circle K #9730, requires No Further Action - At This Time.

The 0.47 acre property is used as a gasoline refueling station as well as a convenience store. In February, 2006, CRA completed a divestment investigation on the behalf of Motiva. Five (5) soil borings were installed with analytical results indicating elevated Benzene in one soil boring and subsequent groundwater sampling event. In October, 2006, the facility was transferred to a different consultant firm, URS Corporation. In January, 2009, URS performed a limited groundwater investigation in the vicinity of the previous elevated soil boring. The results indicated the need to install a permanent/recovery well in the vicinity of the elevated Benzene to compare to a MO-2 established standard used at a facility within a 1 mile radius of this site. In November, 2009, the additional groundwater investigation was performed along with a slug test to determine actual site-specific groundwater classification. Delta Consultants became the contractor of record in August, 2010, and submitted a RECAP Input Parameter form, which was approved in October, 2010. In the mean time, Motiva contracted with Groundwater & Environmental Services to complete the project. In April, 2011, GES submitted a groundwater sampling plan to further evaluate inconsistent dissolved Benzene concentrations at the permanent/recovery well location. The results were included in the RECAP evaluation submitted for this No Further Action – At This Time.

Groundwater flow direction is to the north and northwest towards Dawson Creek, approximately 115 feet to the west. The uppermost groundwater aquifer lies at 400 feet below ground surface (bgs). Baton Rouge obtains its water from an aquifer which lays 1,200 feet bgs. From the November, 2009 slug test, the groundwater has a yield of 115 gallons per day (gpd), therefore the groundwater classification is designated as 3A non-drinking water (GW3ndw).

Remedial standards were developed for this property using LDEQ's RECAP Screening, Management Option 1 and Management Option 2 standards. The standards that were applied to this site are listed in the table that appears at the end of this BOD.

Sampling has confirmed that constituents of concern concentrations do not exceed the established site-specific remediation standards, so no remedial action was required. No Further Action - At This Time is granted when contamination is confirmed to exist at concentrations that do not exceed the established standards.

There are no institutional controls on this property.

An inspection of the site was performed on April 10, 2012, at the time of the plugging & abandonment of the monitoring well. No investigation derived waste (IDW) remains on site.

The impacted media, constituents of concern, maximum concentration remaining on site and limiting RECAP standard established for this site are listed in the following table:

Medium	Constituent of Concern	Maximum Remaining Concentration ppm	Limiting LRS (Management Option) ppm
Soil	Benzene	0.468	0.53 (MO-1)[1]
	TPH-GRO	728	9100 (MO-2)[2]
	TBA	10.4	2,788 (MO-1)[3]
GW	Benzene	1.2	5.72 (MO-2)*
	Ethylbenzene	2.43	33.21 (MO-1)*
	MTBE	1.12	2.255 (MO-1)*
	TPH-GRO	87.3	127.1 (MO-1)*
	DIPE	1.34	7.79 (MO-1)*
	ETBE	0.153	1.353 (MO-1)*
	~~TAME~~	~~0.22~~	~~217.3 (MO-1)*~~
	TBA	41	1025 (MO-1)*

Notes: Non-industrial Standards are 1.5[1], 1000[2], and 7000[3] (all ppm)
* GW3ndw

Additional information on the details of the investigation and evaluation of this site may be obtained from LDEQ's Public Records Center located in the Galvez Building, Room 127, 602 N. Fifth Street, Baton Rouge, LA 70802. Additional information regarding the Public Records may be obtained by calling (225) 219-3168 or by emailing publicrecords@la.gov.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 71560 INSPECTION DATE: 4/10/12 TIME OF ARRIVAL: 1245
ALTERNATE ID#: 17-008376 (ID Type/Number) DEPARTURE DATE: 4/10/12 TIME OF DEPARTURE: 1530
FACILITY NAME: Circle K (Former Shell #142058) SH#:
LOCATION: 2300 S. Acadian Thruway
BR LA PARISH NAME: EBR
RECEIVING STREAM (BASIN/SUBSEGMENT):

MAILING ADDRESS: (Street/P.O. Box) (City) (State) (ZIP)
FACILITY REPRESENTATIVE: TITLE:
FACILITY REPRESENTATIVE PHONE NUMBER:
NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above):

INSPECTION TYPE: P+A PROGRAM: AIR (UST) WASTE WATER OTHER

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

GES & Singley Env. Svc on-site to P+A 2 wells prior to NFA issuance. MW-1 & RW-1 both pulled and holes grouted to surface. Vault of RW-1 filled with concrete. All of RW-1 4" screen + pipe came out of hole. Pipe from MW-1 came out (screen broke off.)
Await P+A report to complete NFA-BOD

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
		YES NO
		YES NO

PHOTOS TAKEN: ☐ YES ☐ NO SAMPLES TAKEN: ☐ YES ☐ NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE:
PRINT NAME: Ryan Francis
(NOTE: SIGNATURE DOES NOT NECESSARILY INDICATE AGREEMENT WITH INSPECTOR'S STATED OBSERVATIONS)

INSPECTOR(S): Alan Karr CROSS REFERENCE:
ATTACHMENTS:
REVIEWER:

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

REVISED: 09/14/2009

OFFICE OF ENVIRONMENTAL COMPLIANCE
UNDERGROUND STORAGE TANK & REMEDIATION DIVISION
Routing/Approval Slip

WF 2335

DEQ LOUISIANA

AI No.	71560	Facility:	Former Shell #	Date Routed:	12/26/12
Other ID No.		Location:	BR, LA		
Activity No.		Originator:	Alan Karr		
Section/Group:	USTRD/G2	Attachments:			
Description/Type of Document(s):	NFA w/ BOD				

Closure ☐ Comfort Letter ☐ Correspondence ☐ Corrective Action ☐ Conveyance Notice ☐

NFA ☒ NOD ☐ Personnel ☐ Other ☐

Technical Review	Req'd.	Initials	Date	Return to Originator?	Comments
Environmental Scientist	☐			☐ Y ☐ N	
Geology	☐			☐ Y ☐ N	
Legal	☐			☐ Y ☐ N	
Technical Advisor	☐			☐ Y ☐ N	
Other (_____)	☐			☐ Y ☐ N	
Additional Comments					

Management Review	Req'd.	Initials	Date	Return to Originator?	Comments
Supervisor	☐			☐ Y ☐ N	
Manager (Blanchard)	☑	KSB	1/3/13	☐ Y ☐ N	
Administrator (Harris)	☑	TP	1/14/13	☐ Y ☐ N	
Assistant Secretary	☐			☐ Y ☐ N	
Deputy Secretary	☐			☐ Y ☐ N	
Secretary	☐			☐ Y ☐ N	
Other (_____)	☐			☐ Y ☐ N	
Additional Comments					

☐ TEMPO Data Entry Completed (Date Document Completed): _____

Revised 11/3010

Chevron

RECEIVED

SEP 09 1998

UNDERGROUND STORAGE TANK DIVISION

September 3, 1998

Chevron Sales East
2300 Windy Ridge Pkwy, Suite 800
Atlanta, Ga 30339
P O Box 1706
Atlanta, Ga 30301

Harold Crouther
TIP Coordinator
770 984 4148

UST Division
Louisiana Dept. of Environmental Quality
Box 82178
Baton Rouge, LA 70884-2178

RE: Confirmed Leak
Chevron Facility #109060
2929 College Drive & I10
Baton Rouge, LA
Facility ID# 17-001998

Dear Ms/Sir,

This letter in to inform you that a leak was confirmed at the above referenced facility. Mr. Michael Picou of LDEQ was notified verbally and with a fax of the Notification Requirement on 9/3/98.

If you have any questions specific to this report please contact me at (770) 984-4148 or at the letterhead address above.

Sincerely,

Harold Crouther

Harold Crouther
TIP Coordinator

cc: Michael Picou - LDEQ
Kent Roussell - TM
Allysia Kizzee – SAR

Attachment:

Recycled Recyclable

INCIDENT # _____

LOUISIANA NOTIFICATION REQUIREMENTS

This form should be completed and submitted to the Underground Storage Tank Division within seven (7) calendar days after verbal notification.

If mailed, submittal date will be the postmark date of the written notification. Forward to:

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
Administrator
Underground Storage Tank Division
P. O. Box 82178
Baton Rouge, Louisiana 70884-2178

- -

1. Name of person, company or other party who is filing the written report. Harold Crouther
Chevron Products Co

2. Time and date of verbal notification, name of person making the notification and identification of the site or facility. (Name and address). 9-3-98 @ 11:00 AM
Harold Crouther
Chevron Fac # 109060
2929 College Dr & I-10
Baton Rouge, LA
LDEQ FAC ID# 17-001998

3. Release date and time.
9-2-98 Approx 2:00 PM

4. Incident details and/or emergency condition.
Contractor was well Pointing to relieve the high water table around the tank for planned Tank upgrade. Tank was fractured by the well pointing process. Tank was gaged by delivery driver on 9-2-98 & the driver observed water in the tank. Contractor checked the tank and determine tank was leaking in the area around the well pointing. Product Probably Escaped when the tank was checked by the Contractor. Tank was Pumped until product was below the fracture.

Tank repair is schedule to begin today (9-3-98) with Fluid Containment Doing the repair. Product Tank was the Plus tank.

5. **Product released and estimated quantity released in gallons.** Est 15-20 Gallons - Possibly Much Less.

6. **Surface or groundwater impact.**
Soil around the Plus tank near the fracture is impacted.

7. **Action taken to stop release.**
Product was pumped out until product level was below the fracture. Soil will be removed when the tank repair is done. Expect to start Repair by 9-3-98.

8. **Measures taken to prevent recurrence of the incident.**
C & M will advise P&T Contractor of Tank Dia. in order to Estimate tank Location from above the ground.

9. **Is the U.S.T. System registered?**

YES ✓ U.S.T. ID# 6537
NO _____

ANSWER THE FOLLOWING ONLY IF GROUNDWATER CONTAMINATION IS CONFIRMED

1. **Reporting party status (owner, operator, consultant, etc.)**

2. **Attach groundwater contamination data and/or analytical results.**

3. **Possible routes of migration.**

4. **List all abandoned or active water wells within the immediate area.**

5. **Names of all other responsible parties.**

BASELINE SITE ASSESSMENT

Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

for

Chevron Environmental Management Company
Houston, Texas

May 2003
Ref. 27453-00 (2)

Conestoga-Rovers & Associates
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816
(225)292-9007 Office; (225)292-3614 Fax

NFA Late 1997 - Early 1998 ?

Remediation Services Division
Manager: _____
Team Leader: _____
AI #: _____
TEMPO Task #: _____
☐ Desk Copy File Room: _____

RECEIVED
JUL 30 2003
LA DEPT OF ENV QUALITY
REMEDIATION SERVICES DIVISION
LOG # _____

BASELINE SITE ASSESSMENT

Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

for

Chevron Environmental Management Company
Houston, Texas

May 2003
Ref. 27453-00 (2)

Conestoga-Rovers & Associates
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816
(225)292-9007 Office; (225)292-3614 Fax

EXECUTIVE SUMMARY

Conestoga-Rovers & Associates (CRA) has completed a Baseline Site Assessment for Chevron Environmental Management Company (Chevron) at Chevron Service Station No. 60109060 located at 2929 College Drive in Baton Rouge, East Baton Rouge Parish, Louisiana. This assessment was conducted in order to determine if service station operations have adversely impacted the subsurface media (soil and groundwater). A summary of CRA's work and findings follows:

- The site is an active service station located in an area of primarily commercial development.
- Six soil exploration borings (SB-01 through SB-06) were installed to a maximum depth of 16 feet.
- Soil and groundwater samples were collected from each boring and were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether (MTBE); and total petroleum hydrocarbons-gasoline range organics (TPH-GRO).
- Analytical results indicated hydrocarbon concentrations above the Louisiana Department of Environmental Quality's (LDEQ) Risk Evaluation/Corrective Action Program (RECAP) Screening Option Screening standards as published in the June 20, 2000, version of the document, in soil and groundwater in the vicinity of the dispenser islands. Highest soil and groundwater concentrations were found in boring SB-01, which was located near the southwest dispenser island.
- Verbal notification of a suspected hydrocarbon release was made to the LDEQ/Single Point of Contact on April 14, 2003, and was followed by a written notification within seven calendar days.

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY i

1.0 INTRODUCTION 1
1.1 GENERAL 1
1.2 PURPOSE AND SCOPE 1

2.0 SITE CHARACTERISTICS 2
2.1 SITE AND SURROUNDING LAND USE DESCRIPTIONS 2
2.2 TOPOGRAPHY, GEOLOGY, HYDROGEOLOGY 2

3.0 SOIL AND GROUNDWATER ENVIRONMENTAL ASSESSMENT 3
3.1 DRILLING AND SOIL SAMPLING 3
3.2 GROUNDWATER SAMPLING 4
3.3 HYDROCARBON CONSTITUENT DISTRIBUTION 5
3.4 LDEQ NOTIFICATION 5

4.0 SUMMARY OF FINDINGS 6
4.1 FINDINGS 6

LIST OF FIGURES
(Following Text)

FIGURE 1	SITE PLAN
FIGURE 2	GROUNDWATER BENZENE AND TPH-GRO CONCENTRATIONS AND ISOPLETHS, MARCH 27, 2003

LIST OF TABLES
(Following Text)

TABLE 1	SOIL ANALYTICAL LABORATORY DATA
TABLE 2	GROUNDWATER ANALYTICAL LABORATORY DATA

LIST OF APPENDICES

APPENDIX A	SOIL BORING LOGS
APPENDIX B	SOIL AND GROUNDWATER ANALYTICAL LABORATORY REPORT
APPENDIX C	LDEQ NOTIFICATION FORM

1.0 INTRODUCTION

1.1 GENERAL

At the request of Chevron Environmental Management Company (Chevron), Conestoga-Rovers & Associates (CRA) has conducted a Baseline Site Assessment at Chevron Service Station No. 60109060 located at 2929 College Drive in Baton Rouge, East Baton Rouge Parish, Louisiana. The site is an active Chevron service station.

1.2 PURPOSE AND SCOPE

The purpose of this baseline assessment was to determine if service station operations have adversely impacted the subsurface media (soil and groundwater).

In an effort to assess subsurface conditions and potential hydrocarbon impact, CRA's scope of work included the following:

- Installing six soil exploration borings (SB-01 through SB-06) to a maximum depth of 16 feet using direct-push technology.
- Collecting representative soil samples continuously (2-foot intervals) for inspection and characterization of soil types and stratigraphy from the borings.
- Inspecting and classifying soil samples in the field and conducting headspace screening of the soil samples for petroleum hydrocarbon vapors using a portable photoionization detector (PID).
- Submitting a minimum of two soil samples from each soil boring to Pace Analytical Laboratory (Pace) of St. Rose, Louisiana for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary-butyl ether (MTBE), and total petroleum hydrocarbons-gasoline range organics (TPH-GRO).
- Purging and sampling groundwater from all borings for submittal to Pace for laboratory analyses of BTEX, MTBE, and TPH-GRO.
- Evaluating and compiling field observations and laboratory analytical data into a report documenting boring installations, soil and groundwater sampling, and analytical data.

2.0 SITE CHARACTERISTICS

2.1 SITE AND SURROUNDING LAND USE DESCRIPTIONS

The site is an active self-service motor fuel retail facility located on the southeast corner of the intersection of College Drive and I-10 Frontage Road. The approximate 0.7 acre site consists of a station building, a car wash, and three dispenser islands covered by a canopy. Four underground storage tanks (USTs), reportedly containing gasoline, are located on the northern portion of the site. Figure 1 is a site plan depicting the layout of the facility and soil boring locations.

Surrounding land use consists of predominantly commercial development

2.2 TOPOGRAPHY, GEOLOGY, HYDROGEOLOGY

Topography. The site is located on the Prairie Terrace, which is a Pleistocene alluvial and deltaic landform on the Gulf Coastal Plain. The site is slightly elevated above the nearby flood plain of the Mississippi River, approximately 3 miles to the northeast and is approximately 35 feet above mean sea level (NGVD). Natural drainage appears to be toward Dawson Creek, which flows to Bayou Duplanier and eventually into the University Lake.

Geology. Surface soils at the site consist of up to 500 feet of Pleistocene alluvial and deltaic deposits predominantly composed of clays and silty clays with lenses of silts and sands. Sand units from the shallow Pleistocene thicken to the west toward the Mississippi River. Underlying, older Pleistocene deposits consist of thick, widespread fine to coarse sand and gravel layers, separated by laterally continuous clay horizons. Beneath the Pleistocene deposits are similar deltaic deposits of Pliocene and Miocene age.

Hydrogeology. The shallow Pleistocene deposits contain only minor water-bearing deposits of discontinuous lenses of silt and sand, although the strata thicken to the west where they form the "University Aquifer". The units in the site vicinity are not typically used for water supply because of limited availability and variable quality. The uppermost aquifer of concern is the "400-foot" aquifer which occurs in the uppermost, widespread Pleistocene deltaic sand, and is a main source of groundwater for drinking and industrial use in the area. The "400-foot" aquifer sands typically occur within 500 feet of the ground surface and range from 100 to 200 feet in thickness. The "400-foot" aquifer is underlain by equivalents of the "600-foot" and deeper sands from the north Baton Rouge area. These aquifers contain brackish water in the site vicinity. The deeper Pliocene and Miocene deposits also contain aquifer sands but are saline in the site vicinity.

The information presented in this section is derived from inspection of USGS topographic maps of the area, the Geologic Map of Louisiana by J. Snead and R. McCulloh (1984), the Louisiana Hydrologic Atlas Map No. 2, U.S. Geological Survey Water-Resources Investigations Report 86-4150, (1986), by C.W. Smoot, "Ground-Water conditions in the Baton Rouge Area, 1954-59", Water Resources Bulletin No. 2, by C.O. Morgan, (1961), and "Maps of the "400-foot," "600-foot," and Adjacent Aquifers and Confining Beds, Baton Rouge Area, Louisiana", Water Resources Technical Report No. 48, by E.K. Kuniansky, D.C. Dial, and D.A. Trudeau (1989).

3.0 SOIL AND GROUNDWATER ENVIRONMENTAL ASSESSMENT

3.1 DRILLING AND SOIL SAMPLING

Six soil borings (SB-01 through SB-06) were installed on March 27, 2003, to assess subsurface conditions at the site. The boring locations are shown on the site plan (Figure 1). Prior to installation, each boring location was cleared of subsurface utilities to a depth of four feet using a hand probe. All borings were installed by CRA's subcontractor, Walker-Hill Environmental, Inc. of Columbia, Mississippi. Borings located in paved areas were initiated with a concrete core drill operated by CRA's subcontractor, A & A Enterprises, Inc. of Kenner, Louisiana. The borings were advanced using a track-mounted hydraulically advanced sampling probe. Prior to the initiation of the borings, the drilling and sampling equipment were thoroughly cleaned.

Soil samples were collected at two-foot intervals from the surface to the completion depth of each boring using the hydraulically advanced barrel sampler with new, clean, disposable acetate liners. The soil borings were advanced to a maximum total depth of 16 feet below ground surface (bgs) or until groundwater was encountered. Upon collection, soil samples were visually and manually inspected. Using new, clean, latex gloves, CRA personnel examined the samples for soil characteristics. No visible evidence of phase-separated hydrocarbons (PSH) was observed during the installation and sampling of the borings.

A portion of each sample was collected for organic vapor screening using glass jars covered with aluminum foil. These samples were allowed to stabilize at ambient air temperature for approximately one hour, and the headspace in each container was then analyzed with a PID (Photovac Model 2020). The results of the PID screening of the soil samples from the borings are included on the boring logs in Appendix A.

Immediately upon collection, a portion of each soil sample was placed in laboratory supplied vials utilizing US Environmental Protection Agency (EPA) Method 5035 for soil sampling and preserved on ice for possible laboratory analytical testing. Two soil samples were selected from each soil boring for laboratory analyses. Soil samples were selected for laboratory analyses based on the following considerations: 1) highest PID value, 2) first-encountered groundwater, and/or 3) total depth of the boring.

The soil sampling procedures and documentation were performed in compliance with CRA's standard sampling protocol, which is based upon EPA guidelines applicable to this type of project. The soil samples selected for analyses were preserved on ice and subsequently delivered to Pace by CRA personnel, following proper chain-of-custody procedures. The soil samples were analyzed for BTEX and MTBE by EPA Method 8021B and TPH-GRO by EPA Method 8015B. The analytical laboratory results for the soil samples are summarized on Table 1. The soil sample analytical laboratory report and chain-of-custody document are included in Appendix B.

3.2 GROUNDWATER SAMPLING

Upon reaching the total depth, a temporary well (slotted well screen and casing assembly) was installed in borings SB-01 through SB-06 for the collection of groundwater samples. The groundwater sampling procedures and documentation were performed in compliance with CRA's standard sampling protocol, which is based upon EPA guidelines applicable to this type of project. Each temporary well was purged dry using a peristaltic pump. Upon completion, the temporary wells were allowed to recharge and water samples were then collected using new, clean, disposable PVC bailers.

Groundwater samples collected from the borings were placed in appropriate laboratory supplied sample containers and were subsequently stored on ice and delivered by CRA personnel, following proper chain-of-custody procedures, to Pace for analyses. Samples collected from the temporary wells were analyzed for BTEX, MTBE, and TPH-GRO by the aforementioned methods. Groundwater analytical laboratory results are summarized on Table 2. The analytical laboratory report and chain-of-custody document for the groundwater-sampling event is included in Appendix B.

Upon completion of sample collection, the screen/casing assembly was removed from each boring and the borehole was abandoned by grouting with a cement-bentonite mixture from total depth to the ground surface. For borings located in paved areas, each boring was surface completed with concrete.

3.3 HYDROCARBON CONSTITUENT DISTRIBUTION

In order to determine if impact has occurred, analytical results were compared to the Louisiana Department of Environmental Quality's (LDEQ) Risk Evaluation/Corrective Action Program (RECAP) Screening Option Screening Standards (SS) published in the June 20, 2000, version of the document.

Analytical results for soil samples reported detectable concentrations of benzene in soil samples SB-01 (2' - 4') and SB-04 (0' - 2') with concentrations of 0.331 milligrams per kilogram (mg/kg) and 0.0786 mg/kg, respectively. Detectable TPH-GRO concentrations ranged from 5.8 mg/kg in SB-05 (0' - 2') to 207 mg/kg in SB-01 (2' - 4').

When compared to the RECAP SS, two soil samples exceed the SS for benzene and one soil sample exceeded the SS for TPH-GRO. All other constituents analyzed showed results below the analytical reporting limits or below their respective RECAP SS. Soil sample analytical results are shown on Table 1, along with RECAP SS comparisons.

Groundwater analytical results revealed benzene detectable concentrations in groundwater samples SB-01 and SB-02 with concentrations of 0.141 milligrams per liter (mg/L) and 0.0018 mg/L, respectively. Detectable TPH-GRO concentrations ranged from 0.0693 mg/L in SB-06 to 11.1 mg/L in SB-01.

When compared to the groundwater RECAP SS, one sample exceeded the SS for benzene and four samples exceeded the SS for TPH-GRO. Additionally, one sample exceeded the RECAP SS for ethylbenzene and one sample exceeded the SS for MTBE. All other constituents analyzed showed results below the analytical reporting limits or below their respective RECAP SS. Groundwater sample analytical results are shown on Table 2, along with RECAP SS comparisons.

3.4 LDEQ NOTIFICATION

On, April 14, 2003, Seth P. Domangue with CRA contacted LDEQ/Single Point of Contact (SPOC) to provide verbal notification of a suspected hydrocarbon release based on the investigation analytical results. Verbal notification was made within 24 hours of the receipt of the signed laboratory report from the analytical laboratory. Written notification was submitted within seven calendar days of verbal notification as required by the LDEQ Notification Requirements for Unauthorized Discharge (LAC 33, Part I, Chapter 39). A copy of the written notification form is included as Appendix C.

4.0 SUMMARY OF FINDINGS

4.1 FINDINGS

Based on the scope of work performed, CRA presents the following summary of findings:

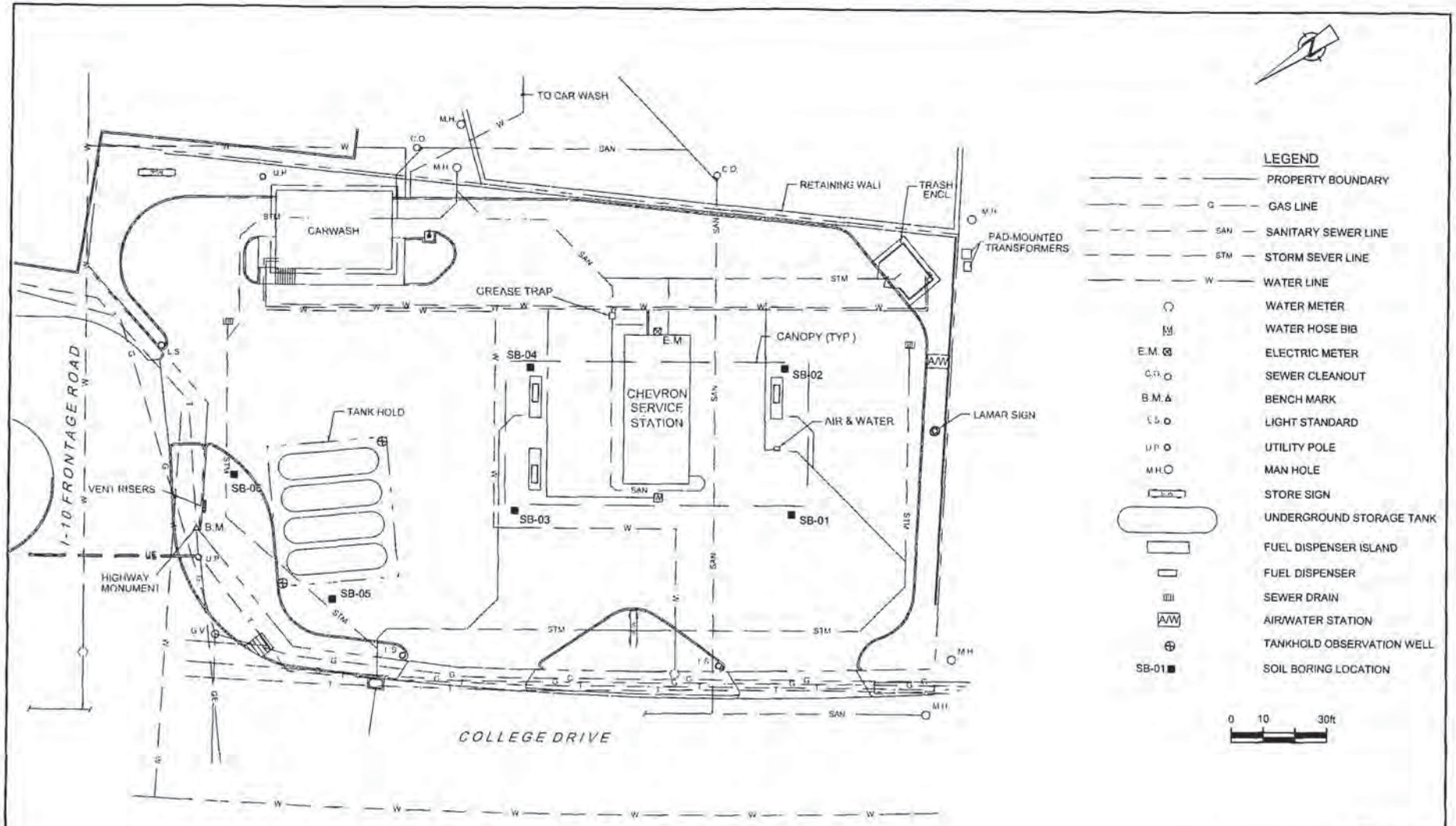
- The site is an active Chevron Service Station located in a developed area of predominantly commercial properties.
- Six soil exploration borings (SB-01 through SB-06) were installed to a maximum depth of 16 feet. Soil and groundwater samples from the soil borings/temporary wells were analyzed for BTEX, MTBE, and TPH-GRO.
- Analytical results for soil samples indicated hydrocarbon concentrations above the RECAP SS in the vicinity of the dispenser islands. The highest soil concentrations were found in boring SB-01, located near the southeast dispenser islands.
- Groundwater analytical results also revealed hydrocarbon concentrations above the RECAP SS in the vicinity of the dispenser islands. The highest BTEX and TPH-GRO concentrations in groundwater samples collected from boring SB-01 located near the southwest dispenser island.
- A verbal notification of a suspected hydrocarbon release was submitted to the LDEQ/SPOC on April 14, 2003, followed by a written notification.

If you have any questions concerning this submittal, please call CRA. CRA appreciates the opportunity to be of continued service to Chevron Environmental Management Company.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Seth P. Domangue
Seth P. Domangue
Project Geologist

Thomas B. Powers
Thomas B. Powers, PG
Project Manager



RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA242U4, "EXTERIOR PIPING & ELECTRICAL PLAN".

Figure 1

SITE PLAN
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY, HOUSTON, TEXAS

27453-00(002)GN-BR001 MAY 22/2003

Reference Sheet

REF+156674

Printed: 07/31/2003 3:33 pm

TABLE 1

SOIL SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Boring (depth, ft.)	Sample Date	Parameter					
		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TPH-GRO (mg/kg)
		0.051*	20*	19*	150*	20*	65*
SB-01 (2' - 4')	03/27/03	**0.331**	<0.0216	9.42	1.05	<0.0216	**207**
SB-01 (12' - 14')	03/27/03	<0.0226	<0.0226	1.11	<0.0226	0.064	63.7
SB-02 (2' - 4')	03/27/03	<0.0238	<0.0238	0.0812	<0.0238	<0.0238	10.8
SB-02 (10' - 12')	03/27/03	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<2.39
SB-03 (0' - 2')	03/27/03	<0.0264	<0.0264	<0.0264	<0.0264	<0.0264	7.59
SB-03 (10' - 12')	03/27/03	<0.0298	<0.0298	<0.0298	<0.0298	<0.0298	<2.975
SB-04 (0' - 2')	03/27/03	**0.0786**	0.122	0.177	0.1652	<0.0239	7.33
SB-04 (10' - 12')	03/27/03	<0.0238	<0.0238	<0.0238	<0.0238	0.23	<2.375
SB-05 (0' - 2')	03/27/03	<0.0236	<0.0236	<0.0236	<0.0236	<0.0236	5.8
SB-05 (10' - 12')	03/27/03	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<2.62
SB-06 (0' - 2')	03/27/03	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<2.215
SB-06 (10' - 12')	03/27/03	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<2.385

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
mg/kg = Milligrams per kilogram, which is equivalent to parts per million (ppm).
* Screening Standards specified in the LDEQ's June 20, 2000, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
NOTES: Bold font with shading indicates result exceeds RECAP Screening Standard.

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Boring	*Sample Date*	*Parameter*					
		Benzene (mg/L)	*Toluene (mg/L)*	*Ethylbenzene (mg/L)*	*Xylenes (mg/L)*	*MTBE (mg/L)*	*TPH-GRO (mg/L)*
		*0.005**	*1.0**	*0.7**	*10**	*0.52**	*0.15**
SB-01	03/27/03	**0.141**	0.0161	**0.854**	0.259	0.395	**11.1**
SB-02	03/27/03	0.0018	0.00087	0.0066	0.0017	0.0252	**0.256**
SB-03	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	0.046	**0.767**
SB-04	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	**0.737**	**0.482**
SB-05	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	0.0052	0.0883
SB-06	03/27/03	<0.0005	0.0012	0.0035	0.0117	0.0142	0.0693

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
* Screening Standards specified in the LDEQ's June 20, 2000, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
NOTES: Bold font with shading indicates result exceeds RECAP Screening Standard.

APPENDIX A

SOIL BORING LOGS

BORING LOG

Project: Baseline Site Assessment
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

Client: Chevron Environmental Management Company
Houston, Texas

No. SB-01

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill Environmental, Inc
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 16' Start Time: 0905 Finish Time: 0945
					1,740	2.0	X				6" Concrete Gray silty CLAY (CL), strong hydrocarbon odor
					1,890	1.0	X				
					485	1.0	X	5			
					3.7	1.5	X				-- brown, tan
					174	1.0	X				
					2.8	2.0	X	10			-- gray
					221	2.0	X				
					2.1	2.5	X	15	▽		
											Boring terminated at 16' and grouted to the surface with a thick cement-bentonite mixture.

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1)Photovac 20/20

▽ Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Baseline Site Assessment
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

Client: Chevron Environmental Management Company
Houston, Texas

No. SB-02

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill Environmental, Inc.
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

Hand probed: 0' to 4'
Direct push technology (2" O.D.): 0' to 12'

Start Time: 0950 Finish Time: 1020

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	
					21.4	1.0					6" Concrete Gray, silty CLAY (CL), slight hydrocarbon odor
					127	1.5					
					82	*		5			Gray SAND (SC)
					86	1.0					Gray, silty CLAY (CL)
					3.4	*		10	▽		
					<1.0	2.0					– brown/tan
								15			Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1)Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

▽ Water First Noted

* No Penetrometer or SPT Value

BORING LOG

Project: Baseline Site Assessment
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

Client: Chevron Environmental Management Company
Houston, Texas

No. SB-03

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill Environmental, Inc.
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 1100 Finish Time: 1115
					14.8	1.5					6" Concrete Gray silty CLAYwith some SAND (FILL)
					4.7	*					
					4.9	2.0		5			Gray, silty CLAY (CL)
					8.7	1.5					
					<1.0	2.0					– moist
					6.5	1.0		10			
					6.0	2.0					
											Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.
								15			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1)Photovac 20/20

Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

* No Penetrometer or SPT Value

BORING LOG

Project: Baseline Site Assessment
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

Client: Chevron Environmental Management Company
Houston, Texas

No. SB-04

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill Environmental, Inc.
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 1015 Finish Time: 1055
					16.1	1.0	X				6" Concrete Gray, silty CLAY (CL)
					1.9	2.5	X				
					13.2	1.0	X	5			– wet
					<1.0	2.0	X				– brown/tan
					<1.0	1.0	X				
					<1.0	1.5	X	10	▽		
											Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.
								15			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1)Photovac 20/20

▽ Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Baseline Site Assessment
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

Client: Chevron Environmental Management Company
Houston, Texas

No. SB-05

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill Environmental, Inc.
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 1125 Finish Time: 1150
					2.9	1.5					6" Concrete Tan, silty CLAY with gravel (FILL)
					<1.0	2.5					Gray, silty CLAY (CL)
								5			
					<1.0	2.5					– moist
					<1.0	2.0					
					<1.0	2.5					
								10			– brown/tan
					<1.0	2.5					
											Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.
								15			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1)Photovac 20/20

Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Baseline Site Assessment
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

Client: Chevron Environmental Management Company
Houston, Texas

No. SB-06

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill Environmental, Inc.
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA						BORING DATA
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 1320 Finish Time: 1350
					<1.0	1.0	☒				Brown, tan with silty clay, some sand and gravel (FILL)
					<1.0	*	☒				
						1.5	☒				Gray, silty CLAY (CL)
					<1.0	2.0	☒	5			
					<1.0	1.0	☒				– moist
					<1.0	1.5	☒		▽		
							☒	10			– brown, tan
					<1.0	2.0	☒				
											Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.
								15			

■ Shelby Tube

☒ Direct Push Sampler

▥ Auger Cuttings

▧ No Recovery

(1)Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

▽ Water First Noted

* No Penetrometer or SPT Value

APPENDIX B

SOIL AND GROUNDWATER ANALYTICAL LABORATORY REPORT

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd., Suite F
St. Rose, LA 70087
Phone: 504.469.0333
Fax: 504.469.0555

April 08, 2003

Mr. Bill DeLange
CHEVRON PRODUCTS CO.
5959 Corporate Dr.
Houston, TX 77036

RE: Lab Project Number: 2017720
Client Project ID: 60109060

Dear Mr. DeLange:

Enclosed are the analytical results for sample(s) received by the laboratory March 27, 2003through March 28, 2003 Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com
Project Manager

Enclosures

Pace Analytical™
New Orleans Laboratory

Sample Cross Reference Report

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Project: 60109060

Project No.: 2017720

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
SB01	20145482	Water	03/27/2003	14:10	03/27/2003	15:15
SB01-(12-14)	20145489	Soil	03/27/2003	09:40	03/28/2003	15:15
SB01-(2-4)	20145488	Soil	03/27/2003	09:15	03/28/2003	15:15
SB02	20145483	Water	03/27/2003	14:20	03/27/2003	15:15
SB02-(10-12)	20145491	Soil	03/27/2003	10:15	03/28/2003	15:15
SB02-(2-4)	20145490	Soil	03/27/2003	09:55	03/28/2003	15:15
SB03	20145484	Water	03/27/2003	14:40	03/27/2003	15:15
SB03-(0-2)	20145492	Soil	03/27/2003	10:55	03/28/2003	15:15
SB03-(10-12)	20145493	Soil	03/27/2003	11:20	03/28/2003	15:15
SB04	20145485	Water	03/27/2003	14:25	03/27/2003	15:15
SB04-(0-2)	20145494	Soil	03/27/2003	10:25	03/28/2003	15:15
SB04-(10-12)	20145495	Soil	03/27/2003	10:50	03/28/2003	15:15
SB05	20145486	Water	03/27/2003	14:35	03/27/2003	15:15
SB05-(0-2)	20145496	Soil	03/27/2003	11:25	03/28/2003	15:15
SB05-(10-12)	20145497	Soil	03/27/2003	11:50	03/28/2003	15:15
SB06	20145487	Water	03/27/2003	14:50	03/27/2003	15:15
SB06-(0-2)	20145498	Soil	03/27/2003	13:25	03/28/2003	15:15
SB06-(10-12)	20145499	Soil	03/27/2003	13:50	03/28/2003	15:15

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB01
Project: 60109060
Lab ID: 20145482
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	24950	10	11100	D1	ug/L	500.		02-Apr-03 00:27	
Benzene	SW 8021 Arom	24955	10	141.	D1	ug/L	5.00		02-Apr-03 00:13	
Ethylbenzene	SW 8021 Arom	24955	10	854.	D1	ug/L	5.00		02-Apr-03 00:13	
Methyl tert-butyl ether (	SW 8021 Arom	24955	10	395.	D1	ug/L	5.00		02-Apr-03 00:13	
Toluene	SW 8021 Arom	24955	10	16.1	Ph D1	ug/L	5.00		02-Apr-03 00:13	
m,p-Xylene	SW 8021 Arom	24955	10	259.	D1	ug/L	5.00		02-Apr-03 00:13	
o-Xylene	SW 8021 Arom	24955	10	ND	D1	ug/L	5.00		02-Apr-03 00:13	

7 parameter(s) reported

Client ID: SB02
Project: 60109060
Lab ID: 20145483
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	256.		ug/L	50.0		04-Apr-03 13:06	
Benzene	SW 8021 Arom	25080	1	1.80		ug/L	0.500		04-Apr-03 04:51	
Ethylbenzene	SW 8021 Arom	25080	1	6.60	Ph	ug/L	0.500		04-Apr-03 04:51	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	25.2		ug/L	0.500		04-Apr-03 04:51	
Toluene	SW 8021 Arom	25080	1	0.870		ug/L	0.500		04-Apr-03 04:51	
m,p-Xylene	SW 8021 Arom	25080	1	1.70		ug/L	0.500		04-Apr-03 04:51	
o-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 04:51	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4-9-2003 05:29:25

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB03 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145484 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	767.		ug/L	50.0		04-Apr-03 05:26	
Benzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	
Ethylbenzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	46.0		ug/L	0.500		04-Apr-03 05:12	
Toluene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	
m,p-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	
o-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	

7 parameter(s) reported

Client ID: SB04 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145485 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	482.		ug/L	50.0		04-Apr-03 05:47	
Benzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	
Ethylbenzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	737.		ug/L	0.500		04-Apr-03 05:33	
Toluene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	
m,p-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	
o-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
[illegible] denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
[illegible]porting Limit is corrected for sample size, dilution and moisture content if applicable.
[illegible]lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4 9 2003 05:29:29

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB05 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145486 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	88.3		ug/L	50.0		04-Apr-03 06:08	
Benzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	
Ethylbenzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	5.20		ug/L	0.500		04-Apr-03 05:54	
Toluene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	
m,p-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	
o-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	

7 parameter(s) reported

Client ID: SB06 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145487 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	69.3		ug/L	50.0		04-Apr-03 06:29	
Benzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 06:15	
Ethylbenzene	SW 8021 Arom	25080	1	3.50		ug/L	0.500		04-Apr-03 06:15	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	14.2		ug/L	0.500		04-Apr-03 06:15	
Toluene	SW 8021 Arom	25080	1	1.20		ug/L	0.500		04-Apr-03 06:15	
m,p-Xylene	SW 8021 Arom	25080	1	9.60		ug/L	0.500		04-Apr-03 06:15	
o-Xylene	SW 8021 Arom	25080	1	2.10		ug/L	0.500		04-Apr-03 06:15	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
List qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4 9 2003 08:29:30

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB01-(2-4)
Project: 60109060
Lab ID: 20145488
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	10	207000	D1	ug/kg	21600	03-Apr-03	07-Apr-03 21:46	
Benzene	SW 8021 Arom	25084	1	331.	Ph	ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
Ethylbenzene	SW 8021 Arom	25084	1	9420		ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
m,p-Xylene	SW 8021 Arom	25084	1	1050	Ph	ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	

7 parameter(s) reported

Client ID: SB01-(12-14)
Project: 60109060
Lab ID: 20145489
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	63700		ug/kg	2255	03-Apr-03	07-Apr-03 22:07	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
Ethylbenzene	SW 8021 Arom	25084	1	1110	Ph	ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	64.0		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
F denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4-9 2003 08 29.30

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB02-(2-4) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145490 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	10800		ug/kg	2375	03-Apr-03	07-Apr-03 22:28	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
Ethylbenzene	SW 8021 Arom	25084	1	81.2	Ph	ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	

7 parameter(s) reported

Client ID: SB02-(10-12) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145491 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2390	03-Apr-03	04-Apr-03 19:08	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4 9 2003 08:29 31

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB03-(0-2)
Project: 60109060
Lab ID: 20145492
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	7590		ug/kg	2635	03-Apr-03	04-Apr-03 19:29	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	

7 parameter(s) reported

Client ID: SB03-(10-12)
Project: 60109060
Lab ID: 20145493
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2975	03-Apr-03	04-Apr-03 19:50	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4 9-2003 08 29.32

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB04-(0-2) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145494 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	7330		ug/kg	2395	03-Apr-03	04-Apr-03 22:18	
Benzene	SW 8021 Arom	25084	1	78.6		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
Ethylbenzene	SW 8021 Arom	25084	1	177.		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
Toluene	SW 8021 Arom	25084	1	122.	Ph	ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
m,p-Xylene	SW 8021 Arom	25084	1	94.8		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
o-Xylene	SW 8021 Arom	25084	1	70.4		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	

7 parameter(s) reported

Client ID: SB04-(10-12) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145495 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2375	03-Apr-03	04-Apr-03 22:39	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	230.		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4-9-2003 05:29:32

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87995
Kansas Dept. of Health & Environment/EL WHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB05-(0-2)
Project: 60109060
Lab ID: 20145496
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	5800		ug/kg	2360	03-Apr-03	04-Apr-03 23:00	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	

7 parameter(s) reported

Client ID: SB05-(10-12)
Project: 60109060
Lab ID: 20145497
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2620	03-Apr-03	04-Apr-03 23:21	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4-9 2003 08:29:33

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB06-(0-2)
Project: 60109060
Lab ID: 20145498
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2215	03-Apr-03	04-Apr-03 23:41	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	

7 parameter(s) reported

Client ID: SB06-(10-12)
Project: 60109060
Lab ID: 20145499
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2017720 **Prep Factor:** 1
Collected: 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2385	03-Apr-03	05-Apr-03 00:02	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4 9 2003 08:29 34

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA00006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S 47270

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone. 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Water GC Organics

Batch: 24950

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	500.00	109			500.00	95	100	5		50 - 150	50 - 150	25	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SM -846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4 8 2003 16:14.48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Water GC Organics

Batch: 25079

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	500.00	107			500.00	77	76	1		50 - 150	50 - 150	25	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4 8 2003 16:14:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Med Soil GC Organics

Project No.: 2017720

Batch: 25085

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	25000.00	95	95	0	25000.00					50 - 150	50 - 150	50	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4/8/2003 16:14:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10256
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div ar UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Water 8021

Batch: 24955

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	20.00	111			20.00	104	107	2		39 - 150	39 - 150	25	
Benzene	20.00	113			20.00					39 - 150	39 - 150	25	
Ethylbenzene	20.00	111			20.00	99	101	2		32 - 160	32 - 160	25	
Ethylbenzene	20.00	112			20.00					32 - 160	32 - 160	25	
Methyl tert-butyl ether (MTBE)	20.00	109			20.00	106	105	0		27 - 151	0 - 190	25	
Methyl tert-butyl ether (MTBE)	20.00	109			20.00					27 - 151	0 - 190	25	
Toluene	20.00	109			20.00	101	104	3		46 - 148	46 - 148	25	
Toluene	20.00	112			20.00					46 - 148	46 - 148	25	
m,p-Xylene	40.00	114			40.00	101	103	2		50 - 132	46 - 134	25	
m,p-Xylene	40.00	118			40.00					50 - 132	46 - 134	25	
o-Xylene	20.00	112			20.00	99	101	2		51 - 135	43 - 139	25	
o-Xylene	20.00	113			20.00					51 - 135	43 - 139	25	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4-8-2003 16:14:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/RW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Water 8021 **Batch:** 25080 **Units:** ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	20.00	114			20.00	112	112	0		39 - 150	39 - 150	25	
Ethylbenzene	20.00	112			20.00	105	104	1		32 - 160	32 - 160	25	
Methyl tert-butyl ether (MTBE)	20.00	120			20.00	121	121	0		27 - 151	0 - 190	25	
Toluene	20.00	113			20.00	111	110	1		46 - 148	46 - 148	25	
m,p-Xylene	40.00	118			40.00	108	106	1		50 - 132	46 - 134	25	
o-Xylene	20.00	114			20.00	107	105	1		51 - 135	43 - 139	25	

6 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4/8/2003 16:14:49

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Med Soil 8021

Batch: 25084

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	1000.00	107	108	1	1000.00					30 - 137	17 - 144	50	
Ethylbenzene	1000.00	107	108	1	1000.00					53 - 124	38 - 135	50	
Methyl tert-butyl ether (MTBE)	1000.00	104	107	3	1000.00					50 - 150	24 - 147	50	
Toluene	1000.00	106	107	1	1000.00					54 - 130	40 - 137	50	
m,p-Xylene	2000.00	112	112	0	2000.00					52 - 135	32 - 154	50	
o-Xylene	1000.00	107	108	1	1000.00					53 - 140	36 - 156	50	

6 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4/8/2003 16:14:49

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Water GC Organics

Batch: 24950

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20144976	Sample	79							
20144977	Sample	72							
20144978	Sample	74							
20144979	Sample	58							
20145042	Sample	88							
20145043	Sample	91							
20145044	Sample	94							
20145085	Sample	92							
20145113	Sample	68							
20145114	Sample	79							
20145382	Sample	79							
20145383	Sample	74							
20145384	Sample	75							
20145386	Sample	72							
20145400	Sample	35*							
20145401	Sample	56							
20145402	Sample	67							
20145403	Sample	69							
20145416	Sample	86							
20145482	Sample	94							
24950B1	Blank	95							
24950B2	Blank	95							
24950B3	Blank	99							
24950MS	Spike	93							
24950MSD	Spike Dup	91							
24950S1	LCS	94							
QC limits:		39-145							

Sur 1: 1,2,4-Trichlorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4 8/2003 16:14 50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Water 8021

Batch: 24955

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20144976	Sample	91	93						
20144977	Sample	88	84						
20144978	Sample	87	90						
20144979	Sample	91	93						
20144980	Sample	96	100						
20145042	Sample	100	100						
20145043	Sample	100	101						
20145085	Sample	102	101						
20145113	Sample	93	94						
20145114	Sample	89	92						
20145382	Sample	98	92						
20145383	Sample	98	97						
20145384	Sample	99	96						
20145386	Sample	98	97						
20145400	Sample	86	83						
20145401	Sample	81	81						
20145402	Sample	94	91						
20145403	Sample	87	92						
20145416	Sample	96	97						
20145482	Sample	98	94						
24955B1	Blank	95	98						
24955B2	Blank	94	95						
24955B3	Blank	96	94						
24955B4	Blank	92	93						
24955MS	Spike	90	89						
24955MSD	Spike Dup	92	92						
24955S1	LCS	100	101						
24955S2	LCS	101	96						
QC limits:		63-125	64-125						

Sur 1: 4-Bromofluorobenzene (PID) (S)
Sur 2: 4-Bromofluorobenzene (PID confirmat

* denotes surrogate recovery outside of QC limits.
denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
Lab ID consisting of a batch number with a B suffix is a method blank.
Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/8/2003 16:14:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WH/W - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Water GC Organics

Batch: 25079

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20145483	Sample	66							
20145484	Sample	95							
20145485	Sample	91							
20145486	Sample	88							
20145487	Sample	76							
20145547	Sample	69							
20145548	Sample	89							
20145549	Sample	87							
20145711	Sample	101							
20145781	Sample	100							
20145952	Sample	82							
20145953	Sample	89							
20145954	Sample	88							
20145955	Sample	88							
20145956	Sample	89							
20145957	Sample	98							
20146096	Sample	94							
20146097	Sample	85							
20146098	Sample	84							
20146099	Sample	63							
25079B1	Blank	95							
25079B2	Blank	96							
25079B3	Blank	101							
25079MS	Spike	66							
25079MSD	Spike Dup	65							
25079S1	LCS	101							
QC limits:		39-145							

Sur 1: 1,2,4-Trichlorobenzene (S)

* denotes surrogate recovery outside of QC limits.
denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
Lab ID consisting of a batch number with a B suffix is a method blank.
Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4-8-2003 16:14:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 56002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Report: 2017720

Method: Water 8021

Batch: 25080

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20145483	Sample	88	85						
20145484	Sample	102	91						
20145485	Sample	97	94						
20145486	Sample	99	99						
20145487	Sample	95	95						
20145547	Sample	96	95						
20145548	Sample	94	85						
20145548DL	Dilution	96	89						
20145549	Sample	93	84						
20145549DL	Dilution	93	88						
20145952	Sample	96	94						
20145953	Sample	96	89						
20145954	Sample	93	89						
20145955	Sample	96	90						
20145956	Sample	95	90						
20145957	Sample	95	95						
20146096	Sample	101	93						
20146097	Sample	97	87						
20146098	Sample	99	90						
20146099	Sample	95	92						
25080B1	Blank	98	96						
25080B2	Blank	95	93						
25080B3	Blank	96	93						
25080MS	Spike	96	89						
25080MSD	Spike Dup	94	89						
25080S1	LCS	103	95						
QC limits:		63-125	64-125						

Sur 1: 4-Bromofluorobenzene (PID) (S)
Sur 2: 4-Bromofluorobenzene (PID confirmat

* denotes surrogate recovery outside of QC limits.
denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
Lab ID consisting of a batch number with a B suffix is a method blank.
Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4 8.2003 16 14:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Med Soil 8021

Batch: 25084

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20145488	Sample G1	161*	106						
20145489	Sample	120	111						
20145490	Sample	87	80						
20145491	Sample	77	77						
20145492	Sample	90	86						
20145493	Sample	78	79						
20145494	Sample	76	73						
20145495	Sample	81	80						
20145496	Sample	84	83						
20145497	Sample	85	84						
20145498	Sample	79	78						
20145499	Sample	83	83						
20145533	Sample	92	82						
20145536	Sample	76	75						
20145537	Sample	83	83						
20146064	Sample	78	76						
25084B1	Blank	92	93						
25084S1	LCS	97	92						
25084S2	LCS	98	94						
QC limits:		34-142	24-165						

Sur 1: 4-Bromofluorobenzene (PID) (S)
Sur 2: 4-Bromofluorobenzene (PID confirmat

* denotes surrogate recovery outside of QC limits.
denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
Lab ID consisting of a batch number with a B suffix is a method blank.
Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4-8-2003 16:14:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469 0555

www.pacelabs.com

Method: Med Soil GC Organics

Report: 2017720

Batch: 25085

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20145488	Sample	76							
20145489	Sample	69							
20145490	Sample	87							
20145491	Sample	74							
20145492	Sample	83							
20145493	Sample	75							
20145494	Sample	62							
20145495	Sample	76							
20145496	Sample	81							
20145497	Sample	81							
20145498	Sample	74							
20145499	Sample	80							
20145533	Sample	73							
20145534	Sample	76							
20145535	Sample	75							
20145536	Sample	73							
20145537	Sample	81							
20145538	Sample	51							
20145539	Sample	81							
25085B1	Blank	89							
25085S1	LCS	89							
25085S2	LCS	87							
QC limits:		36-160							

Sur 1: 1,2,4-Trichlorobenzene (S)

* denotes surrogate recovery outside of QC limits.
denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
Lab ID consisting of a batch number with a B suffix is a method blank.
Lab ID consisting of a batch number with a S suffix is an LCS.
Lab ID with a MS suffix is a matrix spike.
Lab ID with a MSD suffix is a matrix spike duplicate.

4-8-2003 16:14:52

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24950B1

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 24950 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 10:00 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-8 2003 16:14:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/nW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24950B2

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 24950 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 22:21 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24950B3

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 24950 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 02-Apr-03 06:45 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/Et WHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24955B1

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 24955 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 03:41 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-8-2003 16:14 54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 50002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24955B2

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 24955 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 09:46 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24955B3

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 24955 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 22:07 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-8-2003 16:14:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24955B4

Description: Water Method Blank

Project No.: 2017720

Method: Water 8021

Batch: 24955

Units: ug/L

Prep Factor: 1

Leached:

Prepared:

Analyzed: 02-Apr-03 06:30 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-8-2003 16:14:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25079B1

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 25079 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 03-Apr-03 19:39 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0
	TPH - Gasoline Range Organics	1	ND		50.0

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4 8 2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25079B2

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 25079 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Apr-03 03:00 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0
	TPH - Gasoline Range Organics	1	ND		50.0

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-5-2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 59002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25079B3

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 25079 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Apr-03 07:53 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0
	TPH - Gasoline Range Organics	1	ND		50.0

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25080B1

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 25080 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 03-Apr-03 19:24 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25080B2

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 25080 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Apr-03 02:45 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-8-2003 16:14:56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25080B3

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 25080 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Apr-03 07:39 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 56002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25084B1

Description: Med Soil Method Blan **Project No.:** 2017720

Method: Med Soil 8021 **Batch:** 25084 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 03-Apr-03 **Analyzed:** 04-Apr-03 16:28 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		25.0
100-41-4	Ethylbenzene	1	ND		25.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		25.0
108-88-3	Toluene	1	ND		25.0
1330-20-7	m,p-Xylene	1	ND		25.0
95-47-6	o-Xylene	1	ND		25.0

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-8-2003 16:14:56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25085B1

Description: Med Soil Method Blan

Project No.: 2017720

Method: Med Soil GC Organics

Batch: 25085

Units: ug/kg

Prep Factor: 1

Leached:

Prepared: 03-Apr-03

Analyzed: 04-Apr-03 16:42 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		2500

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report Qualifiers

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Analyte Qualifiers

Qualifier	Qualifier Description
G1	Interferences are present which caused poor surrogate recovery.
Ph	The relative percent difference between the two detectors is greater than 40%, indicating interference on one or more detectors. The higher of the two values is reported.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services
Foreign Soil Import (U.S. Territories)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

739206

Page: 1 of 2

Section A — Required Client Information:

Company: Chevron
Address: P.O. Box 4256
Houston, TX 77210
Phone: 713 219 5249
Fax:

Section B — Required Client Information:

Report To: Seth Demangue (CRA)
Copy To: BILL DELANGE (CHEVRON)
Invoice To: Bill Delange (CHEVRON)
PO:
Project Name: 2929 COLLEGE DR., BTR, LA
Project Number: SS# 60109060

Client Information (Check quote/contract):
Requested Due Date:
TAT: STD

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days

Section C — To Be Completed by Pace Analytical and Client:

Quote Reference:
Project Manager:
Project #:
Profile #:
Requested Analysis: BTEX/MTBE 8021B; TPH-GRO 8015B

Section D — Required Client Information:

Valid Matrix Codes:

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	SB01-(2-4)	SL	3/27/03	0945a										5035
2	SB01-(12-14)	SL	3/27/03	0948a										
3	SB02-(2-4)			0955a										
4	SB02-(10-12)			1015										
5	SB03-(0-2)			1000a										
6	SB03-(10-12)			1120a										
7	SB04-(0-2)			1025a										
8	SB04-(10-12)			1050a										
9	SB05-(0-2)			1125a										
10	SB05-(10-12)			1150a										
11	SB06-(0-2)			1325p										
12	SB06-(10-12)	SL	3/27/03	1350										5035

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
			1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	David Dickey CRA			Fiona Pace	3/28	10am
	Fiona	3/28/03	1515	Anna W Nash Pace	3/28/03	1515

SAMPLE CONDITION

Temp in °C	39
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

SAMPLE NOTES

*Please dispose of all samples not listed on COC.

CRA # 27453-00

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Dickey
SIGNATURE of SAMPLER: David Dickey
DATE Signed (MM / DD / YY): 3/27/03

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

739207

Page: 2 of 2

Section A — Required Client Information:

Company: Chevron
Address: P.O. Box 4256, Houston, Tx 77210
Phone: 713 219 5219
Fax:

Section B — Required Client Information:

Report To: Seth Domangre (CRA)
Copy To: BILL DELANGE (CHEVRON)
Invoice To: Bill Delange (CHEVRON)
PO:
Project Name: 2929 COLLEGE DR., BTR, LA
Project Number: SBI# 60109060

Client Information (Check quote/contract):
Requested Due Date:
*TAT: STD

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #:
Profile #:
Requested Analysis:

Section D — Required Client Information.

Valid Matrix Codes:

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX/MTBE 8021B TPH-GRO 8015B	Remarks / Lab ID
1	SB01	WT	3/27/03	1410	4				X					X	
2	SB02			1420	4				X		X			X	
3	SB03			1440	4				X					X	
4	SB04			1425	4				X					X	
5	SB05			1435	4				X					X	
6	SB06	WT	3/27/03	1450	3				X					X	
7															
8															
9															
10															
11															
12															

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			1		David Dickey			Firmin Pace	3/28	10:00
					Firmin	3/28/03	15:15	Annie Walsh Pace	3/28/03	15:15

SAMPLE CONDITION

Temp in °C	3.9
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

SAMPLE NOTES

CRA# 27453-00

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Dickey
SIGNATURE of SAMPLER: David Dickey
DATE Signed: (MM / DD / YY) 03.27.03

APPENDIX C

LDEQ NOTIFICATION FORM

INCIDENT # _____

DATE _____ **04/14/03** _____

LOUISIANA NOTIFICATION REQUIREMENTS

This form should be completed and submitted to the Underground Storage Tank Division within seven (7) calendar days after verbal notification.

If mailed, submittal date will be the postmark date of the written notification. Forward to:

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
P. O. Box 82215
Baton Rouge, LA 70884-2215
Attention: SURVEILLANCE DIVISION – SPOC
"UNAUTHORIZED DISCHARGE NOTIFICATION REPORT"

1. Name of person, company, or other party who is filing the written report.

   CRA, Inc., Baton Rouge, Louisiana, as environmental consultant for Chevron Environmental Management Company; represented by Bill Delange; P.O. Box 4256, Houston, TX 77210

2. Time and date of verbal notification, name of person making the notification, and identification of the site or facility. (Name and address)

   April 14, 2003, 3:05 p.m., to Jessica Troxclair, LDEQ/SPOC, Baton Rouge; Seth P. Domangue, CRA, Inc., Baton Rouge, LA;

   Chevron Service Station No. 60109060
   2929 College Drive
   Baton Rouge, LA

3. Release date and time.

   Unknown

4. Incident details and/or emergency condition.

   Analytical results for several soil and groundwater samples collected during site assessment activities showed hydrocarbon concentrations above the LDEQ RECAP Screening Standards (SS). No emergency conditions existed.

5. Product released and estimated quantity released in gallons.

   Gasoline - Quantity released is unknown.

6. Surface or groundwater impact.

   Groundwater benzene, ethylbenzene, MTBE, and TPH-GRO concentrations above RECAP SS were detected.

7. Action taken to stop release.

   Not Applicable.

8. Measures taken to prevent recurrence of the incident.

   Tank tightness tests and inventory data record review ordered by Chevron.

9. Is the U.S.T. system registered?

   YES __X____ U.S.T. ID# ____unknown_____

   NO _____

ANSWER THE FOLLOWING ONLY IF GROUNDWATER CONTAMINATION IS CONFIRMED

1. Reporting party status (owner, operator, consultant, etc.).

   Environmental consultant for Chevron Environmental Mgmt. Company.

2. Attach groundwater contamination data and/or analytical results.

   Tables summarizing soil and groundwater analytical results, a copy of the analytical laboratory report and soil boring logs are attached.

3. Possible routes of migration.

   Groundwater, underground utility corridors

4. List all abandoned or active water wells within the immediate area.

   N/A

5. Names of all other responsible parties.

   N/A

June 30, 2003

Facility: Chevron # 109060
Location: 2929 College Drive
Baton Rouge, LA 70808

Inspection Date: 06/24/03

Facility ID No.: 17-001988

Parish: East Baton Rouge
Phone Number: (225) 216-1333
Agency Interest No.: 20619

Tank Owner: Chevron Products Company
5959 Corporate Drive
Houston, TX 77036
ATTN: David Gardner
Phone Number: (713) 219-5223

Owner ID No.: 00061700

Inspection Contact: David Pool.

Inspection By: Charles Melchior CM

Environmental Contact: David Gardner

Pursuant to a site assessment, submitted by CRA Services, which showed concentrations above RECAP Screening Standards, I went to the referenced site on June 24, 2003. There are four 10,000-gallon gasoline USTs at this facility. The tank numbers are 6536, 6537, 6538, and 6539. The brand of products there are Premium, Plus, and two USTs for Regular Unleaded. Both the tanks and lines are made of fiberglass reinforced plastic and the system is pressurized, with automatic flow restrictors in each sump. Spill and overfill containment was installed for each tank on September 9, 1998, and overfill protection is by ball floats for each tank. All piping entering the sumps and dispensers are cathodically protected, with sacrificial anodes used for each sump. Mr. Pool told me that the sumps were pumped out on June 19, 2003, and when I arrived they were full of water due to the recent rains. He called US Filters and while we were at another Chevron site, the sumps were pumped out.

No areas of concern were observed during the inspection. Tank and line tightness testing does not indicate a release.

If you have any questions, please contact me.

REMEDIATION SERVICES DIVISION
Manager: Walk
Team Leader: _____
File Room: _____ AI #: 20619
Log Number: _____

RECEIVED
JUL 30 2003
LA DEPT. OF ENV. QUALITY
REMEDIATION SERVICES DIVISION
LOG 79 2004
650

Source of release: UST system, may be residuals from old release, closed under old matrix.
Sampling Data Exists? Yes ☒ **(attach results) No** ☐
Samples taken by: PRP ☐ **LDEQ** ☐ **Other** ☒
Explain other: CRA, Inc.

Media Sampled: Soil and groundwater

Parameters Analyzed: BTEX, TPH-GRO, and MTBE.

Constituents of Concern Detected: In the soils, benzene and TPH-GRO and in the groundwater, benzene, ethylbenzene, MTBE, and TPH-GRO.

Sampling Details (media, locations, depths, etc. Attach diagram if available): samples taken during a site assessment.

☐ **Samples not collected due to visual evidence of a release and/or process knowledge.**
Explain:

Summary of Discovery: Soil and groundwater contamination discovered during a site assessment.

Description of actions taken in response to Discovery: Reported to LDEQ.

Evidence of impact or imminent threat to sensitive receptors? ☒ **No** ☐ **Yes**
Details for yes:

Basis for Referral to the RSD: Soil samples were above RECAP SS for benzene and TPH-GRO and ground water samples were above RECAP SS for benzene, ethylbenzene, MTBE, and TPH-GRO.

Referred By: Charles J. Melchior

Date: 6/30/03

Phone Number: (225) 765-2311

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 20619 INSPECTION DATE: 6/24/03 TIME OF ARRIVAL: 8:56 AM
ALTERNATE ID#: 17-001998 (ID Type/Number) DEPARTURE DATE: 6/24/03 TIME OF DEPARTURE: 11:20 AM
FACILITY NAME: Chevron # 109060 PH #: (225) 216-1333
LOCATION: 2929 College Drive, Baton Rouge, LA 70808 PARISH NAME: EBR
RECEIVING STREAM (BASIN/SUBSEGMENT): —
MAILING ADDRESS: P.O. Box 6004 (Street/P.O. Box) San Ramon (City) CA (State) 94583-0904 (ZIP)
FACILITY REPRESENTATIVE: David Pool TITLE: ES&H
FACILITY REPRESENTATIVE PHONE NUMBER: (281) 347-7665
NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above): Mr Pool, 5959 Corporate Drive, Houston TX 77036

INSPECTION TYPE: Compliance PROGRAM INVOLVED: AIR (WASTE) WATER OTHER UST

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

Pursuant to a site assessment performed by CRA Services, a compliance inspection was performed at the referenced facility. Mr. Pool provided all records and reports necessary for this inspection and accompanied me on the facility tour. During the inspection, the following was observed.

- All records and reports were satisfactory.

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
		YES NO
	N/A	
		YES NO

PHOTOS TAKEN: ☐ YES ☒ NO SAMPLES TAKEN: ☐ YES ☒ NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE: [signature]
PRINT NAME: J. DAVID POOL
(NOTE: SIGNATURE DOES NOT NECESSARILY INDICATE AGREEMENT WITH INSPECTOR'S STATED OBSERVATIONS)

INSPECTOR(S): Charles Melchior CROSS REFERENCE:
ATTACHMENTS: Inspection report, Narrative, & Tightness Test
REVIEWER: Evita N. Fagard

NOTE: The Information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

Compliance Inspection Checklist
for
Underground Storage Tanks

Facility ID # 17-001998 Incident Log # N/A

Inspection Date 06/24/03 Arrival Time 8:36 AM Departure Time 11:20 AM

Inspector Charles J. Melchior Facility Representative David Pool

---

Facility	Chevron # 109060	Owner	Chevron Products Company
Street	2929 College Drive	Street	5959 Corporate Drive
City	Baton Rouge, LA	City	Houston
Zip Code	70808	State	Texas
Parish	East Baton Rouge	Zip Code	77036
Telephone	(225) 216-1333	Telephone	(713) 219-5223

		6536	6537	6538	6539
Current registration certificate posted		X	X	X	X
Date of tank installation or upgrade		1/1/91	1/1/91	1/1/91	1/1/91
Method of Release Detection for Tanks (one required for each column)					
Interstitial monitoring at least monthly	LAC 33 XI.701.A.6 703.B.1				
Automatic tank gauging at least monthly	701.A.4 703.B.1	X	X	X	X
Vapor monitoring at least monthly	701.A.5.b 703.B.1				
Groundwater monitoring at least monthly	701.A.5.c 703.B.1				
Manual tank gauging alone at least weekly (only for tanks <551 gallons)	701.A.2 703.B.1.c				
Manual tank gauging monthly and tank tightness testing (only for tanks 551-2000 gallons and 10 year maximum use)	701.A.2 703 B 1.a				
Inventory control monthly and tank tightness testing (10 year maximum use)	701.A.1 703.B.1.a				
Other approved method (specify on an attached "Comments" page)	701.A.7				
Release Detection Devices for All Piping (one required for each column)					
Automatic flow restrictor (example: red jacket LLD on pressure piping)	701.B.1	X	X	X	X
Automatic shut-off device (example: check valve on suction piping)	701.B.1				
Audible or visual alarm	701.B.1				
Additional Release Detection Methods for Pressurized Piping (one required for each column)					
Annual line tightness testing	701.B.2 703.B.2.a	X	X	X	X
Monthly monitoring	701.B.3 703.B.2.a				

Facility ID # 17-001998 Date 06/24/03

Additional Release Detection Methods for Suction Piping (one required for each column)					
Monthly monitoring	LAC 33 XI.701.B.3 703.B.2.b				
Line tightness testing every 3 years	701.B.2 703.B.2.b				
Piping does not require additional release detection	703.B.2.b				
Release Detection Records (all required for each column)					
All records of sampling, testing, and monitoring are retained for at least one year	705.B	Yes	Yes	Yes	Yes
All records of calibration, maintenance, or repairs on release detection equipment retained for at least one year	705.C	Yes	Yes	Yes	Yes
All schedules of required calibration and maintenance of release detection equipment retained for 5 years	705.C	Yes	Yes	Yes	Yes
Tank tightness testing records are retained until next test is conducted	705.B	Yes	Yes	Yes	Yes
All written performance claims and documentation provided By the release detection system vendor are maintained	705.A	Yes	Yes	Yes	Yes
Corrosion Protection of Tanks (one required for each column)					
Fiberglass reinforced plastic tank	303.A.1.a	X	X	X	X
Coated and cathodically protected steel tank	303.A.1.b				
Steel tank clad or jacketed with dielectric material	303.A.1.c				
Tank retrofitted with cathodic protection	303.B.2.b				
Tank retrofitted with interior lining	303.B.2.a				
Other corrosion protection (specify on an attached "Comments" page)					
Corrosion Protection of Piping (one required for each column)					
Fiberglass reinforced plastic piping	303.A.2.a	X	X	X	X
Coated and cathodically protected steel piping	303.A.2.b				
Piping retrofitted with cathodic protection	303.B.3				
Other corrosion protection (specify on an attached "Comments" page)					
Cathodic Protection Records (as applicable for each column)					
Cathodic protection systems are inspected by qualified testers at the required frequency	503.B.1				
Results of the last two inspections are retained	503.D.2				
If an impressed current cathodic protection system is used, results of the last three inspections are retained	503.D.1				
Spill Prevention Equipment (required for each column)					
Spill prevention equipment will prevent release of product when transfer hose is detached from fill pipe	303.A.3.a	X	X	X	X
Overfill Prevention Equipment (one required for each column)					
Overfill equipment will automatically shut off flow to tank when tank is no more than 95% full (butterfly)	303.A 3.a				
Overfill equipment will automatically alert the transfer operator when tank is no more than 90% full (alarm)	303.A.3.a				
Overfill equipment will restrict flow 30 minutes prior to overfilling or alert operator one minute before overfilling (ball float)	303.A.3 a	X	X	X	X
Other Requirements for Entire Facility					
All notification forms have been filed with the appropriate authority	LAC 33.XI.509.A				Yes
All records of UST system repairs have been retained for the operating life of the UST system	507.G.3				Yes
The requirements for the permanent closure of any USTs have been satisfied, and site assessment results are retained for 3 years	905 509.A.4,5				Yes
The requirements for any temporarily closed USTs have been satisfied	903				N/A
Evidence of "Financial Responsibility" is available	1102 1121.B				Yes

Compliance Inspection Checklist
for
Underground Storage Tanks

Facility ID # **17-001998** Incident Log # **60402**

Inspection Date **06/24/03** Arrival Time **8:36 AM** Departure Time **11:20 AM**

Inspector **Charles J. Melchior** Facility Representative **David Pool**

Facility	**Chevron # 109060**	Owner	**Chevron Products Company**
Street	**2929 College Drive**	Street	**5959 Corporate Drive**
City	**Baton Rouge, LA**	City	**Houston**
Zip Code	**70808**	State	**Texas**
Parish	**East Baton Rouge**	Zip Code	**77036**
Telephone	**(225) 216-1333**	Telephone	**(713) 219-5223**

		6536	6537	6538	6539
Current registration certificate posted		X	X	X	X
Date of tank installation or upgrade		1/1/91	1/1/91	1/1/91	1/1/91
Method of Release Detection for Tanks (one required for each column)					
Interstitial monitoring at least monthly	LAC 33.XI.701.A.6 703.B.1				
Automatic tank gauging at least monthly	701.A.4 703.B.1	X	X	X	X
Vapor monitoring at least monthly	701.A.5.b 703.B.1				
Groundwater monitoring at least monthly	701.A.5.c 703.B.1				
Manual tank gauging alone at least weekly (only for tanks <551 gallons)	701.A.2 703.B.1.c				
Manual tank gauging monthly and tank tightness testing (only for tanks 551-2000 gallons and 10 year maximum use)	701.A.2 703.B.1.a				
Inventory control monthly and tank tightness testing (10 year maximum use)	701.A.1 703.B.1.a				
Other approved method (specify on an attached "Comments" page)	701.A.7				
Release Detection Devices for All Piping (one required for each column)					
Automatic flow restrictor (example: red jacket LLD on pressure piping)	701.B.1	X	X	X	X
Automatic shut-off device (example: check valve on suction piping)	701.B.1				
Audible or visual alarm	701.B.1				
Additional Release Detection Methods for Pressurized Piping (one required for each column)					
Annual line tightness testing	701.B.2 703.B.2.a	X	X	X	X
Monthly monitoring	701.B.3 703.B.2.a				

S03-1364 AI 20619
T 60402
INCIDENT # Evita Sagard ICRD

DATE 4/14/03

LOUISIANA NOTIFICATION REQUIREMENTS

This form should be completed and submitted to the Underground Storage Tank Division within seven (7) calendar days after verbal notification.

If mailed, submittal date will be the postmark date of the written notification. Forward to:

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
P. O. Box 82215
Baton Rouge, LA 70884-2215
Attention: SURVEILLANCE DIVISION – SPOC
"UNAUTHORIZED DISCHARGE NOTIFICATION REPORT"

1. Name of person, company, or other party who is filing the written report.

   CRA, Inc., Baton Rouge, Louisiana, as environmental consultant for Chevron Environmental Management Company; represented by Bill Delange; P.O. Box 4256, Houston, TX 77210

2. Time and date of verbal notification, name of person making the notification, and identification of the site or facility. (Name and address)

   April 14, 2003, 3:05 p.m., to Jessica Troxclair, LDEQ/SPOC, Baton Rouge; Seth P. Domangue, CRA, Inc., Baton Rouge, LA;

   Chevron Facility No. 60109060
   2929 College Dr.
   Baton Rouge, LA

RECEIVED
APR 22 2003
DEQ
Single Point of Contact

3. Release date and time.

   Unknown

4. Incident details and/or emergency condition.

   Analytical results for several soil and groundwater samples collected during site assessment activities showed hydrocarbon concentrations above the LDEQ RECAP Screening Standards (SS). No emergency conditions existed.

5. Product released and estimated quantity released in gallons.

   Gasoline - Quantity released is unknown.

6. Surface or groundwater impact.

   Groundwater benzene, ethylbenzene, MTBE, and TPH-GRO concentrations above RECAP SS were detected.

7. Action taken to stop release.

   Not Applicable.

8. Measures taken to prevent recurrence of the incident.

   Tank tightness tests and inventory data record review ordered by Chevron.

9. Is the U.S.T. system registered?

   YES __X____ U.S.T. ID# ___unknown_____

   NO _____

ANSWER THE FOLLOWING ONLY IF GROUNDWATER CONTAMINATION IS CONFIRMED

1. Reporting party status (owner, operator, consultant, etc.).

   Environmental consultant for Chevron Environmental Mgmt. Company.

2. Attach groundwater contamination data and/or analytical results.

Tables summarizing soil and groundwater analytical results, a copy of the analytical laboratory report and soil boring logs are attached.

3. Possible routes of migration.

   Groundwater, underground utility corridors

4. List all abandoned or active water wells within the immediate area.

   N/A

5. Names of all other responsible parties.

   N/A

TABLES

TABLE 1

SOIL SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON FACILITY NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

		Parameter					
Boring (depth)	*Sample Date*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethylbenzene (mg/kg)*	*Xylenes (mg/kg)*	*MTBE (mg/kg)*	*TPH-GRO (mg/kg)*
		*0.051**	*20**	*19**	*150**	*20**	*65**
SB-01 (2' - 4')	03/27/03	0.331	<0.0216	9.42	1.05	<0.0216	207
SB-01 (12' - 14')	03/27/03	<0.0226	<0.0226	1.110	<0.0226	0.064	63.7
SB-02 (2' - 4')	03/27/03	<0.0238	<0.0238	0.0812	<0.0238	<0.0238	10.8
SB-02 (10' - 12')	03/27/03	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<2.39
SB-03 (0' - 2')	03/27/03	<0.0264	<0.0264	<0.0264	<0.0264	<0.0264	7.59
SB-03 (10' - 12')	03/27/03	<0.0298	<0.0298	<0.0298	<0.0298	<0.0298	<2.975
SB-04 (0' - 2')	03/27/03	0.0786	0.122	0.177	0.1652	<0.0239	7.33
SB-04 (10' - 12')	03/27/03	<0.0238	<0.0238	<0.0238	<0.0238	0.23	<2.375
SB-05 (0' - 2')	03/27/03	<0.0236	<0.0236	<0.0236	<0.0236	<0.0236	5.8
SB-05 (10' - 12')	03/27/03	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<2.62
SB-06 (0' - 2')	03/27/03	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<2.215
SB-06 (10' - 12')	03/27/03	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<2.385

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
mg/kg – Milligrams per kilogram, which is equivalent to parts per million (ppm).
* Screening standards specified in the LDEQ's June 20, 2000, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
NOTES: Bolded and Shaded figures indicate RECAP Screening Standard exceedences.

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON FACILITY NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Sample Location	Sample Date	Parameter					
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TPH-GRO (mg/L)
		0.005*	1.0*	0.7*	10*	0.52*	0.15*
SB-01	03/27/03	**0.141**	0.0161	**0.854**	0.259	**0.395**	**11.1**
SB-02	03/27/03	0.0018	0.00087	0.0066	0.0017	0.0252	**0.256**
SB-03	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	0.046	**0.767**
SB-04	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	**0.737**	**0.482**
SB-05	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	0.0052	0.0883
SB-06	03/27/03	<0.0005	0.0012	0.0035	0.0117	0.0142	0.0693

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
* Screening standards specified in the LDEQ RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
NOTES: Bolded and Shaded figures indicate RECAP Screening Standard exceedences.

SOIL AND GROUNDWATER ANALYTICAL LABORATORY REPORT

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd., Suite F
St. Rose, LA 70087
Phone: 504.469.0333
Fax: 504.469.0555

April 08, 2003

Mr. Bill DeLange
CHEVRON PRODUCTS CO.
5959 Corporate Dr.
Houston, TX 77036

RE: Lab Project Number: 2017720
Client Project ID: 60109060

Dear Mr. DeLange:

Enclosed are the analytical results for sample(s) received by the laboratory March 27, 2003through March 28, 2003 Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com
Project Manager

Enclosures

Sample Cross Reference Report

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Project: 60109060

Project No.: 2017720

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
SB01	20145482	Water	03/27/2003	14:10	03/27/2003	15:15
SB01-(12-14)	20145489	Soil	03/27/2003	09:40	03/28/2003	15:15
SB01-(2-4)	20145488	Soil	03/27/2003	09:15	03/28/2003	15:15
SB02	20145483	Water	03/27/2003	14:20	03/27/2003	15:15
SB02-(10-12)	20145491	Soil	03/27/2003	10:15	03/28/2003	15:15
SB02-(2-4)	20145490	Soil	03/27/2003	09:55	03/28/2003	15:15
SB03	20145484	Water	03/27/2003	14:40	03/27/2003	15:15
SB03-(0-2)	20145492	Soil	03/27/2003	10:55	03/28/2003	15:15
SB03-(10-12)	20145493	Soil	03/27/2003	11:20	03/28/2003	15:15
SB04	20145485	Water	03/27/2003	14:25	03/27/2003	15:15
SB04-(0-2)	20145494	Soil	03/27/2003	10:25	03/28/2003	15:15
SB04-(10-12)	20145495	Soil	03/27/2003	10:50	03/28/2003	15:15
SB05	20145486	Water	03/27/2003	14:35	03/27/2003	15:15
SB05-(0-2)	20145496	Soil	03/27/2003	11:25	03/28/2003	15:15
SB05-(10-12)	20145497	Soil	03/27/2003	11:50	03/28/2003	15:15
SB06	20145487	Water	03/27/2003	14:50	03/27/2003	15:15
SB06-(0-2)	20145498	Soil	03/27/2003	13:25	03/28/2003	15:15
SB06-(10-12)	20145499	Soil	03/27/2003	13:50	03/28/2003	15:15

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB01 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145482 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	24950	10	11100	D1	ug/L	500.		02-Apr-03 00:27	
Benzene	SW 8021 Arom	24955	10	141.	D1	ug/L	5.00		02-Apr-03 00:13	
Ethylbenzene	SW 8021 Arom	24955	10	854.	D1	ug/L	5.00		02-Apr-03 00:13	
Methyl tert-butyl ether (	SW 8021 Arom	24955	10	395.	D1	ug/L	5.00		02-Apr-03 00:13	
Toluene	SW 8021 Arom	24955	10	16.1	Ph D1	ug/L	5.00		02-Apr-03 00:13	
m,p-Xylene	SW 8021 Arom	24955	10	259.	D1	ug/L	5.00		02-Apr-03 00:13	
o-Xylene	SW 8021 Arom	24955	10	ND	D1	ug/L	5.00		02-Apr-03 00:13	

7 parameter(s) reported

Client ID: SB02 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145483 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	256.		ug/L	50.0		04-Apr-03 13:06	
Benzene	SW 8021 Arom	25080	1	1.80		ug/L	0.500		04-Apr-03 04:51	
Ethylbenzene	SW 8021 Arom	25080	1	6.60	Ph	ug/L	0.500		04-Apr-03 04:51	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	25.2		ug/L	0.500		04-Apr-03 04:51	
Toluene	SW 8021 Arom	25080	1	0.870		ug/L	0.500		04-Apr-03 04:51	
m,p-Xylene	SW 8021 Arom	25080	1	1.70		ug/L	0.500		04-Apr-03 04:51	
o-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 04:51	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4-9-2003 05:29:28

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB03 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145484 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	767.		ug/L	50.0		04-Apr-03 05:26	
Benzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	
Ethylbenzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	46.0		ug/L	0.500		04-Apr-03 05:12	
Toluene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	
m,p-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	
o-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:12	

7 parameter(s) reported

Client ID: SB04 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145485 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	482.		ug/L	50.0		04-Apr-03 05:47	
Benzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	
Ethylbenzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	737.		ug/L	0.500		04-Apr-03 05:33	
Toluene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	
m,p-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	
o-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:33	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/2003 05:29:29

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB05 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145486 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	88.3		ug/L	50.0		04-Apr-03 06:08	
Benzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	
Ethylbenzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	5.20		ug/L	0.500		04-Apr-03 05:54	
Toluene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	
m,p-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	
o-Xylene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 05:54	

7 parameter(s) reported

Client ID: SB06 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145487 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/27/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25079	1	69.3		ug/L	50.0		04-Apr-03 06:29	
Benzene	SW 8021 Arom	25080	1	ND		ug/L	0.500		04-Apr-03 06:15	
Ethylbenzene	SW 8021 Arom	25080	1	3.50		ug/L	0.500		04-Apr-03 06:15	
Methyl tert-butyl ether (	SW 8021 Arom	25080	1	14.2		ug/L	0.500		04-Apr-03 06:15	
Toluene	SW 8021 Arom	25080	1	1.20		ug/L	0.500		04-Apr-03 06:15	
m,p-Xylene	SW 8021 Arom	25080	1	9.60		ug/L	0.500		04-Apr-03 06:15	
o-Xylene	SW 8021 Arom	25080	1	2.10		ug/L	0.500		04-Apr-03 06:15	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/2003 08:29:30

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S 47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB01-(2-4) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145488 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	10	207000	D1	ug/kg	21600	03-Apr-03	07-Apr-03 21:46	
Benzene	SW 8021 Arom	25084	1	331.	Ph	ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
Ethylbenzene	SW 8021 Arom	25084	1	9420		ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
m,p-Xylene	SW 8021 Arom	25084	1	1050	Ph	ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	21.6	03-Apr-03	04-Apr-03 17:51	

7 parameter(s) reported

Client ID: SB01-(12-14) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145489 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	63700		ug/kg	2255	03-Apr-03	07-Apr-03 22:07	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
Ethylbenzene	SW 8021 Arom	25084	1	1110	Ph	ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	64.0		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	22.6	03-Apr-03	04-Apr-03 18:12	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4-9-2003 08:29:30

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB02-(2-4) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145490 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	10800		ug/kg	2375	03-Apr-03	07-Apr-03 22:28	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
Ethylbenzene	SW 8021 Arom	25084	1	81.2	Ph	ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 18:33	

7 parameter(s) reported

Client ID: SB02-(10-12) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145491 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2390	03-Apr-03	04-Apr-03 19:08	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 18:54	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/2003 08:29:31

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB03-(0-2) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145492 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	7590		ug/kg	2635	03-Apr-03	04-Apr-03 19:29	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	26.4	03-Apr-03	04-Apr-03 19:15	

7 parameter(s) reported

Client ID: SB03-(10-12) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145493 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2975	03-Apr-03	04-Apr-03 19:50	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	29.8	03-Apr-03	04-Apr-03 19:36	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4 9 2003 08:29:32

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB04-(0-2) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145494 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	7330		ug/kg	2395	03-Apr-03	04-Apr-03 22:18	
Benzene	SW 8021 Arom	25084	1	78.6		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
Ethylbenzene	SW 8021 Arom	25084	1	177.		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
Toluene	SW 8021 Arom	25084	1	122.	Ph	ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
m,p-Xylene	SW 8021 Arom	25084	1	94.8		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	
o-Xylene	SW 8021 Arom	25084	1	70.4		ug/kg	23.9	03-Apr-03	04-Apr-03 22:03	

7 parameter(s) reported

Client ID: SB04-(10-12) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145495 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2375	03-Apr-03	04-Apr-03 22:39	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	230.		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.8	03-Apr-03	04-Apr-03 22:24	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9 2003 08:29:32

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S47270

Report of Laboratory Analysis

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB05-(0-2) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145496 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	5800		ug/kg	2360	03-Apr-03	04-Apr-03 23:00	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.6	03-Apr-03	04-Apr-03 22:45	

7 parameter(s) reported

Client ID: SB05-(10-12) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145497 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2620	03-Apr-03	04-Apr-03 23:21	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	26.2	03-Apr-03	04-Apr-03 23:06	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4-9-2003 08:29:33

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB06-(0-2) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145498 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2215	03-Apr-03	04-Apr-03 23:41	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	22.1	03-Apr-03	04-Apr-03 23:27	

7 parameter(s) reported

Client ID: SB06-(10-12) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20145499 **Project No.:** 2017720 **Prep Factor:** 1
Description: None **Collected:** 03/27/03 **Received:** 03/28/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	Louisiana TPH	25085	1	ND		ug/kg	2385	03-Apr-03	05-Apr-03 00:02	
Benzene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
Ethylbenzene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
Methyl tert-butyl ether (	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
Toluene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
m,p-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	
o-Xylene	SW 8021 Arom	25084	1	ND		ug/kg	23.9	03-Apr-03	04-Apr-03 23:48	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4-9-2003 08:29:34

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Project No.: 2017720

Batch: 24950

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	500.00	109			500.00	95	100	5		50 - 150	50 - 150	25	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4-8-2003 16:14:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Water GC Organics

Batch: 25079

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	500.00	107			500.00	77	76	1		50 - 150	50 - 150	25	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4-8-2003 16:14:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services
Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Med Soil GC Organics

Batch: 25085

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	25000.00	95	95	0	25000.00					50 - 150	50 - 150	50	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4/8/2003 16:14:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Water 8021 Batch: 24955 Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	20.00	111			20.00	104	107	2		39 - 150	39 - 150	25	
Benzene	20.00	113			20.00					39 - 150	39 - 150	25	
Ethylbenzene	20.00	111			20.00	99	101	2		32 - 160	32 - 160	25	
Ethylbenzene	20.00	112			20.00					32 - 160	32 - 160	25	
Methyl tert-butyl ether (MTBE)	20.00	109			20.00	106	105	0		27 - 151	0 - 190	25	
Methyl tert-butyl ether (MTBE)	20.00	109			20.00					27 - 151	0 - 190	25	
Toluene	20.00	109			20.00	101	104	3		46 - 148	46 - 148	25	
Toluene	20.00	112			20.00					46 - 148	46 - 148	25	
m,p-Xylene	40.00	114			40.00	101	103	2		50 - 132	46 - 134	25	
m,p-Xylene	40.00	118			40.00					50 - 132	46 - 134	25	
o-Xylene	20.00	112			20.00	99	101	2		51 - 135	43 - 139	25	
o-Xylene	20.00	113			20.00					51 - 135	43 - 139	25	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4/8/2003 16:14:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Water 8021 Batch: 25080 Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	20.00	114			20.00	112	112	0		39 - 150	39 - 150	25	
Ethylbenzene	20.00	112			20.00	105	104	1		32 - 160	32 - 160	25	
Methyl tert-butyl ether (MTBE)	20.00	120			20.00	121	121	0		27 - 151	0 - 190	25	
Toluene	20.00	113			20.00	111	110	1		46 - 148	46 - 148	25	
m,p-Xylene	40.00	118			40.00	108	106	1		50 - 132	46 - 134	25	
o-Xylene	20.00	114			20.00	107	105	1		51 - 135	43 - 139	25	

6 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4-8-2003 15:14:49

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Method: Med Soil 8021

Batch: 25084

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	1000.00	107	108	1	1000.00					30 - 137	17 - 144	50	
Ethylbenzene	1000.00	107	108	1	1000.00					53 - 124	38 - 135	50	
Methyl tert-butyl ether (MTBE)	1000.00	104	107	3	1000.00					50 - 150	24 - 147	50	
Toluene	1000.00	106	107	1	1000.00					54 - 130	40 - 137	50	
m,p-Xylene	2000.00	112	112	0	2000.00					52 - 135	32 - 154	50	
o-Xylene	1000.00	107	108	1	1000.00					53 - 140	36 - 156	50	

6 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4-8-2003 16:14:49

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Water GC Organics

Batch: 24950

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20144976	Sample	79							
20144977	Sample	72							
20144978	Sample	74							
20144979	Sample	58							
20145042	Sample	88							
20145043	Sample	91							
20145044	Sample	94							
20145085	Sample	92							
20145113	Sample	68							
20145114	Sample	79							
20145382	Sample	79							
20145383	Sample	74							
20145384	Sample	75							
20145386	Sample	72							
20145400	Sample	35*							
20145401	Sample	56							
20145402	Sample	67							
20145403	Sample	69							
20145416	Sample	86							
20145482	Sample	94							
24950B1	Blank	95							
24950B2	Blank	95							
24950B3	Blank	99							
24950MS	Spike	93							
24950MSD	Spike Dup	91							
24950S1	LCS	94							
QC limits:		39-145							

Sur 1: 1,2.4-Trichlorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4.5.2003 16:14:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Report: 2017720

Method: Water 8021

Batch: 24955

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20144976	Sample	91	93						
20144977	Sample	88	84						
20144978	Sample	87	90						
20144979	Sample	91	93						
20144980	Sample	96	100						
20145042	Sample	100	100						
20145043	Sample	100	101						
20145085	Sample	102	101						
20145113	Sample	93	94						
20145114	Sample	89	92						
20145382	Sample	98	92						
20145383	Sample	98	97						
20145384	Sample	99	96						
20145386	Sample	98	97						
20145400	Sample	86	83						
20145401	Sample	81	81						
20145402	Sample	94	91						
20145403	Sample	87	92						
20145416	Sample	96	97						
20145482	Sample	98	94						
24955B1	Blank	95	98						
24955B2	Blank	94	95						
24955B3	Blank	96	94						
24955B4	Blank	92	93						
24955MS	Spike	90	89						
24955MSD	Spike Dup	92	92						
24955S1	LCS	100	101						
24955S2	LCS	101	96						
QC limits:		63-125	64-125						

Sur 1: 4-Bromofluorobenzene (PID) (S)
Sur 2: 4-Bromofluorobenzene (PID confirmat

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/8/2003 16:14:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Water GC Organics

Batch: 25079

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20145483	Sample	66							
20145484	Sample	95							
20145485	Sample	91							
20145486	Sample	88							
20145487	Sample	76							
20145547	Sample	69							
20145548	Sample	89							
20145549	Sample	87							
20145711	Sample	101							
20145781	Sample	100							
20145952	Sample	82							
20145953	Sample	89							
20145954	Sample	88							
20145955	Sample	88							
20145956	Sample	89							
20145957	Sample	98							
20146096	Sample	94							
20146097	Sample	85							
20146098	Sample	84							
20146099	Sample	63							
25079B1	Blank	95							
25079B2	Blank	96							
25079B3	Blank	101							
25079MS	Spike	66							
25079MSD	Spike Dup	65							
25079S1	LCS	101							
QC limits:		39-145							

Sur 1: 1,2,4-Trichlorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4-5-2005 16:14:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000C06
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Water 8021

Batch: 25080

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20145483	Sample	88	85						
20145484	Sample	102	91						
20145485	Sample	97	94						
20145486	Sample	99	99						
20145487	Sample	95	95						
20145547	Sample	96	95						
20145548	Sample	94	85						
20145548DL	Dilution	96	89						
20145549	Sample	93	84						
20145549DL	Dilution	93	88						
20145952	Sample	96	94						
20145953	Sample	96	89						
20145954	Sample	93	89						
20145955	Sample	96	90						
20145956	Sample	95	90						
20145957	Sample	95	95						
20146096	Sample	101	93						
20146097	Sample	97	87						
20146098	Sample	99	90						
20146099	Sample	95	92						
25080B1	Blank	98	96						
25080B2	Blank	95	93						
25080B3	Blank	96	93						
25080MS	Spike	96	89						
25080MSD	Spike Dup	94	89						
25080S1	LCS	103	95						
QC limits:		63-125	64-125						

Sur 1: 4-Bromofluorobenzene (PID) (S)
Sur 2: 4-Bromofluorobenzene (PID confirmat

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/8/2003 15:14:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Med Soil 8021

Batch: 25084

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20145488	Sample G1	161*	106						
20145489	Sample	120	111						
20145490	Sample	87	80						
20145491	Sample	77	77						
20145492	Sample	90	86						
20145493	Sample	78	79						
20145494	Sample	76	73						
20145495	Sample	81	80						
20145496	Sample	84	83						
20145497	Sample	85	84						
20145498	Sample	79	78						
20145499	Sample	83	83						
20145533	Sample	92	82						
20145536	Sample	76	75						
20145537	Sample	83	83						
20146064	Sample	78	76						
25084B1	Blank	92	93						
25084S1	LCS	97	92						
25084S2	LCS	98	94						
QC limits:		34-142	24-165						

Sur 1: 4-Bromofluorobenzene (PID) (S)
Sur 2: 4-Bromofluorobenzene (PID confirmat

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4-8-2003 16:14:51

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2017720

Method: Med Soil GC Organics

Batch: 25085

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20145488	Sample	76							
20145489	Sample	69							
20145490	Sample	87							
20145491	Sample	74							
20145492	Sample	83							
20145493	Sample	75							
20145494	Sample	62							
20145495	Sample	76							
20145496	Sample	81							
20145497	Sample	81							
20145498	Sample	74							
20145499	Sample	80							
20145533	Sample	73							
20145534	Sample	76							
20145535	Sample	75							
20145536	Sample	73							
20145537	Sample	81							
20145538	Sample	51							
20145539	Sample	81							
25085B1	Blank	89							
25085S1	LCS	89							
25085S2	LCS	87							
QC limits:		36-160							

Sur 1: 1,2,4-Trichlorobenzene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4-8-2003 16:14:32

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services
Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24950B1

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 24950 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 10:00 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24950B2

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 24950 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 22:21 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24950B3

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 24950 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 02-Apr-03 06:45 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8 2003 16:14:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24955B1

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 24955 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 03:41 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24955B2

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 24955 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Apr-03 09:46 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 24955B3

Description: Water Method Blank

Project No.: 2017720

Method: Water 8021

Batch: 24955

Units: ug/L

Prep Factor: 1

Leached:

Prepared:

Analyzed: 01-Apr-03 22:07 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-3-2003 16:14:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Lab ID: 24955B4

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 24955 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 02-Apr-03 06:30 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25079B1

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 25079 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 03-Apr-03 19:39 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0
	TPH - Gasoline Range Organics	1	ND		50.0

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25079B2

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 25079 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Apr-03 03:00 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0
	TPH - Gasoline Range Organics	1	ND		50.0

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25079B3

Description: Water Method Blank **Project No.:** 2017720

Method: Water GC Organics **Batch:** 25079 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Apr-03 07:53 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0
	TPH - Gasoline Range Organics	1	ND		50.0

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services
Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25080B1

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 25080 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 03-Apr-03 19:24 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-8-2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000086
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25080B2

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 25080 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Apr-03 02:45 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-8-2003 16:14:56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25080B3

Description: Water Method Blank **Project No.:** 2017720

Method: Water 8021 **Batch:** 25080 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Apr-03 07:39 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14:56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 56002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25084B1

Description: Med Soil Method Blan **Project No.:** 2017720

Method: Med Soil 8021 **Batch:** 25084 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 03-Apr-03 **Analyzed:** 04-Apr-03 16:28 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		25.0
100-41-4	Ethylbenzene	1	ND		25.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		25.0
108-88-3	Toluene	1	ND		25.0
1330-20-7	m,p-Xylene	1	ND		25.0
95-47-6	o-Xylene	1	ND		25.0

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4-3 2003 16:14:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 25085B1

Description: Med Soil Method Blan **Project No.:** 2017720

Method: Med Soil GC Organics **Batch:** 25085 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 03-Apr-03 **Analyzed:** 04-Apr-03 16:42 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		2500

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/8/2003 16:14 56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report Qualifiers

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2017720

Analyte Qualifiers

Qualifier	Qualifier Description
G1	Interferences are present which caused poor surrogate recovery.
Ph	The relative percent difference between the two detectors is greater than 40%, indicating interference on one or more detectors. The higher of the two values is reported.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

739206

Page: 1 of 2

Section A — Required Client Information:

Company: Chevron
Address: P.O. Box 4256
Houston, TX 77210
Phone: 713 219 5219
Fax:

Section B — Required Client Information:

Report To: Seth Demangue (CRA)
Copy To: BILL DELANGE (CHEVRON)
Invoice To: Bill Delange (CHEVRON)
P.O.:
Project Name: 2929 COLLEGE DR., BTR, LA
Project Number: SS# 60109060

Client Information (Check quote/contract):
Requested Due Date:
TAT: STD

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #:
Profile #:
Requested Analysis: BTEX/MTBE 8021B; TPH-GRO 8015B

Section D — Required Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh. mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	SB01-(2-4)	SL	3/27/03	0945a										5035
2	SB01-(12-14)	SL	3/27-03	0948a										
3	SB02-(2-4)			0955a										
4	SB02-(10-12)			1015										
5	SB03-(0-2)			1000a										
6	SB03-(10-12)			1120a										
7	SB04-(2-2)			1025a										
8	SB04-(10-12)			1050a										
9	SB05-(0-2)			1125a										
10	SB05-(10-12)			1150a										
11	SB06-(0-2)			1325p										
12	SB06-(10-12)	SL	3/27/03	1350										5035

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
			1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	David Dickey CRA			Firmin Pace	3/28	10:00
	Firmin	3/28/03	1515	Firmin Pace	3/28/03	15:15

SAMPLE CONDITION

Temp in °C	39
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

SAMPLE NOTES

*Please dispose of all samples not listed on COC.

CRA # 27453-00

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Dickey
SIGNATURE of SAMPLER: David Dickey
DATE Signed: (MM / DD / YY) 3/27/02

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

739207

Page: 2 of 2

Section A — Required Client Information:

Company: Chevron
Address: P.O. Box 4256, Houston, Tx 77210
Phone: 713 219 5219
Fax:

Section B — Required Client Information:

Report To: Seth Domangue (CRA)
Copy To: BILL DELANGE (CHEVRON)
Invoice To: Bill Delange (CHEVRON)
PO:
Project Name: 2929 COLLEGE DR., BTR, LA
Project Number: SBH 60109060

Client Information (Check quote/contract):
Requested Due Date:
*TAT: STD

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #:
Profile #:
Requested Analysis:

Section D — Required Client Information

SAMPLE ID
One character per box.
(A-Z, 0-9 / .-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPL	WP
AIR	AI
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX/MTBE 8021B	TPH-GRO 8015B	Remarks / Lab ID
1	SB01	WT	3/27/03	1410	4				X					X	X	
2	SB02			1420	4				X		X					
3	SB03			1440	4				X							
4	SB04			1425	4				X							
5	SB05			1435	4				X							
6	SB06	WT	3/27/03	1450	3				X							
7																
8																
9																
10																
11																
12																

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
			1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	David Dickey			Francis Pace	3/28	1000
	Francis	3/28/03	15:15	Annie Walsh / PACE	3/28/03	15:15

SAMPLE CONDITION

Temp in °C	3.9
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

SAMPLE NOTES

CRA# 27453-00

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Dickey
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 03.27.03

BORING LOGS

BORING LOG

Project: Baseline Assessment
Chevron Facility No. 60109060
2929 College Dr.
Baton Rouge, Louisiana
Client: Chevron Environmental Mgmt. Company
Houston, Texas

No. SB-1

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 16' Start Time: 0905 Finish Time: 0945
					1,740	2.0					6" Concrete Gray silty CLAY (CL), strong hydrocarbon odor
					1,890	1.0					
					485	1.0		5			
					3.7	1.5					-- brown, tan
					174	1.0					
					2.8	2.0		10			-- gray
					221	2.0					
					2.1	2.5		15	▽		
											Boring terminated at 16' and grouted to the surface with a thick cement-bentonite mixture.

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1)Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

▽ Water First Noted

NP Non Plastic

* No Penetrometer or SPT Value

BORING LOG

Project: Baseline Assessment
Chevron Facility No. 60109060
2929 College Dr.
Baton Rouge, Louisiana
Client: Chevron Environmental Mgmt. Company
Houston, Texas

No. SB-2

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 0950 Finish Time: 1020
					21.4	1.0	X				6" Concrete Gray, silty CLAY (CL), slight hydrocarbon odor
					127	1.5	X				
					82	•	X	5			
					86	1.0	X				Gray SAND (SC)
					3.4	•	X				Gray, silty CLAY (CL)
					<1.0	2.0	X	10	▽		-- brown/tan
								15			Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.

■ Shelby Tube

☒ Direct Push Sampler

▥ Auger Cuttings

▨ No Recovery

(1)Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

▽ Water First Noted

NP *Non Plastic*

• No Penetrometer or SPT Value

BORING LOG

Project: Baseline Assessment
Chevron Facility No. 60109060
2929 College Dr.
Baton Rouge, Louisiana
Client: Chevron Environmental Mgmt. Company
Houston, Texas

No. SB-3

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA						BORING DATA
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 1100 Finish Time: 1115
					14.8	1.5	X				6" Concrete Gray silty CLAYwith some SAND (FILL)
					4.7	•	X				
					4.9	2.0	X				Gray, silty CLAY (CL)
					8.7	1.5	X	5			
					<1.0	2.0	X				-- moist
					6.5	1.0	X				
								10	▽		
					6.0	2.0	X				
											Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.
								15			

■ Shelby Tube

⊠ Direct Push Sampler

▥ Auger Cuttings

▨ No Recovery

(1)Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

▽ Water First Noted

NP Non Plastic

• No Penetrometer or SPT Value

BORING LOG

Project: Baseline Assessment
Chevron Facility No. 60109060
2929 College Dr.
Baton Rouge, Louisiana
Client: Chevron Environmental Mgmt. Company
Houston, Texas

No. SB-4

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 1015 Finish Time: 1055
					16.1	1.0	X				6" Concrete Gray, silty CLAY (CL)
					1.9	2.5	X				
					13.2	1.0	X	5			-- wet
					<1.0	2.0	X				-- brown/tan
					<1.0	1.0	X				
					<1.0	1.5	X	10	▽		
											Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.
								15			

■ Shelby Tube

(1)Photovac 20/20

▽ Water First Noted

X Direct Push Sampler

Auger Cuttings

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

NP Non Plastic

No Recovery

Conestoga-Rovers & Associates

• No Penetrometer or SPT Value

BORING LOG

Project: Baseline Assessment
Chevron Facility No. 60109060
2929 College Dr.
Baton Rouge, Louisiana
Client: Chevron Environmental Mgmt. Company
Houston, Texas

No. SB-5

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 1125 Finish Time: 1150
					2.9	1.5					6" Concrete Tan, silty CLAY with gravel (FILL)
					<1.0	2.5					Gray, silty CLAY (CL)
								5			
					<1.0	2.5					
					<1.0	2.0					-- moist
					<1.0	2.5					
								10	▽		
					<1.0	2.5					-- brown/tan
											Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.
								15			

■ Shelby Tube

⊠ Direct Push Sampler

▥ Auger Cuttings

▨ No Recovery

(1)Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

▽ Water First Noted

NP Non Plastic

* No Penetrometer or SPT Value

BORING LOG

Project: Baseline Assessment
Chevron Facility No. 60109060
2929 College Dr.
Baton Rouge, Louisiana
Client: Chevron Environmental Mgmt. Company
Houston, Texas

No. SB-6

File No.: 27453-00
Date: 03/27/03
Drilling Co.: Walker-Hill
Supervisor: Jody Neal
Type Rig: Geoprobe 54
Logged by: TAR/DPD

LABORATORY TEST DATA					FIELD DATA						BORING DATA
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand probed: 0' to 4' Direct push technology (2" O.D.): 0' to 12' Start Time: 1320 Finish Time: 1350
					<1.0	1.0	X				Brown, tan with silty clay, some sand and gravel (FILL)
					<1.0	*	X				
						1.5	X				Gray, silty CLAY (CL)
					<1.0	2.0	X	5			
					<1.0	1.0	X				-- moist
					<1.0	1.5	X		▽		
							X	10			-- brown, tan
					<1.0	2.0	X				
											Boring terminated at 12' and grouted to the surface with a thick cement-bentonite mixture.
								15			

■ Shelby Tube

⊠ Direct Push Sampler

▌ Auger Cuttings

▨ No Recovery

(1)Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

▽ Water First Noted

NP Non Plastic

* No Penetrometer or SPT Value

Certificate of Precision Leak Test

DATE: 6/13/03
CERTIFICATE NO. I030616-007

LOCATION: CHEVRON STATION #109060
ADDRESS: 2929 COLLEGE DR.
CITY/STATE: BATON ROUGE, LA

CUSTOMER: TANKNOLOGY-NDE
ADDRESS: 8900 SHOAL CREEK BLVD.
CITY/STATE: AUSTIN, TX 78757

TANKS	PRODUCT	PASS/FAIL
1	UNLEADED	PASS
2	UNLEADED	PASS
3	PLUS	PASS
4	SUPER	PASS

LINES	PRODUCT	PASS/FAIL
1	UNLEADED	PASS
2	PLUS	PASS
3	SUPER	PASS

LEAK DET.	PRODUCT	PASS/FAIL
	ELECTRONIC	

IMPACT VALVE INSPECTION
YES/NO: YES

TECHNICIAN: JAMIE COURVILLE
CERTIFICATION # 88-1449

TECHNICIAN: _____

SOUTHERN TANK TESTERS, INC.
P.O. BOX 278
BREAUX BRIDGE, LA. 70517
(800) 648-0025

Certificate of Precision Leak Test

DATE: 6/13/03
CERTIFICATE NO. I030616-007

LOCATION: CHEVRON STATION #109060
ADDRESS: 2929 COLLEGE DR.
CITY/STATE: BATON ROUGE, LA

CUSTOMER: TANKNOLOGY-NDB
ADDRESS: 8900 SHOAL CREEK BLVD.
CITY/STATE: AUSTIN, TX 78757

TANKS	PRODUCT	PASS/FAIL
1	UNLEADED	PASS
2	UNLEADED	PASS
3	PLUS	PASS
4	SUPER	PASS

LINES	PRODUCT	PASS/FAIL
1	UNLEADED	PASS
2	PLUS	PASS
3	SUPER	PASS

LEAK DET.	PRODUCT	PASS/FAIL
	ELECTRONIC	

IMPACT VALVE INSPECTION
YES/NO: YES

TECHNICIAN: JAMIE COURVILLE
CERTIFICATION # 88-1449

TECHNICIAN: _____

SOUTHERN TANK TESTERS, INC.
P.O. BOX 278
BREAUX BRIDGE, LA. 70517
(800) 648-0025

LINE TEST DATA SHEET

DATE: 6/13/03
INVOICE TO: TANKNOLOGY-NDE
LOCATION: CHEVRON STATION #109060
ADDRESS: 2929 COLLEGE DR.
CITY & ST: BATON ROUGE, LA

LINE #	1	LINE #	2	LINE #	3	LINE #		LINE #	
PROD.	UNLEADED	PROD.	PLUS	PROD.	SUPER	PROD.		PROD.	
PSI	48	PSI	48	PSI	48	PSI		PSI	
TIME	LEVEL	TIME	LEVEL	TIME	LEVEL	TIME	LEVEL	TIME	LEVEL
925	45	925	66	925	62				
940	43	940	65	940	61				
955	41	955	64	955	60				
1010	41	1010	63.5	1010	60				
1025	40	1025	63	1025	60				
1040	40	1040	63	1040	59				
1055	39	1055	63	1055	59				
TOTAL:	-2	TOTAL:	-1	TOTAL:	-1	TOTAL:	0	TOTAL:	0
RESULT:	-0.0074		-0.0037		-0.0037		0		0
	PASS		PASS		PASS				

TYPE OF SYSTEM: [X] SUBMERGED [ ] SUCTION

LEAK DETECTORS: [X] YES [ ] NO [ ] ELECTRONIC

TEST INFORMATION

SERIAL NUMBER	RESILIENCY (ML)	OPENING TIME/SEC	TEST LEAK RATE ML/HR.	FUNCTIONAL ELEMENT HOLDING PSI	METERING PSI	PASS FAIL
ELECTRONIC			3 Gal/Hour			
			3 Gal/Hour			
			3 Gal/Hour			
			3 Gal/Hour			
			3 Gal/Hour			
			3 Gal/Hour			

IMPACT VALVE INSPECTION

MPD #	SATISFACTORY	NON SATISFACTORY	COMMENTS:
1	X		
3	X		
5	X		
7	X		

COMMENTS: PERFORMED 3 GAL. LEAK TO TEST ELECTRONIC LEAK DETECTOR.

TECHNICIAN: JAMIE COURVILLE
CERTIFICATION: 88-1449

EZY 3 LOCATOR PLUS
PRESSURE CALCULATION & WATER SENSOR CALIBRATION & FINAL REPORT

DATE:	6/13/03	TANK #:	1	PRODUCT:	UNLEADED
INVOICE TO:	TANKNOLOGY-NDE	TOTAL TANK VOL.:			9728
LOCATION:	CHEVRON STATION #109060	PRODUCT VOL.:			2450
ADDRESS:	2929 COLLEGE DR.	ULLAGE VOL.:			7278
CITY & ST:	BATON ROUGE, LA				

PRESSURE SENSOR CALCULATION

28	X	0.026	=	0.728	PSI (1)
Inches of Product		Weight of Product			
0.5	X	0.036	=	0.018	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure in Tank			=	0.746	PSI (3)
85	X	0.036	=	3.06	PSI (4)
Inches of Water Outside Tank					
TOTAL HEAD PRESSURE MINUS OUTSIDE WATER PRESSURE			=	-2.314	+/- PSI (5)
ALWAYS ADD .5 PSI			+	-1.814	PSI (6)
Note: If line 7 is less than .5 PSI - Line 7 shall be .5 PSI					
TEST PRESSURE			=	0.5	+/- PSI (7)

	TIME	PRESSURE
Blower Started:	915	0
Test Pressure Reached:	930	1.3
Blower Turned Off:	940	1.3
Test Began:	941	1.3
Test Ended:	945	1.26

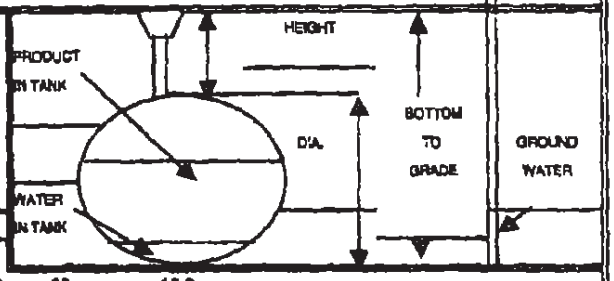
DEPTH OF GROUNDWATER DETERMINED:

BY: PROBE

WHERE: TANK BED

WATER SENSOR CALIBRATION

	Calibration #1	Calibration #2	Calibration #3
ADDED:	50	50	50
AVERAGE:	50		



Water Intrusion Test Periods BEGAN: 930 ENDED: 950

Calibration for Test Period:

50	-3760	0.013227513	- .05	0.2645503	x50=	16.9	
Ave. Calibration		"A" Factor			Min.	Time of Test	

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S, INC. (877) 368-7215

FINAL REPORT

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**
THIS UNDERGROUND STORAGE TANK PASSES THE CRITERIA SET FOURTH BY THE U.S. EPA.

___ **ULLAGE (DRY) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FOURTH BY THE U.S. EPA.

___ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FOURTH BY THE U.S. EPA.

WATER SENSOR INDICATES: (CHECK ONLY ONE)

NO WATER INTRUSION	WATER INTRUSION	NOT APPLICABLE
X		

PRINT NAME: JAMIE COURVILLE

CERTIFICATION # 88-1449

SIGN NAME:

EXPIRATION DATE: 9/18/04

TESTING FIRM: SOUTHERN TANK TESTERS, INC.

ADDRESS: P.O. BOX 278, BREAUX BRIDGE, LA 70517

TELEPHONE: (800) 648-0025

EZY 3 LOCATOR PLUS
PRESSURE CALCULATION & WATER SENSOR CALIBRATION & FINAL REPORT

DATE:	6/13/03	TANK #:	2	PRODUCT:	UNLEADED
INVOICE TO:	TANKNOLOGY-NDE	TOTAL TANK VOL.:			9728
LOCATION:	CHEVRON STATION #109080	PRODUCT VOL.:			2453
ADDRESS:	2929 COLLEGE DR.	ULLAGE VOL.:			7275
CITY & ST:	BATON ROUGE, LA				

PRESSURE SENSOR CALCULATION

20.5 (Inches of Product)	X	0.026 (Weight of Product)	=	0.741	PSI (1)
0	X	0.036	=	0	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure in Tank			=	0.741	PSI (3)
85 (Inches of Water Outside Tank)	X	0.036	=	3.06	PSI (4)
TOTAL HEAD PRESSURE MINUS OUTSIDE WATER PRESSURE			=	-2.319	+/- PSI (5)
ALWAYS ADD .5 PSI			+	-1.819	PSI (6)
Note: If line 7 is less than .5 PSI - Line 7 shall be .5 PSI					
TEST PRESSURE			=	0.5	+/- PSI (7)

	TIME	PRESSURE
Blower Started:	915	0
Test Pressure Reached:	930	1.3
Blower Turned Off:	940	1.3
Test Began:	948	1.26
Test Ended:	950	1.23

DEPTH OF GROUNDWATER DETERMINED:

BY: PROBE

WHERE: TANK BED

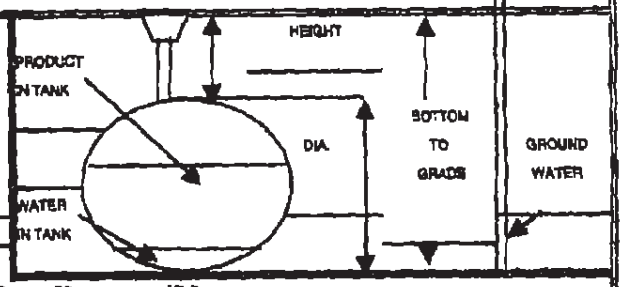
WATER SENSOR CALIBRATION

	Calibration #1	Calibration #2	Calibration #3
ADDED:	50	50	50
AVERAGE:	50		

Water Intrusion Test Period: BEGAN: 930 ENDED:: 950

Calibration for Test Period:

50 (Ave. Calibration) -3760 0.013227513 ("A" Factor) - .05 0.2645503 x60= 15.9 (Min. Time of Test)



EZY 3 LOCATOR PLUS
MANUFACTURED BY: ESTABROOK'S, INC. (877) 368-7215

FINAL REPORT

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**
THIS UNDERGROUND STORAGE TANK PASSES THE CRITERIA SET FOURTH BY THE U.S. EPA.

___ **ULLAGE (DRY) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FOURTH BY THE U.S. EPA.

___ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FOURTH BY THE U.S. EPA.

WATER SENSOR INDICATES: (CHECK ONLY ONE)

NO WATER INTRUSION	WATER INTRUSION	NOT APPLICABLE
X		

PRINT NAME: JAMIE COURVILLE CERTIFICATION # 88-1449

SIGN NAME: EXPIRATION DATE: 9/19/04

TESTING FIRM: SOUTHERN TANK TESTERS, INC.

ADDRESS: P.O. BOX 278, BREAUX BRIDGE, LA 70517 TELEPHONE: (800) 648-0325

EZY 3 LOCATOR PLUS
PRESSURE CALCULATION & WATER SENSOR CALIBRATION & FINAL REPORT

DATE:	6/13/03	TANK #:	3	PRODUCT:	PLUS
INVOICE TO:	TANKNOLOGY-NDE	TOTAL TANK VOL.:			11937
LOCATION:	CHEVRON STATION #109060	PRODUCT VOL.:			2262
ADDRESS:	2929 COLLEGE DR.	ULLAGE VOL.:			9345
CITY & ST:	BATON ROUGE, LA				

PRESSURE SENSOR CALCULATION

22.5	X	0.026	=	0.585	PSI (1)
Inches of Product		Weight of Product			
1	X	0.036	=	0.036	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.621	PSI (3)
85	X	0.036	=	3.06	PSI (4)
Inches of Water Outside Tank					
TOTAL HEAD PRESSURE MINUS OUTSIDE WATER PRESSURE			=	-2.439	+/- PSI (5)
ALWAYS ADD .5 PSI			+	-1.939	PSI (6)
Note: If line 7 is less than .5 PSI - Line 7 shall be .5 PSI					
TEST PRESSURE			=	0.5	+/- PSI (7)

	TIME	PRESSURE
Blower Started:	915	0
Test Pressure Reached:	930	1.3
Blower Turned Off:	940	1.3
Test Began:	951	1.23
Test Ended:	955	1.2

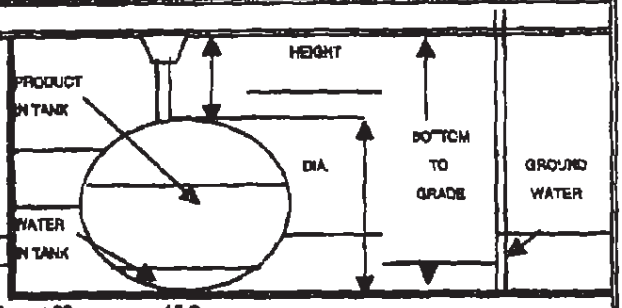
DEPTH OF GROUNDWATER DETERMINED:

BY: PROBE

WHERE: TANK BED

WATER SENSOR CALIBRATION

	Calibration #1	Calibration #2	Calibration #3
ADDED:	50	50	50
AVERAGE:	50		



Water Intrusion Test Period: BEGAN: 930 ENDED: 950

Calibration for Test Period:

50	~3780	0.013227513	- .06	0.2645503	x60=	15.9
Ave. Calibration		"A" Factor			Min.	Time of Test

EZY 3 LOCATOR PLUS
MANUFACTURED BY: ESTABROOK'S, INC. (877) 386-7215

FINAL REPORT

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**
THIS UNDERGROUND STORAGE TANK PASSES THE CRITERIA SET FOURTH BY THE U.S. EPA.

____ **ULLAGE (DRY) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FOURTH BY THE U.S. EPA.

____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FOURTH BY THE U.S. EPA.

WATER SENSOR INDICATES: (CHECK ONLY ONE)

NO WATER INTRUSION	WATER INTRUSION	NOT APPLICABLE
X		

PRINT NAME: JAMIE COURVILLE

CERTIFICATION #: 88-1449

SIGN NAME:

EXPIRATION DATE: 9/19/04

TESTING FIRM: SOUTHERN TANK TESTERS, INC.

ADDRESS: P.O. BOX 278, BREAUX BRIDGE, LA 70517

TELEPHONE: (800) 648-0025

EZY 3 LOCATOR PLUS
PRESSURE CALCULATION & WATER SENSOR CALIBRATION & FINAL REPORT

DATE:	6/13/03	TANK #:	4	PRODUCT:	SUPER
INVOICE TO:	TANKNOLOGY-NDE	TOTAL TANK VOL.:			9729
LOCATION:	CHEVRON STATION #109060	PRODUCT VOL.:			2636
ADDRESS:	2929 COLLEGE DR.	ULLAGE VOL.:			7093
CITY & ST:	BATON ROUGE, LA				

PRESSURE SENSOR CALCULATION

26.875	X	0.028	=	0.75075	PSI (1)
Inches of Product		Weight of Product			
0.875	X	0.036	=	0.0315	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure in Tank			=	0.78225	PSI (3)
85	X	0.036	=	3.06	PSI (4)
Inches of Water Outside Tank					
TOTAL HEAD PRESSURE MINUS OUTSIDE WATER PRESSURE			=	-2.27775	+/- PSI (5)
ALWAYS ADD .5 PSI			+	-1.77775	PSI (6)
Note: If line 7 is less than .5 PSI - Line 7 shall be .5 PSI					
TEST PRESSURE			=	0.5	+/- PSI (7)

	TIME	PRESSURE
Blower Started:	915	0
Test Pressure Reached:	930	1.3
Blower Turned Off:	945	1.3
Test Began:	956	1.2
Test Ended:	1000	1.17

DEPTH OF GROUNDWATER DETERMINED:

BY: PROBE

WHERE: TANK BED

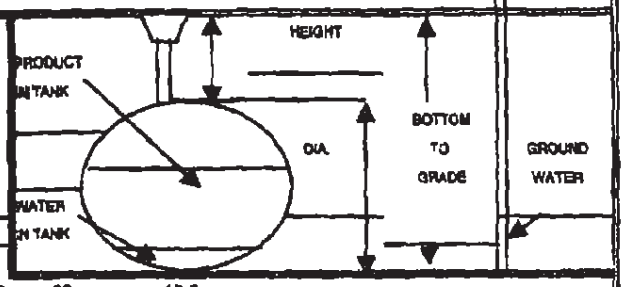
WATER SENSOR CALIBRATION

	Calibration #1	Calibration #2	Calibration #3
ADDED:	50	50	50
AVERAGE:	50		

Water Intrusion Test Period: BEGAN: 930 ENDED:: 950

Calibration for Test Period:

50	-3780	0.013227513	- .05	0.2645503	x60=	15.9
Ave. Calibration		"A" Factor			Min.	Time of Test



EZY 3 LOCATOR PLUS
MANUFACTURED BY: ESTABROOK'S, INC. (877) 368-7215

FINAL REPORT

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**
THIS UNDERGROUND STORAGE TANK PASSES THE CRITERIA SET FOURTH BY THE U.S. EPA.

___ **ULLAGE (DRY) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FOURTH BY THE U.S. EPA.

___ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**
THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FOURTH BY THE U.S. EPA.

WATER SENSOR INDICATES: (CHECK ONLY ONE)

NO WATER INTRUSION	WATER INTRUSION	NOT APPLICABLE
X		

PRINT NAME: JAMIE COURVILLE

CERTIFICATION # 88-1449

SIGN NAME:

EXPIRATION DATE: 9/19/04

TESTING FIRM: SOUTHERN TANK TESTERS, INC.

ADDRESS: P.O. BOX 278, BREAUX BRIDGE, LA 70517

TELEPHONE: (800) 648-0025

SOUTHERN TANK TESTERS, INC.
FACILITY INSPECTION REPORT

DATE: 6/13/03

INVOICE TO: TANKNOLOGY-NDE

LOCATION: CHEVRON STATION #109060

ADDRESS: 2929 COLLEGE DR.

CITY/STATE: BATON ROUGE, LA

MONTORING WELLS Present	☐ Yes	☐ No	ATG:	X Yes	☐ No
CHECK VALVE		☐	Under Dispenser	☐	On Tank
TYPE OF SYSTEM		X	Submerged	☐	Suction
Water In Sub/Pump Box		X	Yes (VACUUM TRUCK	☐	No

LIST CONDITION	SATISFACTORY	NOT SATISFACTORY	NOT PRESENT	COMMENTS:
SUB/PUMP COVER	X			
SUB/PUMP (GENERAL)	X			
O/S PROTECTION	X			
O/F PROTECTION	X			
FILL COVER	X			
FILL CAP	X			
FILL CAP SEAL	X			
DROP TUBE	X			
V/R COVER	X			
V/R CAP	X			
V/R CAP SEAL	X			
V/R DRY BREAK	X			
V/R VENT CAP	X			
VENT PIPE	X			
VENT CAP	X			
DISPENSER (GENERAL)	X			
IMPACT VALVES	X			
HOSES & NOZZLES	X			
LEAK DETECTOR	X			
GENERAL INSPECTION	X			

Any of the above listed conditions which are found not satisfactory or not present must be distinguished by product in comment section.

COMMENTS:

TECHNICIAN: JAMIE COURVILLE

CONESTOGA-ROVERS
& ASSOCIATES

4915 S. Sherwood Forest Blvd., Baton Rouge, LA 70816
Telephone: 225.292.9007 Facsimile: 225.292.3614
www.CRAworld.com

February 19, 2004

Reference No. 27453-01 (3)

Mr. Keith L. Casanova, Administrator
Louisiana Department of Environmental Quality
Remediation Services Division
P.O. Box 4314
Baton Rouge, Louisiana 70821-4314

RECEIVED
FEB 23 2004
LA DEPT. OF ENV. QUALITY
REMEDIATION SERVICES
LOG # FY2004-3832

Remediation Services Division
Manager Hain
Team Leader Pruett
AI # 20619
TEMPO Task #
Desk Copy File Room UST

Dear Mr. Casanova:

Re: Additional Site Investigation Report
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana
Facility UST I. D. No.: 17-001998
Incident I.D. No.: 60402
Agency Interest No.: 20619

Conestoga-Rovers & Associates (CRA), as environmental consultant for Chevron Environmental Management Company (Chevron), herewith submits three copies of the Additional Site Investigation Report for the above-referenced site.

Should you have any questions regarding this submittal, please contact CRA.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Seth P. Domangue

Seth P. Domangue

Thomas B. Powers

Thomas B. Powers, PG

SPD/jpw/3
Encl.

c.c.: David Gardner, Chevron Environmental Management Company

RECEIVED
FEB 23 2004
LA DEPT. OF ENV. QUALITY
REMEDIATION SERVICES
LOG # FY2004-
3832

Remediation Services Division
Manager Walk
Team Leader Pruett
AI # 20619
TEMPO Task #
Desk Copy File Room UST

ADDITIONAL SITE INVESTIGATION

Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, East Baton Rouge Parish, Louisiana
Facility UST I.D. No.: 17-001998
Incident I.D. No.: 60402
Agency Interest No.: 20619

for

Chevron Environmental Management Company
Houston, Texas

JANUARY 2004
Ref. 27453-01 (3)

CONESTOGA-ROVERS & ASSOCIATES
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816
(225)292-9007 Office; (225)292-3614 Fax

EXECUTIVE SUMMARY

Conestoga-Rovers & Associates (CRA) has completed an Additional Site Investigation (ASI) for Chevron Environmental Management Company (Chevron) at Chevron Service Station No. 60109060 located at 2929 College Drive in Baton Rouge, East Baton Rouge Parish, Louisiana. This investigation was conducted to further delineate the extent of hydrocarbon impact in the subsurface detected during a previously conducted Baseline Site Assessment. A summary of CRA's work and findings follows:

- The site is and active service station located in an area of light commercial development.
- Four monitor wells (MW-1 through MW-4) and two soil borings (SB-7 and GT-1) were installed to a maximum depth of 14 feet.
- Soil and groundwater samples were collected from each boring and/or monitor well and were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether (MTBE); and total petroleum hydrocarbons-gasoline range organics (TPH-GRO). One soil sample was further analyzed for synthetic precipitation leaching procedure (SPLP) benzene and TPH-GRO. A geotechnical sample was collected from soil boring GT-1.
- Analytical results, for samples collected during the ASI, indicated MTBE and TPH-GRO concentrations in soil and groundwater exceeding the Louisiana Department of Environmental Quality's (LDEQ) Risk Evaluation/Corrective Action Program (RECAP) Screening Option (SO) Screening Standards (SS), October 20, 2003, version. In addition, historical soil and groundwater MTBE samples, collected during previous site investigations, were also above the latest RECAP SS.

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY i

1.0 INTRODUCTION 1
- 1.1 GENERAL 1
- 1.2 BACKGROUND 1
- 1.3 PURPOSE AND SCOPE 1

2.0 SITE CHARACTERISTICS 3
- 2.1 SITE AND SURROUNDING LAND USE DESCRIPTIONS 3

3.0 SOIL AND GROUNDWATER ENVIRONMENTAL ASSESSMENT 4
- 3.1 DRILLING AND SOIL SAMPLING 4
- 3.2 MONITOR WELL CONSTRUCTION 5
- 3.3 GROUNDWATER SAMPLING (SOIL BORINGS) 5
- 3.4 MONITOR WELL SAMPLING 6
- 3.5 HYDROCARBON CONSTITUENT DISTRIBUTION 6
- 3.6 INVESTIGATION DERIVED WASTE 7

4.0 SUMMARY OF FINDINGS 8
- 4.1 FINDINGS 8

5.0 RECOMMENDATIONS 9
- 5.1 RECOMMENDATIONS 9

LIST OF FIGURES
(Following Text)

FIGURE 1	SITE PLAN
FIGURE 2	GROUNDWATER POTENTIOMETRIC ELEVATIONS AND CONTOURS, DECEMBER 9, 2003
FIGURE 3	GROUNDWATER BENZENE, MTBE, AND TPH-GRO CONCENTRATIONS AND ISOPLETHS, DECEMBER 9, 2003

LIST OF TABLES
(Following Text)

TABLE 1	SOIL SAMPLE ANALYTICAL LABORATORY DATA
TABLE 2	MONITOR WELL INSTALLATION DATA
TABLE 3	MONITOR WELL SAMPLING DATA
TABLE 4	GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA

LIST OF EXHIBITS

EXHIBIT 1	SOIL BORING LOGS AND MONITOR WELL CROSS SECTIONS
EXHIBIT 2	COST ESTIMATE

LIST OF APPENDICES

APPENDIX A	SOIL AND GROUNDWATER ANALYTICAL LABORATORY REPORT AND GEOTECHNICAL LABORATORY REPORT
APPENDIX B	LDOTD MONITOR WELL REGISTRATION FORMS
APPENDIX C	MONITOR WELL SAMPLING RECORD

1.0 INTRODUCTION

1.1 GENERAL

Conestoga-Rovers & Associates (CRA) has conducted an Additional Site Investigation (ASI) at Chevron Service Station No. 60109060 located at the intersection of College Drive and I-10 in Baton Rouge, East Baton Rouge Parish, Louisiana. The site is an active Chevron service station.

1.2 BACKGROUND

In March 2003, CRA , at the request of Chevron Environmental Management Company (Chevron), conducted a Baseline Site Assessment. The purpose of the assessment was to evaluate subsurface conditions prior to Chevron's divestment of the property. Analytical results for soil and groundwater samples indicated that hydrocarbon impact was present at the site. The ASI was requested by the Louisiana Department of Environmental Quality (LDEQ) in correspondence dated August 14, 2003, in response to Chevron's notification of a suspected hydrocarbon release at the site.

1.3 PURPOSE AND SCOPE

The purpose of the additional investigation was to further delineate the extent of the subsurface hydrocarbon impact and to collect data necessary to evaluate the site utilizing the LDEQ's Risk Evaluation/Corrective Action Program (RECAP), October 20, 2003, version as an option to expedite site closure.

In an effort to assess subsurface conditions and hydrocarbon impact, CRA's scope of work included the following:

- Installing six soil exploration borings (MW-1 through MW-4, SB-7, and GT-1) to a maximum depth of 14 feet below ground surface (bgs) using direct-push technology/hollow-stem augers.
- Collecting representative soil samples continuously (2-foot intervals) for inspection and characterization of soil types and stratigraphy from the borings.

- Inspecting and classifying soil samples in the field and conducting headspace screening of the soil samples for petroleum hydrocarbon vapors using a portable photoionization detector (PID).

- Submitting a soil sample from soil boring GT-1 representative of each distinct lithology for geotechnical characterization.

- Submitting a minimum of two soil samples from each of the borings to Pace Analytical Laboratory (Pace) of St. Rose, LA for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by U.S. Environmental Protection Agency (EPA) Method 8260; and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) by EPA Method 8015B. In addition, soil samples with individual constituent concentrations exceeding their respective RECAP Screening Standards (SS) were further analyzed for Synthetic Precipitation Leaching Procedure (SPLP).

- Completing four of the borings as 2-inch diameter monitor wells (MW-1 through MW-4) using casing and 0.01-inch slotted screen constructed of schedule-40 PVC. The monitor wells were surface completed with concrete and flush-mounted protective covers to prevent tampering and vehicular damage.

- Developing, purging, and sampling groundwater from the newly installed monitor wells (MW-1 through MW-4) and soil boring SB-7 for submittal to Pace for laboratory analyses of BTEX, MTBE, and TPH-GRO by the aforementioned methods.

- Conducting hydraulic conductivity tests (slug-out) in two of the newly installed monitor wells in order to define parameters used to calculate groundwater yield.

- Surveying the top-of-casing elevations in order to collect potentiometric groundwater elevation data. The vertical elevations of the ground surface and top-of-casing at each monitor well location are based on a project bench mark with an assigned elevation of 100.00 feet.

- Evaluating and compiling field observations and laboratory analytical data into a report documenting boring installations, soil and groundwater sampling, and analytical data.

2.0 SITE CHARACTERISTICS

2.1 SITE AND SURROUNDING LAND USE DESCRIPTIONS

The site is an active self-service motor fuel retail facility located on the southeast corner of the intersection of College Drive and I-10 Frontage Road (Constitution Avenue). The approximate 1.1-acre site consists of a station building, a car wash, and four dispenser islands, covered by a canopy. Four underground storage tanks (USTs) are located on the northwestern portion of the site. Figure 1 is a site plan depicting the layout of the facility and soil boring/monitor well locations.

Surrounding land use consists of predominantly commercial development.

3.0 SOIL AND GROUNDWATER ENVIRONMENTAL ASSESSMENT

3.1 DRILLING AND SOIL SAMPLING

Six soil borings (MW-1 through MW-4, SB-7, and GT-1) were installed on November 18 and December 3, 2003, to further delineate hydrocarbon impact in the subsurface. The boring locations are shown on the site plan (Figure 1). Prior to installation, each boring location was checked and cleared of utilities to a depth of four feet using a hand probe. Soil borings were installed by CRA's subcontractors, Walker-Hill Environmental, Inc. of Columbia, Mississippi and Crescent Geotechnical Services, Inc. of Ponchatoula, Louisiana. The borings were advanced using either a tractor-mounted hydraulically advanced sampling probe or hollow-stem augers with a split-spoon sampling device. Prior to the initiation of the borings, the drilling and sampling equipment were thoroughly cleaned.

Soil samples were collected at two-foot intervals from the surface to the completion depth of each boring using the hydraulically advanced barrel sampler with new, clean, disposable acetate liners. The soil borings were advanced until groundwater was encountered. Details of the soils encountered during sampling activities, along with initial groundwater measurements, are included on the boring logs in Exhibit 1. Upon collection, soil samples were visually and manually inspected. Using new, clean, latex gloves, CRA personnel examined the samples for soil characteristics. No visible evidence of phase-separated hydrocarbons (PSH) was observed during the installation and sampling of the borings. A soil sample representative of the lithologies across the site was collected from boring GT-1 (4 to 8 foot depth) and submitted to Soil Testing Engineers, Inc. in Baton Rouge, Louisiana for geotechnical laboratory analyses. The geotechnical laboratory report and chain-of-custody document is included in Appendix A.

A portion of each sample was collected for organic vapor screening using glass jars covered with aluminum foil. These samples were allowed to stabilize at ambient air temperature for at least one hour, and the headspace in each container was then analyzed with a PID (Photovac Model 20/20). Prior to use, the PID was calibrated in accordance with the manufacturer's specifications. The results of the PID screening of the soil samples from the borings are included on the boring logs in Exhibit 1.

Immediately upon collection, a portion of each soil sample was placed in a laboratory supplied jar and preserved on ice for possible laboratory analytical testing. A minimum of two soil samples were selected from each soil boring for

laboratory analyses. Soil samples were selected for laboratory analyses based on the following considerations: 1) highest PID value in the zero to fifteen-foot depth range, 2) first-encountered groundwater, and 3) total depth of the boring.

The soil sampling procedures and documentation were performed in compliance with CRA's standard sampling protocol, which is based upon U.S. Environmental Protection Agency (EPA) guidelines applicable to this type of project. The soil samples selected for analyses were preserved on ice and subsequently transported, following proper chain-of-custody procedures, via lab courier to Pace. Soil samples collected for analyses for volatile organics were collected utilizing EPA Method 5035. The soil samples were analyzed for BTEX and MTBE by EPA Method 8260 Test Methods for Evaluating Solid Wastes, SW-846, Third Edition, June 1997 and TPH-GRO by GS-FID analysis of extracts EPA Method 8015B. The analytical laboratory results for the soil samples collected during the ASI, along with previously reported data, are summarized on Table 1. The soil sample analytical laboratory report and chain-of-custody document are included in Appendix A.

3.2 MONITOR WELL CONSTRUCTION

Soil borings MW-1 through MW-4 were completed as two-inch diameter groundwater monitor wells. The monitor wells were constructed with Schedule 40 PVC threaded casing and well screen (0.01-inch slot size). Table 2 contains well installation information regarding well depths and screened intervals. Installation details and cross-sections of the wells are shown on the monitor well cross-section detail forms presented as Exhibit 1. Construction of each well included the placement of a sand filter pack around the well screen, a hydrated bentonite seal above the filter pack, and a cement/bentonite mixture to the ground surface. A flush mounted protective cover was installed around each well to prevent damage from site activities. Each well was secured with a locking watertight cap and padlock to deter tampering and introduction of surface water runoff into the well. Copies of the monitor well registration forms dated January 13, 2004, were submitted to the Louisiana Department of Transportation and Development are included in Appendix B.

3.3 GROUNDWATER SAMPLING (SOIL BORINGS)

Upon reaching the total depth, a temporary well (slotted well screen and casing assembly) was installed in boring SB-7 for the collection of groundwater samples.

Following sample collection, the temporary screen/casing assembly was removed from the boring and the resulting borehole was abandoned by grouting with a cement-bentonite mixture from total depth to the ground surface utilizing a tremie pipe.

3.4 MONITOR WELL SAMPLING

CRA personnel visited the site on December 9, 2003, to measure groundwater levels in monitor wells MW-1 through MW-4. Measurements were taken using an electronic PSH/water interface probe. The depth to groundwater below the top-of-casing in each well was measured and recorded to a precision of $\pm$0.01 feet. No PSH was detected in any of the monitor wells during this sampling event. Groundwater level measurements and calculated groundwater potentiometric elevations for the monitoring/sampling event are presented on the Monitor Well Sampling Record form included in Appendix C. Groundwater potentiometric elevation data is presented in Table 3, along with monitor well sampling data.

Groundwater elevations from data collected on December 9, 2003, are presented on Figure 2. Measurement data indicates prevailing groundwater to be approximately 2.11 ft below the top-of-casing (MW-3) to 3.74 ft below the top-of-casing (MW-1). Groundwater flow direction is predominantly to the southwest. Groundwater samples collected from the monitor wells on December 9, 2003 were placed in appropriate laboratory supplied sample containers and were subsequently stored on ice and transported via lab courier to Pace for analyses. Samples collected from the monitor wells were analyzed for BTEX, MTBE, and TPH-GRO by the aforementioned methods. Groundwater samples were immediately tested in the field for temperature, specific conductance, and pH. Pertinent groundwater field data is presented on the Monitor Well Sampling Records in Appendix C. Groundwater analytical laboratory results, along with previously reported data is summarized on Table 4. The analytical laboratory report and chain-of-custody document for the groundwater-sampling event is included in Appendix A.

3.5 HYDROCARBON CONSTITUENT DISTRIBUTION

For the purpose of describing the extent of hydrocarbon impact at the site, previously reported analytical results for samples collected during the March 2003 Baseline Site Assessment have been included in the following summary of hydrocarbon impact at the site. All analytical results were compared to the October

20, 2003, RECAP Screening Standards (SS) in order to determine if further evaluation is warranted.

Soil sample analytical results revealed detectable benzene concentrations of 0.0786 milligrams per kilogram (mg/kg) in SB-04 (0' - 2') and 0.331 mg/kg in SB-01 (2' - 4'). The soil benzene concentration in MW-1 (2' - 4') was not detected above the analytical reporting limit; however, the analytical reporting limit was above the RECAP SS. Detectable TPH-GRO concentrations ranged from 5.8 mg/kg in SB-05 (0' -2') to 207 mg/kg in SB-01 (2' - 4'). Detectable concentrations of MTBE ranged from 0.0051 mg/kg in MW-2 (12' - 14') to 0.23 mg/kg in SB-04 (10' - 12'). In addition, sample MW-1 (2' - 4') was further analyzed for SPLP benzene and TPH-GRO with a result of <0.05 milligrams per liter (mg/L) and 14 mg/L, respectively.

When compared to the RECAP SS (October 20, 2003 version), three soil samples exceeded the SS for benzene, two samples exceeded the RECAP standard for MTBE, two samples exceeded the SS for TPH-GRO, and one sample exceeded the RECAP standard for SPLP TPH-GRO.

Groundwater analytical results indicated detectable benzene concentrations of 0.0018 mg/L in SB-02 and 0.141 mg/L in SB-01. Detectable ethylbenzene concentrations ranged from 0.0066 mg/L in SB-02 to 0.854 mg/L in SB-01. Detectable concentrations of MTBE ranged from 0.0052 mg/L in SB-05 to 0.737 mg/L in SB-04. Concentrations of TPH-GRO ranged from 0.0693 mg/L in SB-06 to 11.1 mg/L in SB-01.

When compared to the RECAP SS, one groundwater sample exceeded the SS for benzene, one sample exceeded the SS for ethylbenzene, six samples exceeded the SS for MTBE, and six samples exceeded the SS for TPH-GRO. The groundwater benzene, MTBE, and TPH-GRO concentrations are presented on Figure 3.

3.6 INVESTIGATION DERIVED WASTE

All soil cuttings generated during the installation of the monitor wells were stored in drums for subsequent disposal following proper waste characterization. Decontamination wash water and purgewater generated during ASI activities were also stored in drums for subsequent disposal. All soil and fluid drums are currently onsite pending proper disposal.

4.0 SUMMARY OF FINDINGS

4.1 FINDINGS

Based on the scope of work performed, CRA presents the following findings:

- The site is an active Chevron Service Station located in a developed area of predominantly commercial properties.
- Six soil exploration borings (MW-1 through MW-4, SB-7, and GT-1) were installed to a maximum depth of 14 feet. Soil and groundwater samples from the soil borings and/or monitor wells were analyzed for BTEX, MTBE, and TPH-GRO.
- Analytical results indicated elevated hydrocarbon concentrations in soil and groundwater in the vicinity of the dispenser islands.
- No off-site source of hydrocarbon impact was identified.

5.0 RECOMMENDATIONS

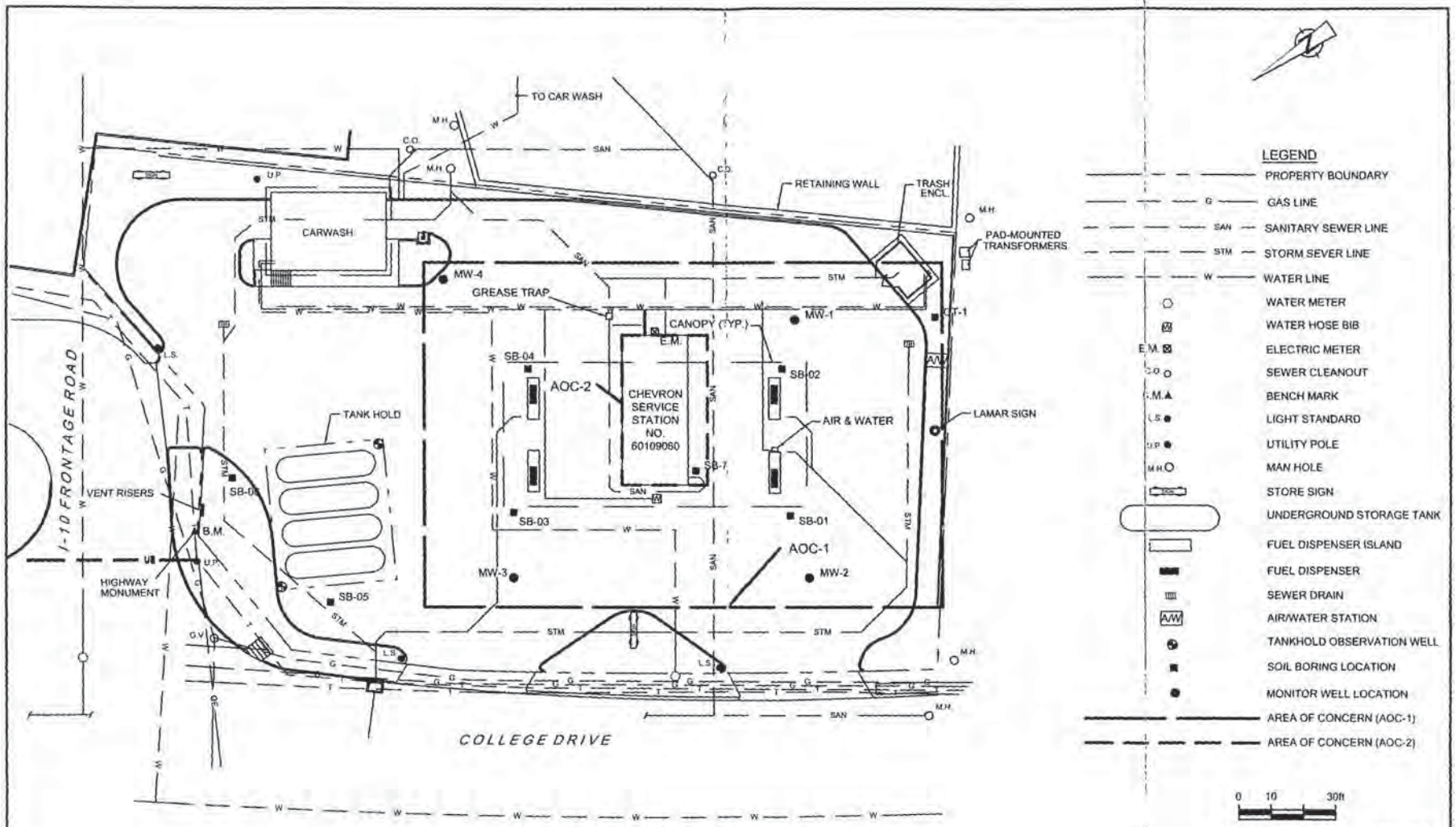
5.1 RECOMMENDATIONS

The intent of the additional investigation was to further delineate hydrocarbon impact at the site and to collect necessary data for a risk evaluation using LDEQ's RECAP. CRA recommends that an Appendix I RECAP evaluation be conducted. A cost estimate included as Exhibit 2. CRA will proceed with the evaluation upon LDEQ approval.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Seth Domangue
Seth P. Domangue

Thomas B. Powers, PG



RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA242U4, "EXTERIOR PIPING & ELECTRICAL PLAN".

figure 1

SITE PLAN
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

27453-01(003)GN-BR001 JAN 15/2004

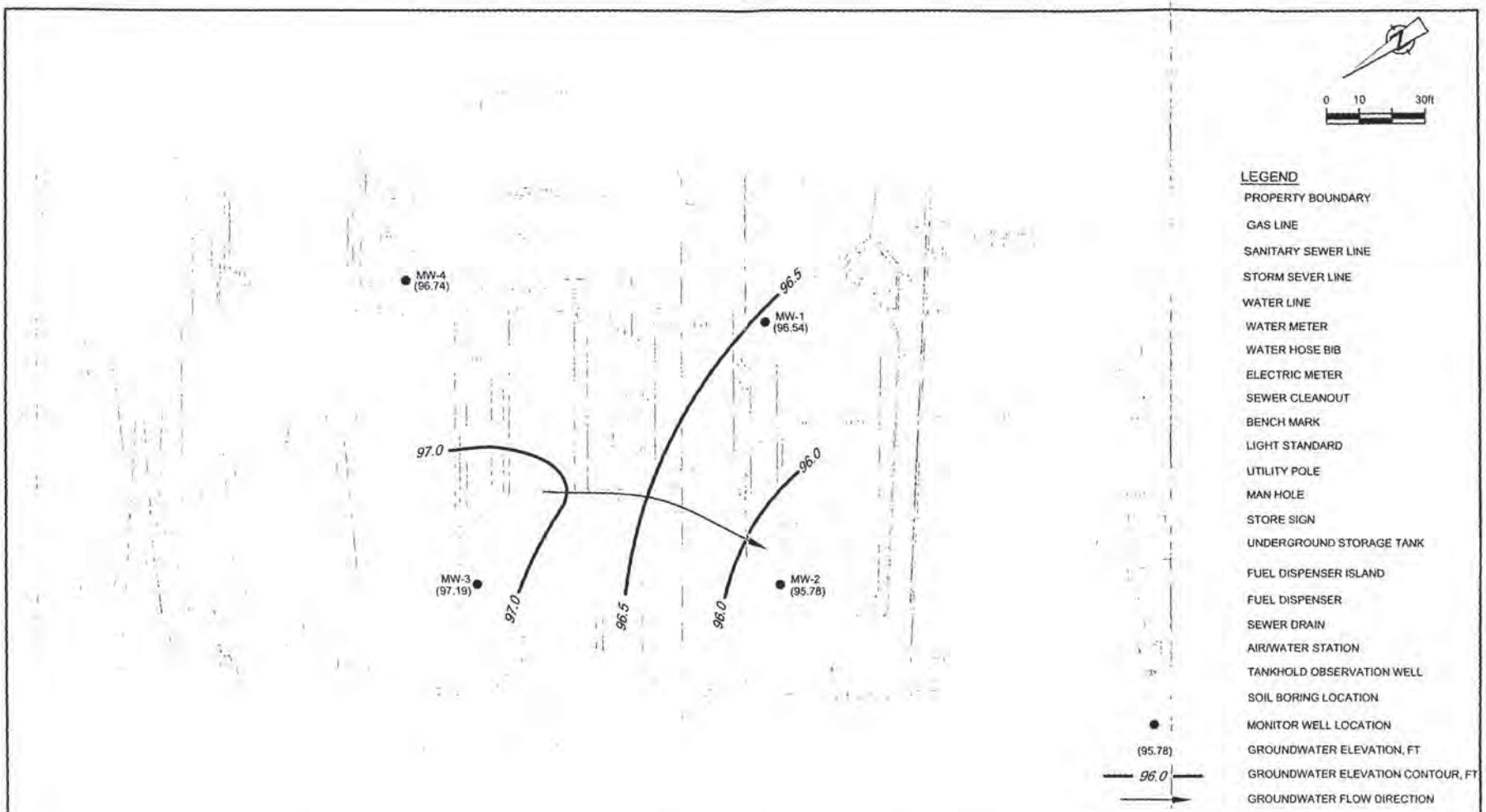
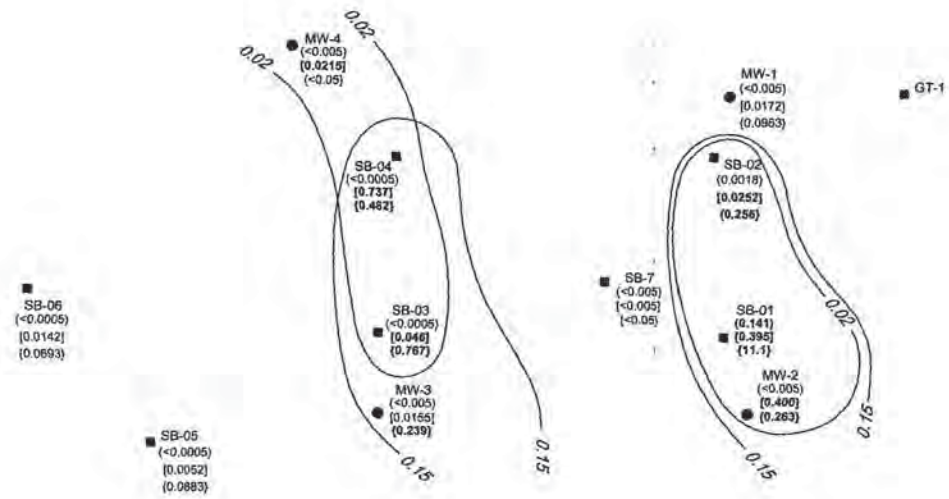


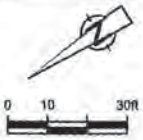
figure 2

GROUNDWATER POTENTIOMETRIC ELEVATIONS AND CONTOURS, DECEMBER 9, 2003
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA242U4, "EXTERIOR PIPING & ELECTRICAL PLAN".

27453-01(003)GN-BR002 JAN 15/2004





LEGEND

- PROPERTY BOUNDARY
- GAS LINE
- SANITARY SEWER LINE
- STORM SEVER LINE
- WATER LINE
- WATER METER
- WATER HOSE BIB
- ELECTRIC METER
- SEWER CLEANOUT
- BENCH MARK
- LIGHT STANDARD
- UTILITY POLE
- MAN HOLE
- STORE SIGN
- UNDERGROUND STORAGE TANK
- FUEL DISPENSER ISLAND
- FUEL DISPENSER
- SEWER DRAIN
- AIR/WATER STATION
- TANKHOLD OBSERVATION WELL
- ■ SOIL BORING LOCATION
- ● MONITOR WELL LOCATION
- (<0.005) BENZENE CONCENTRATION, mg/L
- [0.400] MTBE CONCENTRATION, mg/L
- (0.263) TPH-GRO CONCENTRATIONS, mg/L
- 0.02 MTBE ISOPLETH, mg/L
- 0.15 TPH-GRO ISOPLETH, mg/L

NOTE: BOLDED FONT INDICATES RESULTS EXCEED RECAP SCREENING STANDARDS.
SOIL BORINGS SB-1 THROUGH SB-6 WERE SAMPLED ON 03/27/03.

figure 3

GROUNDWATER BENZENE, MTBE, AND TPH-GRO CONCENTRATIONS AND ISOPLETHS, DECEMBER 9, 2003
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA242U4, "EXTERIOR PIPING & ELECTRICAL PLAN".

27453-01(003)GN-BR003 JAN 28/2004

TABLE 1

SOIL SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Boring (depth, ft)	*Sample Date*	*Parameter*							
		Benzene (mg/kg)	*Toluene (mg/kg)*	*Ethylbenzene (mg/kg)*	*Xylenes (mg/kg)*	*MTBE (mg/kg)*	*TPH-GRO (mg/kg)*	*SPLP Benzene (mg/L)*	*SPLP TPH-GRO (mg/L)*
		*0.051**	*20**	*19**	*150**	*0.077**	*65**	*0.1***	*6.8***
SB-01 (2' - 4')	03/27/03	**0.331**	<0.0216	9.42	1.05	<0.0216	**207**	NA	NA
SB-01 (12' - 14')	03/27/03	<0.0226	<0.0226	1.11	<0.0226	0.064	63.7	NA	NA
SB-02 (2' - 4')	03/27/03	<0.0238	<0.0238	0.0812	<0.0238	<0.0238	10.8	NA	NA
SB-02 (10' - 12')	03/27/03	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<2.39	NA	NA
SB-03 (0' - 2')	03/27/03	<0.0264	<0.0264	<0.0264	<0.0264	<0.0264	7.59	NA	NA
SB-03 (10' - 12')	03/27/03	<0.0298	<0.0298	<0.0298	<0.0298	<0.0298	<2.975	NA	NA
SB-04 (0' - 2')	03/27/03	**0.0786**	0.122	0.177	0.1652	<0.0239	7.33	NA	NA
SB-04 (10' - 12')	03/27/03	<0.0238	<0.0238	<0.0238	<0.0238	**0.23**	<2.375	NA	NA
SB-05 (0' - 2')	03/27/03	<0.0236	<0.0236	<0.0236	<0.0236	<0.0236	5.8	NA	NA
SB-05 (10' - 12')	03/27/03	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<2.62	NA	NA
SB-06 (0' - 2')	03/27/03	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<2.215	NA	NA
SB-06 (10' - 12')	03/27/03	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<2.385	NA	NA
MW-1 (2' - 4')	11/18/03	**<0.261**	<0.261	7.70	1.23	<0.261	**118**	<0.05	**14**
MW-1 (8' - 10')	11/18/03	<0.00464	<0.00464	<0.00464	<0.00464	<0.00464	<2.47	NA	NA
MW-1 (12' - 14')	11/18/03	<0.00471	<0.00471	<0.00471	<0.00471	<0.00471	<2.40	NA	NA
MW-2 (0' - 2')	11/18/03	<0.00498	<0.00498	<0.00498	<0.00498	0.0074	6.49	NA	NA
MW-2 (8' - 10')	11/18/03	<0.00499	<0.00499	<0.00499	<0.00499	**0.109**	<2.495	NA	NA
MW-2 (12' - 14')	11/18/03	<0.00499	<0.00499	<0.00499	<0.00499	0.0051	<2.28	NA	NA

TABLE 1

SOIL SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Boring (depth, ft)	Sample Date	Parameter							
		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TPH-GRO (mg/kg)	SPLP Benzene (mg/L)	SPLP TPH-GRO (mg/L)
		0.051*	20*	19*	150*	0.077*	65*	0.1**	6.8**
MW-3 (2' - 4')	11/18/03	<0.00503	<0.00503	0.0183	<0.00503	0.0069	9.53	NA	NA
MW-3 (8' - 10')	11/18/03	<0.00484	<0.00484	<0.00484	<0.00484	<0.00484	<2.595	NA	NA
MW-3 (12' - 14')	11/18/03	<0.00452	<0.00452	<0.00452	<0.00452	<0.00452	<2.325	NA	NA
MW-4 (0' - 2')	11/18/03	<0.00486	<0.00486	<0.00486	<0.00486	<0.00486	<2.46	NA	NA
MW-4 (6' - 8')	11/18/03	<0.00522	<0.00522	<0.00522	<0.00522	<0.00522	<2.32	NA	NA
MW-4 (12' - 14')	12/03/03	<0.00481	<0.00481	<0.00481	<0.00481	<0.00481	<2.275	NA	NA
SB-7 (8' - 10')	12/03/03	<0.00482	<0.00482	<0.00482	<0.00482	<0.00482	<2.40	NA	NA
SB-7 (12' - 14')	12/03/03	<0.00493	<0.00493	<0.00493	<0.00493	<0.00493	<2.37	NA	NA

MTBE = methyl tertiary butyl ether
NA = Not Analyzed
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
SPLP = Synthetic Precipitation Leaching Procedure
mg/kg = Milligrams per kilogram, which is equivalent to parts per million (ppm).
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
* Screening Standards specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
** Screening Standards for SPLP extracts were derived by multiplying the RECAP MO-1 GW1 Standard by a default dilution factor of 20.
Bold font with shading indicates result exceeds RECAP Screening Standard.

TABLE 2

MONITOR WELL INSTALLATION DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Well I.D.	*Date of Installation*	*Well Depth*	*Ground Surface Elevation*	*Top-of-Casing Elevation* (1)	*Groundwater Elevation at Development*	*Screen Interval Elevation*	*Latitude*	*Longitude*
MW-1	11/18/03	14.3	100.72	100.28	96.54	96.62 to 86.62	N30°25'18"	W91°08'24"
MW-2	11/18/03	14.2	99.96	99.48	95.78	95.96 to 85.96	N30°25'18"	W91°08'24"
MW-3	11/18/03	14.0	99.70	99.30	97.19	95.90 to 85.90	N30°25'18"	W91°08'24"
MW-4	11/18/03	14.6	100.36	100.08	96.74	95.96 to 85.96	N30°25'18"	W91°08'24"

Notes:

(1) Elevations are relative to a project bench mark with an assigned elevation of 100.00 ft.

(2) All dimensions are in feet.

(3) All wells constructed of 2-inch diameter, Schedule 40 PVC casing and screen.

(4) All wells were developed with the use of a PVC surge block.

TABLE 3

MONITOR WELL SAMPLING DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

MONITOR WELL ID NUMBER	*MW-1*	*MW-2*	*MW-3*	*MW-4*
DOTD ID NUMBER	N/A	N/A	N/A	N/A
DATE SAMPLED	12/09/03	12/09/03	12/09/03	12/09/03
TOP OF CASING ELEVATION (ft)[1]	100.28	99.48	99.30	100.08
STATIC WATER LEVEL (ft below TOC)	3.74	3.70	2.11	3.34
TOTAL DEPTH (ft below TOC)	14.30	14.20	14.00	14.60
STATIC WATER ELEVATION (ft)	96.54	95.78	97.19	96.74
FREE PRODUCT THICKNESS (ft)	None	None	None	None
FREE PRODUCT ELEVATION (ft)	N/A	N/A	N/A	N/A
PURGE METHOD	PVC Bailer	PVC Bailer	PVC Bailer	PVC Bailer
ACTUAL PURGE VOLUME (Gal)	5.0*	5.0*	5.0*	5.0*
SAMPLING METHOD	Grab	Grab	Grab	Grab
EQUIPMENT USED	Polyethylene Bailer	Polyethylene Bailer	Polyethylene Bailer	Polyethylene Bailer
PRODUCT RECOVERED (Gal)	None	None	None	None

* Well purged dry

N/A = Not Available; Not Applicable

Note: [1]Top-of-Casing elevations referenced to an on-site bench mark with an assigned elevation of 100.00'.

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Sample Number	Sample Date	Parameter					
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TPH-GRO (mg/L)
		0.005*	1.0*	0.7*	10*	0.02*	0.15*
SB-01	03/27/03	**0.141**	0.0161	**0.854**	0.259	**0.395**	**11.1**
SB-02	03/27/03	0.0018	0.00087	0.0066	0.0017	**0.0252**	**0.256**
SB-03	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	**0.046**	**0.767**
SB-04	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	**0.737**	**0.482**
SB-05	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	0.0052	0.0883
SB-06	03/27/03	<0.0005	0.0012	0.0035	0.0117	0.0142	0.0693
MW-1	12/09/03	<0.005	<0.005	0.0097	<0.005	0.0172	0.0963
MW-2	12/09/03	<0.005	<0.005	<0.005	<0.005	**0.400**	**0.263**
MW-3	12/09/03	<0.005	<0.005	<0.005	<0.005	0.0155	**0.239**
MW-4	12/09/03	<0.005	<0.005	<0.005	<0.005	**0.0215**	<0.05
SB-7	12/03/03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
* Screening Standards specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
Bold font with shading indicates result exceeds RECAP Screening Standard.

EXHIBIT 1

SOIL BORING LOGS
AND
MONITOR WELL CROSS SECTIONS

BORING LOG

Project: Additional Site Investigation
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

No. MW-1

Client: Chevron Environmental Management Company
Houston, Texas

File No.: 27453-01
Date: 11/14/03
Drilling Co.: Walker Hill Environmental, Inc.
Supervisor: Tim Morris
Type Rig: Mobil Drill
Elevation: 100.72
Logged by: CDG/JPF

LABORATORY TEST DATA					FIELD DATA						BORING DATA
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand Probed: 0' to 4' bgs Hollow Stem Auger (8.25" O.D.): 0' to 14' Start Time: 1220 Finish Time: 1305
					198	1.25					Concrete slab Gray silty CLAY (CL) with hydrocarbon odor
					1,078	0.75					
					6.2	0.75		5			-- gray
					2.2	0.75					-- light brown and gray with iron stains
					1.6	1.0					
					1.4	2.0		10			
					<1.0	2.5					
								15			Boring terminated at 14 feet and completed as monitor well MW-1.

Shelby Tube
Split-Spoon Sampler
Auger Cuttings
No Recovery

(1) Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

Water First Noted
Level After 60 min
NP Non Plastic
* No Penetrometer or SPT Value

BORING LOG

Project: Additional Site Investigation
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana
Client: Chevron Environmental Management Company
Houston, Texas

No. MW-2

File No.: 27453-01
Date: 11/18/03
Drilling Co.: Walker Hill Environmental, Inc.
Supervisor: Tim Morris
Type Rig: Mobil Drill
Elevation: 99.96
Logged by: CDG/JPF

Hand Probed: 0' to 4' bgs
Hollow Stem Auger (8.25" O.D.): 0' to 14'

Start Time: 1540 Finish Time: 1615

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	
					72.3	2.0					Concrete slab
											Gray silty CLAY (CL) with hydrocarbon odor
					N/A	N/A					
					17.0	0.0		5			
					2.0	0.75					
					0.8	1.25					
								10			
					<1.0	1.25					
					<1.0	3.0					
								15			*Boring terminated at 14 feet and completed as monitor well MW-2.*

Shelby Tube
Split-Spoon Sampler
Auger Cuttings
No Recovery

(1) Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

Water First Noted
Level After 60 min
NP Non Plastic
* No Penetrometer or SPT Value

BORING LOG

Project: *Additional Site Investigation*
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana
Client: Chevron Environmental Management Company
Houston, Texas

No. MW-3

File No.: 27453-01
Date: 11/18/03
Drilling Co.: Walker Hill Environmental, Inc.
Supervisor: Tim Morris
Type Rig: Mobil Drill
Elevation: 99.70
Logged by: CDG/JPF

Hand Probed: 0' to 4' bgs
Hollow Stem Auger (8.25" O.D.): 0' to 14'

Start Time: 1400 Finish Time: 1435

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	
					N/A	N/A					Gray silty CLAY (CL)
					3.5	1.25					
					1.3	0.75		5			-- with ferrous nodules
					0.5	0.50					
					0.8	1.0					
					<1.0	0.5		10			
					<1.0	2.5					
								15			Boring terminated at 14 feet and completed as monitor well MW-3.

Shelby Tube
Split-Spoon Sampler
Auger Cuttings
No Recovery

(1) Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

Water First Noted
Level After 60 min
NP Non Plastic
* No Penetrometer or SPT Value

BORING LOG

Project: *Additional Site Investigation*
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana
Client: *Chevron Environmental Management Company*
Houston, Texas

No. MW-4

File No.: 27453-01
Date: 11/18/03
Drilling Co.: Walker Hill Environmental, Inc.
Supervisor: Tim Morris
Type Rig: *Mobil Drill*
Elevation: 100.36
Logged by: CDG/JPF

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand Probed: 0' to 4' bgs Hollow Stem Auger (8.25" O.D.): 0' to 14' Start Time: 0950 Finish Time: 1030
					29.7	2.0					Gray silty CLAY (CL) with iron stains
					2.6	3.0					
					<1.0	1.5		5			
					0.5	0.5					
					<1.0	1.5					
								10			
					<1.0	2.75					
					<1.0	2.0					
								15			Boring terminated at 14 feet and completed as monitor well MW-4.

Shelby Tube
Split-Spoon Sampler
Auger Cuttings
No Recovery

(1) Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

Water First Noted
Level After 60 min
NP Non Plastic
* No Penetrometer or SPT Value

BORING LOG

Project: Additional Site Investigation
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana

Client: Chevron Environmental Management Company
Houston, Texas

No. SB-7

File No.: 27453-01
Date: 12/03/03
Drilling Co.: Crescent Geotechnical Services, Inc.
Supervisor: Bob Dawson
Type Rig: Terra Probe
Logged by: CDG

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Hand Probed: 0' to 4' bgs Direct Push Technology (2" O.D.): 0' to 14' Start Time: 0905 Finish Time: 1200
					<1	1.0					6" concrete slab Gray silty CLAY (CL), iron staining
					<1	1.25					
					<1	0.5		5			-- wet, gray
					<1	0.25					-- reddish/tan, moist
					18.0	0.25					
					10.8	1.0		10			
					14.4	0.75					
								15			Boring terminated at 14 feet and completed as monitor well SB-7.

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1) Photovac 20/20

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

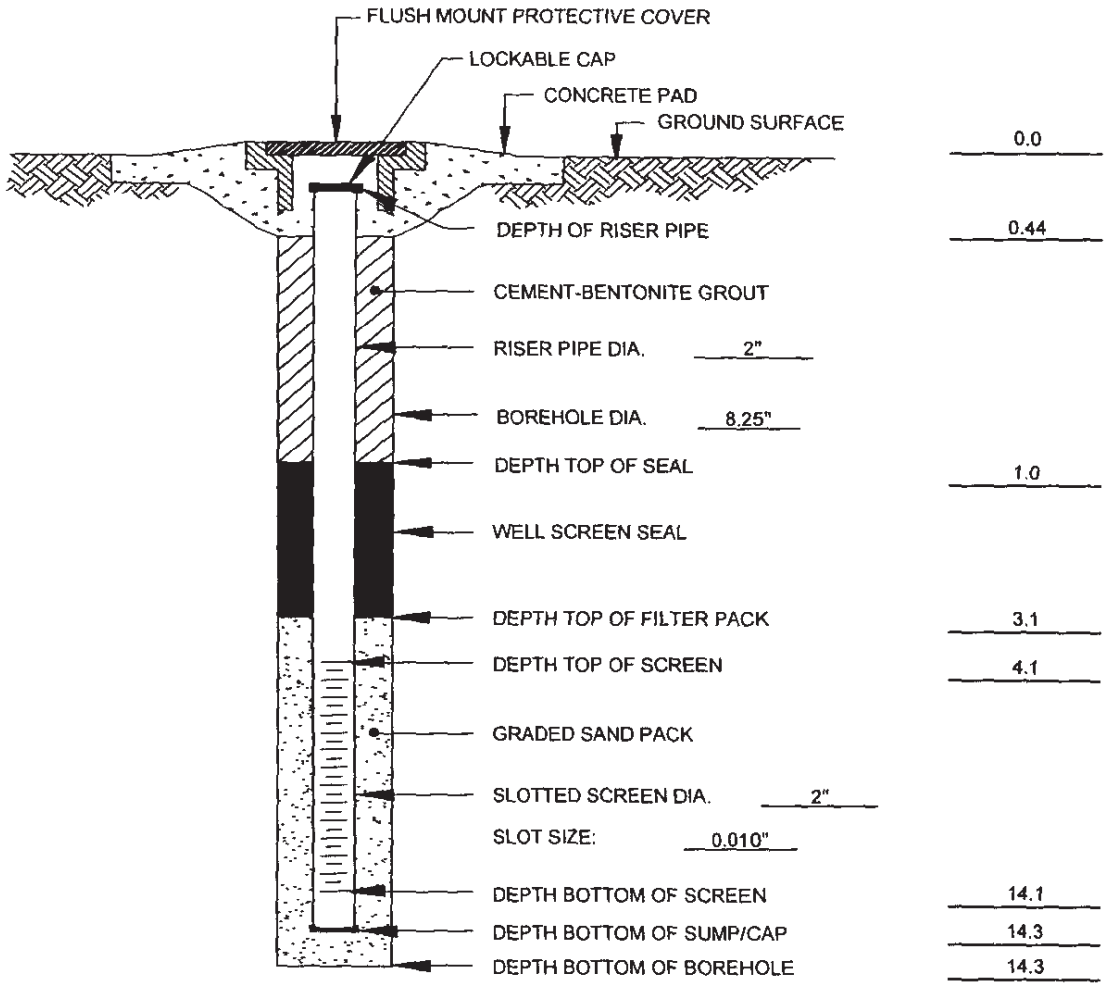
Conestoga-Rovers & Associates

Water First Noted

Level After __ min

NP Non Plastic

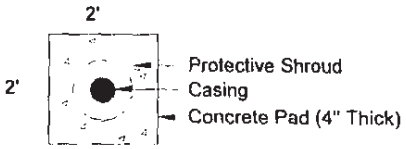
* No Penetrometer or SPT Value



ELEV. TOP OF RISER	100.28
ELEV. GROUND SURFACE	100.72
SCREENED INTERVAL	96.62 to 86.62
DATE INSTALLED	11/18/03

Construction Notes:

Well Casing:	2" DIA. SCH. 40 PVC
Shroud:	FLUSH MOUNT
Filter Pack:	9-50 LB. BAGS OF 20/40 SILICA SAND
Bentonite Seal:	1 - 50 LB. BAG OF BENTONITE CHIPS
Time/Date Placed:	11/18/03 - 1305
Grout:	N/A
Unit Weight:	N/A
Time/Date Placed:	N/A



PLAN VIEW

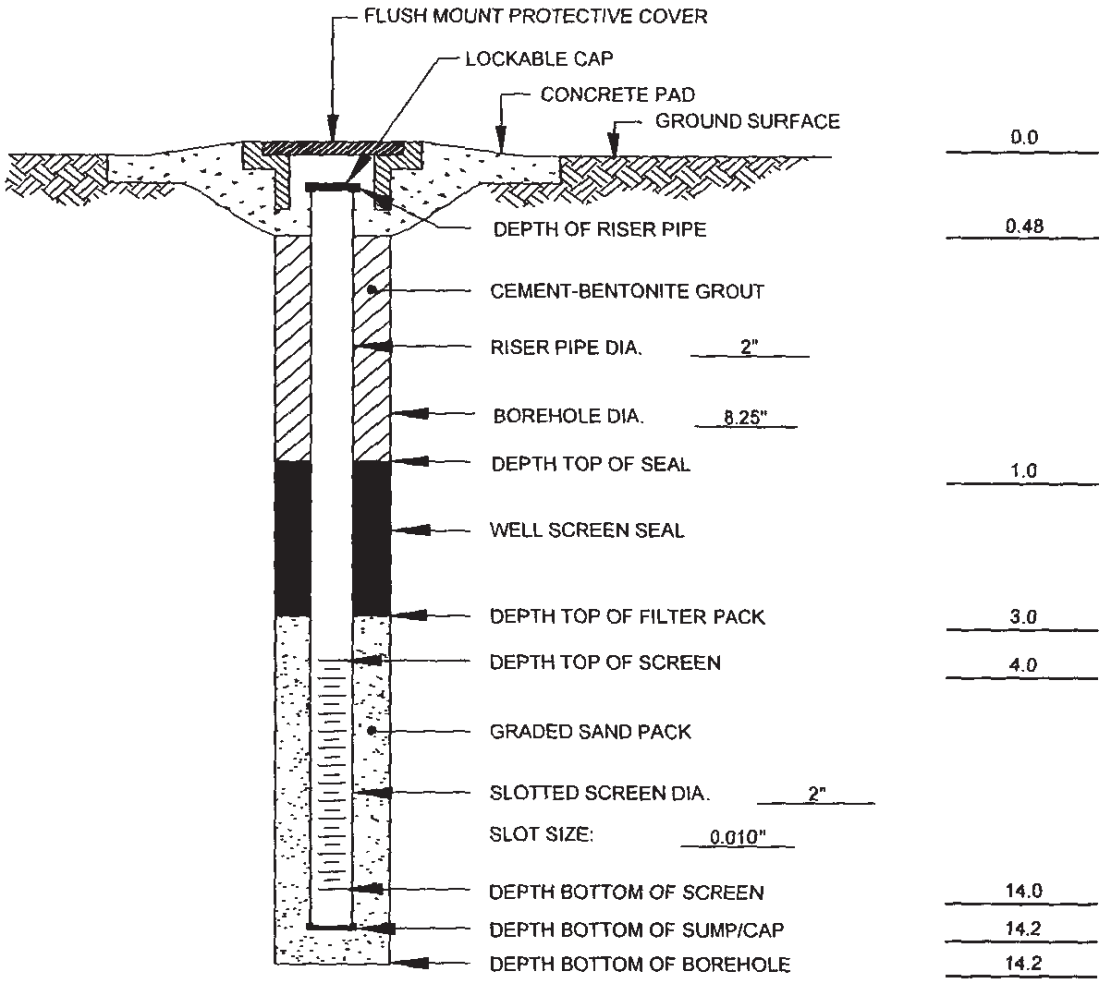
SECTION VIEW

NOTE: All section dimensions are in feet (unless otherwise noted).

CONESTOGA-ROVERS & ASSOCIATES

12/10/03 DATE	1 REV. NO.	27453-01 FILE NO	Chevron Environmental Management Co. Houston, Texas CLIENT	Chevron Service Station No. 60109060 2929 College Drive Baton Rouge, Louisiana PROJECT LOCATION	Monitor Well Cross-Section MW-1 27453-01
JPF DRAWN BY	SPO CHECKED BY:	TBP APPROVED BY:			

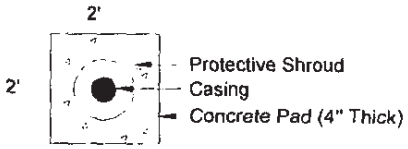
1 EXHIBIT



ELEV. TOP OF RISER	99.48
ELEV. GROUND SURFACE	99.96
SCREENED INTERVAL	95.96 to 85.96
DATE INSTALLED	11/18/03

Construction Notes:

Well Casing:	2" DIA. SCH. 40 PVC
Shroud:	FLUSH MOUNT
Filter Pack:	8-50 LB. BAGS OF 20/40 SILICA SAND
Bentonite Seal:	0.5 - 50 LB. BAG OF BENTONITE CHIPS
Time/Date Placed:	11/18/03 - 1615
Grout:	N/A
Unit Weight:	N/A
Time/Date Placed:	N/A



PLAN VIEW

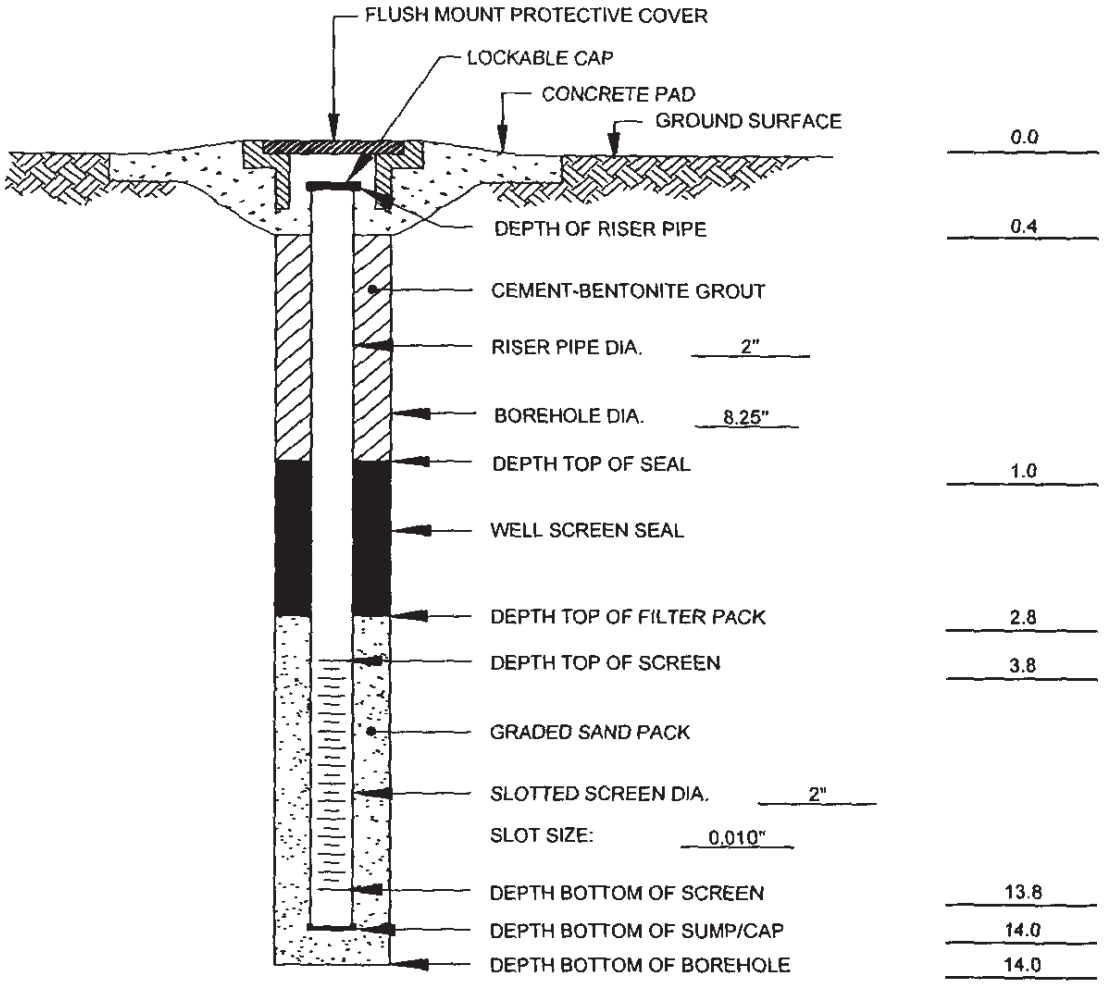
SECTION VIEW

NOTE: All section dimensions are in feet (unless otherwise noted).

CONESTOGA-ROVERS & ASSOCIATES

12/10/03 DATE	1 REV. NO	27453-01 FILE NO	Chevron Environmental Management Co. Houston, Texas CLIENT	Chevron Service Station No. 60109060 2929 College Drive Baton Rouge, Louisiana PROJECT LOCATION	Monitor Well Cross-Section MW-2 27453-01
JPF DRAWN BY	SPD CHECKED BY	TBP APPROVED BY			

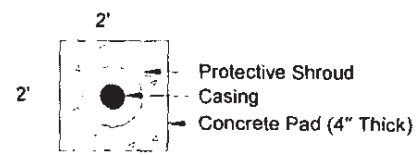
1 EXHIBIT



ELEV. TOP OF RISER	99.30
ELEV. GROUND SURFACE	99.70
SCREENED INTERVAL	95.90 to 85.90
DATE INSTALLED	11/18/03

Construction Notes:

Well Casing:	2" DIA. SCH. 40 PVC
Shroud:	FLUSH MOUNT
Filter Pack:	8-50 LB. BAGS OF 20/40 SILICA SAND
Bentonite Seal:	0.5 - 50 LB. BAG OF BENTONITE CHIPS
Time/Date Placed:	11/18/03 - 1435
Grout:	N/A
Unit Weight:	N/A
Time/Date Placed:	N/A



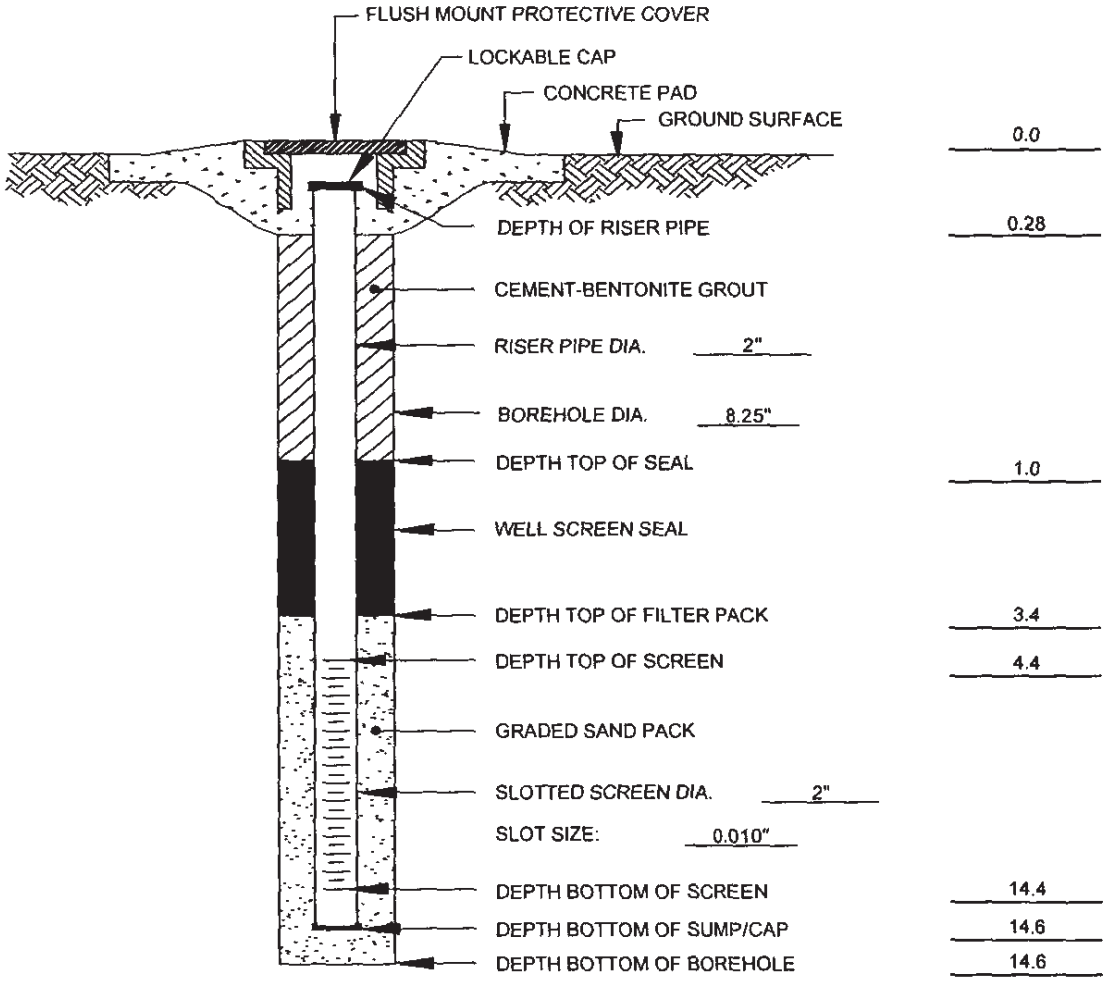
PLAN VIEW

SECTION VIEW

NOTE: All section dimensions are in feet (unless otherwise noted).

CONESTOGA-ROVERS & ASSOCIATES

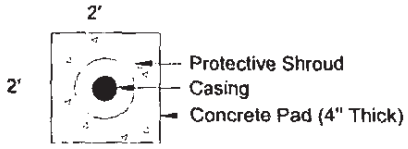
12/10/03 DATE	1 REV. NO.	27453-01 FILE NO.	Chevron Environmental Management Co. Houston, Texas CLIENT	Chevron Service Station No. 60109060 2929 College Dr. Baton Rouge, Louisiana PROJECT LOCATION	Monitor Well Cross-Section MW-3 27453-01
JPF DRAWN BY	SPD CHECKED BY:	TBP APPROVED BY:			1 EXHIBIT



ELEV. TOP OF RISER	100.08
ELEV. GROUND SURFACE	100.36
SCREENED INTERVAL	95.96 to 85.96
DATE INSTALLED	11/18/03

Construction Notes:

Well Casing:	2" DIA. SCH. 40 PVC
Shroud:	FLUSH MOUNT
Filter Pack:	8-50 LB. BAGS OF 20/40 SILICA SAND
Bentonite Seal:	0.5 - 50 LB. BAG OF BENTONITE CHIPS
Time/Date Placed:	11/18/03 - 1030
Grout:	N/A
Unit Weight:	N/A
Time/Date Placed:	N/A



PLAN VIEW

SECTION VIEW

NOTE: All section dimensions are in feet (*unless otherwise noted*).

CONESTOGA-ROVERS & ASSOCIATES

12/10/03 DATE	1 REV. NO.	27453-01 FILE NO.	Chevron Environmental Management Co. Houston, Texas CLIENT	Chevron Service Station No. 60109060 2929 College Dr. Baton Rouge, Louisiana PROJECT LOCATION	Monitor Well Cross-Section MW-4 27453-01
JPF DRAWN BY	SPD CHECKED BY:	TBP APPROVED BY:			

1 EXHIBIT

EXHIBIT 2

COST ESTIMATE

EXHIBIT 2

COST ESTIMATE
RECAP EVALUATION
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

• Prepare a Appendix I RECAP Evaluation (Unit Price).	$4,500
	$ 4,500

Notes: (1) Costs above reflect the LDEQ Motor Fuels Underground Storage Tank Trust Fund Unit Prices, effective January 1, 2002.

APPENDIX A

SOIL AND GROUNDWATER ANALYTICAL LABORATORY REPORT
AND
GEOTECHNICAL LABORATORY REPORT

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd., Suite F
St. Rose, LA 70087
Phone: 504.469.0333
Fax: 504.469.0555

December 12, 2003

Mr. David Gardner
CHEVRON PRODUCTS CO.
5959 Corporate Dr.
Houston, TX 77036

RE: Lab Project Number: 2023706
Client Project ID: 60109060

Dear Mr. Gardner:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Cindy Olavesen
cindy.olavesen@pacelabs.com
(504) 305-3626
Project Manager

Enclosures

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis
Project Number: 2023706

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
New Orleans Laboratory

Sample Cross Reference Report

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Project: 60109060

Project No.: 2023706

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
MW-1/12-14	20194628	Soil	11/18/2003	13:05	11/20/2003	17:00
MW-1/12-14MS	20194628	Soil	11/18/2003	13:05	11/20/2003	17:00
MW-1/12-14MSD	20194628	Soil	11/18/2003	13:05	11/20/2003	17:00
MW-1/2-4	20194623	Soil	11/18/2003	12:40	11/20/2003	17:00
MW-1/2-4 (SPLP)	20196935	Soil	11/18/2003	12:40	11/20/2003	17:00
MW-1/8-10	20194626	Soil	11/18/2003	12:55	11/20/2003	17:00
MW-2/0-2	20194629	Soil	11/18/2003	15:50	11/20/2003	17:00
MW-2/12-14	20194631	Soil	11/18/2003	16:15	11/20/2003	17:00
MW-2/8-10	20194630	Soil	11/18/2003	16:05	11/20/2003	17:00
MW-3/12-14	20194634	Soil	11/18/2003	14:35	11/20/2003	17:00
MW-3/2-4	20194632	Soil	11/18/2003	14:10	11/20/2003	17:00
MW-3/8-10	20194633	Soil	11/18/2003	14:25	11/20/2003	17:00
MW-4/0-2	20194647	Soil	11/18/2003	10:00	11/20/2003	17:00
MW-4/12-14	20194639	Soil	11/18/2003	10:30	11/20/2003	17:00
MW-4/6-8	20194649	Soil	11/18/2003	10:15	11/20/2003	17:00
WE-1	20194658	Water	11/18/2003	12:30	11/20/2003	17:00
WE-1MS	20194658	Water	11/18/2003	12:30	11/20/2003	17:00
WE-1MSD	20194658	Water	11/18/2003	12:30	11/20/2003	17:00
WF-1	20194659	Water	11/18/2003	12:20	11/20/2003	17:00
WT-1	20194660	Water	11/18/2003		11/20/2003	17:00

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP /NELAP WW/HZ - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: MW-1/2-4 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194623 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXMED

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 1.04499996 **Leached:** n/a **Prepared:** 11/25/03 **Analyzed:** 11/25/03 18:21 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND	D2	261.	
100-41-4	Ethylbenzene	1	7700	D2	261.	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND	D2	261.	
108-88-3	Toluene	1	ND	D2	261.	
1330-20-7	m,p-Xylene	1	1230	D2	261.	
95-47-6	o-Xylene	1	ND	D2	261.	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:05:58

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: MW-1/8-10 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194626 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXLOW

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.92900002 **Leached:** n/a **Prepared:** 11/25/03 **Analyzed:** 11/25/03 14:34 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		4.64	
100-41-4	Ethylbenzene	1	ND		4.64	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		4.64	
108-88-3	Toluene	1	ND		4.64	
1330-20-7	m,p-Xylene	1	ND		4.64	
95-47-6	o-Xylene	1	ND		4.64	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:05:59

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Pace Analytical™ New Orleans Laboratory

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: MW-1/12-14 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194628 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXLOW

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.94199997 **Leached:** n/a **Prepared:** 11/24/03 **Analyzed:** 11/24/03 22:27 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		4.71	
100-41-4	Ethylbenzene	1	ND		4.71	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		4.71	
108-88-3	Toluene	1	ND		4.71	
1330-20-7	m,p-Xylene	1	ND		4.71	
95-47-6	o-Xylene	1	ND		4.71	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:05:59

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87295
Kansas Dept. of Health & Environment/ELW/RW - E-10266
LELAP (NELAP WW/HQ) - 82006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: MW-1/12-14MS
Site: None
Project: 60109060
Project No.: 2023706
Sample Qu:
Lab ID: 20194628MS
Matrix: Soil
% Moisture: Not Corrected
Description: None
Prep Level: Soil
Batch: 32772
Method: SW 8260 Volatile Organics
Units: ug/kg
Target List: 8260MBTEXLOW
Collected: 11/18/03
Received: 11/20/03
Prep Factor: 0.95800000
Leached: n/a
Prepared: 11/24/03
Analyzed: 11/24/03 22:48 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	56.0		4.79	
100-41-4	Ethylbenzene	1	50.0		4.79	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	53.0		4.79	
108-88-3	Toluene	1	43.6		4.79	
1330-20-7	m,p-Xylene	1	103.		4.79	
95-47-6	o-Xylene	1	54.0		4.79	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:05:59

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: MW-1/12-14MSD
Site: None
Project: 60109060
Project No.: 2023706
Sample Qu:
Lab ID: 20194628MSD
Matrix: Soil
% Moisture: Not Corrected
Description: None
Prep Level: Soil
Batch: 32772
Method: SW 8260 Volatile Organics
Units: ug/kg
Target List: 8260MBTEXLOW
Collected: 11/18/03
Received: 11/20/03
Prep Factor: 1.02999997
Leached: n/a
Prepared: 11/24/03
Analyzed: 11/24/03 23:08 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	58.3		5.15	
100-41-4	Ethylbenzene	1	55.2		5.15	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	55.5		5.15	
108-88-3	Toluene	1	45.3		5.15	
1330-20-7	m,p-Xylene	1	110.		5.15	
95-47-6	o-Xylene	1	57.7		5.15	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:00

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013 .
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: MW-2/0-2 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194629 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXLOW

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.99599999 **Leached:** n/a **Prepared:** 11/24/03 **Analyzed:** 11/24/03 23:29 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		4.98	
100-41-4	Ethylbenzene	1	ND		4.98	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	7.40		4.98	
108-88-3	Toluene	1	ND		4.98	
1330-20-7	m,p-Xylene	1	ND		4.98	
95-47-6	o-Xylene	1	ND		4.98	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:00

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: MW-2/8-10 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194630 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXLOW

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.99699998 **Leached:** n/a **Prepared:** 11/25/03 **Analyzed:** 11/25/03 14:55 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		4.99	
100-41-4	Ethylbenzene	1	ND		4.99	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	109.		4.99	
108-88-3	Toluene	1	ND		4.99	
1330-20-7	m,p-Xylene	1	ND		4.99	
95-47-6	o-Xylene	1	ND		4.99	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:01

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: MW-2/12-14 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194631 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXLOW

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.99699998 **Leached:** n/a **Prepared:** 11/25/03 **Analyzed:** 11/25/03 15:15 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		4.99	
100-41-4	Ethylbenzene	1	ND		4.99	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	5.10		4.99	
108-88-3	Toluene	1	ND		4.99	
1330-20-7	m,p-Xylene	1	ND		4.99	
95-47-6	o-Xylene	1	ND		4.99	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:01

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87395
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/KD) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-3/2-4	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194632	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32772
Method:	SW 8260 Volatile Organics	Units:	ug/kg	Target List:	8260MBTEXLOW
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1.00699997	Leached: n/a	Prepared:	11/25/03	Analyzed:	11/25/03 15:36 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		5.03	
100-41-4	Ethylbenzene	1	18.3		5.03	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	6.90		5.03	
108-88-3	Toluene	1	ND		5.03	
1330-20-7	m,p-Xylene	1	ND		5.03	
95-47-6	o-Xylene	1	ND		5.03	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:01

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - *Foreign Soil Import (U.S. Territories)*

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: MW-3/8-10 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194633 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXLOW

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.96899998 **Leached:** n/a **Prepared:** 11/25/03 **Analyzed:** 11/25/03 15:57 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		4.84	
100-41-4	Ethylbenzene	1	ND		4.84	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		4.84	
108-88-3	Toluene	1	ND		4.84	
1330-20-7	m,p-Xylene	1	ND		4.84	
95-47-6	o-Xylene	1	ND		4.84	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:02

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/KD - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-3/12-14	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194634	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32772
Method:	SW 8260 Volatile Organics	Units:	ug/kg	Target List:	8260MBTEXLOW
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 0.90399998	Leached: n/a	Prepared:	11/25/03	Analyzed:	11/25/03 16:17 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		4.52	
100-41-4	Ethylbenzene	1	ND		4.52	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		4.52	
108-88-3	Toluene	1	ND		4.52	
1330-20-7	m,p-Xylene	1	ND		4.52	
95-47-6	o-Xylene	1	ND		4.52	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:02

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP /NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: MW-4/0-2 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194647 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXLOW

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.97100002 **Leached:** n/a **Prepared:** 11/25/03 **Analyzed:** 11/25/03 16:38 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		4.86	
100-41-4	Ethylbenzene	1	ND		4.86	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		4.86	
108-88-3	Toluene	1	ND		4.86	
1330-20-7	m,p-Xylene	1	ND		4.86	
95-47-6	o-Xylene	1	ND		4.86	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:02

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WH/W - E-10256
LELAP (NELAP WW/NZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: MW-4/6-8 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194649 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32772

Method: SW 8260 Volatile Organics **Units:** ug/kg **Target List:** 8260MBTEXLOW

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 1.04400003 **Leached:** n/a **Prepared:** 11/25/03 **Analyzed:** 11/25/03 16:58 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		5.22	
100-41-4	Ethylbenzene	1	ND		5.22	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.22	
108-88-3	Toluene	1	ND		5.22	
1330-20-7	m,p-Xylene	1	ND		5.22	
95-47-6	o-Xylene	1	ND		5.22	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:03

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: WE-1 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194658 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 32861

Method: SW 8260 Volatile Organics **Units:** ug/L **Target List:** 8260MBTEXWAT

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 1 **Leached:** n/a **Prepared:** **Analyzed:** 11/25/03 19:22 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		5.00	
100-41-4	Ethylbenzene	1	ND		5.00	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
1330-20-7	m,p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:03

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WH/W - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: WE-1MS
Site: None
Project: 60109060
Project No.: 2023706
Sample Qu:
Lab ID: 20194658MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 32861
Method: SW 8260 Volatile Organics
Units: ug/L
Target List: 8260MBTEXWAT
Collected: 11/18/03
Received: 11/20/03
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 11/25/03 18:41 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	62.8		5.00	
100-41-4	Ethylbenzene	1	60.8		5.00	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	58.3		5.00	
108-88-3	Toluene	1	52.9		5.00	
1330-20-7	m,p-Xylene	1	124.		5.00	
95-47-6	o-Xylene	1	62.7		5.00	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:03

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/NZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: WE-1MSD
Site: None
Project: 60109060
Project No.: 2023706
Sample Qu:
Lab ID: 20194658MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 32861
Method: SW 8260 Volatile Organics
Units: ug/L
Target List: 8260MBTEXWAT
Collected: 11/18/03
Received: 11/20/03
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 11/25/03 19:02 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	67.0		5.00	
100-41-4	Ethylbenzene	1	60.2		5.00	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	60.1		5.00	
108-88-3	Toluene	1	54.2		5.00	
1330-20-7	m,p-Xylene	1	123.		5.00	
95-47-6	o-Xylene	1	60.7		5.00	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:04

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: WF-1 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194659 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 32861

Method: SW 8260 Volatile Organics **Units:** ug/L **Target List:** 8260MBTEXWAT

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 1 **Leached:** n/a **Prepared:** **Analyzed:** 11/25/03 19:43 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		5.00	
100-41-4	Ethylbenzene	1	ND		5.00	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
1330-20-7	m,p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:04

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: WT-1 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194660 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 32861

Method: SW 8260 Volatile Organics **Units:** ug/L **Target List:** 8260MBTEXWAT

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 1 **Leached:** n/a **Prepared:** **Analyzed:** 11/25/03 20:04 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		5.00	
100-41-4	Ethylbenzene	1	ND		5.00	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
1330-20-7	m,p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:04

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: MW-1/2-4 (SPLP) **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20196935 Leachate **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 33755

Method: SW 8260 TCLP Volatile Organics **Units:** mg/L **Target List:** 8260LLEA

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 1 **Leached:** 12/03/03 **Prepared:** **Analyzed:** 12/10/03 20:58 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND	C3	0.0500	0.500

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:05

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013 -
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-1/2-4	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194623	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1.23199999	Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 16:39 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	118000		3080	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:08

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-1/8-10	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194626	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor:	0.98799998 Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 17:06 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		2470	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:08

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
LELAP ONELAP WW/HZ - 62006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: MW-1/12-14 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194628 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32706

Method: SW 8015B TPH Gasoline Range Organics (C6-C12) **Units:** ug/kg **Target List:** TPHGPT12MED

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.95999998 **Leached:** n/a **Prepared:** 11/29/03 **Analyzed:** 11/29/03 17:33 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		2400	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:08

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-1/12-14MS	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194628MS	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 0.91000003	Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 17:59 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	24200		2275	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:09

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - *Certified Puerto Rico Chemist*
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-1/12-14MSD	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194628MSD	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1.04999995	Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 18:26 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	28200		2625	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:09

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-2/0-2	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194629	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 0.94800001	Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 18:52 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	6490		2370	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:09

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-2/8-10	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194630	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 0.99800003	Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 19:19 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		2495	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:10

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-2/12-14	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194631	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor:	0.91200000 Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 19:46 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		2280	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:10

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-3/2-4	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194632	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1.05799997	Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 20:13 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	9530		2645	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:10

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-3/8-10	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194633	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1.03799999	Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 20:39 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		2595	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qs lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:11

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87395
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-3/12-14	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194634	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	32706
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/kg	Target List:	TPHGPT12MED
		Collected:	11/18/03	Received:	11/20/03
Prep Factor:	0.93000001 Leached: n/a	Prepared:	11/29/03	Analyzed:	11/29/03 21:06 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		2325	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:11

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Client: CHEVRON PRODUCTS CO.

Client ID: MW-4/0-2 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194647 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32628

Method: SW 8015B TPH Gasoline Range Organics (C6-C12) **Units:** ug/kg **Target List:** TPHGPT12MED

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.98400003 **Leached:** n/a **Prepared:** 11/24/03 **Analyzed:** 11/26/03 23:41 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		2460	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:11

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: MW-4/6-8 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194649 **Matrix:** Soil **% Moisture:** Not Corrected

Description: None **Prep Level:** Soil **Batch:** 32628

Method: SW 8015B TPH Gasoline Range Organics (C6-C12) **Units:** ug/kg **Target List:** TPHGPT12MED

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 0.92799997 **Leached:** n/a **Prepared:** 11/24/03 **Analyzed:** 11/27/03 00:07 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		2320	61000

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:12

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/H2) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	WE-1	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194658	Matrix:	Water	% Moisture:	n/a
Description:	None	Prep Level:	Water	Batch:	32841
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/L	Target List:	TPHGPT12WAT
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1	Leached: n/a	Prepared:		Analyzed:	11/26/03 04:49 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		50.0	150.

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:12

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	WE-1MS	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194658MS	Matrix:	Water	% Moisture:	n/a
Description:	None	Prep Level:	Water	Batch:	32841
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/L	Target List:	TPHGPT12WAT
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1	Leached: n/a	Prepared:		Analyzed:	11/26/03 05:16 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	503.		50.0	150.

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:12

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	WE-1MSD	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194658MSD	Matrix:	Water	% Moisture:	n/a
Description:	None	Prep Level:	Water	Batch:	32841
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/L	Target List:	TPHGPT12WAT
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1	Leached: n/a	Prepared:		Analyzed:	11/26/03 05:43 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	503.		50.0	150.

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:13

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Client ID: WF-1 **Site:** None

Project: 60109060 **Project No.:** 2023706 **Sample Qu:**

Lab ID: 20194659 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 32841

Method: SW 8015B TPH Gasoline Range Organics (C6-C12) **Units:** ug/L **Target List:** TPHGPT12WAT

Collected: 11/18/03 **Received:** 11/20/03

Prep Factor: 1 **Leached:** n/a **Prepared:** **Analyzed:** 11/26/03 06:10 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		50.0	150.

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:13

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	WT-1	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20194660	Matrix:	Water	% Moisture:	n/a
Description:	None	Prep Level:	Water	Batch:	32841
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/L	Target List:	TPHGPT12WAT
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1	Leached: n/a	Prepared:		Analyzed:	11/26/03 06:37 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	1	ND		50.0	150.

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:13

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	CHEVRON PRODUCTS CO.		
Client ID:	MW-1/2-4 (SPLP)	Site:	None		
Project:	60109060	Project No.:	2023706	Sample Qu:	
Lab ID:	20196935	Matrix:	Soil	% Moisture:	Not Corrected
Description:	None	Prep Level:	Soil	Batch:	33313
Method:	SW 8015B TPH Gasoline Range Organics (C6-C12)	Units:	ug/L	Target List:	TPHGPT12WAT
		Collected:	11/18/03	Received:	11/20/03
Prep Factor: 1	Leached: n/a	Prepared:		Analyzed:	12/04/03 17:05 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
	TPH - Gasoline Range Organics (C6-C12)	10	14000	D1	500.	150.

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

1/9/2004 10:06:14

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/NZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Low Soil GC/MS Volatile Organics

Project No.: 2023706

Batch: 32772

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	50	107			48	117	122	4		66 - 130	36 - 136	50	
Benzene	2500	127			2500					66 - 127	46 - 146	50	
Ethylbenzene	50	82			48	100	111	10		65 - 125	7 - 141	50	
Ethylbenzene	2500	118			2500					53 - 128	32 - 138	50	
Methyl tert-butyl ether (MTBE)	50	98			48	101	106	5		50 - 150	50 - 150	50	
Methyl tert-butyl ether (MTBE)	2500	102			2500					-	-		
Toluene	50	86			48	91	95	4		66 - 128	24 - 140	50	
Toluene	2500	100			2500					56 - 139	43 - 141	50	
m,p-Xylene	100	85			96	106	114	7		50 - 150	50 - 150	50	
m,p-Xylene	5000	123			5000					50 - 150	50 - 150	50	
o-Xylene	50	83			48	113	120	7		50 - 150	50 - 150	50	
o-Xylene	2500	114			2500					50 - 150	50 - 150	50	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:16

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2023706

Batch: 32861

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone (2-Propanone, Dimethyl keton	100	84			100					50 - 150	50 - 150	25	
Acetone (2-Propanone, Dimethyl keton	100	93			100					50 - 150	50 - 150	25	
Acetone (2-Propanone, Dimethyl keton	100	50			100					50 - 150	50 - 150	25	
Acetone (2-Propanone, Dimethyl keton	100	69			100					50 - 150	50 - 150	25	
Acetone (2-Propanone, Dimethyl keton	100	69			100					50 - 150	50 - 150	25	
Acetone (2-Propanone, Dimethyl keton	100	69			100					50 - 150	50 - 150	25	
Benzene	50	121			50	126	134	6		74 - 131	64 - 140	25	
Benzene	50	124			50					74 - 131	64 - 140	25	
Benzene	50	127			50					74 - 131	64 - 140	25	
Benzene	50	93			50					74 - 131	64 - 140	25	
Acrylonitrile (2-Propenenitrile)	50	121			200					50 - 150	50 - 150	25	
Acrylonitrile (2-Propenenitrile)	50	121			200					50 - 150	50 - 150	25	
Bromodichloromethane	50	104			50					70 - 130	61 - 150	25	
Bromodichloromethane	50	95			50					70 - 130	61 - 150	25	
Bromodichloromethane	50	94			50					70 - 130	61 - 150	25	
Bromodichloromethane	50	114			50					70 - 130	61 - 150	25	
Benzene	50	93			50					74 - 131	64 - 140	25	
Benzene	50	93			50					74 - 131	64 - 140	25	
Bromoform	50	103			50					69 - 150	63 - 150	25	
Bromoform	50	104			50					69 - 150	63 - 150	25	
Bromoform	50	104			50					69 - 150	63 - 150	25	
Bromoform	50	90			50					69 - 150	63 - 150	25	
Bromochloromethane	50	99			50					70 - 130	70 - 130	25	
Bromochloromethane	50	99			50					70 - 130	70 - 130	25	
Bromomethane (Methyl bromide)	50	136			50					53 - 140	51 - 144	25	
Bromomethane (Methyl bromide)	50	120			50					53 - 140	51 - 144	25	
Bromomethane (Methyl bromide)	50	114			50					53 - 140	51 - 144	25	
Bromomethane (Methyl bromide)	50	87			50					53 - 140	51 - 144	25	
Bromodichloromethane	50	114			50					70 - 130	61 - 150	25	
Bromodichloromethane	50	114			50					70 - 130	61 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	72			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	74			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	50	72			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	84			100					50 - 150	50 - 150	25	
Bromoform	50	90			50					69 - 150	63 - 150	25	
Bromoform	50	90			50					69 - 150	63 - 150	25	
Carbon disulfide	50	90			50					50 - 141	50 - 143	25	
Carbon disulfide	50	91			50					50 - 141	50 - 143	25	
Carbon disulfide	50	98			50					50 - 141	50 - 143	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:17

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2023706

Batch: 32861

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Carbon disulfide	50	52			50					50 - 141	50 - 143	25	
Bromomethane (Methyl bromide)	50	87			50					53 - 140	51 - 144	25	
Bromomethane (Methyl bromide)	50	87			50					53 - 140	51 - 144	25	
Carbon tetrachloride	50	157 *			50					59 - 150	50 - 150	25	Q10
Carbon tetrachloride	50	144			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	155 *			50					59 - 150	50 - 150	25	Q10
Carbon tetrachloride	50	92			50					59 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	84			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	84			100					50 - 150	50 - 150	25	
Chlorobenzene	50	110			50					76 - 131	69 - 136	25	
Chlorobenzene	50	114			50					76 - 131	69 - 136	25	
Chlorobenzene	50	112			50					76 - 131	69 - 136	25	
Chlorobenzene	50	88			50					76 - 131	69 - 136	25	
Carbon disulfide	50	52			50					50 - 141	50 - 143	25	
Carbon disulfide	50	52			50					50 - 141	50 - 143	25	
Chloroethane	50	97			50					50 - 143	50 - 148	25	
Chloroethane	50	104			50					50 - 143	50 - 148	25	
Chloroethane	50	101			50					50 - 143	50 - 148	25	
Chloroethane	50	85			50					50 - 143	50 - 148	25	
1,2-Dichlorobenzene (o-Dichlorobenze	50	90			50					74 - 130	62 - 146	25	
1,2-Dichlorobenzene (o-Dichlorobenze	50	90			50					74 - 130	62 - 146	25	
Chloroform	50	100			50					74 - 133	69 - 137	25	
Chloroform	50	102			50					74 - 133	69 - 137	25	
Chloroform	50	106			50					74 - 133	69 - 137	25	
Chloroform	50	103			50					74 - 133	69 - 137	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	90			50					71 - 125	57 - 143	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	90			50					71 - 125	57 - 143	25	
Chloromethane (Methyl chloride)	50	61			50					50 - 149	50 - 150	25	
Chloromethane (Methyl chloride)	50	69			50					50 - 149	50 - 150	25	
Chloromethane (Methyl chloride)	50	62			50					50 - 149	50 - 150	25	
Chloromethane (Methyl chloride)	50	55			50					50 - 149	50 - 150	25	
Carbon tetrachloride	50	92			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	92			50					59 - 150	50 - 150	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	57			50					50 - 150	50 - 150	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	67			50					50 - 150	50 - 150	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	60			50					50 - 150	50 - 150	25	
Dibromochloromethane	50	94			50					73 - 150	68 - 150	25	
Chlorobenzene	50	88			50					76 - 131	69 - 136	25	
Chlorobenzene	50	88			50					76 - 131	69 - 136	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:18

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2023706

Batch: 32861

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,2-Dibromoethane (Ethylene dibromid	50	95			50					74 - 141	50 - 146	25	
1,2-Dibromoethane (Ethylene dibromid	50	93			50					74 - 141	50 - 146	25	
1,2-Dibromoethane (Ethylene dibromid	50	89			50					74 - 141	50 - 146	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	83			50					50 - 150	50 - 150	25	
Chloroethane	50	85			50					50 - 143	50 - 148	25	
Chloroethane	50	85			50					50 - 143	50 - 148	25	
Dichlorodifluoromethane (Freon 12)	50	101			50					50 - 150	50 - 150	25	
Dichlorodifluoromethane (Freon 12)	50	161 *			50					50 - 150	50 - 150	25	Q10
Dichlorodifluoromethane (Freon 12)	50	87			50					50 - 150	50 - 150	25	
1,1-Dichloroethane	50	91			50					64 - 136	61 - 139	25	
Chloroform	50	103			50					74 - 133	69 - 137	25	
Chloroform	50	103			50					74 - 133	69 - 137	25	
Dibromochloromethane	50	109			50					73 - 150	68 - 150	25	
Dibromochloromethane	50	109			50					73 - 150	68 - 150	25	
Dibromochloromethane	50	103			50					73 - 150	68 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	108			50					62 - 150	57 - 150	25	
Chloromethane (Methyl chloride)	50	55			50					50 - 149	50 - 150	25	
Chloromethane (Methyl chloride)	50	55			50					50 - 149	50 - 150	25	
1,1-Dichloroethane	50	106			50					64 - 136	61 - 139	25	
1,1-Dichloroethane	50	100			50					64 - 136	61 - 139	25	
1,1-Dichloroethane	50	100			50					64 - 136	61 - 139	25	
1,1-Dichloroethene (Dichloroethylene)	50	66			50					50 - 140	50 - 143	25	
Dibromochloromethane	50	94			50					73 - 150	68 - 150	25	
Dibromochloromethane	50	94			50					73 - 150	68 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	151			50	152 *	163 *	7		62 - 151	57 - 151	25	Q1
1,2-Dichloroethane (Ethylene dichlorid	50	160 *			50					62 - 150	57 - 150	25	Q10
1,2-Dichloroethane (Ethylene dichlorid	50	157 *			50					62 - 150	57 - 150	25	Q10
cis-1,2-Dichloroethene	50	92			50					52 - 143	50 - 150	50	
1,2-Dibromo-3-chloropropane (DBCP)	50	83			50					50 - 150	50 - 150	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	83			50					50 - 150	50 - 150	25	
1,1-Dichloroethene (Dichloroethylene)	50	101			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	101			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	96			50					50 - 140	50 - 143	25	
trans-1,2-Dichloroethene	50	85			50					52 - 135	50 - 139	25	
1,2-Dibromoethane (Ethylene dibromid	50	104			50					74 - 141	50 - 146	25	
1,2-Dibromoethane (Ethylene dibromid	50	104			50					74 - 141	50 - 146	25	
cis-1,2-Dichloroethene	50	91			50					52 - 143	50 - 150	50	
cis-1,2-Dichloroethene	50	91			50					52 - 143	50 - 150	50	
cis-1,2-Dichloroethene	50	94			50					52 - 143	50 - 150	50	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:18

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2023706

Batch: 32861

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,2-Dichloropropane	50	98			50					70 - 138	60 - 142	25	
Dibromomethane (Methylene bromide)	50	104			50					61 - 150	60 - 150	25	
Dibromomethane (Methylene bromide)	50	104			50					61 - 150	60 - 150	25	
trans-1,2-Dichloroethene	50	95			50					52 - 135	50 - 139	25	
trans-1,2-Dichloroethene	50	95			50					52 - 135	50 - 139	25	
trans-1,2-Dichloroethene	50	98			50					52 - 135	50 - 139	25	
cis-1,3-Dichloropropene	50	99			50					73 - 145	69 - 146	25	
trans-1,4-Dichloro-2-butene	50	82			50					50 - 150	50 - 150	25	
trans-1,4-Dichloro-2-butene	50	82			50					50 - 150	50 - 150	25	
1,2-Dichloropropane	50	88			50					70 - 138	68 - 142	25	
1,2-Dichloropropane	50	88			50					70 - 138	68 - 142	25	
1,2-Dichloropropane	50	92			50					70 - 138	68 - 142	25	
trans-1,3-Dichloropropene	50	96			50					65 - 150	60 - 150	25	
1,1-Dichloroethane	50	91			50					64 - 136	61 - 139	25	
1,1-Dichloroethane	50	91			50					64 - 136	61 - 139	25	
cis-1,3-Dichloropropene	50	81			50					73 - 145	69 - 146	25	
cis-1,3-Dichloropropene	50	80			50					73 - 145	69 - 146	25	
cis-1,3-Dichloropropene	50	85			50					73 - 145	69 - 146	25	
Ethylbenzene	50	88			50					65 - 133	57 - 138	25	
1,2-Dichloroethane (Ethylene dichlorid	50	108			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	108			50					62 - 150	57 - 150	25	
trans-1,3-Dichloropropene	50	79			50					65 - 150	60 - 150	25	
trans-1,3-Dichloropropene	50	90			50					65 - 150	60 - 150	25	
trans-1,3-Dichloropropene	50	83			50					65 - 150	60 - 150	25	
1,1-Dichloroethene (Dichloroethylene)	50	66			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	66			50					50 - 140	50 - 143	25	
Ethylbenzene	50	117			50					65 - 133	57 - 138	25	
Ethylbenzene	50	119			50					65 - 133	57 - 138	25	
Ethylbenzene	50	115			50	122	120	1		65 - 133	57 - 138	25	
Methylene chloride (Dichloromethane)	50	95			50					50 - 150	50 - 144	25	
cis-1,2-Dichloroethene	50	92			50					52 - 143	50 - 150	50	
cis-1,2-Dichloroethene	50	92			50					52 - 143	50 - 150	50	
2-Hexanone	100	80			100					50 - 150	50 - 150	25	
2-Hexanone	100	85			100					50 - 150	50 - 150	25	
2-Hexanone	50	84			100					50 - 150	50 - 150	25	
4-Methyl-2-pentanone (MIBK)	100	38 *			100					50 - 150	50 - 150	25	
trans-1,2-Dichloroethene	50	85			50					52 - 135	50 - 139	25	
trans-1,2-Dichloroethene	50	85			50					52 - 135	50 - 139	25	
Isopropylbenzene (Cumene)	50	104			50					62 - 134	54 - 141	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:19

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2023706

Batch: 32861

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Isopropylbenzene (Cumene)	50	102			50					62 - 134	54 - 141	25	
Isopropylbenzene (Cumene)	50	104			50					62 - 134	54 - 141	25	
1,2-Dichloropropane	50	98			50					70 - 138	68 - 142	25	
1,2-Dichloropropane	50	98			50					70 - 138	68 - 142	25	
Styrene	50	91			50					50 - 134	56 - 143	25	
cis-1,3-Dichloropropene	50	99			50					73 - 145	69 - 146	25	
cis-1,3-Dichloropropene	50	99			50					73 - 145	69 - 146	25	
Methylene chloride (Dichloromethane)	50	95			50					50 - 150	50 - 144	25	
Methylene chloride (Dichloromethane)	50	98			50					50 - 150	50 - 144	25	
Methylene chloride (Dichloromethane)	50	92			50					50 - 150	50 - 144	25	
1,1,1,2-Tetrachloroethane	50	92			50					80 - 146	75 - 150	25	
trans-1,3-Dichloropropene	50	96			50					65 - 150	60 - 150	25	
trans-1,3-Dichloropropene	50	96			50					65 - 150	60 - 150	25	
4-Methyl-2-pentanone (MIBK)	50	88			100					50 - 150	50 - 150	25	
4-Methyl-2-pentanone (MIBK)	100	85			100					50 - 150	50 - 150	25	
4-Methyl-2-pentanone (MIBK)	100	91			100					50 - 150	50 - 150	25	
1,1,2,2-Tetrachloroethane	50	89			50					56 - 146	58 - 143	25	
Ethylbenzene	50	88			50					65 - 133	57 - 138	25	
Ethylbenzene	50	88			50					65 - 133	57 - 138	25	
Methyl tert-butyl ether (MTBE)	50	106			50	117	120	3		50 - 142	50 - 150	25	
Methyl tert-butyl ether (MTBE)	50	102			50					50 - 142	50 - 150	25	
Methyl tert-butyl ether (MTBE)	50	106			50					50 - 142	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	81			50					50 - 150	50 - 150	25	
2-Hexanone	100	66			100					50 - 150	50 - 150	25	
2-Hexanone	100	66			100					50 - 150	50 - 150	25	
Styrene	50	117			50					50 - 134	56 - 143	25	
Styrene	50	118			50					50 - 134	56 - 143	25	
Styrene	50	119			50					50 - 134	56 - 143	25	
Toluene	50	99			50					73 - 133	54 - 148	25	
Iodomethane (Methyl iodide)	50	74			50					50 - 150	50 - 150	25	
Iodomethane (Methyl iodide)	50	74			50					50 - 150	50 - 150	25	
1,1,2,2-Tetrachloroethane	50	82			50					56 - 146	58 - 143	25	
1,1,2,2-Tetrachloroethane	50	82			50					56 - 146	58 - 143	25	
1,1,2,2-Tetrachloroethane	50	77			50					56 - 146	58 - 143	25	
1,2,4-Trichlorobenzene	50	95			50					64 - 139	59 - 145	25	
Methylene chloride (Dichloromethane)	50	95			50					50 - 150	50 - 144	25	
Methylene chloride (Dichloromethane)	50	95			50					50 - 150	50 - 144	25	
Tetrachloroethene (Perchloroethylene)	50	124			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	125			50					50 - 150	50 - 150	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:19

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2023706

Batch: 32861

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Tetrachloroethene (Perchloroethylene)	50	130			50					50 - 150	50 - 150	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	86			50					69 - 138	60 - 143	25	
4-Methyl-2-pentanone (MIBK)	100	38 *			100					50 - 150	50 - 150	25	
4-Methyl-2-pentanone (MIBK)	100	38 *			100					50 - 150	50 - 150	25	
Toluene	50	102			50					73 - 133	54 - 148	25	
Toluene	50	98			50	106	108	2		73 - 133	54 - 148	25	
Toluene	50	100			50					73 - 133	54 - 148	25	
1,1,2-Trichloroethane	50	105			50					75 - 146	70 - 149	25	
Styrene	50	91			50					50 - 134	56 - 143	25	
Styrene	50	91			50					50 - 134	56 - 143	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	109			50					69 - 138	60 - 143	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	105			50					69 - 138	60 - 143	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	104			50					69 - 138	60 - 143	25	
Trichloroethene (Trichloroethylene)	50	87			50					76 - 138	66 - 146	25	
1,1,1,2-Tetrachloroethane	50	92			50					80 - 146	75 - 150	25	
1,1,1,2-Tetrachloroethane	50	92			50					80 - 146	75 - 150	25	
1,1,2-Trichloroethane	50	86			50					75 - 146	70 - 149	25	
1,1,2-Trichloroethane	50	93			50					75 - 146	70 - 149	25	
1,1,2-Trichloroethane	50	91			50					75 - 146	70 - 149	25	
Trichlorofluoromethane (Freon 11)	50	92			50					50 - 150	50 - 150	25	
1,1,2,2-Tetrachloroethane	50	89			50					56 - 146	58 - 143	25	
1,1,2,2-Tetrachloroethane	50	89			50					56 - 146	58 - 143	25	
Trichloroethene (Trichloroethylene)	50	111			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	116			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	118			50					76 - 138	66 - 146	25	
Vinyl chloride (Chloroethene)	50	68			50					50 - 144	50 - 146	25	
Tetrachloroethene (Perchloroethylene)	50	81			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	81			50					50 - 150	50 - 150	25	
Trichlorofluoromethane (Freon 11)	50	162 *			50					50 - 150	50 - 150	25	Q10
Trichlorofluoromethane (Freon 11)	50	140			50					50 - 150	50 - 150	25	
Trichlorofluoromethane (Freon 11)	50	131			50					50 - 150	50 - 150	25	
m,p-Xylene	100	90			100					72 - 130	70 - 130	25	
Toluene	50	99			50					73 - 133	54 - 148	25	
Toluene	50	99			50					73 - 133	54 - 148	25	
Vinyl chloride (Chloroethene)	50	75			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	86			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	78			50					50 - 144	50 - 146	25	
o-Xylene	50	93			50					74 - 133	64 - 141	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	86			50					69 - 138	60 - 143	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:20

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87395
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2023706

Batch: 32861

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,1,1-Trichloroethane (Methyl chlorofo	50	86			50					69 - 138	60 - 143	25	
m,p-Xylene	100	122			100	124	123	1		72 - 130	70 - 130	25	
m,p-Xylene	100	121			100					72 - 130	70 - 130	25	
m,p-Xylene	100	126			100					72 - 130	70 - 130	25	
1,1,2-Trichloroethane	50	105			50					75 - 146	70 - 149	25	
1,1,2-Trichloroethane	50	105			50					75 - 146	70 - 149	25	
o-Xylene	50	115			50					74 - 133	64 - 141	25	
o-Xylene	50	114			50					74 - 133	64 - 141	25	
o-Xylene	50	116			50	125	121	3		74 - 133	64 - 141	25	
Trichloroethene (Trichloroethylene)	50	87			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	87			50					76 - 138	66 - 146	25	
Trichlorofluoromethane (Freon 11)	50	92			50					50 - 150	50 - 150	25	
Trichlorofluoromethane (Freon 11)	50	92			50					50 - 150	50 - 150	25	
1,2,3-Trichloropropane	50	79			50					55 - 150	63 - 150	25	
1,2,3-Trichloropropane	50	79			50					55 - 150	63 - 150	25	
Vinyl chloride (Chloroethene)	50	68			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	68			50					50 - 144	50 - 146	25	
m,p-Xylene	100	90			100					72 - 130	70 - 130	25	
m,p-Xylene	100	90			100					72 - 130	70 - 130	25	
o-Xylene	50	93			50					74 - 133	64 - 141	25	
o-Xylene	50	93			50					74 - 133	64 - 141	25	
Acrolein (2-Propenal)	200	86			200					50 - 150	50 - 150	25	
Acrolein (2-Propenal)	200	86			200					50 - 150	50 - 150	25	
Allyl chloride (3-Chloropropene)	50	86			100					50 - 150	50 - 150	25	
Allyl chloride (3-Chloropropene)	50	86			100					50 - 150	50 - 150	25	
Chloroprene (2-Chloro-1,3-butadiene)	50	90			50					53 - 150	50 - 139	25	
Chloroprene (2-Chloro-1,3-butadiene)	50	90			50					53 - 150	50 - 139	25	
1,3-Dichloropropane	50	92			50					74 - 134	59 - 150	25	
1,3-Dichloropropane	50	92			50					74 - 134	59 - 150	25	
2,2-Dichloropropane	50	90			50					53 - 146	70 - 130	25	
2,2-Dichloropropane	50	90			50					53 - 146	70 - 130	25	
1,1-Dichloropropene	50	88			50					74 - 144	63 - 150	25	
1,1-Dichloropropene	50	88			50					74 - 144	63 - 150	25	

267 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:20

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2023706

Method: Leachate GC/MS Volatile Organics

Batch: 33755 **Units:** mg/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	500	99			500	96	99	4		70 - 137	63 - 146	50	
2-Butanone (Methyl ethyl ketone)	500	104			500	102	100	2		22 - 165	8 - 181	50	
Carbon tetrachloride	500	72			500	69	69	1		63 - 151	63 - 150	50	
Chlorobenzene	500	105			500	105	107	2		70 - 134	69 - 133	50	
Chloroform	500	90			500	88	91	4		74 - 129	71 - 132	50	
1,2-Dichloroethane (Ethylene dichlorid	500	90			500	87	87	0		64 - 148	62 - 150	50	
1,1-Dichloroethene (Dichloroethylene)	500	97			500	92	97	5		57 - 150	57 - 152	50	
Tetrachloroethene (Perchloroethylene)	500	91			500	90	90	0		48 - 136	51 - 133	50	
Trichloroethene (Trichloroethylene)	500	93			500	89	91	2		52 - 145	52 - 144	50	
Vinyl chloride (Chloroethene)	500	86			500	80	86	6		31 - 167	29 - 166	50	

10 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:21

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87395
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Low Soil GC/MS Volatile Organics

Report: 2023706

Batch: 32772

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20194520	Sample	84	99	82					
20194521	Sample	83	104	81					
20194522	Sample	82	98	79					
20194523	Sample D2	72	104	94					
20194524	Sample	73	107	88					
20194527	Sample	83	99	68					
20194528	Sample	74	98	88					
20194529	Sample	83	94	76					
20194531	Sample	81	95	70					
20194623	Sample D2	82	102	79					
20194626	Sample	79	101	82					
20194628	Sample	83	99	69					
20194629	Sample	83	95	75					
20194630	Sample	81	98	84					
20194631	Sample	80	100	84					
20194632	Sample	79	103	88					
20194633	Sample	85	97	85					
20194634	Sample	83	93	87					
20194647	Sample	80	97	87					
20194649	Sample	82	98	87					
32772BA24	Blank	81	101	71					
32772BA25	Blank	81	99	85					
32772MS	Spike	86	93	69					
32772MSD	Spike Dup	82	102	67					
32772SA24	LCS	82	99	82					
32772SA25	LCS	81	86	81					
QC limits:		65-124	55-160	59-139					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

1/9/2004 10:06:24

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2023706

Method: Water GC/MS Volatile Organics

Batch: 32861

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20190352	Sample	99	104	94					
20193509	Sample	102	96	95					
20193510	Sample	101	101	93					
20193511	Sample	106	86	94					
20194554	Sample	78	100	83					
20194555	Sample	79	103	83					
20194556	Sample	80	102	84					
20194557	Sample	82	102	82					
20194603	Sample D2	83	96	88					
20194604	Sample D2	84	101	82					
20194605	Sample D2	85	97	82					
20194605DL	Dilution D1	82	95	85					
20194658	Sample	77	96	70					
20194659	Sample	77	97	78					
20194660	Sample	78	102	81					
20196446	Sample D2	86	98	88					
20196447	Sample D2	81	96	93					
20196449	Sample D2	83	94	87					
20196450	Sample	77	100	87					
20196451	Sample D2	82	103	82					
32861BA01	Blank	80	101	94					
32861BA03	Blank	82	100	95					
32861BA25	Blank	80	98	87					
32861BM25	Blank	101	100	105					
32861BM25F	Blank	101	100	105					
32861BM25G	Blank	101	100	105					
32861MS	Spike	85	98	74					
32861MSD	Spike Dup	81	94	78					
32861SA01	LCS	82	90	88					
32861SA03	LCS	84	93	85					
32861SA25	LCS	80	93	85					
32861SM25	LCS	103	92	96					
32861SM25F	LCS	103	92	96					
32861SM25G	LCS	103	92	96					
606600286	Sample	102	98	92					
606600385	Sample	101	98	94					
606600393	Sample	102	100	98					
606600450	Sample	101	97	97					

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered as excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

1/9/2004 10:06:24

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Report: 2023706

Batch: 32861

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
QC limits:		76-120	74-127	66-121					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

1/9/2004 10:06:25

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2023706

Method: Leachate GC/MS Volatile Organics

Batch: 33755

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20196935	Sample	95	105	87					
20196936	Sample	95	105	85					
33755BZ10	Blank	95	115	87					
33755MS	Spike	95	102	84					
33755MSD	Spike Dup	94	104	84					
33755SZ10	LCS	98	102	86					
QC limits:		80-116	73-126	69-124					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

1/9/2004 10:06:25

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32772BA24

Description: Low Soil Method Blan **Project No.:** 2023706

Method: Low Soil GC/MS Volatile Organics **Batch:** 32772 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 24-Nov-03 **Analyzed:** 24-Nov-03 18:01 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:28

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/HHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32772BA25

Description: Med Soil Method Blan **Project No.:** 2023706

Method: Med Soil GC/MS Volatile Organics **Batch:** 32772 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 25-Nov-03 **Analyzed:** 25-Nov-03 17:19 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		250.
100-41-4	Ethylbenzene	1	ND		250.
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		250.
108-88-3	Toluene	1	ND		250.
1330-20-7	m,p-Xylene	1	ND		250.
95-47-6	o-Xylene	1	ND		250.

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:28

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BA01

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Dec-03 10:30 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
79-20-9	Methylacetate	1	ND		10.0
75-09-2	Methylene chloride (Dichloromethane	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
100-42-5	Styrene	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:29

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/RW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BA01

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 01-Dec-03 10:30 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

42 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:29

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BA03

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 03-Dec-03 12:03 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1	12.7		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
79-20-9	Methylacetate	1	ND		10.0
75-09-2	Methylene chloride (Dichloromethane	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
100-42-5	Styrene	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:30

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013 -
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BA03

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 03-Dec-03 12:03 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

42 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:30

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BA25

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 11:50 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
79-20-9	Methylacetate	1	ND		10.0
75-09-2	Methylene chloride (Dichloromethane	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
100-42-5	Styrene	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:30

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10286
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BA25

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 11:50 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

42 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:31

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BM25

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 13:01 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1	ND		10.0
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND		20.0
71-43-2	Benzene	1	ND		5.00
74-97-5	Bromochloromethane	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenz	1	ND		5.00
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenz	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1	ND		5.00
74-95-3	Dibromomethane (Methylene bromide)	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane (Methyl iodide)	1	ND		5.00
75-09-2	Methylene chloride (Dichloromethane	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:31

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BM25

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 13:01 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00
75-05-8	Acetonitrile (Methyl cyanide)	1	ND		100.
107-02-8	Acrolein (2-Propenal)	1	ND		20.0
107-05-1	Allyl chloride (3-Chloropropene)	1	ND		10.0
126-99-8	Chloroprene (2-Chloro-1,3-butadiene	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
142-28-9	1,3-Dichloropropane	1	ND		5.00
594-20-7	2,2-Dichloropropane	1	ND		5.00
563-58-6	1,1-Dichloropropene	1	ND		5.00
67-63-0	2-Propanol (iso-Propyl alcohol)	1	ND		200.
107-12-0	Propionitrile (Ethyl cyanide)	1	ND		20.0
126-98-7	Methacrylonitrile	1	ND		100.

59 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:31

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/NZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BM25F

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 13:01 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
75-09-2	Methylene chloride (Dichloromethane	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	1	ND		250.
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:32

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP /NELAP WW/HZ - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BM25F

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 13:01 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

40 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:32

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BM25G

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 13:01 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1	ND		10.0
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND		20.0
71-43-2	Benzene	1	ND		5.00
74-97-5	Bromochloromethane	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenz	1	ND		5.00
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenz	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1	ND		5.00
74-95-3	Dibromomethane (Methylene bromide)	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane (Methyl iodide)	1	ND		5.00
75-09-2	Methylene chloride (Dichloromethane	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:33

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32861BM25G

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC/MS Volatile Organics **Batch:** 32861 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 13:01 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00
75-05-8	Acetonitrile (Methyl cyanide)	1	ND		100.
107-02-8	Acrolein (2-Propenal)	1	ND		20.0
107-05-1	Allyl chloride (3-Chloropropene)	1	ND		10.0
126-99-8	Chloroprene (2-Chloro-1,3-butadiene	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
142-28-9	1,3-Dichloropropane	1	ND		5.00
594-20-7	2,2-Dichloropropane	1	ND		5.00
563-58-6	1,1-Dichloropropene	1	ND		5.00
67-63-0	2-Propanol (iso-Propyl alcohol)	1	ND		200.
107-12-0	Propionitrile (Ethyl cyanide)	1	ND		20.0
126-98-7	Methacrylonitrile	1	ND		100.

59 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:33

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87295
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33755BZ10

Description: Leachate Method Blan **Project No.:** 2023706

Method: Leachate GC/MS Volatile Organics **Batch:** 33755 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 10-Dec-03 18:33 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND	C3	50.0
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND	C3	100.
56-23-5	Carbon tetrachloride	1	ND	C3	50.0
108-90-7	Chlorobenzene	1	ND	C3	50.0
67-66-3	Chloroform	1	ND	C3	50.0
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND	C3	50.0
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND	C3	50.0
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND	C3	50.0
79-01-6	Trichloroethene (Trichloroethylene)	1	ND	C3	50.0
75-01-4	Vinyl chloride (Chloroethene)	1	ND	C3	50.0

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:33

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/RW - E-10266
ELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Med Soil GC Organics

Project No.: 2023706

Batch: 32628

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics (C6-C	25000	104			25000	88	84	4		50 - 150	50 - 150	50	
TPH - Gasoline Range Organics (C6-C	25000	99			25000					50 - 150	50 - 150	50	

2 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:36

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Med Soil GC Organics

Project No.: 2023706

Batch: 32706

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics (C6-C	25000	118			22800	99	117	15		50 - 150	50 - 150	50	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:36

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Project No.: 2023706

Batch: 32841

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics (C6-C	500	113			500					50 - 150	50 - 150	25	
TPH - Gasoline Range Organics (C6-C	500	113			500					50 - 150	50 - 150	25	
TPH - Gasoline Range Organics (C6-C	500	109			500	96	96	0		50 - 150	50 - 150	25	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:37

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Project No.: 2023706

Batch: 33313

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qn
TPH - Gasoline Range Organics (C6-C	500	111			500	0 *	0 *	0		50 - 150	50 - 150	25	Q3
TPH - Gasoline Range Organics (C6-C	500	118			500					50 - 150	50 - 150	25	

2 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

1/9/2004 10:06:37

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Med Soil GC Organics

Report: 2023706

Batch: 32628

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20193506	Sample		78						
20193507	Sample		72						
20193508	Sample		71						
20193586	Sample		75						
20193587	Sample		77						
20193588	Sample		76						
20193589	Sample		101						
20193590	Sample		84						
20193591	Sample		72						
20194125	Sample		84						
20194126	Sample		83						
20194647	Sample		84						
20194649	Sample		79						
32628B1	Blank		84						
32628B2	Blank		91						
32628MS	Spike		88						
32628MSD	Spike Dup		85						
32628S1	LCS		91						
32628S2	LCS		105						
QC limits:			70-130						

Sur 2: 4-Bromofluorobenzene (FID) (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

1/9/2004 10:06:40

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP /NELAP WW/HZ - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Med Soil GC Organics

Report: 2023706

Batch: 32706

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20194520	Sample		94						
20194521	Sample		96						
20194522	Sample		81						
20194523	Sample D1		0D						
20194524	Sample		97						
20194527	Sample		87						
20194528	Sample		130						
20194529	Sample		91						
20194531	Sample		77						
20194623	Sample G1		150*						
20194626	Sample		86						
20194628	Sample		91						
20194629	Sample		102						
20194630	Sample		81						
20194631	Sample		83						
20194632	Sample		85						
20194633	Sample		87						
20194634	Sample		86						
32706B1	Blank		84						
32706MS	Spike		98						
32706MSD	Spike Dup		98						
32706S1	LCS		108						
QC limits:			70-130						

Sur 2: 4-Bromofluorobenzene (FID) (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

1/9/2004 10:06:41

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Report: 2023706

Batch: 32841

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20193509	Sample		101						
20193510	Sample		100						
20193511	Sample		121						
20193554	Sample		102						
20194555	Sample		105						
20194658	Sample		104						
20194659	Sample		102						
20194660	Sample		102						
20194695	Sample D1		92						
20194696	Sample D1		99						
20194697	Sample D1		85						
20194698	Sample D1		97						
20194699	Sample D1		87						
20194700	Sample D1		87						
20194701	Sample		103						
32841B1	Blank		106						
32841B2	Blank		102						
32841B3	Blank		104						
32841B4	Blank		95						
32841MS	Spike		94						
32841MSD	Spike Dup		104						
32841S1	LCS		95						
32841S2	LCS		96						
32841S3	LCS		92						
QC limits:			70-130						

Sur 2: 4-Bromofluorobenzene (FID) (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered as excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

1/9/2004 10:06:41

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Batch Surrogate Recovery

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Report: 2023706

Batch: 33313

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20195404	Sample		101						
20195405	Sample		102						
20195406	Sample		99						
20195740	Sample D1		80						
20195741	Sample		97						
20195742	Sample D1		90						
20195743	Sample D1		97						
20195744	Sample D1		79						
20195745	Sample		102						
20195746	Sample		98						
20195747	Sample		98						
20195748	Sample		102						
20196568	Sample		101						
20196935	Sample D1		98						
33237TZ3	Sample		100						
33313B1	Blank		101						
33313B2	Blank		98						
33313B3	Blank		102						
33313MS	Spike		110						
33313MSD	Spike Dup		105						
33313S1	LCS		92						
33313S2	LCS		92						
QC limits:			70-130						

Sur 2: 4-Bromofluorobenzene (FID) (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

1/9/2004 10:06:41

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32628B1

Description: Med Soil Method Blan **Project No.:** 2023706

Method: Med Soil GC Organics **Batch:** 32628 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 21-Nov-03 **Analyzed:** 23-Nov-03 22:33 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		2500

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:44

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32628B2

Description: Med Soil Method Blan **Project No.:** 2023706

Method: Med Soil GC Organics **Batch:** 32628 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 24-Nov-03 **Analyzed:** 25-Nov-03 01:27 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		2500

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:45

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013 -
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32706B1

Description: Med Soil Method Blan **Project No.:** 2023706

Method: Med Soil GC Organics **Batch:** 32706 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 29-Nov-03 **Analyzed:** 29-Nov-03 15:45 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		2500

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:45

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32841B1

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC Organics **Batch:** 32841 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 25-Nov-03 23:25 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:45

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32841B2

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC Organics **Batch:** 32841 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 26-Nov-03 13:15 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:46

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP /MELAP WW/HZ - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32841B3

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC Organics **Batch:** 32841 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 26-Nov-03 22:42 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:46

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 32841B4

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC Organics **Batch:** 32841 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 29-Nov-03 13:20 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:46

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33313B1

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC Organics **Batch:** 33313 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Dec-03 09:07 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:47

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33313B2

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC Organics **Batch:** 33313 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 04-Dec-03 18:53 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:47

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33313B3

Description: Water Method Blank **Project No.:** 2023706

Method: Water GC Organics **Batch:** 33313 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 05-Dec-03 12:42 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics (C6-C	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

1/9/2004 10:06:47

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL/WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report Qualifiers

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2023706

Analyte Qualifiers

Qualifier	Qualifier Description
C3	The result for this parameter is not corrected for moisture content.
G1	Interferences are present which caused poor surrogate recovery.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical®
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

738192

Page: 1 of 2

Required Client Information: Section A

Company: CHEVRON ENV. MGMT. CO.
Address: P.O. BOX 4256
HOUSTON, TX 77210-4256
Phone: 713 219 5223
Fax: 866 653 0300

Required Client Information: Section B

Report To: SETH DOMANGUE (CRA)
Copy To: DAVID GARDNER (CHEVRON)
Invoice To: DAVID GARDNER (CHEVRON)
P.O.
Project Name: 2929 COLLEGE Dr., BTR, LA
Project Number: CHEVRON 60109060

Client Information (Check quote/contract):
Requested Due Date:
*TAT: STD

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client: Section C

Quote Reference:
Project Manager: 2023706
Project #:
Profile #:

Section D Required Client Information:

SAMPLE ID
One character per box. (A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — WATER / WT; SOIL / SL; OIL / OL; WIPE / WP; AIR / AR; TISSUE / TS; OTHER / OT

Requested Analysis: BTEX/MTBE (8260 cg) (8021B); TPH-GRO (8015); HOLD FOR FURTHER ANALYSIS; ~~MS/MSD~~ (SPD 11/19/03); BTEX/MTBE (8021B)

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX/MTBE (8260 cg)	TPH-GRO (8015)	HOLD FOR FURTHER ANALYSIS	~~MS/MSD~~ (SPD 11/19/03)	BTEX/MTBE (8021B)	Remarks / Lab ID
1	MW-1/2-4	SL	11/18/03	1240	9	3					4	2		X	X	X			20194623
2	MW-1/8-10	SL	11/18/03	1255	9	3					4	2		X	X	X			626
3	MW-1/12-14	SL	11/18/03	1305	~~14~~ 5	3	SPD 11/19/03				4 ~~8~~	4 2		X	X	X	~~X~~ SPD (11/19/03)	OPS	628
4	MW-2/0-2	SL	11/18/03	1550	9	3					4	2		X	X	X			629
5	MW-2/8-10	SL	11/18/03	1605	9	3					4	2		X	X	X			630
6	MW-2/12-14	SL	11/18/03	1615	9	3					4	2		X	X	X		~~OPS~~	631
7	MW-3/2-4	SL	11/18/03	1410	9	3					4	2		X	X	X			632
8	MW-3/8-10	SL	11/18/03	1425	9	3					4	2		X	X	X			633
9	MW-3/12-14	SL	11/18/03	1435	9	3					4	2		X	X	X			634
10	MW-4/0-2	SL	11/18/03	1000	5	2					2	1			X	X		X	647
11	MW-4/6-8	SL	11/18/03	1015	5	2					2	1			X	X		X	649
12	MW-4/12-14	SL	11/18/03	1030	9	3					4	2		X	X	X			639

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Carlos Giron / CRA	11/19/03	1400	[signature] Pace	11/20/03	14:45
	[signature]			[signature]	11/20/03	1700

SAMPLE CONDITION

Temp in °C	4.0
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

CRA # 27453-01

24 cg USED TERRA-CORE KITS FOR DISPOSAL

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CARLOS GIRON
SIGNATURE of SAMPLER: Carlos Giron
DATE Signed: (MM / DD / YY) 11/18/03

Instructions for completing Chain of Custody (COC)

1. Complete all Client Information at top of sheet: name, address, phone, contact (person to whom report will be sent and contact can be made if questions arise), billing information if different from client, PO#, Project Name and/or Project Number as it will appear on the report.

2. Quote Reference, Project Manager, Project No. and Profile No. will be completed by Pace.

3. A separate COC must be filled out for each day of sample collection.

4. Sampler should print their name in the space provided and sign their name followed by the date of the sampling event.

5. Complete Sample Description as it will appear on the laboratory report; include time of sampling, sample matrix, no. of containers and preservative used.

6. Analysis Requested: Complete analysis on the lines provided and place a check in the column for the samples requiring the analysis. It may be necessary to use the space provided for additional comments or include attachments for extended lists of parameters.

7. Submission of samples to laboratory: Indicate Item Number of those samples being transferred; sign relinquished by, and include your affiliation.

*** IMPORTANT NOTE:**

Standard Turnaround Time is 2 weeks. If this does not satisfy your requirements, arrangements must be made prior to samples being submitted to the laboratory. Contact your project manager.

Special Project Requirements such as Low Level Detection Limits or level of QC reported must be indicated on the chain of custody. (Use Additional Comments Section.)

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

738191

Page: 2 of 2

Required Client Information: **Section A**

Company: CHEVRON ENV. MGMT. CO.
Address: P.O. BOX 4256
HOUSTON, TX 77210-4256
Phone: 713-219-5223
Fax: 866-653-0300

Required Client Information: **Section B**

Report To: SETH DOMANGUE (CRA)
Copy To: DAVID GARDNER (CHEVRON)
Invoice To: DAVID GARDNER (CHEVRON)
P.O.
Project Name: 2929 COLLEGE DR., BTR, LA
Project Number: CHEVRON 60109060

Client Information (Check quote/contract):
Requested Due Date:
*TAT: STD

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #:
Profile #:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: BTEX/MTBE (8260), TPH-GRO (8015), HOLD FOR FUTURE ANALYSIS

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX/MTBE (8260)	TPH-GRO (8015)	HOLD FOR FUTURE ANALYSIS	Remarks / Lab ID
1	WE-1	WT	11/18/03	1230	3				3					X	X		20194658
2	WF-1	WT	11/18/03	1220	3				3					X	X		659
3	WT-1	WT	11/18/03	—	2				2					X	X		660
4	MW-1(12-14')-MS	SL	11/18/03	1305	4	1					2	1		X	X	OPS	628
5	MW-1(12-14')-MSD	SL	11/18/03	1305	4	1					2	1		X	X		
6																	
7																	
8																	
9																	
10																	
11																	
12																	

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					Carlos Giron / CRA	11/19/03	1400	Fermin Pace	11/20/03	1445
					[illegible]			K H Brown	11/20/03	1700

SAMPLE CONDITION

Temp in °C	4.0
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

CRA # 27453-01

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CARLOS GIRON
SIGNATURE of SAMPLER: Carlos Giron
DATE Signed: (MM / DD / YY) 11/18/03

ORIGINAL

Instructions for completing Chain of Custody (COC)

1. Complete all Client Information at top of sheet: name, address, phone, contact (person to whom report will be sent and contact can be made if questions arise), billing information if different from client, PO#, Project Name and/or Project Number as it will appear on the report.

2. Quote Reference, Project Manager, Project No. and Profile No. will be completed by Pace.

3. A separate COC must be filled out for each day of sample collection.

4. Sampler should print their name in the space provided and sign their name followed by the date of the sampling event.

5. Complete Sample Description as it will appear on the laboratory report; include time of sampling, sample matrix, no. of containers and preservative used.

6. Analysis Requested: Complete analysis on the lines provided and place a check in the column for the samples requiring the analysis. It may be necessary to use the space provided for additional comments or include attachments for extended lists of parameters.

7. Submission of samples to laboratory: Indicate Item Number of those samples being transferred; sign relinquished by, and include your affiliation.

*** IMPORTANT NOTE:**

Standard Turnaround Time is 2 weeks. If this does not satisfy your requirements, arrangements must be made prior to samples being submitted to the laboratory. Contact your project manager.

Special Project Requirements such as Low Level Detection Limits or level of QC reported must be indicated on the chain of custody. (Use Additional Comments Section.)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd., Suite F
St. Rose, LA 70087
Phone: 504.469.0333
Fax: 504.469.0555

December 10, 2003

Mr. David Gardner
CHEVRON PRODUCTS CO.
5959 Corporate Dr.
Houston, TX 77036

RE: Lab Project Number: 2024158
Client Project ID: 60109060

Dear Mr. Gardner:

Enclosed are the analytical results for sample(s) received by the laboratory on December 4, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Cindy Olavesen
cindy.olavesen@pacelabs.com
(504) 305-3626
Project Manager

Enclosures

Pace Analytical
New Orleans Laboratory

Sample Cross Reference Report

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Project: 60109060

Project No.: 2024158

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
SB-4 (12-14)	20198660	Soil	12/03/2003	11:30	12/04/2003	14:10
SB-7	20198664	Water	12/03/2003	12:05	12/04/2003	14:10
SB-7 (12-14)	20198659	Soil	12/03/2003	10:45	12/04/2003	14:10
SB-7 (8-10)	20198658	Soil	12/03/2003	10:10	12/04/2003	14:10
TRIP BLANK	20198665	Water	12/03/2003		12/04/2003	14:10
WE-2	20198661	Water	12/03/2003	11:45	12/04/2003	14:10
WF-2	20198662	Water	12/03/2003	11:50	12/04/2003	14:10

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: SB-7 (8-10) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20198658 **Project No.:** 2024158 **Prep Factor:** 1
Description: None **Collected:** 12/03/03 **Received:** 12/04/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	33361	1	ND		ug/kg	2400	08-Dec-03	09-Dec-03 03:10	61000
Benzene	SW 8260 Volat	33554	1	ND		ug/kg	4.82	04-Dec-03	09-Dec-03 14:38	
Ethylbenzene	SW 8260 Volat	33554	1	ND		ug/kg	4.82	04-Dec-03	09-Dec-03 14:38	
Methyl tert-butyl ether (	SW 8260 Volat	33554	1	ND		ug/kg	4.82	04-Dec-03	09-Dec-03 14:38	
Toluene	SW 8260 Volat	33554	1	ND		ug/kg	4.82	04-Dec-03	09-Dec-03 14:38	
m,p-Xylene	SW 8260 Volat	33554	1	ND		ug/kg	4.82	04-Dec-03	09-Dec-03 14:38	
o-Xylene	SW 8260 Volat	33554	1	ND		ug/kg	4.82	04-Dec-03	09-Dec-03 14:38	

7 parameter(s) reported

Client ID: SB-7 (12-14) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20198659 **Project No.:** 2024158 **Prep Factor:** 1
Description: None **Collected:** 12/03/03 **Received:** 12/04/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	33361	1	ND		ug/kg	2370	08-Dec-03	09-Dec-03 03:37	61000
Benzene	SW 8260 Volat	33554	1	ND		ug/kg	4.93	04-Dec-03	09-Dec-03 14:58	
Ethylbenzene	SW 8260 Volat	33554	1	ND		ug/kg	4.93	04-Dec-03	09-Dec-03 14:58	
Methyl tert-butyl ether (	SW 8260 Volat	33554	1	ND		ug/kg	4.93	04-Dec-03	09-Dec-03 14:58	
Toluene	SW 8260 Volat	33554	1	ND		ug/kg	4.93	04-Dec-03	09-Dec-03 14:58	
m,p-Xylene	SW 8260 Volat	33554	1	ND		ug/kg	4.93	04-Dec-03	09-Dec-03 14:58	
o-Xylene	SW 8260 Volat	33554	1	ND		ug/kg	4.93	04-Dec-03	09-Dec-03 14:58	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

12/22/2003 15:19:49

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: MW-4 (12-14) **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20198660 **Project No.:** 2024158 **Prep Factor:** 1
Description: None **Collected:** 12/03/03 **Received:** 12/04/03
Matrix: Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	33361	1	ND		ug/kg	2275	08-Dec-03	09-Dec-03 04:04	61000
Benzene	SW 8260 Volat	33554	1	ND		ug/kg	4.81	04-Dec-03	09-Dec-03 15:19	
Ethylbenzene	SW 8260 Volat	33554	1	ND		ug/kg	4.81	04-Dec-03	09-Dec-03 15:19	
Methyl tert-butyl ether (	SW 8260 Volat	33554	1	ND		ug/kg	4.81	04-Dec-03	09-Dec-03 15:19	
Toluene	SW 8260 Volat	33554	1	ND		ug/kg	4.81	04-Dec-03	09-Dec-03 15:19	
m,p-Xylene	SW 8260 Volat	33554	1	ND		ug/kg	4.81	04-Dec-03	09-Dec-03 15:19	
o-Xylene	SW 8260 Volat	33554	1	ND		ug/kg	4.81	04-Dec-03	09-Dec-03 15:19	

7 parameter(s) reported

Client ID: WE-2 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20198661 **Project No.:** 2024158 **Prep Factor:** 1
Description: None **Collected:** 12/03/03 **Received:** 12/04/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	33480	1	ND		ug/L	50.0		09-Dec-03 18:09	150.
Benzene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:23	
Ethylbenzene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:23	
Methyl tert-butyl ether (	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:23	
Toluene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:23	
m,p-Xylene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:23	
o-Xylene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:23	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

12/22/2003 16:18:03

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: WF-2 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20198662 **Project No.:** 2024158 **Prep Factor:** 1
Description: None **Collected:** 12/03/03 **Received:** 12/04/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	33480	1	ND		ug/L	50.0		09-Dec-03 18:36	150.
Benzene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:53	
Ethylbenzene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:53	
Methyl tert-butyl ether (	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:53	
Toluene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:53	
m,p-Xylene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:53	
o-Xylene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 13:53	

7 parameter(s) reported

Client ID: SB-7 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20198664 **Project No.:** 2024158 **Prep Factor:** 1
Description: None **Collected:** 12/03/03 **Received:** 12/04/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	33480	1	ND		ug/L	50.0		09-Dec-03 19:03	150.
Benzene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:14	
Ethylbenzene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:14	
Methyl tert-butyl ether (	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:14	
Toluene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:14	
m,p-Xylene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:14	
o-Xylene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:14	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58802
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TRIP BLANK
Project: 60109060
Lab ID: 20198665
Description: None

Client: CHEVRON PRODUCTS CO.
Site: None
Project No.: 2024158 **Prep Factor:** 1
Collected: 12/03/03 **Received:** 12/04/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	33480	1	ND		ug/L	50.0		09-Dec-03 19:30	150.
Benzene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:35	
Ethylbenzene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:35	
Methyl tert-butyl ether (	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:35	
Toluene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:35	
m,p-Xylene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:35	
o-Xylene	SW 8260 Volat	33485	1	ND		ug/L	5.00		08-Dec-03 14:35	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

12/22/2003 15:19:51

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2024158

Batch: 33485

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	50	130			50					74 - 131	64 - 140	25	
Benzene	50	120			50	121	128	6		74 - 131	64 - 140	25	
Acetone (2-Propanone, Dimethyl keton	100	61			100					50 - 150	50 - 150	25	
Ethylbenzene	50	115			50	94	113	18		65 - 133	57 - 138	25	
Ethylbenzene	50	95			50					65 - 133	57 - 138	25	
Benzene	50	118			50					74 - 137	63 - 146	25	
Methyl tert-butyl ether (MTBE)	50	98			50	97	105	8		50 - 142	50 - 150	25	
Methyl tert-butyl ether (MTBE)	50	94			50					50 - 142	50 - 150	25	
Bromodichloromethane	50	119			50					70 - 130	61 - 150	25	
Toluene	50	94			50					73 - 133	54 - 148	25	
Toluene	50	97			50	90	96	7		73 - 133	54 - 148	25	
Bromoform	50	101			50					69 - 150	63 - 150	25	
m,p-Xylene	100	123			100	96	117	19		72 - 130	70 - 130	25	
m,p-Xylene	100	100			100					72 - 130	70 - 130	25	
Bromomethane (Methyl bromide)	50	111			50					53 - 140	51 - 144	25	
o-Xylene	50	113			50	93	111	18		74 - 133	64 - 141	25	
o-Xylene	50	92			50					74 - 133	64 - 141	25	
2-Butanone (Methyl ethyl ketone)	100	68			100					50 - 150	50 - 150	25	
Carbon disulfide	50	98			50					50 - 141	50 - 143	25	
Carbon tetrachloride	50	98			50					59 - 150	50 - 150	25	
Chlorobenzene	50	98			50					76 - 131	69 - 136	25	
Chloroethane	50	129			50					50 - 143	50 - 148	25	
Chloroform	50	108			50					74 - 133	69 - 137	25	
Chloromethane (Methyl chloride)	50	142			50					50 - 149	50 - 150	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	104			50					50 - 150	50 - 150	25	
1,2-Dibromoethane (Ethylene dibromid	50	106			50					74 - 141	50 - 146	25	
Dichlorodifluoromethane (Freon 12)	50	71			50					50 - 150	50 - 150	25	
Dibromochloromethane	50	107			50					73 - 150	68 - 150	25	
1,1-Dichloroethane	50	121			50					64 - 136	61 - 139	25	
1,2-Dichloroethane (Ethylene dichlorid	50	134			50					62 - 150	57 - 150	25	
1,1-Dichloroethene (Dichloroethylene)	50	101			50					50 - 140	50 - 143	25	
cis-1,2-Dichloroethene	50	102			50					52 - 143	50 - 150	25	
trans-1,2-Dichloroethene	50	102			50					52 - 135	50 - 139	25	
1,2-Dichloropropane	50	114			50					70 - 138	68 - 142	25	
cis-1,3-Dichloropropene	50	122			50					73 - 145	69 - 146	25	
trans-1,3-Dichloropropene	50	115			50					65 - 150	60 - 150	25	
Ethylbenzene	50	99			50					65 - 133	57 - 138	25	
2-Hexanone	100	64			100					50 - 150	50 - 150	25	
Isopropylbenzene (Cumene)	50	95			50					62 - 134	54 - 141	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

12/22/2003 15:19:53

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2024158

Batch: 33485

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methylene chloride (Dichloromethane)	50	105			50					50 - 150	50 - 144	25	
4-Methyl-2-pentanone (MIBK)	100	51			100					50 - 150	50 - 150	25	
Methyl tert-butyl ether (MTBE)	50	124			50					50 - 142	50 - 150	25	
Styrene	50	107			50					50 - 134	56 - 143	25	
1,1,2,2-Tetrachloroethane	50	108			50					56 - 146	58 - 143	25	
Tetrachloroethene (Perchloroethylene)	50	92			50					50 - 150	50 - 150	25	
Toluene	50	106			50					73 - 133	54 - 148	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	102			50					69 - 138	60 - 143	25	
1,1,2-Trichloroethane	50	110			50					75 - 146	70 - 149	25	
Trichloroethene (Trichloroethylene)	50	97			50					76 - 138	66 - 146	25	
Trichlorofluoromethane (Freon 11)	50	98			50					50 - 150	50 - 150	25	
Vinyl chloride (Chloroethene)	50	127			50					50 - 144	50 - 146	25	
m,p-Xylene	100	101			100					72 - 130	70 - 130	25	
o-Xylene	50	106			50					74 - 133	64 - 141	25	

53 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

12/22/2003 15:19:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Low Soil GC/MS Volatile Organics

Project No.: 2024158

Batch: 33554

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	50	112			45	110	122	11		66 - 130	36 - 136	50	
Ethylbenzene	50	96			45	88	102	15		65 - 125	7 - 141	50	
Methyl tert-butyl ether (MTBE)	50	86			45	89	88	1		50 - 150	50 - 150	50	
Toluene	50	83			45	87	87	0		66 - 128	24 - 140	50	
m,p-Xylene	100	103			90	94	108	14		50 - 150	50 - 150	50	
o-Xylene	50	95			45	88	101	14		50 - 150	50 - 150	50	

6 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

12/22/2003 15:19:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - *Certified Puerto Rico Chemist*
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Report: 2024158

Batch: 33485

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20197377	Sample	113	99	90					
20197378	Sample	111	98	90					
20198047	Sample	78	106	78					
20198048	Sample	75*	106	83					
20198048RE	Re-run M1	74*	110	83					
20198049	Sample	79	103	84					
20198050	Sample	81	108	81					
20198051	Sample	80	105	85					
20198052	Sample	81	108	84					
20198053	Sample	80	105	83					
20198054	Sample	77	105	88					
20198661	Sample	77	102	82					
20198662	Sample	70*	106	80					
20198662RE	Re-run M1	75*	98	83					
20198664	Sample	76	99	82					
20198665	Sample	74*	105	84					
20198665RE	Re-run M1	74*	101	85					
20198979	Sample D2	84	97	90					
20198980	Sample D2	82	101	86					
20198981	Sample D2	85	103	90					
33485BA08	Blank	78	106	100					
33485BA09	Blank	79	101	97					
33485BL15	Blank	110	100	96					
33485MS	Spike	80	108	81					
33485MSD	Spike Dup	80	98	82					
33485SA08	LCS	81	97	85					
33485SA09	LCS	82	94	84					
33485SL15	LCS	109	98	98					
QC limits:		76-120	74-127	66-121					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

** denotes surrogate recovery outside of QC limits.*
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

12/22/2003 15:19:57

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - *Foreign Soil Import (U.S. Territories)*

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Low Soil GC/MS Volatile Organics

Report: 2024158

Batch: 33554

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20198031	Sample M1	69	106	42*					
20198031RE	Re-run M1	69	108	47*					
20198040	Sample	73	105	82					
20198041	Sample	69	107	81					
20198042	Sample	75	105	78					
20198043	Sample	78	102	81					
20198044	Sample	81	103	84					
20198045	Sample	81	99	87					
20198046	Sample	80	104	87					
20198658	Sample	81	99	87					
20198659	Sample	82	100	89					
20198660	Sample	82	99	84					
33554BA09	Blank	71	98	79					
33554MS	Spike	80	97	81					
33554MSD	Spike Dup	81	93	77					
33554SA09	LCS	82	96	86					
QC limits:		65-124	55-160	59-139					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

12/22/2003 15:19:58

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33485BA08

Description: Water Method Blank **Project No.:** 2024158

Method: Water GC/MS Volatile Organics **Batch:** 33485 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 08-Dec-03 10:50 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:01

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33485BA09

Description: Water Method Blank **Project No.:** 2024158

Method: Water GC/MS Volatile Organics **Batch:** 33485 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 09-Dec-03 11:40 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:01

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33485BL15

Description: Water Method Blank **Project No.:** 2024158

Method: Water GC/MS Volatile Organics **Batch:** 33485 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 15-Dec-03 19:31 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
79-20-9	Methylacetate	1	ND		10.0
75-09-2	Methylene chloride (Dichloromethane	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
100-42-5	Styrene	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:01

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504 469.0333
Fax: 504.469.0555

Lab ID: 33485BL15

Description: Water Method Blank **Project No.:** 2024158

Method: Water GC/MS Volatile Organics **Batch:** 33485 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 15-Dec-03 19:31 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

42 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:02

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33554BA09

Description: Low Soil Method Blan **Project No.:** 2024158

Method: Low Soil GC/MS Volatile Organics **Batch:** 33554 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 03-Dec-03 **Analyzed:** 09-Dec-03 13:56 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:02

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Med Soil GC Organics

Project No.: 2024158

Batch: 33361

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	25000	126			25000					50 - 150	50 - 150	50	
TPH - Gasoline Range Organics	25000	107			22200	87	91	4		50 - 150	50 - 150	50	

2 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

12/22/2003 15:20:05

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Project No.: 2024158

Batch: 33480

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	500	107			500					50 - 150	50 - 150	25	
TPH - Gasoline Range Organics	500	113			500					50 - 150	50 - 150	25	
TPH - Gasoline Range Organics	500	109			500	0 *	0 *	0		50 - 150	50 - 150	25	Q3

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

12/22/2003 15:20:05

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Med Soil GC Organics

Report: 2024158

Batch: 33361

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20198031	Sample D1		0D						
20198040	Sample		79						
20198041	Sample		75						
20198042	Sample		72						
20198043	Sample		73						
20198044	Sample		75						
20198045	Sample		77						
20198046	Sample		73						
20198099	Sample		85						
20198101	Sample		70						
20198102	Sample		74						
20198658	Sample		73						
20198659	Sample		76						
20198660	Sample		78						
33361B1	Blank		83						
33361B2	Blank		86						
33361MS	Spike		82						
33361MSD	Spike Dup		85						
33361S1	LCS		97						
33361S2	LCS		104						
QC limits:			70-130						

Sur 2: 4-Bromofluorobenzene (FID) (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

12/22/2003 15:20:08

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Report: 2024158

Batch: 33480

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20196936	Sample		118						
20198047	Sample D1		86						
20198048	Sample		116						
20198049	Sample		100						
20198050	Sample		102						
20198051	Sample		97						
20198052	Sample		91						
20198661	Sample		95						
20198662	Sample		92						
20198664	Sample		78						
20198665	Sample		96						
33237TZ1	Sample		97						
33480B1	Blank		97						
33480B2	Blank		98						
33480B3	Blank		96						
33480MS	Spike		127						
33480MSD	Spike Dup		126						
33480S1	LCS		85						
33480S2	LCS		91						
33480S3	LCS		91						
QC limits:			70-130						

Sur 2: 4-Bromofluorobenzene (FID) (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

12/22/2003 15:20:09

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/KZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33361B1

Description: Med Soil Method Blan **Project No.:** 2024158

Method: Med Soil GC Organics **Batch:** 33361 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 04-Dec-03 **Analyzed:** 08-Dec-03 16:01 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		2500

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:11

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33361B2

Description: Med Soil Method Blan **Project No.:** 2024158

Method: Med Soil GC Organics **Batch:** 33361 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 08-Dec-03 **Analyzed:** 09-Dec-03 02:17 CCW

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		2500

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:12

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33480B1

Description: Water Method Blank **Project No.:** 2024158

Method: Water GC Organics **Batch:** 33480 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 09-Dec-03 11:42 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:12

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33480B2

Description: Water Method Blank **Project No.:** 2024158

Method: Water GC Organics **Batch:** 33480 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 09-Dec-03 22:12 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:12

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 33480B3

Description: Water Method Blank **Project No.:** 2024158

Method: Water GC Organics **Batch:** 33480 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 10-Dec-03 21:46 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/22/2003 15:20:13

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report Qualifiers

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2024158

QC Qualifiers

Qualifier	Qualifier Description
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.

Sample Qualifiers

Qualifier	Qualifier Description
M1	The sample required reextraction and/or reanalysis due to surrogate recoveries outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.

12/22/2003 15:20:15

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical®
www.pacelabs.com

783578

Page: 1 of 1

Required Client Information: **Section A**

Company: Chevron Envir. Mgmt. Co
Address: PO BOX 4256
Houston, TX 77210-4256
Phone: 713 219 5223
Fax: 866 653 0360

Required Client Information: **Section B**

Report To: Seth Domenique (CRA)
Copy To: David Gardner (Chevron)
Invoice To: David Gardner (Chevron)
P.O.:
Project Name: 2929 College Dr, Baton Rouge, LA
Project Number: Chevron SS # 60109060

Client Information (Check quote/contract):
Requested Due Date:
*TAT: STD

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #: 2024158
Profile #:

Section D **Required** Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX/MTBE (8260)	TPH-GRO (8015)	Hold for further analysis	Aromatics (C6-C10)	Aliphatics (C6-C10)	Remarks / Lab ID
1	SB-7(8-10')	SL	12/03/03	1010	12	4					4	4		X	X		X	(*)	(*)	20198658 Method 5035
2	SB-7(12-14')	SL	↓	1045	12	4					4	4		X	X		X	(*)	(*)	8659 Method 5035
3	MW-4(12-14')	SL		1130 ~~1210~~	7	3					2	2		X	X		X			Method 5035 8660
4	WE-2	WT		1145	3				3					X	X		X			661
5	WF-2	WT		1150	3				3					X	X		X			662
6	SB-7	WT	↓	1205	6				6					X	X		X	(*)	(*)	664
7	TRIP BLANK	WT	—	—	2				2					X	X		X			665
8																				
9																				
10																				
11																				
12																				

SITE LOCATION: ☐ NC ☐ SC ☐ GA ☐ Other

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Seth Domenique/CRA	12/4/03	11:45	Thomas Pace	12/4/03	11:45
Thomas	12/4/03	1410	Carlos		
Carlos			Cindy Olson/Pace	12/4/03	1410

SAMPLE CONDITION

Temp in °C	3.0
Received on Ice	(Y) N
Sealed Cooler	(Y) N
Samples Intact	(Y) N

SAMPLE NOTES

CRA # 27453-01

10 terra core kits for disposal.

*Please dispose of all samples NOT listed on COC.

Additional Comments: (*) Only run VPH if TPH-GRO exceeds either 65 mg/kg (soil) or 0.15 mg/L (water).

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CARLOS GIRON
SIGNATURE of SAMPLER: Carlos Giron
DATE Signed: (MM / DD / YY) 12/3/03

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd., Suite F
St. Rose, LA 70087
Phone: 504.469.0333
Fax: 504.469.0555

December 23, 2003

Mr. David Gardner
CHEVRON PRODUCTS CO.
5959 Corporate Dr.
Houston, TX 77036

RE: Lab Project Number: 2024423
Client Project ID: 60109060

Dear Mr. Gardner:

Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Cindy Olavesen
cindy.olavesen@pacelabs.com
(504) 305-3626
Project Manager

Enclosures

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2024423

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
New Orleans Laboratory

Sample Cross Reference Report

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: CHEVRON PRODUCTS CO.

Project: 60109060

Project No.: 2024423

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
MW-1	20201209	Water	12/09/2003	10:20	12/10/2003	15:30
MW-2	20201210	Water	12/09/2003	10:30	12/10/2003	15:30
MW-3	20201211	Water	12/09/2003	10:00	12/10/2003	15:30
MW-4	20201212	Water	12/09/2003	10:10	12/10/2003	15:30
TRIP BLANK	20201215	Water	12/09/2003		12/10/2003	15:30
WF-1	20201214	Water	12/09/2003	09:55	12/10/2003	15:30
WR-1	20201213	Water	12/09/2003		12/10/2003	15:30

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: MW-1 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20201209 **Project No.:** 2024423 **Prep Factor:** 1
Description: None **Collected:** 12/09/03 **Received:** 12/10/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	34354	1	96.3		ug/L	50.0		22-Dec-03 07:37	150.
Benzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 17:57	
Ethylbenzene	SW 8260 Volat	34068	1	9.70		ug/L	5.00		17-Dec-03 17:57	
Methyl tert-butyl ether (	SW 8260 Volat	34068	1	17.2		ug/L	5.00		17-Dec-03 17:57	
Toluene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 17:57	
m,p-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 17:57	
o-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 17:57	

7 parameter(s) reported

Client ID: MW-2 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20201210 **Project No.:** 2024423 **Prep Factor:** 1
Description: None **Collected:** 12/09/03 **Received:** 12/10/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	34354	1	263.		ug/L	50.0		22-Dec-03 08:04	150.
Benzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 19:19	
Ethylbenzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 19:19	
Methyl tert-butyl ether (	SW 8260 Volat	34068	2	400.	D1	ug/L	10.0		18-Dec-03 13:03	
Toluene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 19:19	
m,p-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 19:19	
o-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 19:19	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA008006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/EL/WH/W - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

12/23/2003 17:49:42

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: MW-3 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20201211 **Project No.:** 2024423 **Prep Factor:** 1
Description: None **Collected:** 12/09/03 **Received:** 12/10/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	34354	1	239.		ug/L	50.0		22-Dec-03 10:21	150.
Benzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:23	
Ethylbenzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:23	
Methyl tert-butyl ether (	SW 8260 Volat	34068	1	15.5		ug/L	5.00		18-Dec-03 13:23	
Toluene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:23	
m,p-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:23	
o-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:23	

7 parameter(s) reported

Client ID: MW-4 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20201212 **Project No.:** 2024423 **Prep Factor:** 1
Description: None **Collected:** 12/09/03 **Received:** 12/10/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	34354	1	ND		ug/L	50.0		22-Dec-03 20:32	150.
Benzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:43	
Ethylbenzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:43	
Methyl tert-butyl ether (	SW 8260 Volat	34068	1	21.5		ug/L	5.00		18-Dec-03 13:43	
Toluene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:43	
m,p-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:43	
o-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		18-Dec-03 13:43	

7 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

12/23/2003 17:49:42

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA008006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: WR-1 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20201213 **Project No.:** 2024423 **Prep Factor:** 1
Description: None **Collected:** 12/09/03 **Received:** 12/10/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH - Gasoline Range O	SW 8015B TP	34354	1	245.	G7	ug/L	50.0		22-Dec-03 20:58	150.
Benzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:21	
Ethylbenzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:21	
Methyl tert-butyl ether (	SW 8260 Volat	34068	2	376.	D1	ug/L	10.0		18-Dec-03 14:04	
Toluene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:21	
m,p-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:21	
o-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:21	

7 parameter(s) reported

Client ID: WF-1 **Client:** CHEVRON PRODUCTS CO.
Project: 60109060 **Site:** None
Lab ID: 20201214 **Project No.:** 2024423 **Prep Factor:** 1
Description: None **Collected:** 12/09/03 **Received:** 12/10/03
Matrix: Water **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Benzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:41	
Ethylbenzene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:41	
Methyl tert-butyl ether (	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:41	
Toluene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:41	
m,p-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:41	
o-Xylene	SW 8260 Volat	34068	1	ND		ug/L	5.00		17-Dec-03 20:41	

6 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

12/23/2003 17:49:42

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
USDA Foreign Soil Import (U.S. Territories) - S-47270

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TRIP BLANK
Client: CHEVRON PRODUCTS CO.
Project: 60109060
Site: None
Lab ID: 20201215
Project No.: 2024423
Prep Factor: 1
Description: None
Collected: 12/09/03
Received: 12/10/03
Matrix: Water
%Moisture:

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Benzene	SW 8021 Arom	34353	1	ND		ug/L	0.500		22-Dec-03 14:41	
Ethylbenzene	SW 8021 Arom	34353	1	ND		ug/L	0.500		22-Dec-03 14:41	
Methyl tert-butyl ether (	SW 8021 Arom	34353	1	ND		ug/L	0.500		22-Dec-03 14:41	
Toluene	SW 8021 Arom	34353	1	ND		ug/L	0.500		22-Dec-03 14:41	
m,p-Xylene	SW 8021 Arom	34353	1	ND		ug/L	0.500		22-Dec-03 14:41	
o-Xylene	SW 8021 Arom	34353	1	ND		ug/L	0.500		22-Dec-03 14:41	

6 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

12/23/2003 17:49:42

Laboratory Certifications: Puerto Rico - 3449
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA008006
Florida Dept. of Health/Hazardous Waste (NELAC) - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
LA Dept. of Environmental Quality (LELAP) - 02006
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - USDA Foreign Soil Import (U.S. Territories) - S-47270

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2024423

Batch: 34068

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	50	113			50					74 - 137	63 - 146	25	
Benzene	50	109			50	117	121	3		74 - 137	63 - 146	25	
Ethylbenzene	50	104			50					65 - 133	57 - 138	25	
Ethylbenzene	50	102			50	114	109	4		65 - 133	57 - 138	25	
Methyl tert-butyl ether (MTBE)	50	126			50					50 - 142	50 - 150	25	
Methyl tert-butyl ether (MTBE)	50	133			50	122	128	4		50 - 142	50 - 150	25	
Toluene	50	105			50					73 - 133	54 - 148	25	
Toluene	50	112			50	115	116	0		73 - 133	54 - 148	25	
m,p-Xylene	100	108			100					72 - 130	70 - 130	25	
m,p-Xylene	100	107			100	117	113	3		72 - 130	70 - 130	25	
o-Xylene	50	105			50					74 - 133	64 - 141	25	
o-Xylene	50	104			50	111	111	0		74 - 133	64 - 141	25	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

12/23/2003 17:49:43

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Report: 2024423

Batch: 34068

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20201209	Sample	93	92	96					
20201210	Sample	94	91	94					
20201210DL	Dilution	93	90	100					
20201211	Sample	94	92	100					
20201212	Sample	92	91	99					
20201213	Sample	93	91	95					
20201213DL	Dilution	91	90	100					
20201214	Sample	94	92	96					
20201225	Sample	94	86	101					
20201226	Sample	92	95	97					
20201227	Sample	87	94	91					
20201285	Sample	88	91	89					
20201286	Sample	93	92	96					
20201287	Sample	95	91	97					
20201296	Sample	92	90	96					
20202562	Sample	94	87	93					
20202588	Sample	98	90	100					
20202593	Sample	92	91	99					
20202594	Sample	92	89	106					
20202599	Sample	95	90	101					
20202600	Sample	95	90	101					
20202601	Sample	93	92	105					
34068BA17	Blank	94	89	105					
34068BA18	Blank	94	92	106					
34068MS	Spike	96	90	98					
34068MSD	Spike Dup	94	88	94					
34068SA17	LCS	97	88	99					
34068SA18	LCS	93	87	100					
QC limits:		76-120	74-127	66-121					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

12/23/2003 17:49:45

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34068BA17

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC/MS Volatile Organics **Batch:** 34068 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 17-Dec-03 10:21 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:46

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34068BA18

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC/MS Volatile Organics **Batch:** 34068 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 18-Dec-03 10:51 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:46

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Project No.: 2024423

Batch: 34354

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
TPH - Gasoline Range Organics	500	111			500					50 - 150	50 - 150	25	
TPH - Gasoline Range Organics	500	117			500					50 - 150	50 - 150	25	
TPH - Gasoline Range Organics	500	111			500					50 - 150	50 - 150	25	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

12/23/2003 17:49:47

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/KZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Volatile Organics

Project No.: 2024423

Batch: 34353

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	20	92			20	95	95	0		78 - 127	52 - 142	25	
Benzene	20	97			20					78 - 127	52 - 142	25	
Benzene	20	92			20					78 - 127	52 - 142	25	
Ethylbenzene	20	100			20					87 - 129	54 - 147	25	
Ethylbenzene	20	100			20	100	101	1		87 - 129	54 - 147	25	
Ethylbenzene	20	104			20					87 - 129	54 - 147	25	
Methyl tert-butyl ether (MTBE)	20	76			20					61 - 130	50 - 150	25	
Methyl tert-butyl ether (MTBE)	20	76			20	85	84	1		61 - 130	50 - 150	25	
Methyl tert-butyl ether (MTBE)	20	85			20					61 - 130	50 - 150	25	
Toluene	20	100			20					85 - 131	61 - 145	25	
Toluene	20	94			20	98	98	0		85 - 131	61 - 145	25	
Toluene	20	94			20					85 - 131	61 - 145	25	
m,p-Xylene	40	107			40					90 - 135	56 - 153	25	
m,p-Xylene	40	107			40	102	102	0		90 - 135	56 - 153	25	
m,p-Xylene	40	105			40					90 - 135	56 - 153	25	
o-Xylene	20	110			20					91 - 133	61 - 149	25	
o-Xylene	20	110			20	104	102	2		91 - 133	61 - 149	25	
o-Xylene	20	107			20					91 - 133	61 - 149	25	

18 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

12/23/2003 17:49:47

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Volatile Organics

Report: 2024423

Batch: 34353

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20201215	Sample	95	98						
20201232	Sample	93	97						
20201254	Sample	90	99						
20201255	Sample	90	97						
20201256	Sample	109	99						
20201297	Sample	94	96						
20201313	Sample	100	98						
20201314	Sample	93	99						
20201315	Sample	93	98						
20201316	Sample	100	98						
20201317	Sample	107	98						
20201968	Sample	89	96						
20201969	Sample	92	97						
20201970	Sample	94	99						
20202916	Sample	92	95						
20202917	Sample	94	97						
20202921	Sample	92	99						
20202922	Sample	89	96						
20203313	Sample	94	95						
20203320	Sample	104	98						
34353B1	Blank	91	94						
34353B2	Blank	96	97						
34353B3	Blank	96	97						
34353B4	Blank	90	95						
34353MS	Spike	93	100						
34353MSD	Spike Dup	93	97						
34353S1	LCS	100	110						
34353S2	LCS	100	110						
34353S3	LCS	106	103						
QC limits:		70-130	70-130						

Sur 1: 4-Bromofluorobenzene (PID) (S)
Sur 2: 4-Bromofluorobenzene (PID confirmat

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

12/23/2003 17:49:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Organics

Report: 2024423

Batch: 34354

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20200977	Sample		86						
20200978	Sample		88						
20201209	Sample		105						
20201210	Sample		109						
20201211	Sample		102						
20201212	Sample		98						
20201213	Sample		98						
20201225	Sample		94						
20201226	Sample		84						
20201227	Sample		109						
20201228	Sample		100						
20201253	Sample		95						
20201968	Sample		94						
20201969	Sample		100						
20201970	Sample		99						
20202916	Sample		100						
20202917	Sample		100						
20202921	Sample		99						
20203037	Sample		106						
20203039	Sample		106						
34354B1	Blank		98						
34354B2	Blank		94						
34354B3	Blank		94						
34354B4	Blank		101						
34354B5	Blank		95						
34354MS	Spike		101						
34354MSD	Spike Dup		101						
34354S1	LCS		90						
34354S2	LCS		86						
34354S3	LCS		97						
QC limits:			70-130						

Sur 2: 4-Bromofluorobenzene (FID) (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

12/23/2003 17:49:49

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34353B1

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Volatile Organics **Batch:** 34353 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 22-Dec-03 01:18 NMI

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34353B2

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Volatile Organics **Batch:** 34353 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 22-Dec-03 14:14 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34353B3

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Volatile Organics **Batch:** 34353 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 22-Dec-03 14:14 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34353B4

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Volatile Organics **Batch:** 34353 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 23-Dec-03 01:56 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.500
100-41-4	Ethylbenzene	1	ND		0.500
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND		0.500
108-88-3	Toluene	1	ND		0.500
1330-20-7	m,p-Xylene	1	ND		0.500
95-47-6	o-Xylene	1	ND		0.500

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34354B1

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Organics **Batch:** 34354 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 22-Dec-03 01:18 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/fW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34354B2

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Organics **Batch:** 34354 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 22-Dec-03 14:14 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34354B3

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Organics **Batch:** 34354 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 22-Dec-03 14:14 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/EL WHW - E-10266
LELAP (MELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34354B4

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Organics **Batch:** 34354 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 23-Dec-03 01:55 NMJ

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 34354B5

Description: Water Method Blank **Project No.:** 2024423

Method: Water GC Organics **Batch:** 34354 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 23-Dec-03 09:07 NMI

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
	TPH - Gasoline Range Organics	1	ND		50.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

12/23/2003 17:49:50

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical
New Orleans Laboratory

Report Qualifiers

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2024423

Analyte Qualifiers

Qualifier	Qualifier Description
G7	Components present in the elution range of the hydrocarbon type consist predominately of individual peaks.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

783563

Page: 1 of 1

Required Client Information: **Section A**

Company: Chevron Enviro Mgmt. Co
Address: PO BOX 4256
Houston, TX 77210-4256
Phone: 713 219 5223
Fax: 866 653 0300

Required Client Information: **Section B**

Report To: Seth Domangue (CRA)
Copy To: David Gardner (Chevron)
Invoice To: David Gardner (Chevron)
P.O.:
Project Name: 2929 College Dr., Baton Rouge, LA
Project Number: Chevron SS# 601090060

Client Information (Check quote/contract):
Requested Due Date:
*TAT: STD

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #: 2024423
Profile #:
Requested Analysis:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX/MTBE (8260)	TPH-GRO (8015B)	BTEX (8021B)	Remarks / Lab ID
1	MW-1	WT	12/09/03	1020	3				3					X	X		20201209
2	MW-2	↓	↓	1030	3				3					X	X		210
3	MW-3	↓	↓	1000	3				3					X	X		211
4	MW-4	↓	↓	1010	3				3					X	X		212
5	WR-1	↓	↓	—	3				3					X	X		213
6	WF-1	↓	↓	0955	3				3					X			214
7	TRIP BLANK	↓	—	—	2				2						X		215 provided by lab
8																	
9																	
10																	
11																	
12																	

SITE LOCATION
☐ NC ☐ SC ☐ GA
☐ Other_____

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Fred Mack / CRA	12-10-03	0730	Florence Pace	12/10/03	1330
[illegible]	12/10/03	15:30	[illegible]	12/10/03	1530
[illegible]	12/10/03	16:15	[illegible]	12/10/03	16:15

SAMPLE CONDITION

Temp in °C	3.0
Received on Ice	(Y)N
Sealed Cooler	(Y)N
Samples Intact	(Y)N

SAMPLE NOTES
CRA # 27453-01

Additional Comments:

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: FRED MACK / TREY DAVIS
SIGNATURE of SAMPLER: Fred Mack
DATE Signed: (MM / DD / YY) 12-09-03

TRANSMITTAL

STE

Soil Testing Engineers, Inc.

To: CRA Services
4915 S Sherwood Forest Blvd
Baton Rouge, LA 70816

Date: December 16, 2003
STE File No.: 03-7093
Project: Chevron #60109010

Attention: Seth Domangue

From: George L. Perkins, C.E.T.

COPIES	DESCRIPTION
1	Laboratory Test Data Table 1
1	Gradation Curve
1	Chain of Custody

THESE ARE TRANSMITTED:

■ **FOR YOUR USE** ☐ **FOR REVIEW & COMMENT** ■ **AS REQUESTED**

☐ **REVISE AS NOTED** ☐ **TO BE DISTRIBUTED**

REMARKS: _____

LELAP Certificate No. 02052

316 HIGHLANDIA DRIVE
BATON ROUGE, LA 70810
(225) 752-4790 FAX: (225) 752-4878

LELAP Certificate No.: 02052

CRA Project No. 27453-01-Chevron 60109010
LABORATORY TEST RESULTS
TABLE 1

Date Tested	Sample ID	Depth (feet)	ASTM D2216 Moisture Content (%)	Dry Density (pcf)	Volumetric Moisture Content (decimal)	Volumetric Air Content (decimal)	Total Porosity (decimal)	ASTM D854 Specific Gravity	ASTM D2216 Compressive Strength (tsf)	ASTM D2974 Organic Content (%)	ASTM D4318 Atterberg Limits LL (%)	PL (%)	PI (%)	ASTM D422 Particle Size Analysis	ASTM D2487 CLASSIFICATION
09-Dec	GT-1	4-8	25.6	104.6	N/A	N/A	N/A	N/A	N/A	2.70	34	22	12	*	Tan & Light Gray silty clay w/ferrous nodules (CL)

NOTE:* See attached graphs
(1)FOC = Organic content divided by 174
(2)Any optional tests methods used ☐ yes ☑ no if yes list.

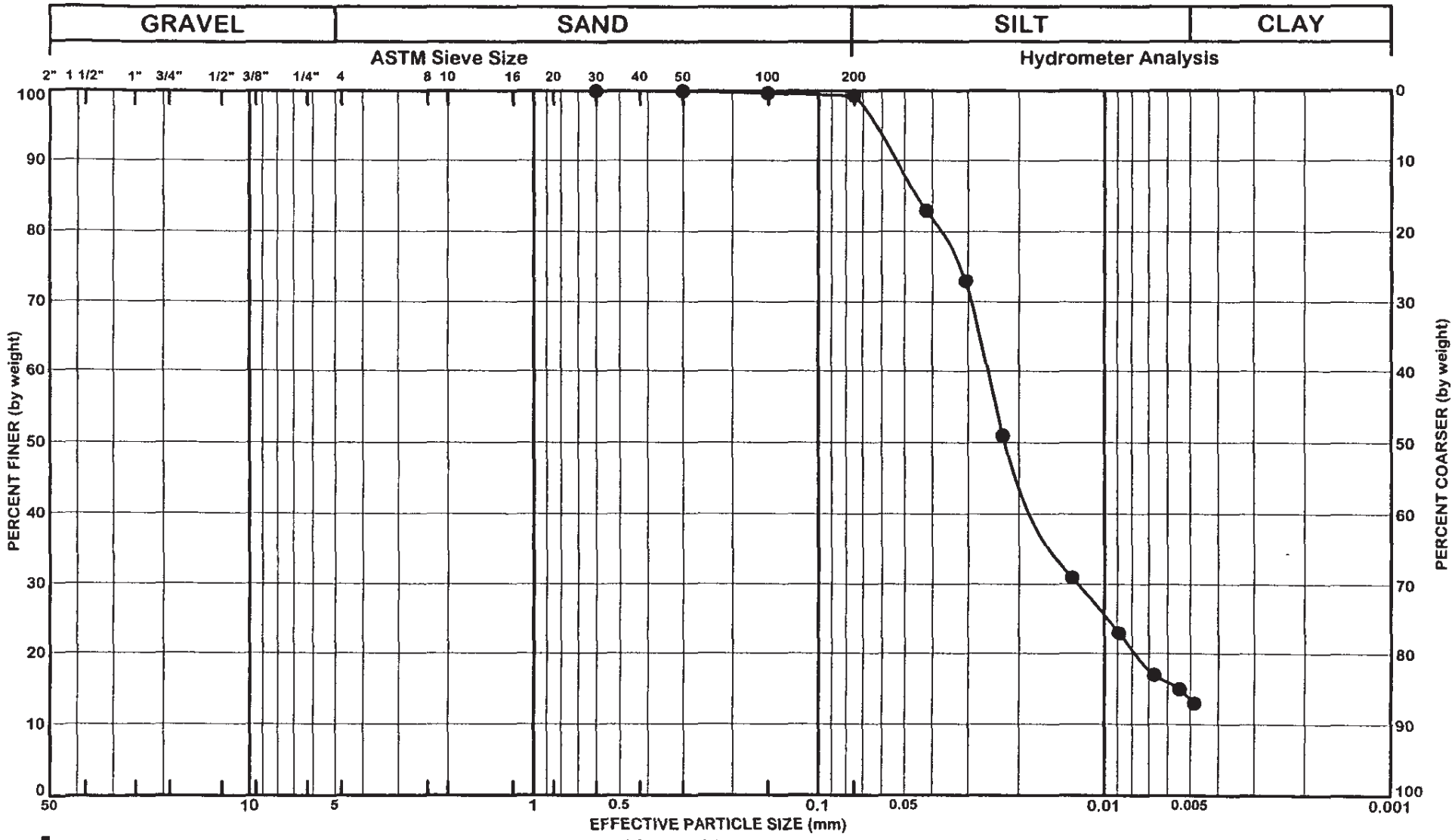
STE
Soil Testing Engineers, Inc.
316 Highlandia Drive
Baton Rouge, LA

Client:CRA
Location:Baton Rouge, LA

STE File:03-7093
12/11/03

Boring No.	Depth (ft.)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
● GT-1	4.0 - 8.0	0.0	0.7	85.8	13.5

LELAP Certificate No. 02052



STE
Soil Testing Engineers, Inc

CRA Services
Project 27453-01

GRAIN SIZE ANALYSIS

File No.: 03-7093
Date: 12/11/2003

GRAINSZ 037093.GPJ GRAINSZ.GDT 12/13/03

03-7049

RETURN RESULTS TO CRA OFFICE NOTED:
X Baton Rouge, LA (225) 292-9007
__ Houston, TX (281) 492-8311
__ Oklahoma City, OK (405) 840-0301
__ Charlotte, NC (704) 676-0502
__ Nashville, TN (615) 778-2532
__ Shreveport, LA (318) 868-3003

Conestoga-Rovers & Associates
CHAIN-OF-CUSTODY RECORD

DOCUMENT No. № 33070

Purchase Order No. 50-017595-0

Page 1 of 1

Project No. 27453-01

Project Name: Church 60109010 / 2929 College Dr, Baton Rouge, LA

Samplers: (Print/Signature)
1. CARLOS GIRON /
2. /
3. /

Sample I.D.	Date	Time	Comp.	Grab	Coll. By 1,2,3	Matrix	No. of Containers	Dry Bulk Density (ASTM D-2166)	FOC (ASTM D-2974)	Water Content (ASTM D-2216)	Carbon Sieve (ASTM D-422)	Atterberg Limits (ASTM D-4318)					Remarks
GT-1 (4-8')	12/03/03	1140		X	1	SOIL	1	X	X	X	X	X					

CHECK IF PRESERVED:

Relinquished by (Signature):	Date	Time	Received by (Signature):	Relinquished by (Signature):	Date	Time	Received by (Signature):
	12/3/03	16:00					

Relinquished by (Signature):	Date	Time	Received by (Signature):	Relinquished by (Signature):	Date	Time	Received for Lab by (Signature)

ALL SAMPLES ICED IN THE FIELD AND DURING TRANSPORT TO THE LAB.
__ YES ✓ NO

CRA CONTACT: Seth Domangue

TRANSPORTED BY: CRA

LABORATORY: STE

ANALYSES TO BE COMPLETED:
__ FAST TURNAROUND
✓ NORMAL TURNAROUND PERIOD
DATE: ____
__ CALL CRA WITH RESULTS UPON COMPLETION

WHITE (REPORT COPY) YELLOW (LABORATORY COPY) PINK (PROJECT MANAGER COPY) GOLD (FILE COPY)

RETURN RESULTS TO CRA OFFICE NOTED:

- X Baton Rouge, LA (225) 292-9007
- __ Houston, TX (281) 492-8311
- __ Oklahoma City, OK (405) 840-0301
- __ Charlotte, NC (704) 676-0502
- __ Nashville, TN (615) 778-2532
- __ Shreveport, LA (318) 868-3003

Conestoga-Rovers & Associates
CHAIN-OF-CUSTODY RECORD

DOCUMENT No. № 33070

Purchase Order No. [illegible]

Page 1 of 1

Project No.: 27452-01

Project Name: [illegible]

Samplers: (Print/Signature)
1. CARLOS [illegible] / [signature]
2. /
3. /

Sample I.D.	Date	Time	Comp.	Grab	Coll. By 1,2,3	Matrix	No. of Containers	ANALYSIS/METHOD: Total Solids (ASTM D-2216)	Fat (ASTM D-7294)	Total Cyanide (ASTM D-7284)	Total Cyanide (ASTM D-4282)	Total Metals (ASTM D-4382)						Remarks
CST-1 (4-8')	12/03/03	1140		X	1	SOIL	1	X	X	X	X	X						

CHECK IF PRESERVED:

Relinquished by (Signature):	Date	Time	Received by (Signature):	Relinquished by (Signature):	Date	Time	Received by (Signature):
[signature]	12/7/03	[illegible]	[illegible]				
Relinquished by (Signature):	**Date**	**Time**	**Received by (Signature):**	**Relinquished by (Signature):**	**Date**	**Time**	**Received for Lab by (Signature)**

ALL SAMPLES ICED IN THE FIELD AND DURING TRANSPORT TO THE LAB.
__ YES ✓ NO

CRA CONTACT: [signature]

TRANSPORTED BY: CRA

LABORATORY: [illegible]

ANALYSES TO BE COMPLETED:
__ FAST TURNAROUND ✓ NORMAL TURNAROUND PERIOD
DATE: ____ __ CALL CRA WITH RESULTS UPON COMPLETION

WHITE (REPORT COPY) YELLOW (LABORATORY COPY) PINK (PROJECT MANAGER COPY) GOLD (FILE COPY)

APPENDIX B

LDOTD MONITOR WELL REGISTRATION FORMS

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
WATER RESOURCES SECTION
WATER WELL REGISTRATION SHORT FORM (DOTD-GW-1S)

PLEASE PRINT IN INK OR TYPE WHEN COMPLETING THIS FORM

1. USE OF WELL (Check Appropriate Box)
   ☐ DOMESTIC ☐ RIG SUPPLY ☒ MONITORING ☐ PIEZOMETER ☐ RECOVERY
   ☐ HEAT PUMP HOLE ☐ HEAT PUMP SUPPLY ☐ ABANDONED PILOT HOLE ☐ OTHER _____ (Please Specify)
2. WELL OWNER Chevron Products Co. PHONE (713) 219-5223
3. WELL OWNER'S ADDRESS PO Box 4256, Houston, TX 77210-4256
4. OWNER'S WELL NUMBER OR NAME (if any) MW-1
5. DATE COMPLETED 11/28/03 (18) JPF DEPTH OF HOLE 14 FT. DEPTH OF WELL 14 FT.
6. STATIC WATER LEVEL 3.74 FT. BELOW GROUND SURFACE MEASURED ON 12/9/03 (Date)
7. CASING 2 IN. ☐ METAL ☒ PLASTIC ☐ OTHER LENGTH 4 FT.
8. SCREEN 2 IN. ☐ METAL ☒ PLASTIC ☐ OTHER SLOT SIZE 0.01 LENGTH 10.0 FT. JPF
9. CEMENTED FROM 1 FT. TO GROUND SURFACE, USING ☐ PUMP DOWN METHOD OR ☒ GRAVITY METHOD
10. LOCATION OF WELL: PARISH East Baton Rouge WELL IS NEAR, Baton Rouge (Town or City)
    APPROXIMATELY 0.0 MILES FROM intersection of College Dr & Interstate I-10 (Crossroads, Railroad, Any Landmark, etc.)
    (Please draw sketch on back of Original)
11. REMARKS:
12. DRILLER'S LOG (Description and color of cuttings, such as shale, sand, etc. in feet)

FROM	TO	DESCRIPTION	FROM	TO	DESCRIPTION
0	8	Silty Clay			
8	14	Gray/Brown Clay			

13. FOR HEAT PUMP ONLY: AVG. DEPTH _____ FT. NUMBER OF HOLES _____
14. ABANDONMENT INFORMATION: DOES THE NEW WELL REPLACE AN EXISTING WELL? YES ☐ NO ☒
15. NAME OF PERSON WHO DRILLED THE WELL: Walker-Hill Environmental, Inc.

(REV. 7/93) DOTD'S COPY

Conestoga-Rovers & Associates
Name of Water Well Contractor
LICENSE NUMBER WWC-586
Authorized Signature 1/13/04 Date

MAIL ORIGINAL TO:
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
ATTN.: CHIEF - WATER RESOURCES SECTION
P.O. BOX 94245
BATON ROUGE, LA 70804-9245
(225) 379-1434

FOR OFFICE USE ONLY
PARISH WELL NO.
IDENTIFICATION NUMBER
REVISED COORDINATES
Geologic Unit Use of Well
SECTION TOWNSHIP RANGE
ELEV. QUAD. NO.
INPUT BY: DATE:
INSPECTED BY: DATE:
REMARKS:

FOR MONITOR/PIEZO/RECOVERY WELLS ONLY
LATITUDE 302518 LONGITUDE 910824
SECTION 94 TOWNSHIP T7S RANGE R1E
ELEV. 35 QUAD. NO. 163A
SITE ADDRESS: Chevron 60109060
2929 College Dr., Baton Rouge, LA

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
WATER RESOURCES SECTION
WATER WELL REGISTRATION SHORT FORM (DOTD-GW-1S)

PLEASE PRINT IN INK OR TYPE WHEN COMPLETING THIS FORM

1. USE OF WELL (Check Appropriate Box)
   ☐ DOMESTIC ☐ RIG SUPPLY ☒ MONITORING ☐ PIEZOMETER ☐ RECOVERY
   ☐ HEAT PUMP HOLE ☐ HEAT PUMP SUPPLY ☐ ABANDONED PILOT HOLE ☐ OTHER _____ (Please Specify)
2. WELL OWNER Chevron Products Co. PHONE (713) 219-5223
3. WELL OWNER'S ADDRESS PO Box 4256, Houston, TX 77210-4256
4. OWNER'S WELL NUMBER OR NAME (if any) MW-2
5. DATE COMPLETED 11/18/03 DEPTH OF HOLE 14 FT. DEPTH OF WELL 14 FT.
6. STATIC WATER LEVEL 3.70 FT. BELOW GROUND SURFACE MEASURED ON 12/9/03 (Date)
7. CASING 2 IN. ☐ METAL ☒ PLASTIC ☐ OTHER LENGTH 4 FT. JPF
8. SCREEN 2 IN. ☐ METAL ☒ PLASTIC ☐ OTHER SLOT SIZE 0.01 LENGTH 10 ~~8~~ FT.
9. CEMENTED FROM 1 FT. TO GROUND SURFACE, USING ☐ PUMP DOWN METHOD OR ☒ GRAVITY METHOD
10. LOCATION OF WELL: PARISH East Baton Rouge WELL IS NEAR, Baton Rouge (Town or City)
    APPROXIMATELY 0.0 MILES FROM intersection of College Dr & Interstate I-10 (Crossroads, Railroad, Any Landmark, etc.)
    (Please draw sketch on back of Original)
11. REMARKS:
12. DRILLER'S LOG (Description and color of cuttings, such as shale, sand, etc. in feet)

FROM	TO	DESCRIPTION	FROM	TO	DESCRIPTION
0	8	Silty Clay			
8	14	Gray/Brown Clay			

13. FOR HEAT PUMP ONLY: AVG. DEPTH _____ FT. NUMBER OF HOLES _____
14. ABANDONMENT INFORMATION: DOES THE NEW WELL REPLACE AN EXISTING WELL? YES ☐ NO ☒
15. NAME OF PERSON WHO DRILLED THE WELL: Walker-Hill Environmental, Inc.

(REV. 7/93) DOTD'S COPY

Conestoga-Rovers & Associates
Name of Water Well Contractor
LICENSE NUMBER WWC-586
Authorized Signature [signature] Date 1/13/04

MAIL ORIGINAL TO:
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
ATTN.: CHIEF - WATER RESOURCES SECTION
P.O. BOX 94245
BATON ROUGE, LA 70804-9245
(225) 379-1434

FOR OFFICE USE ONLY
PARISH WELL NO.
IDENTIFICATION NUMBER
REVISED COORDINATES
Geologic Unit
Use of Well
SECTION TOWNSHIP RANGE
ELEV. QUAD. NO.
INPUT BY: DATE:
INSPECTED BY: DATE:
REMARKS:

FOR MONITOR/PIEZO/RECOVERY WELLS ONLY
LATITUDE 302518 LONGITUDE 910824
SECTION 94 TOWNSHIP T7S RANGE R1E
ELEV. 35 QUAD. NO. 163A
SITE ADDRESS: Chevron 60109060
2929 College Dr., Baton Rouge, LA

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
WATER RESOURCES SECTION
WATER WELL REGISTRATION SHORT FORM (DOTD-GW-1S)

PLEASE PRINT IN INK OR TYPE WHEN COMPLETING THIS FORM

1. USE OF WELL (Check Appropriate Box)
   ☐ DOMESTIC ☐ RIG SUPPLY ☒ MONITORING ☐ PIEZOMETER ☐ RECOVERY
   ☐ HEAT PUMP HOLE ☐ HEAT PUMP SUPPLY ☐ ABANDONED PILOT HOLE ☐ OTHER _____ (Please Specify)
2. WELL OWNER Chevron Products Co. PHONE (713) 219-5223
3. WELL OWNER'S ADDRESS PO Box 4256, Houston, TX 77210-4256
4. OWNER'S WELL NUMBER OR NAME (if any) MW-3
5. DATE COMPLETED 11/18/03 DEPTH OF HOLE 14 FT. DEPTH OF WELL 14 FT.
6. STATIC WATER LEVEL 2.11 FT. BELOW GROUND SURFACE MEASURED ON 12/9/03 (Date)
7. CASING 2 IN. ☐ METAL ☒ PLASTIC ☐ OTHER LENGTH 4 FT. JPF
8. SCREEN 2 IN. ☐ METAL ☒ PLASTIC ☐ OTHER SLOT SIZE 0.01 LENGTH 10.0 FT.
9. CEMENTED FROM 1 FT. TO GROUND SURFACE, USING ☐ PUMP DOWN METHOD OR ☒ GRAVITY METHOD
10. LOCATION OF WELL: PARISH East Baton Rouge WELL IS NEAR, Baton Rouge (Town or City)
    APPROXIMATELY 0.0 MILES FROM intersection of College Dr & Interstate I-10 (Crossroads, Railroad, Any Landmark, etc.)
    (Please draw sketch on back of Original)
11. REMARKS:
12. DRILLER'S LOG (Description and color of cuttings, such as shale, sand, etc. in feet)

FROM	TO	DESCRIPTION	FROM	TO	DESCRIPTION
0	4	Silty Clay			
4	14	Gray ~~Brown~~ Clay			

13. FOR HEAT PUMP ONLY: AVG. DEPTH _____ FT. NUMBER OF HOLES _____
14. ABANDONMENT INFORMATION: DOES THE NEW WELL REPLACE AN EXISTING WELL? YES ☐ NO ☒
15. NAME OF PERSON WHO DRILLED THE WELL: Walker-Hill Environmental, Inc.

(REV. 7/93) DOTD'S COPY

Conestoga-Rovers & Associates
Name of Water Well Contractor
LICENSE NUMBER WWC-586
Authorized Signature 1/13/04 Date

MAIL ORIGINAL TO:
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
ATTN.: CHIEF - WATER RESOURCES SECTION
P.O. BOX 94245
BATON ROUGE, LA 70804-9245
(225) 379-1434

FOR OFFICE USE ONLY
PARISH WELL NO.
IDENTIFICATION NUMBER
REVISED COORDINATES
Geologic Unit
Use of Well
SECTION TOWNSHIP RANGE
ELEV. QUAD. NO.
INPUT BY: DATE:
INSPECTED BY: DATE:
REMARKS:

FOR MONITOR/PIEZO/RECOVERY WELLS ONLY
LATITUDE 302518 LONGITUDE 910824
SECTION 94 TOWNSHIP T7S RANGE R1E
ELEV. 35 QUAD. NO. 163A
SITE ADDRESS: Chevron 60109060
2929 College Dr., Baton Rouge, LA

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
WATER RESOURCES SECTION
WATER WELL REGISTRATION SHORT FORM (DOTD-GW-1S)

PLEASE PRINT IN INK OR TYPE WHEN COMPLETING THIS FORM

1. USE OF WELL (Check Appropriate Box)
   ☐ DOMESTIC ☐ RIG SUPPLY ☒ MONITORING ☐ PIEZOMETER ☐ RECOVERY
   ☐ HEAT PUMP HOLE ☐ HEAT PUMP SUPPLY ☐ ABANDONED PILOT HOLE ☐ OTHER _____ (Please Specify)
2. WELL OWNER Chevron Products Co. PHONE (713) 219-5223
3. WELL OWNER'S ADDRESS PO BOX 4256, HOUSTON, TX 77210-4256
4. OWNER'S WELL NUMBER OR NAME (if any) MW-4
5. DATE COMPLETED 11/18/03 DEPTH OF HOLE 14.0 FT. DEPTH OF WELL 14 FT.
6. STATIC WATER LEVEL 3.34 FT. BELOW GROUND SURFACE MEASURED ON 12/9/03 (Date)
7. CASING 2 IN. ☐ METAL ☒ PLASTIC ☐ OTHER LENGTH 4 FT. SPF
8. SCREEN 2 IN. ☐ METAL ☒ PLASTIC ☐ OTHER SLOT SIZE 0.01 LENGTH 10 FT.
9. CEMENTED FROM 1 FT. TO GROUND SURFACE, USING ☐ PUMP DOWN METHOD OR ☒ GRAVITY METHOD
10. LOCATION OF WELL: PARISH East Baton Rouge WELL IS NEAR, Baton Rouge (Town or City)
    APPROXIMATELY 0.0 MILES FROM intersection of College Dr. & Interstate I-10 (Crossroads, Railroad, Any Landmark, etc.)
    (Please draw sketch on back of Original)
11. REMARKS:
12. DRILLER'S LOG (Description and color of cuttings, such as shale, sand, etc. in feet)

FROM	TO	DESCRIPTION	FROM	TO	DESCRIPTION
0	14	GRAY/BROWN SILTY CLAY			

13. FOR HEAT PUMP ONLY: AVG. DEPTH _____ FT. NUMBER OF HOLES _____
14. ABANDONMENT INFORMATION: DOES THE NEW WELL REPLACE AN EXISTING WELL? YES ☐ NO ☒
15. NAME OF PERSON WHO DRILLED THE WELL: Walker-Hill Environmental, Inc.

(REV. 7/93)

DOTD'S COPY

Conestoga-Rovers & Associates
Name of Water Well Contractor
LICENSE NUMBER WWC-586
Authorized Signature 1/13/04 Date

MAIL ORIGINAL TO:
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
ATTN.: CHIEF - WATER RESOURCES SECTION
P.O. BOX 94245
BATON ROUGE, LA 70804-9245
(225) 379-1434

FOR OFFICE USE ONLY
PARISH WELL NO.
IDENTIFICATION NUMBER
REVISED COORDINATES
Geologic Unit
Use of Well
SECTION TOWNSHIP RANGE
ELEV. QUAD. NO.
INPUT BY: DATE:
INSPECTED BY: DATE:
REMARKS:

FOR MONITOR/PIEZO/RECOVERY WELLS ONLY
LATITUDE 302518 LONGITUDE 910824
SECTION 94 TOWNSHIP T7S RANGE R1E
ELEV. 35 QUAD. NO. 163A

SITE ADDRESS: Chevron 60109060
2929 College Dr., Baton Rouge, LA

APPENDIX C

MONITOR WELL SAMPLING RECORD

MONITOR WELL SAMPLING RECORD

CLIENT: Chevron Environmental Management Co. PROJECT: Additional Site Investigation
SITE LOCATION: Chevron Service Station No. 60109060, 2929 College Drive, Baton Rouge, Louisiana
CRA FILE NO.: 27453-01 (3) SPECIALIST: FM/TD

WELL NUMBER	MW-1	MW-2	MW-3	MW-4	
SAMPLE NUMBER	MW-1	MW-2	MW-3	MW-4	
GENERAL WELL DATA					
Top of Casing (TOC) Elevation (ft.MSL)	100.28	99.48	99.30	100.08	
Original Total Depth (ft below TOC)	14.3	14.2	14.0	14.6	
TOC Height (ft above/below grade)	-0.44	-0.48	-0.40	-0.28	
Screened Interval (ft below grade)	4.1 - 14.1	4.0 - 14.0	3.8 - 13.8	4.4 - 14.4	
Well Diameter (in)/Material	2" PVC	2" PVC	2" PVC	2" PVC	
Current Well Condition	Good	Good	Good	Good	
WATER LEVEL DATA					
Date (mo/day/yr)	12/09/03	12/09/03	12/09/03	12/09/03	
Time (military)	0925	0910	0915	0920	
Measured Total Depth (ft below TOC)	14.30	14.20	14.00	14.60	
Static Water Level (ft below TOC)	3.74	3.70	2.11	3.34	
Static Water Elevation (ft.MSL)	96.54	95.78	97.19	96.74	
WELL PURGE DATA					
Purge Date (mo/day/yr)	12/09/03	12/09/03	12/09/03	12/09/03	
Purge Time (military)	0950	0920	0930	0940	
Minimum Purge Volume (Gal)	5.1	5.0	5.7	5.4	
Actual Purge Volume (Gal)	5.0*	5.0*	5.0*	5.0*	
Equipment Used	PVC Bailer	PVC Bailer	PVC Bailer	PVC Bailer	
WELL SAMPLING DATA					
Sampling Date (mo/day/yr)	12/09/03	12/09/03	12/09/03	12/09/03	
Sampling Time (military)	1020	1030	1000	1010	
Weather Condition	Cloudy/Warm	Cloudy/Warm	Cloudy/Warm	Cloudy/Warm	
Equipment Used	Polyethylene Bailer	Polyethylene Bailer	Polyethylene Bailer	Polyethylene Bailer	
Groundwater Temperature (°C)	24	23	23	23	
Specific Conductance (µS/cm)	687	324	493	584	
Groundwater pH (std units)	6.6	6.2	6.6	6.4	
Number of Containers Filled	3	3	3	3	
Parameters to be Analyzed (p) if preserved (f) if filtered	BTEX/MTBE (8260)p TPH-GRO (8015)p	BTEX/MTBE (8260)p TPH-GRO (8015)p	BTEX/MTBE (8260)p TPH-GRO (8015)p	BTEX/MTBE (8260)p TPH-GRO (8015)p	

I certify that all water level measurement devices, purging equipment, and sampling equipment were properly cleaned prior to use in each well. (Signature) Field Copy Signed

REMARKS:
* Well purged dry
Field blank (WF-3) collected
Replicate sample (WR-1), same data as MW-2
Trip Blank provided by laboratory

Conestoga-Rovers & Associates

State of Louisiana

Department of Environmental Quality

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

DEC 3 0 2004

David Gardner
Chevron Environmental Management Company
P.O. Box 4256
Houston, TX 77210-4256

RE: No Further Action Notification (NFA-ATT)
Chevron Facility No. 601109060; **Agency Interest (AI) No. 20619**
UST FID No. 17-001998; UST Incident No. 60402
2929 College Drive, Baton Rouge; East Baton Rouge Parish

Dear Mr. Gardner:

The Louisiana Department of Environmental Quality - Remediation Services Division (LDEQ-RSD) has completed its review of your Resubmittal of Conveyance Notification Activities/NFA-ATT Request, dated December 20, 2004 for the above area of investigation (AOI) located at 2929 College Drive in East Baton Rouge Parish. Based on our review of this document and all previously submitted information, we have determined that no further action is necessary at this time. The Basis of Decision (BOD) for this notification is attached.

Prior to the construction of enclosed structures over any portion of the impacted area, further evaluation and approval from LDEQ is warranted. In addition, no soils may be removed from this site without prior approval from LDEQ.

If you have any questions or need further information, please call Heather Biletnikoff at (225) 219-3227. Thank you for your cooperation in addressing this area.

Sincerely,

Keith L. Casanova

Keith L. Casanova, Administrator
Remediation Services Division

heb

Attachment: BOD – Chevron No. 60109060

c: LDEQ File Scanning Room 144-UST
Seth Domangue – Conestoga Rovers & Associates

BASIS OF DECISION FOR NO FURTHER ACTION

Chevron Service Station No. 60109060
AI #20619

The Louisiana Department of Environmental Quality – Remediation Services Division (LDEQ – RSD) has determined that Chevron Station No. 60109060 requires No Further Action At This Time.

The property is an active self-service motor fuel retail facility located on the southeast corner of the intersection of College Drive and Constitution Avenue. Four 12,000-gallon gasoline tanks were installed in 1984. Approximately 40-gallons of gasoline leaked at this facility on May 24 1989. In response to the gasoline leak, 4 monitoring wells were installed in the tank area. Monitoring wells were monitored monthly and sampled quarterly between May 1989 and 1993. Monitoring wells were plugged and abandoned in 1993 and the site was granted a termination of remediation in 1994.

On September 3, 1998, during well pointing activities to reduce the high water table in the tank area, one of the USTs was fractured. Product was removed to a level below the fracture and notification of a release was reported to the LDEQ. Fracture in tank was repaired and contaminated soil was removed. An NFA determination for this release was not on file with the LDEQ.

A baseline site assessment was conducted in March 2003 during a property divestment. Analytical results for soil and groundwater samples indicated that hydrocarbon impact was present at the site. On August 20, 2003 an additional site investigation and Risk Evaluation/Corrective Action Program (RECAP) evaluation was requested by LDEQ – RSD. Six soil borings were installed to a maximum depth of 14-feet below ground surface (bgs) using direct push technology/hollow-stem augers. Four of the borings were completed as 2-inch diameter monitoring wells. Monitoring wells were developed, purged and sampled for laboratory analysis of BTEX, MTBE, and TPH-GRO. Hydraulic conductivity tests were performed in two of the monitoring wells in order to calculate groundwater yield. Following the completion of site investigation activities, a RECAP evaluation was completed.

Tightness testing was performed on the tanks and lines on June 13, 2003. All tanks and product lines passed the tank tightness testing. Since no current release has been detected, constituents of concern (COCs) should continue to meet the limiting RECAP standards established for this site. The Area of Investigation (AOI) was closed in accordance with the October 2003 RECAP using Appendix I industrial standards. Appendix I is a Management Option 2-evaluation that is specific to the conditions at UST sites. The COCs present that now meet the approved remediation standards are noted in the following table. The media impacted by these constituents include surface soils between 0-15-feet bgs, and shallow groundwater. Analytical soil and groundwater data provide sufficient horizontal and vertical delineation of the hydrocarbon plume.

Slug tests were conducted on MW-1, MW-3, and MW-4 on December 9, 2003. Groundwater at this site is designated as classification 3A non-drinking water based on an approximate well yield of 36 gallons per day and a discharge to a body of water, Dawson Creek, which is not designated as a drinking water supply. Dawson Creek is located approximately 1,400-feet south of the site. City zoning of the site is C2, or heavy commercial. The current and future land use is industrial and is expected to remain industrial.

Constituents of Concern Soil	Maximum Remaining Concentration (mg/Kg)	Limiting RECAP Appendix I Standard (mg/Kg)
Benzene	0.331	5.8
MTBE	<0.261	18,000
TPH-GRO	207	10,000

Constituents of Concern Groundwater	Maximum Remaining Concentration (mg/L)	Limiting RECAP Appendix I Standard (mg/L)
Benzene	0.141	2.3
Ethylbenzene	0.858	170
MTBE	0.737	51,000
TPH-GRO	11.1	5,394

Soil and groundwater sampling has confirmed that COC concentrations do not exceed site-specific remediation standards, so no remedial action was required. No Further Action At This Time is granted when contamination is confirmed to exist at concentrations that do not exceed the established standards.

In accordance with LAC 33:I Chapter 13, if land use is going to be changed from industrial to non-industrial, the responsible party shall notify the LDEQ within thirty (30) days and the AOI shall be reevaluated to determine if conditions are appropriate for the proposed land use. Future use may dictate additional remedial activities. A conveyance notice has been filed with the East Baton Rouge Clerk of Court noting that the AOI was closed under industrial standards. No contaminated soils may be moved from this location without written authorization from the LDEQ.

All monitoring wells installed for the purposes of site investigation were plugged and abandoned on July 8, 2004 by Walker-Hill Environmental, Inc. of Columbia, MS. All well casing and screen were removed and the borehole grouted to the surface with a cement-bentonite mixture.

OFFICE OF ENVIRONMENTAL ASSESSMENT
REMEDIATION SERVICES DIVISION

SECTION: RSD-3 PROJECT: AI # 20619
ORIGINATOR: HZB DATE: 12-28-04 Other #

	Req'd.	Signature	Date	Comments
Immediate Supervisor				
Section Mgr./Supvr.	Y	[illegible]	12/28/4	
Section Secretary	Y	[illegible]	12/28/4	
Executive Secretary				
Administrator	X	Keith L. Casanova	DEC 30 2004	NFA
Legal				
Assistant Secretary				
Deputy Secretary				
Secretary				

08/28/2001

CONESTOGA-ROVERS
& ASSOCIATES

4915 S. Sherwood Forest Blvd., Baton Rouge, LA 70816
Telephone: 225.292.9007 Facsimile: 225.292.3614
www.CRAworld.com

December 20, 2004

Reference No. 27453-01

Mr. Keith L. Casanova, Administrator
Louisiana Department of Environmental Quality
Remediation Services Division
Post Office Box 4314
Baton Rouge, Louisiana 70821-4314

Remediation Services Division
Manager: Hulk
Team Leader: Bilotnikoff
AI #: 20619
TEMPO Task #: 14775421
Desk Copy File Room: JSS

DEC 22 2004

FY2005-2695

Dear Mr. Casanova:

Re: Resubmittal of Conveyance Notification
Activities/NFA-ATT Request
Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, Louisiana
East Baton Rouge Parish
Facility UST I.D. No.: 17-001998
Agency Interest No.: 20619

Conestoga-Rovers & Associates (CRA), on behalf of Chevron Environmental Management Company (Chevron), herein submits a conveyance notification filed with the East Baton Rouge Clerk of Court on November 24, 2003. The resubmittal was requested by the Louisiana Department of Environmental Quality (LDEQ) Remediation Services Division (RSD) in verbal correspondence dated September 20, 2004, providing requirements for issuance of No Further Action-At This Time, a conveyance notice was filed with the East Baton Rouge Parish Clerk of Court on August 26, 2004. However, due to recalculated Risk Evaluation/Corrective Action Program Screening Standards (RECAP SS), CRA is resubmitting the conveyance notification. A true copy of this notice is included as Exhibit 1.

Based on the information provided herein, CRA and Chevron respectfully request NFA-ATT status for this site. If you have any questions regarding this submittal, please contact CRA or Mr. David Gardner, Chevron Environmental Compliance Manager, at (713) 219-5223.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Seth P. Domangue

Seth Domangue

for Thomas B. Powers, PG

JPF/jpw/006

Encl.

cc: Mr. David Gardner, Chevron Environmental Management Company
Nadia Elbar, College Gas, Inc.

C

CONVEYANCE NOTIFICATION

ORIG 93 BNDL 11672

College Gas, Incorporated (owner) hereby notifies the public that the following described Areas of Concern (AOCs), Louisiana Department of Environmental Quality (LDEQ) Agency Interest Number (AI) 20619, was closed with contaminant levels present that are acceptable for industrial/commercial use of the property as described in LDEQ's Risk Evaluation/Corrective Action Program (RECAP), October 20, 2003, Section 2.9, and site-specific RECAP standards developed in the letter report Revised RECAP Evaluation Tables submitted to LDEQ on June 8, 2003. In accordance with LAC 33:I., Chapter 13, if land use changes from industrial to non-industrial, the responsible party shall notify the LDEQ within 30 days and the AOCs shall be reevaluated to determine if conditions are appropriate for the proposed land use.

This site was closed in accordance with the Louisiana Administrative Code, Title 33:I., Chapter 13. Information regarding this site is available in the LDEQ public record and may be obtained by contacting the LDEQ Records Manager at (225) 219-3168. Inquiries regarding the contents of this site may be directed to David Gardner, Chevron Project Manager, at P.O. Box 4256, Houston, Texas 77210-4256.

AOC Description:

Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, East Baton Rouge Parish, Louisiana

A legal description of the property is as follows:

That portion of ground, together with all the buildings and improvements thereon, situated in the Parish of East Baton Rouge, State of Louisiana, containing 0.844 acres, and being designated as "Tract A" of a portion of Aldrich Acres, more particularly described in accordance with map by Toxie Craft, C.E., dated December 9, 1966, approved by the Baton Rouge Planning Commission on December 20, 1966, and recorded on December 22, 1966, in Original 20, Bundle 6330, as follows:

Commence at Louisiana Department of Highways monument on the right of way line of Interstate Highway I-10, and which point is also a corner of "Tract B" of said Aldrich Acres; Thence S 59°38' E 38.52 feet to an iron pipe; Thence S 30°22' W 267.71 feet to an iron pipe; Thence N 62°40'30" W 150.00 feet to the old northerly right of way line of College Drive; Thence N 27°19'30" E along said right of way line a distance of 60.00 feet to an iron pipe and LDH monument; Thence N 31°35'40" E along said right of way line 140.00 feet to an iron pipe and LDH monument; Thence N 75°39'02" E 46.37 feet to an iron pipe and LDH monument; Thence S 61°55'14" E 40.00 feet to an iron pipe and LDH monument; Thence N 73°11'31" E 56.67 feet to the point of beginning.

LESS AND EXCEPT that portion of ground sols by Chevron U.S.A., Inc. to the City of Baton Rouge, Parish of East Baton Rouge, by act recorded on March 11, 1999, in Original 695, Bundle 10987, more fully described as follows:

A certain parcel of tract of land taken from a larger tract being Parcel 1-1, a portion of the Chevron U.S.A., Inc., Tract A, City of Baton Rouge, State of Louisiana, situated in Section 94, T-7-S, R-1-E, Greensburg Land District, being more particularly described as follows, to wit:

Commence at a point on the south-easterly corner of the Chevron U.S.A., Inc., Tract A; thence proceed north 62°40'53" west, a distance of 127.39 feet to the point of beginning at the southeast corner of Parcel 1-1; thence proceed north 62°40'53" west, a distance of 9.80 feet to point and corner; thence proceed along a curve to the right having a radius of 2834.79 feet, an arc length of 148.37 feet, being subtended by a chord north 24°53'55" east, a distance of 148.35 feet to point and corner; thence proceed north 31°42'08" east, a distance of 51.56 feet to point and corner; thence proceed north 75°39'02" east, a distance of 7.65 feet to point and corner; thence proceed south 38°08'46" west, a distance of 21.31 feet to point and corner; thence along a curve to the left having a radius of 2864.79 feet, an arc legth of 184.11 feet, being subtended by a chord south 24°04'36" west, a distance of 184.08 feet to point of beginning containing 1469.9 square feet, being more clearly shown on a map prepared by Carl A. Jeansonne, Jr., Professional Land Surveyor, dated September 8, 1997.

As requested, soil and groundwater analytical laboratory results for constituents of concern are summarized on the attached tables and scaled figures. The tables and figures were provided by Conestoga-Rovers and Associates on behalf of Chevron Environmental Management Company (Chevron). Chevron is the responsible party for AI Number 20619.

College Gas, Incorporated, d.b.a. College Chevron, a Louisiana limited liability company

By: Nadia Elbar

Nadia Elbar

Title: PRESIDENT

Date: oct 22-04

(A true copy of the document certified by the parish clerk of court must be sent to the Remediation Services Division, Post Office Box 4314, Baton Rouge, Louisiana 70821-4314.)

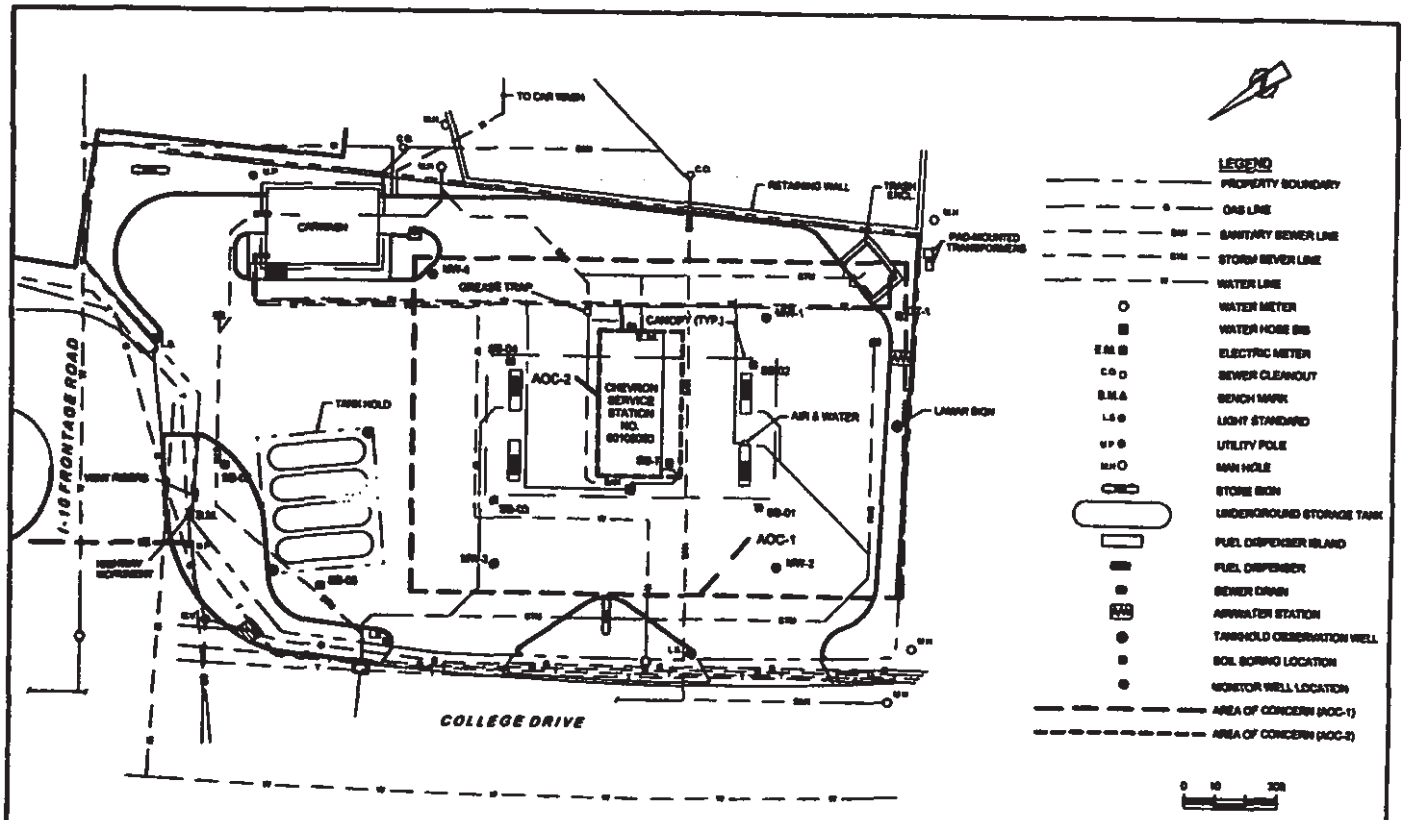


figure 1

AOC LOCATIONS
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CC4302A, "EXTERIOR PIPING & ELECTRICAL PLAN".

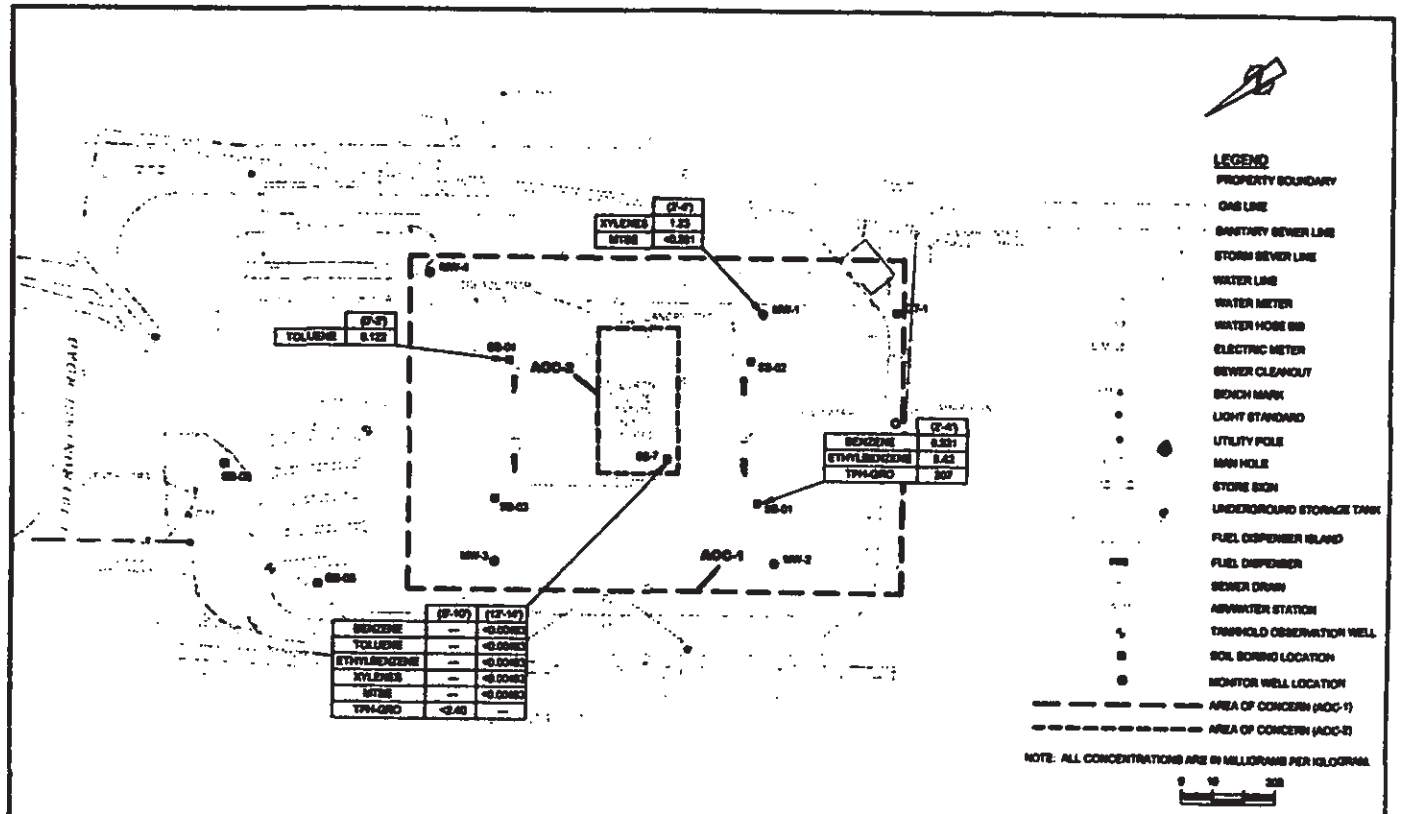


figure 2

MAXIMUM CONSTITUENT CONCENTRATIONS REMAINING IN SOIL
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA3/GUI, "EXTERIOR PIPING & ELECTRICAL PLAN".

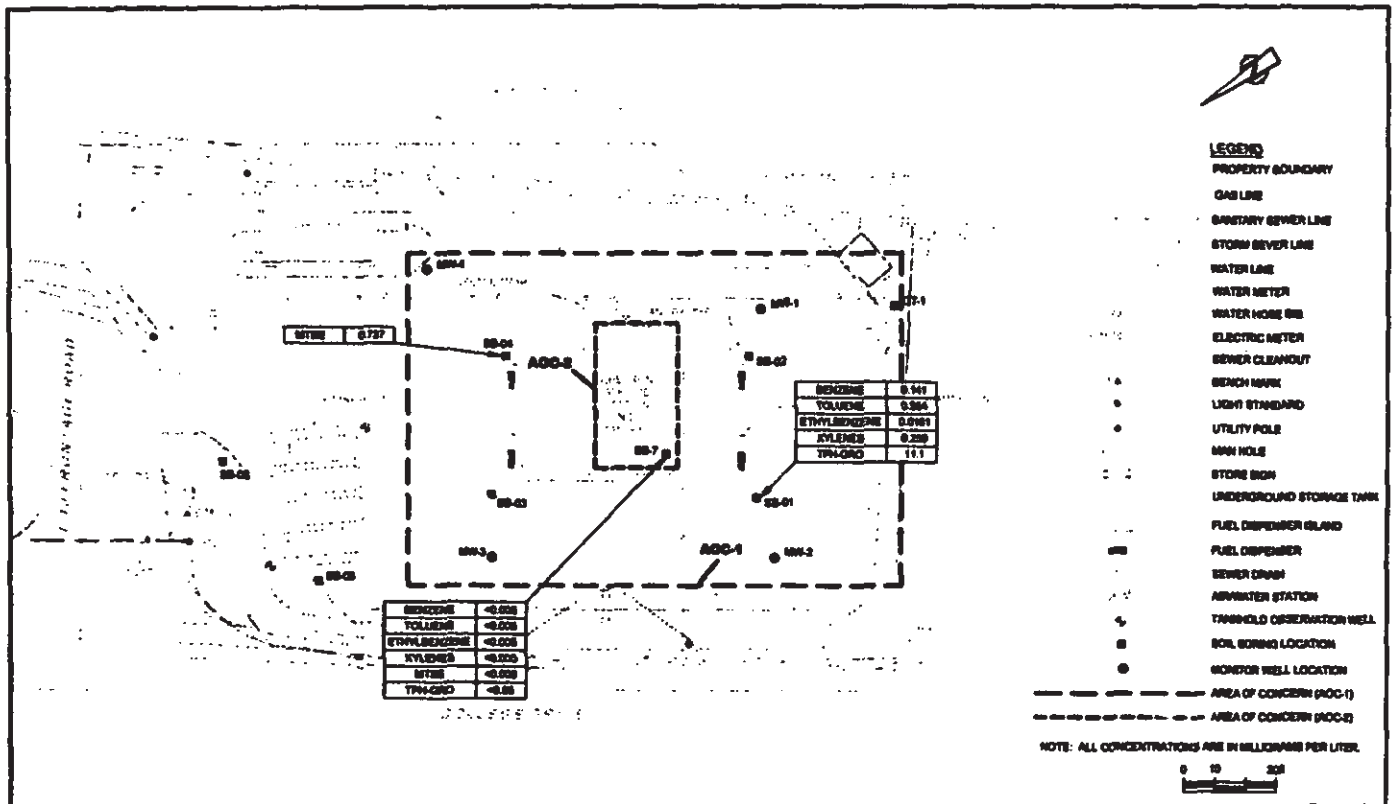


figure 3

MAXIMUM CONSTITUENT CONCENTRATIONS REMAINING IN GROUNDWATER
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CC/G/G/U, "EXTERIOR PIPING & ELECTRICAL PLAN".

5

TABLE 1

MAXIMUM CONCENTRATIONS REMAINING IN SOIL
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Constituent of Concern (mg/kg)	*Limiting RECAP Standard*	*AOC - 1 Area of Investigation Concentrations* [3] *Depth Interval in Feet* 0 - 15	*AOC - 2 Area of Investigation Concentrations* [3] *Depth Interval in Feet* 0 - 15
Benzene	5.8[2]	0.331	<0.00493
Toluene	20[1]	0.122	<0.00493
Ethylbenzene	19[1]	9.42	<0.00493
Xylenes	150[1]	1.23	<0.00493
MTBE	18,000[2]	<0.261	<0.00493
TPH-GRO	10,000[2]	207	<2.4

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
mg/kg = Milligrams per kilogram, which is equivalent to parts per million (ppm).
Notes: [1] LDEQ Screening Standards are derived from the LDEQ's October 20, 2003, Risk Evaluation/Corrective Action Program (RECAP) Table 1 Screening Standards for Soil and Groundwater.
[2] Site-specific RECAP Screening Standards developed in letter report Revised RECAP Evaluation Tables submitted to LDEQ on June 8, 2003.
[3] The reported area of investigation concentrations are the maximum concentrations encountered for each constituent of concern from samples collected during the site investigations.

5

TABLE 2

MAXIMUM CONCENTRATIONS REMAINING IN GROUNDWATER
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Constituent of Concern (mg/L)	*Limiting RECAP Standard*	*AOC -1 Groundwater Compliance Concentrations* [3]	*AOC - 2 Groundwater Compliance Concentrations* [3]
Benzene	2.3[2]	0.141	<0.005
Toluene	0.7[1]	0.0161	<0.005
Ethylbenzene	170[1]	0.834	<0.005
Xylenes	10[1]	0.259	<0.005
MTBE	51,000[2]	0.737	<0.005
TPH-GRO	5,394[2]	11.1	<0.05

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
Notes: [1] LDEQ Screening Standards are derived from the LDEQ's October 20, 2003, Risk Evaluation/Corrective Action Program (RECAP) Table 1 Screening Standards for soil and Groundwater.
[2] Site-specific RECAP Screening Standards developed in letter report Revised RECAP Evaluation Tables submitted to LDEQ on June 8, 2003.
[3] The reported groundwater compliance concentrations are the maximum concentrations encountered for each constituent of concern from samples collected during the site investigations.

ORIG 93 MOL 11672
FILED AND RECORDED
EAST BATON ROUGE PARISH, LA.
2004 NOV 24 AM 11:05:23
FTL BK FOLIO
DOUG WELBORN
CLERK OF COURT & RECORDER
CERTIFIED TRUE COPY
BY
DEPUTY CLERK & RECORDER

CERTIFIED
TRUE COPY
DEC 2 0 2004
BY Joseph Dinicola
DEPUTY CLERK

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

FACILITY ID#: FID# 17-00498 AI 20619 INSPECTION DATE: 7-8-04 TIME OF ARRIVAL: 9:00 AM
DEPARTURE DATE: 7-8-04 TIME OF DEPARTURE: 10:45 AM

FACILITY NAME: ~~Chev~~ CHEVRON No. 60109060 PH #:

LOCATION: 2929 College Dr. Baton Rouge

PARISH NAME: E.BR Parish

MAILING ADDRESS: PO BOX 4256 (Street/P.O. Box) Houston (City) TX (State) 77210 (ZIP)

FACILITY REPRESENTATIVE: Gustavo Bouaihi TITLE: CEA-Geologist

INSPECTION TYPE: Remediation MEDIA INVOLVED: AIR WASTE WATER OTHER

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENATIVES)

Oversight of plug and abandonment of MW-1,2,3,4 installed for purposes of site investigation. PVC removed and holes grouted to surface and completed with concrete. Walker-Hill Env. Inc. removed wells. Site is an active retail fuel facility

AREAS OF CONCERN	EXPLANATION	RESOLVED
		YES NO
		YES NO
		YES NO
		YES NO

PHOTOS TAKEN: ☐ YES ☒ NO SAMPLES TAKEN: ☐ YES ☒ NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE: TITLE:

PRINT NAME:
(NOTE: SIGNATURE DOES NOT INDICATE AGREEMENT WITH INSPECTOR'S NOTES)

INSPECTOR(S): Heather Pruett, ES II
HEATHER E. PRUETT

ATTACHMENTS:

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

REVISED: 07/01/99

CONESTOGA-ROVERS & ASSOCIATES

4915 S. Sherwood Forest Blvd.
Baton Rouge, Louisiana 70816
Telephone: (225) 292-9007 Fax: (225) 292-3614
www.CRAworld.com

TRANSMITTAL

DATE: 05/07/04

REFERENCE NO.: 27453-01

PROJECT NAME: Chevron Service Station No. 60109060

TO: Mr. Keith Casanova, Administrator
Louisiana Department of Envrionmental Quality
Post Office Box 4314
Baton Rouge, LA 70821-4314

Remediation Services Division
Manager:
Team Leader:
AI #:
TEMPO Task #:
☐ Desk Copy File Room:

Please find enclosed:
☐ Draft
☐ Originals
☐ Prints
☒ Final
☐ Other

Sent via:
☒ Mail
☐ Overnight Courier
☐ Same Day Courier
☐ Other

QUANTITY	DESCRIPTION
3	Risk Evaluation/Corrective Action Program Report
	Chevron Service Station No. 60109060
	2929 College Drive
	Baton Rouge, Louisiana

RECEIVED
MAY 10 2004
LA. DEPT. OF ENV. QUALITY
REMEDIATION SERVICES DIVISION

☐ As Requested
☒ For Your Use
☐ For Review and Comment
☐
☐

COMMENTS:

Copy to: David Gardner, Chevron EMC

Completed by: Seth P. Domangue [Please Print]

Signed: Seth P. Domangue

Filing: **Correspondence File**

EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

REGISTERED COMPANY FOR ISO 9001 ENGINEERING DESIGN

RISK EVALUATION/
CORRECTIVE ACTION PROGRAM REPORT

Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, East Baton Rouge Parish, Louisiana
Facility UST I.D. No.: 17-001998
Incident I.D. No.: 60402
Agency Interest No.: 20619

for

David Gardner
Chevron Environmental Management Company
P.O. Box 4256
Houston, Texas 77210-4256
(713) 219-5223

MAY 2004
Ref. 27453-01 (4)

CONESTOGA-ROVERS & ASSOCIATES
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816
(225)292-9007 Office; (225)292-3614 Fax

FY2004-4942

RECEIVED
MAY 10 2004
LA DEPT. OF ENV. QUALITY
REMEDIATION SERVICES DIVISION
LOG #

RECAP FORM 1
RECAP SUBMITTAL SUMMARY

1. Agency Interest Name: Chevron Service Station No. 60109060

2. AI#: 20619

3. Name of Area of Investigation: AOC-1 and AOC-2

4. Facility Owner Name: College Gas, Inc.

5. Facility Owner Mailing Address: 2929 College Drive, Baton Rouge, LA

6. Facility Operator Name: College Gas, Inc.

7. Facility Operator Mailing Address: 2929 College Drive, Baton Rouge, LA

8. Facility Physical Address: 2929 College Drive
Baton Rouge, LA

Remediation Services Division
Manager: Hack
Team Leader: Pruett
AI #: 20619
TEMPO Task #:
Desk Copy File Room: USK

9. Parish: East Baton Rouge

10. Latitude/Longitude of Primary Facility Entrance: 30°25'18"/91°08'24"

11. Latitude/Longitude Method: Digital Atlas

12. Facility Contact Person: David Gardner

13. Facility Contact Person's Phone Number: (713) 219-5223

14. Facility Contact Person's Mailing Address: P.O. Box 4256
Houston, TX 77210-4256

15. Facility Contact Person's E-mail Address: N/A

16. Area of Investigation Location: Adjacent to dispenser islands

17. Area of Investigation Size: Approximately 13,000 square feet based on soil impact that exceeds the SS.

18. Horizontal and Vertical Extent of the Area of Investigation has been identified? [√] Yes [ ] No

19. Describe the Current and Historical Uses of the Property on which the AOI is located and the Time Periods for Each Use/Activity: See text in Section 1.0 of this report.

20. Indicate How Release Occurred (if known): Suspected minor leaks/spills during operating history.

21. List Constituents Released (if known): Gasoline petroleum hydrocarbon constituents.

22. RECAP Submittal Date: May 2004

23. RECAP Submittal Prepared by: Seth P. Domangue, Thomas B. Powers, PG, Calvin R. Wiggs, PG

24. RECAP Submittal Preparer's Employer: Conestoga-Rovers & Associates

25. RECAP Submittal Preparer's Phone Number: (225) 292-9007

26. Site Ranking: [ ] Class 1 [ ] Class 2 [ ] Class 3 [√] Class 4

27. Media Impacted:

[√] Surface Soil	[ ] Groundwater 1A	[ ] Surface water
[√] Potential Surface Soil	[ ] Groundwater 1B	[ ] Sediment
[ ] Subsurface Soil	[ ] Groundwater 2A	[ ] Biota
	[ ] Groundwater 2B	
	[ ] Groundwater 2C	
	[√] Groundwater 3A	
	[ ] Groundwater 3B	
	[ ] Groundwater Classification Unknown	

28. Is soil present at 0-3 ft bgs impacted? [√] Yes [ ] No

29. Release volume: _____

30. Is NAPL Present? [ ] Yes [√] No

31. Aquifer: "400-foot" Aquifer

(a) Distance from AOC/AOI to the nearest downgradient property boundary: Approximately 30 feet

(b) Distance from AOC/AOI to the nearest downgradient surface water body: 1,400 feet

(b) Depth from known contamination to the nearest Groundwater Classification 1 aquifer: 500 feet

(c) If a GW 1 or 2 aquifer, distance from POC to nearest downgradient drinking water wells: NA

32. Distance from known contamination to nearest enclosed occupied structure: NA

33. Depth Groundwater First Encountered: Approximately 8 to 10 feet below ground surface

34. Distance from POC to POE: 1,400 feet

35. Dilution Factor Applied: 1,902

36. Fractional Organic Carbon Content: 0.02

37. Current Land Use: [ ] Non- Industrial [√] Industrial NAICS: 44711

38. Potential Land Use: [ ] Non- Industrial [√] Industrial NAICS: 44711

39. Is There Offsite Contamination? [ ] Yes [√] No

(a) If Yes, Land Use Offsite: [ ] Non- Industrial [ ] Industrial NAICS: _____

(b) If Yes, Identify the Landowner(s), Lessee(s), and/or Servitude Holder(s): _____

40. Management Option(s)Applied at the AOI: [ ] SO [ ] MO- 1 [√] MO- [ ] MO-3

41. Provide documentation that the AOI meets the criteria for the Option implemented See Section 1.3 of this RECAP Report.

42. Current Status of the AOI: Not applicable

43. The AOI will be remediated under: [√] Not applicable [ ] SO [ ] MO-1 [ ] MO-2 [ ] MO-3.

44. Exceedances and Corrective Action Standards to be applied: Not applicable

45. All constituent concentrations in all impacted media:

[√] comply with the applicable RECAP standards; **or**

[ ] have been remediated to the applicable RECAP; **or**

[ ] alternate remediation standards and a NFA-ATT determination is being requested **and**:

(a) RECAP Standards Applied: [ ] Non-industrial [√] Industrial
(b) There are institutional controls on this property: [ ] Yes [√] No
(c) If yes, type of institutional control employed:
(d) If applicable, the conveyance notice has been filed with the _____ (Parish) Clerk of Court, noting that the AOI was closed under industrial standards

46. RECAP Standards Applied at the AOI:

Medium: Soil and groundwater

COC	[√] AOIC [√] CC	[ ] LSS [ ] MO-1 LRS [√] MO-2 LRS [ ] MO-3 LRS [ ] Alternate Standards
Soil		
Benzene	0.331 mg/kg	9.2 mg/kg
MTBE	<0.261 mg/kg	18,000 mg/kg
TPH-GRO	207 mg/kg	10,000 mg/kg
Groundwater		
Benzene	0.141 mg/L	25 mg/L
Ethylbenzene	0.854 mg/L	1,700 mg/L
MTBE	0.737 mg/L	51,000 mg/L
TPH-GRO	11.1 mg/L	10,000 mg/L

47. Provide documentation that the AOIC and/or CC will continue to comply with the applicable standard:
The AOICs and CCs do not exceed the Appendix I limiting RS. The facility will be operated in accordance with applicable requirements to identify potential future releases.

48. If groundwater was impacted, provide a description of aquifer use and list the locations and depths of the nearest drinking: water supply wells There is no designated use for the shallow water-bearing zone. One domestic water supply well *completed at a depth of 504 feet is located approximately 4,600 feet northwest of the Site.*

49. Provide: (a) a description of the remedial actions implemented; (b) verification that the source has been removed/mitigated and that residual constituent concentrations comply with the LSS or LRS; and (c) a discussion on the offsite disposal of investigation and remediation wastes including types, quantities, disposal location, etc.

a) No remedial actions are required.

b) *Sources have been mitigated and none of the constituents exceed the LRS. Tightness testing was conducted on* 6/13/03 and all tanks and lines passed.

c) All wastes generated during the investigation was containerized and is still onsite pending characterization and proper disposal.

50. If applicable, discuss monitoring well plugging and abandonment: Not applicable.

51. Is There a Current or Potential Ecological Impact? [ ] Yes [√] No

RISK EVALUATION/
CORRECTIVE ACTION PROGRAM REPORT

Chevron Service Station No. 60109060
2929 College Drive
Baton Rouge, East Baton Rouge Parish, Louisiana
Facility UST I.D. No.: 17-001998
Incident I.D. No.: 60402
Agency Interest No.: 20619

for

David Gardner
Chevron Environmental Management Company
P.O. Box 4256
Houston, Texas 77210-4256
(713) 219-5223

MAY 2004
Ref. 27453-01 (4)

CONESTOGA-ROVERS & ASSOCIATES
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816
(225)292-9007 Office; (225)292-3614 Fax

EXECUTIVE SUMMARY

At the request of Chevron Environmental Management Company (Chevron), a Risk Evaluation/Corrective Action Program (RECAP) evaluation was completed by Conestoga-Rovers & Associates (CRA) for Chevron Service Station No. 60109060 located at 2929 College Drive in Baton Rouge, East Baton Rouge Parish, Louisiana. The evaluation was conducted in accordance with the Louisiana Department of Environmental Quality's (LDEQ) RECAP dated October 20, 2003. Data collected during two prior site investigations (May 2003 Baseline Site Assessment and January 2004 Additional Site Investigation) was used in the RECAP evaluation. The work was approved for implementation by the LDEQ in correspondence dated February 26, 2004. A summary of CRA's work and findings follows:

Reason for Evaluation—The RECAP evaluation was conducted to evaluate the Area of Concern (AOC) for compliance with RECAP Standards (RS) and to determine the potential need for remedial activities.

Site Characteristics - The site is located on the southeast corner of the intersection of College Drive and I-10 Frontage Road (Constitution Avenue). The approximate 1.1-acre site consists of a station building, a car wash, and four dispenser islands, covered by a canopy. Four underground storage tanks (USTs) are located on the northwestern portion of the site.

Site Status - The site is an active self-service motor fuel retail facility.

Release Source – The source of the release was not clearly identified, but is considered to be from the UST system.

Soil Type – The soils encountered at the site are described predominately as silty clay.

Analytical results from the Baseline Site Assessment and Additional Site Investigation indicated hydrocarbon constituent concentrations in soil and groundwater above the RECAP Screening Standards (SS). Three constituents in soil and four in groundwater had concentrations exceeding the limiting soil and groundwater SS. In the soil and groundwater, the maximum benzene concentrations were 0.331 milligrams per kilogram (mg/kg) and 0.141 milligrams per liter (mg/L), respectively; the maximum methyl tertiary butyl ether (MTBE) concentrations were 0.23 mg/kg and 0.737 mg/L, respectively; the maximum total petroleum hydrocarbon-gasoline range organics (TPH-GRO) concentrations were 207 mg/kg and 11.1 mg/L, respectively; and the maximum ethylbenzene concentration in groundwater was 0.854 mg/L. The soil and groundwater

constituents that were detected at concentrations above the SS were then evaluated under the RECAP Appendix I Option. There were no constituents detected in the soil and groundwater near the station building so there was no need to conduct an evaluation under the MO-2 management option for indoor air concerns.

Free Product Conditions –Phase-separated hydrocarbons (PSH) were not encountered in any of the monitor wells (MW-1 through MW-4).

Potential and/or Affected Receptors – Potential receptors identified in the immediate vicinity of the site include underground utilities adjacent to the site, potential commercial workers at the site, and potential construction workers.

Problem Evaluation – Based on the findings of the site investigations and RECAP evaluation, CRA requests "No Further Action – At This Time" (NFA-ATT) status for this facility.

TABLE OF CONTENTS

Page

RECAP SUBMITTAL SUMMARY i

EXECUTIVE SUMMARY iv

1.0 RECAP EVALUATION RESULTS 1
1.1 GENERAL 1
1.1.1 SITE HISTORY 1
1.1.2 SITE DESCRIPTION AND ADDITIONAL INFORMATION 2
1.2 SITE RANKING AND JUSTIFICATION 3
1.3 RECAP OPTION(S) IDENTIFICATION 4
1.4 PREVIOUS ASSESSMENT RESULTS 5
1.4.1 SUMMARY OF PREVIOUS INVESTIGATION RESULTS 5
1.5 DATA EVALUATION/USABILITY 7
1.6 IDENTIFICATION OF THE AOC AND COCS 7
1.6.1 AOC IDENTIFICATION 7
1.6.2 IDENTIFICATION OF THE COCs FOR EACH IMPACTED MEDIUM 8
1.7 EXPOSURE ASSESSMENT 8
1.7.1 CURRENT AND FUTURE LAND USE 8
1.7.2 GROUNDWATER CLASSIFICATION, POE, AND POC 8
1.7.3 DEVELOPMENT OF A CONCEPTUAL MODEL 9
1.7.4 ESTIMATION OF AREA OF INVESTIGATION AND COMPLIANCE CONCENTRATIONS 10
1.8 IDENTIFICATION OF THE RECAP STANDARDS FOR EACH IMPACTED MEDIUM 10
1.8.1 SCREENING OPTION 10
1.8.2 IDENTIFICATION OF THE APPENDIX I RECAP STANDARDS FOR EACH IMPACTED MEDIUM 11
1.8.3 ADJUSTMENT OF RISK-BASED RS 13
1.8.4 IDENTIFICATION OF THE LIMITING RS 13
1.8.5 COMPARISON OF THE LIMITING RS TO THE SITE CONCENTRATIONS 13
1.9 ECOLOGICAL EVALUATION 13

2.0 SUMMARY OF FINDINGS 15

3.0 RECOMMENDATIONS 16

LIST OF APPENDICES

APPENDIX A	FIGURES	
	FIGURE 1	VICINITY MAP
	FIGURE 2	SURROUNDING LAND USE MAP
	FIGURE 3	SITE PLAN
	FIGURE 4	WATER WELL MAP
	FIGURE 5	SOIL PROFILE CROSS SECTIONS
	FIGURE 6	GROUNDWATER POTENTIOMETRIC ELEVATIONS AND CONTOURS, DECEMBER 9, 2003
	FIGURE 7	BENZENE, MTBE, AND TPH-GRO CONCENTRATIONS AND ISOPLETHS FOR SOIL O'-15'
	FIGURE 8	GROUNDWATER BENZENE, ETHYLBENZENE, MTBE, AND TPH-GRO CONCENTRATIONS AND ISOPLETHS DECEMBER 9, 2003
	FIGURE 9	CONCEPTUAL SITE MODEL
APPENDIX B	TABLES	
	TABLE 1	SOIL SAMPLE ANALYTICAL LABORATORY DATA
	TABLE 2	GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA
	TABLE 3	MONITOR WELL INSTALLATION DATA
	TABLE 4	MONITOR WELL SAMPLING DATA
	TABLE 5A	AREA OF INVESTIGATION CONCENTRATIONS FOR EACH SOIL MEDIUM
	TABLE 5B	GROUNDWATER COMPLIANCE CONCENTRATIONS
	TABLE 6A	LIST OF APPENDIX I LIMITING STANDARDS FOR EACH COC FOR SOIL – AOC-1
	TABLE 6B	LIST OF APPENDIX I LIMITING STANDARDS FOR EACH COC FOR GROUNDWATER – AOC-1
	TABLE 7A	ADDITIVITY FACTORS
	TABLE 7B	ADDITIVITY ASSESSMENT OF RECAP LIMITING STANDARS – SOIL
	TABLE 8	COMPARISON OF APPENDIX I LIMITING STANDARDS AND AREA OF INVESTIGATION AND COMPLIANCE CONCENTRATIONS - AOC-1
APPENDIX C	SLUG TEST DATA AND WELL YIELD CALCULATION	

APPENDIX D ANALYTICAL DATA EVALUATION

APPENDIX E ECOLOGICAL CHECKLIST

1.0 RECAP EVALUATION RESULTS

1.1 GENERAL

1.1.1 SITE HISTORY

At the request of Chevron Environmental Management Company (Chevron), Chevron Service Station No. 60109060 located at 2929 College Drive in Baton Rouge, East Baton Rouge Parish, Louisiana, was evaluated in accordance with the Louisiana Department of Environmental Quality (LDEQ) October 20, 2003, Risk Evaluation/Corrective Action Program (RECAP). The work was approved by the LDEQ in correspondence dated February 26, 2004. The RECAP evaluation was used to evaluate the Areas of Concern (AOCs) for compliance with RECAP Standards (RS) and to determine the potential need for remedial activities at the site. A summary of the pertinent site RECAP information is presented in the RECAP submittal summary (RECAP Form 1), which is included at the beginning of this report.

The RECAP evaluation was completed by Conestoga-Rovers & Associates (CRA) using data gathered during a previous Baseline Site Assessment and an Additional Site Investigation. The results of these two prior investigations were previously submitted to the LDEQ in May 2003 and the January 2004, respectively. A brief summary of these investigations follows.

In March 2003, CRA conducted a Baseline Site Assessment in order to determine if service station operations had adversely impacted the subsurface media. Analytical results indicated soil benzene and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) concentrations above the LDEQ/RECAP Screening Option (SO) Screening Standards (SS) in several exploratory soil borings installed at the site. Analytical results also indicated groundwater benzene, ethylbenzene, methyl tertiary butyl ether (MTBE), and TPH-GRO concentrations above the LDEQ/RECAP SS. Upon receiving signed analytical laboratory reports, a verbal and written notification of a suspected hydrocarbon release was made by CRA to the LDEQ as required by the LDEQ Notification Requirements for Unauthorized Discharge (LAC 33, Part I, Chapter 39). Additionally, Southern Tank Testers, Inc., was contracted on June 13, 2003, to test the tanks and product lines to confirm there was no ongoing hydrocarbon release. All the tanks and lines passed the tightness tests.

In response to Chevron's notification of a suspected hydrocarbon release, additional investigation activities were requested by the LDEQ in correspondence dated August 14, 2003. The purpose of the additional investigation was to further assess the extent of

hydrocarbon impact in the soil and groundwater that was identified during the previously conducted Baseline Site Assessment. In November/December 2003, CRA completed the Additional Site Investigation for Chevron. Results from the investigation indicated soil samples exceeded the SS for benzene, MTBE, and TPH-GRO, and groundwater samples exceeded the SS for benzene, ethylbenzene, MTBE, and TPH-GRO. The data collected from the additional investigation, along with the Baseline Site Assessment data, was used to conduct a risk evaluation using the LDEQ's RECAP, October 2003.

1.1.2 SITE DESCRIPTION AND ADDITIONAL INFORMATION

Site Description. The site is an active self-service motor fuel retail facility located on the southeast corner of the intersection of College Drive and I-10 Frontage Road (Constitution Avenue). A vicinity map showing the location of the site is presented as figure 1, Appendix A. The city zoning of the site is C2 (heavy commercial). A surrounding land use map is presented as figure 2, Appendix A. The site is bordered on the south by a Shell Service Station and a U.S. Post Office, on the east by a parking lot for nearby office buildings and a Chili's Restaurant, on the north by the I-10 Frontage Road, and on the west by College Drive. Surrounding land use is primarily heavy commercial properties. The approximate 1.1-acre site consists of a station building, a car wash, and four dispenser islands, covered by a canopy. Four underground storage tanks (USTs) are located on the northwestern portion of the site. A site plan showing the site layout is included as figure 3, Appendix A.

Site Setting. The site is located on the Prairie Terrace, which is a Pleistocene alluvial and deltaic landform on the Gulf Coastal Plain. The site is slightly elevated above the nearby flood plain of the Mississippi River, approximately 3 miles to the northeast and is approximately 35 feet above mean sea level (NGVD). Natural drainage appears to be toward Dawson Creek, which flows to Bayou Duplanier and eventually into Ward Creek and Bayou Manchac.

Regional Geology. Surface soils at the site consist of up to 500 feet of Pleistocene alluvial and deltaic deposits predominantly composed of clays and silty clays with lenses of silts and sands. Sand units from the shallow Pleistocene thicken to the west toward the Mississippi River. Underlying, older Pleistocene deposits consist of thick, widespread fine to coarse sand and gravel layers, separated by laterally continuous clay horizons. Beneath the Pleistocene deposits are similar deltaic deposits of Pliocene and Miocene age.

Hydrogeology and Water Use. The shallow Pleistocene deposits contain only minor water-bearing deposits of discontinuous lenses of silt and sand, although the strata thicken to the west where they form the "University Aquifer". The units in the site vicinity are not typically used for water supply because of limited availability and variable quality. The uppermost aquifer of concern is the "400-foot" aquifer which occurs in the uppermost, widespread Pleistocene deltaic sand, and is a main source of groundwater for drinking and industrial use in the area. The "400-foot" aquifer sands typically occur within 500 feet of the ground surface and range from 100 to 200 feet in thickness. The "400-foot" aquifer is underlain by equivalents of the "600-foot" and deeper sands from the north Baton Rouge area. These aquifers contain brackish water in the site vicinity. The deeper Pliocene and Miocene deposits also contain aquifer sands but are saline in the site vicinity.

The information presented in this section is derived from inspection of USGS topographic maps of the area, the Geologic Map of Louisiana by J. Snead and R. McCulloh (1984), the Louisiana Hydrologic Atlas Map No. 2, U.S. Geological Survey Water-Resources Investigations Report 86-4150, (1986), by C.W. Smoot, "Ground-Water conditions in the Baton Rouge Area, 1954-59", Water Resources Bulletin No. 2, by C.O. Morgan, (1961), and "Maps of the "400-foot," "600-foot," and Adjacent Aquifers and Confining Beds, Baton Rouge Area, Louisiana", Water Resources Technical Report No. 48, by E.K. Kuniansky, D.C. Dial, and D.A. Trudeau (1989).

A survey of registered water wells within a one-mile radius of the site was conducted. The survey indicated 35 water wells within the area. Of those, 25 are registered as monitor wells, eight are registered as observation wells, one is registered as a domestic well, and one is listed as inactive. A 7.5 minute quadrangle map showing the locations of the registered water wells within a one-mile radius of the site is included as figure 4, Appendix A.

1.2 SITE RANKING AND JUSTIFICATION

In accordance with the RECAP, the site ranking was selected based on the ranking system in *Standard Guide for Risk-Based Corrective Action at Petroleum Release Sites* (ASTM E 1739-95). On the scale of one to four, with four being the lowest in urgency of response action required to protect human health and the environment, the site receives a ranking of four since it does not present a long-term threat to human health, safety or sensitive environmental receptors.

The ranking is justified on the basis of:

1) Shallow impacted soils are not present in significant quantities;

2) The shallow impacted groundwater is not used for potable water anywhere in the city; and

3) Potential for human contact with surface soils is minimal because most of the ground surface is covered by concrete pavement.

1.3 RECAP OPTION(S) IDENTIFICATION

This RECAP evaluation was conducted to evaluate the areas at the site that may require additional investigation and/or remedial activities for each impacted medium. Factors used by the LDEQ for site screening under the SO SS and RECAP Appendix I, were considered in evaluating the site. The site was initially subdivided into two AOCs. One of the AOCs (AOC-2) was established for the evaluation of indoor air concerns associated with the station building and the other AOC (AOC-1) included the remainder of the site. Boring SB-07 was installed adjacent to the station building for evaluation of indoor air concerns. The results of the Additional Site Investigation for AOC-2 indicated none of the COCs were detected at or above the analytical method reporting limits and none of the reporting limits exceeded the RECAP SS. Accordingly, evaluation of the potential pathway for vapor from soil and groundwater to an enclosed structure was not required for AOC-2.

The following information is furnished to demonstrate appropriate applicability for site evaluation utilizing the SO SS and RECAP Appendix I options:

AOC-1 and AOC-2:

Screening Option Criteria

- An industrial exposure scenario is under consideration. The AOCs are within a heavy commercial property zone and no sensitive sub-populations exist on or near the site.
- The potential for human exposure within the AOC is limited to exposure pathways via ingestion, inhalation from volatilization from emissions emanating from the soil and groundwater, and dermal contact with impacted soil. Based on the depth and limited extent of the impact at the site, the potential for impact to any surface water runoff is virtually non-existent. Furthermore, the distance to the nearest drainage feature would preclude any impact to sediments associated with any surface water runoff from the AOC. Similarly, the potential to impact biota is virtually non-existent.

- The area of impacted soil in the AOC is less than 0.5 acre.
- The COCs mass within the shallow soil and groundwater of the AOC cannot increase because the source of the release has been mitigated. The tank and line tightness tests conducted on June 13, 2003, indicated all the tanks and lines passed the tests.
- Nonaqueous-phase liquids (NAPL) have not been observed at the site.
- The COCs are not discharging via groundwater to a surface water body. The potential for discharge of COCs to surface water via a groundwater discharge from the AOC is virtually non-existent due to the limited size of the area of impact and the distance of the nearest surface water body to the site.
- There are no known current or future site conditions that may affect exposure potential at the site.

The above criteria also qualifies the AOCs for evaluation using the RECAP Appendix I Option.

1.4 PREVIOUS ASSESSMENT RESULTS

There have been no previous RECAP assessments of the AOCs; however, data collected from the previous site investigations was considered in this evaluation. The previous investigation activities have defined the horizontal and vertical extent of the impacted soil and groundwater at the site. Reports documenting boring installations, soil and groundwater sampling, analytical data, and the results of the previous Baseline Site Assessment and the Additional Site Investigation activities were submitted to the LDEQ in May 2003 and January 2004, respectively. For reference, a summary of the previous investigation results follows. Also included is information that was not presented in the previous reports.

1.4.1 SUMMARY OF PREVIOUS INVESTIGATION RESULTS

Site Geology and Hydrogeology. The soils encountered at the site during the previous investigation activities were described as predominantly silty clay to the maximum depth of the exploration (16 feet below ground surface [ft-bgs]). Soil profiles showing the site lithology are presented on figure 5, Appendix A. Based on conditions encountered during the soil boring installations, the depth that groundwater was first encountered typically ranged from approximately 8 to10 feet bgs. Based on groundwater level data from December 9, 2003, the direction of groundwater flow is generally from

north-northeast to the south-southwest. The groundwater elevations and potentiometric conditions are presented on figure 6, Appendix A.

Analytical Results. Results from the Baseline Site Assessment and the Additional Site Investigation indicated hydrocarbon concentrations above the RECAP SS in the soil and groundwater in the vicinity of the dispenser islands. No PSH was observed during the installation and sampling of the soil borings/monitor wells. Analytical laboratory results for soil and groundwater samples collected during the previous investigation activities are provided in Tables 1 and 2, Appendix B. Concentrations of the COC that exceed the RECAP SS for soil and groundwater are presented on figures 7 and 8, Appendix A, respectively. Monitor well construction data for the four wells installed during the Additional Site Investigation are presented in Table 3 and monitor well sampling data for the December 9, 2003 sampling event are presented in Table 4.

Slug Test Results. Hydraulic conductivity (slug) tests were performed on December 9, 2003, at the site in three monitor wells (MW-1, MW-3, and MW-4). The tests were conducted to provide information about the hydraulic conductivity conditions of the soil for a potential well yield calculation.

The tests were conducted as slug-out tests by quickly removing a full bailer from the well. Groundwater levels were then measured with a downhole pressure transducer and electronic data recorder (In-Situ Hermit Model SE-1000C) over the duration of the water level recovery period.

The hydraulic conductivity (K) values were calculated by the Bouwer and Rice method (1976) as determined from the recovery versus time graphs with the commercially available software AQTESOLV. The data and interpretations are shown on the attached figures in Appendix C. The K values are listed below:

Observation Well	Hydraulic Conductivity	
	(K) ft/min	(K) cm/sec
MW-1	4.0×10^{-5}	2.0×10^{-5}
MW-3	5.9×10^{-5}	3.0×10^{-5}
MW-4	4.8×10^{-5}	2.5×10^{-5}
Geometric mean	4.8×10^{-5} (0.070 feet/day)	

1.5 DATA EVALUATION/USABILITY

The laboratory analytical data generated during the previous investigations were evaluated to determine if this data could be used for risk assessment purposes. Data collected from the site during the May 2003 Baseline Site Assessment and the January 2004 Additional Site Assessment were compiled as a comprehensive subsurface investigation of the AOCs. In accordance with RECAP investigation requirements, the data were evaluated with respect to the criteria in RECAP Form 3, which is provided in Appendix D (refer to RECAP Form 3 in for details concerning the data usability evaluation). Laboratory data were generated using EPA approved analytical methods, sample quantitation limits were within acceptable limits, and blank Quality Assurance/Quality Control (QA/QC) samples were provided periodically to assess field and/or laboratory contamination. The sampling techniques for the data were documented in the previously -referenced site investigation reports, as were the analytical methods, QA/QC procedures, and quantitation limits. Based on this evaluation, the referenced data are considered acceptable for use in this RECAP evaluation.

1.6 IDENTIFICATION OF THE AOC AND COCS

1.6.1 AOC IDENTIFICATION

RECAP SS were compared with analytical results obtained during the previous investigations. Based on the findings from the site work, two preliminary AOCs for soil and groundwater were identified. As indicated previously, one AOC (AOC-2) was established for the evaluation of a possible pathway to an enclosed structure associated with the station building and the other (AOC-1) included the remainder of the site. The results of the Additional Site Investigation for AOC-2 indicated none of the COCs were detected at or above the analytical method reporting limits. Accordingly, evaluation of the potential pathway for vapor from soil and groundwater to an enclosed structure was not required for AOC-2. AOC-1 exhibits constituent concentrations above SS values.

AOC-1 encompasses all the soil borings and monitor wells at the site except for soil borings SB-05 and SB-06, which are located near the tank hold. None of the COCs exceeded the SS at these two locations. The area of soil impact exhibiting constituent concentrations above the SS is less than 0.5 acre in area. RECAP Standards (RS) were developed and compared for all COCs within AOC-1 that exceed their respective SS. The comparison of COC concentrations to the RECAP SO SS is discussed in Section 1.8.1.

1.6.2 IDENTIFICATION OF THE COCs FOR EACH IMPACTED MEDIUM

Petroleum hydrocarbon impact to the site is considered to be from the UST system. The potential COCs have been identified as those petroleum hydrocarbon (gasoline) constituents listed in Table D-1 of the RECAP document. The same constituents serve as COCs for both soil and groundwater. The concentrations of COCs for soil are presented in Table 1, Appendix B. The concentrations of COCs for groundwater are presented in Table 2, Appendix B. The comparisons of COC concentrations to RECAP SO SS are discussed in Section 1.8.1.

1.7 EXPOSURE ASSESSMENT

1.7.1 CURRENT AND FUTURE LAND USE

The current and future land use is industrial. The facility is expected to continue operating as an industrial/commercial property.

1.7.2 GROUNDWATER CLASSIFICATION, POE, AND POC

In accordance with the RECAP document, groundwater at the site is designated as classification 3A non-drinking water based on the following: there is no current or potential use of the water based on water use in the area from the Louisiana Department of Transportation and Development (LDOTD) water well survey; the maximum attainable yield from the stratum is less than 800 gallons per day based on the slug test data (see Appendix C); and groundwater would potentially discharge to a water body that is not used as a drinking water supply.

The potential well yield from the zone of the investigation was estimated with the Cooper and Jacob modification of the Theis equation. The calculation, using the mean K value of 0.070 ft/day, is presented in Appendix C. The results show that a well yield of approximately 36 gallons per day can be expected from the site.

The point of exposure (POE) is defined as the point of discharge from the aquifer to the nearest surface water body. The nearest surface water body to the site is interpreted to be the nearest perennial stream, which is Dawson Creek. This creek is located approximately 1,400 feet south of the site. Dawson Creek is not designated as a drinking water source.

The point of compliance (POC) is a sampling location where the groundwater protection standard is enforced and at which reproducible and representative samples can be obtained. The POC should be located as near to the source as feasible without causing impact to the groundwater. Monitor well MW-2 is the POC for benzene, ethylbenzene, and TPH-GRO, and MW-4 is the POC for MTBE.

1.7.3 DEVELOPMENT OF A CONCEPTUAL MODEL

The conceptual model developed for the site is presented as figure 9, Appendix A. The model includes identification of all sources, source media, migration pathways, exposure media, exposure points/pathways, and receptors. Current and future land use at the site was considered in developing the conceptual model. During the previous investigation activities, a sensitive receptor survey was conducted to identify any biological receptors, natural receptors, and/or subsurface structures (natural or man-made) which might be threatened or affected from the release in the AOC. Additionally, a survey of water wells within an approximate one-mile radius of the site was conducted by reviewing the water well inventory records of the LDOTD. The pertinent migration pathways and receptors are as follows:

Contamination Migration Pathways. The release at the site was to soil and groundwater. Possible man-made pathways for exposure to COCs exist at the site including underground utility corridors and storm drains. Possible migration pathways include several underground utilities along College Drive. Potential natural pathways for exposure include potential surface soil and groundwater.

Exposure routes from soils and groundwater include dermal contact, ingestion and inhalation of outdoor vapors.

Biological Receptors. Plant and animal life in the area consist of domestic species common to the area. Human receptors at the site are expected to be commercial workers and potential short-term construction workers.

Natural Receptors. Natural receptors include groundwater, soil, surface water bodies near the site, and air. It is not likely that surface water would be impacted by groundwater migrating from the site due to the limited extent of the soil and groundwater impact and the distance to the nearest surface water body.

Man-made Receptors. Based on water well survey information obtained from the LDOTD/Water Resources Section, there are 35 water wells registered within a 1-mile

radius of the site. Of those, 25 are registered as monitor wells, eight are registered as observation wells, one is registered as a domestic well, and one is listed as inactive. A 7.5 minute quadrangle map showing the locations of the registered water wells within a one-mile radius of the site is included as Figure 4. The records indicated that although there is one domestic water within one mile of the site, the well is screened at a much greater depth than the impacted interval at the site so it is not likely this well would be impacted by groundwater migrating from the site.

Based on the sensitive receptor survey, the primary potential receptors at the site includes underground utilities adjacent to the AOCs and commercial employees and short-term construction workers during potential construction work involving soil excavation, should this type of work occur.

1.7.4 ESTIMATION OF AREA OF INVESTIGATION AND COMPLIANCE CONCENTRATIONS

The area of investigation concentration (AOIC) for soils represent the highest measured concentrations of the COCs in all soil samples collected from the AOCs. Analytical results for soil samples collected by CRA indicate the zone of petroleum hydrocarbon impact is within the zone of surface soils (0 to 15 feet bgs).

The compliance concentration (CC) for each COC were determined as the highest measured concentrations of the COCs in groundwater samples collected from the soil borings and monitor wells during the two previous investigations.

The AOIC and CC for soil and groundwater, respectively, are presented in Tables 5A and 5B, Appendix B.

1.8 IDENTIFICATION OF THE RECAP STANDARDS FOR EACH IMPACTED MEDIUM

The RECAP standards derived for the AOC for each RECAP management option were determined as follows:

1.8.1 SCREENING OPTION

The RECAP SO SS for each impacted medium (soil and groundwater) at the site were determined based on the site land use scenario, site groundwater classification, and a

determination of risk-based parameters in accordance with the screening option of the RECAP document.

The SS for soils were determined for each applicable COC for the AOC. The site is considered an industrial facility and, therefore, industrial SS values are applicable for the soil ($Soil\_SS_i$) that are protective of human health for contact with surface and potential surface soil. Each $Soil\_SS_i$ was compared with the SS protective of groundwater (Soil_SSGW), and the lowest standard was chosen as the limiting SS. The Soil_SS and SS for groundwater (GW_SS) were taken directly from Table 1 of the RECAP document.

A comparison of the limiting SS with the AOICs and CCs in the AOC-1 and AOC-2 indicates the following:

AOC-1

- Three soil samples exceeded the SS for benzene (the analytical reporting limit exceeded on one of these samples), three samples exceeded for MTBE (the analytical reporting limit exceeded on one of these samples), two samples exceeded for TPH-GRO, and one sample exceeded for SPLP TPH-GRO (see Table 5A, Appendix B). The SPLP result for the benzene method reporting limit that exceeded the SS at MW-1 (2'-4') was less than the SPLP benzene standard (see Table 1).
- One groundwater sample exceeded the SS for benzene, one sample exceeded for ethylbenzene, six samples exceeded for MTBE, and six samples exceeded for TPH-GRO (see Table 5C, Appendix B).

AOC-2

- None of the soil or groundwater samples exceeded the SS for soil or groundwater or were detected at or above the analytical method reporting limits (see Tables 5B and 5D, Appendix B).

The COCs whose AOIC and CC were greater than the respective limiting SS values in AOC-1 were carried forward to the next level of evaluation (RECAP Appendix I).

1.8.2 IDENTIFICATION OF THE APPENDIX I RECAP STANDARDS FOR EACH IMPACTED MEDIUM

The RS for each impacted medium (surface soil, potential surface soil and groundwater) at the site have been determined based on the site land use scenario, site groundwater

classification, and a determination of risk-based parameters in accordance with the Appendix I Option of the RECAP document.

The RS for soils have been calculated for each COC in AOC-1. The site is considered an industrial facility and, as such, industrial values are applicable for the soil, $Soil_i$, that are protective of human health for contact with surface and potential surface soil. Risk-based parameters used to determine the RS include a source width of 30 feet, a source length of 30 feet, and a fractional organic carbon (foc) value of 0.02 (percent organic matter [2.70] divided by 174). The geotechnical laboratory report was included in Appendix A of the Additional Site Investigation Report dated January 2004. Based on this information, the initial values for $Soil_i$ RS were selected from the Category 12 Table in RECAP Appendix I as determined from RECAP Figure I-1. The values are listed in Table 6A, Appendix B.

The Appendix I RS for soil concentrations protective of groundwater discharging to surface water, $Soil_{GW3NDW}$, were calculated using the source dimensions and the distance from the POC to the POE. As previously noted (Section 1.7.2), the distance between the POE and POC, is approximately 1,400 feet. Based on this information, and a source length of less than 30 feet with an f_{oc} value of 0.02, the initial $Soil_{GW3NDW}$ values for the COCs were determined from the Category 12 Table in RECAP Appendix I as determined from RECAP Figure I-1. The source width of less than 30 feet determined a DAF of 1,902 for AOC-1 from RECAP Figure I-2. The DAF of 1,902 was applied to the $Soil_{GW3NDW}$ values to calculate an Adjusted $Soil_{GW3NDW}$ RS for each COC. The $Soil_{sat}$ values for the COCs were also determined from the Category 12 Table. The values for the $Soil_{GW3NDW}$ and $Soil_{sat}$ soil RS are presented in Table 6A, Appendix B.

The Appendix I RS for groundwater protective of potential discharge of constituents to surface water was determined with the same source dimensions and the distance from the POC to the POE as the soil evaluation. Based on site parameters, including the source length of less than 30 feet and f_{oc} value of 0.02, the initial GW_{3NDW} RS were selected from the Category 12 table, as determined from the Figure I-1 of RECAP Appendix I. The DAF of 1,902 was determined from RECAP Figure I-2 and was applied to the GW_{3NDW} RS values from the Category 12 table to calculate an Adjusted GW_{3NDW} RS for each COC. The standard that limits a constituent to its solubility in water, GW_S, was determined from the Category 12 table, where applicable. The values for groundwater RS are presented in Table 6B, Appendix B.

1.8.3 ADJUSTMENT OF RISK-BASED RS

Adjustments to the applicable RS values identified above are required to account for additivity if more than one constituent present in the soil or groundwater elicits non-carcinogenic effects on the same target organ/system. The Adjusted $Soil_i$ standards to account for the effects of additivity based on the target organs for each COC as presented in Table 7A. However, if the sum of the Hazard Index of all COCs for each target organ system is less than 1.0, then the adjustment for additive effects is not necessary. In this report, the Hazard Indices for all COCs for each target organ system were totaled in Table 7B, Appendix B. The maximum total Hazard Index for $Soil_i$ was less than 1.0. Therefore, there was no need to account for additivity for the $Soil_i$ standard. Adjustments to groundwater RS for the additive effects are not necessary for RS based on groundwater classified as GW_{3NDW}.

1.8.4 IDENTIFICATION OF THE LIMITING RS

The limiting RS were determined for surface and potential surface soil in AOC-1 by comparing the Adjusted $Soil_i$, Adjusted $Soil_{GW3NDW}$, and $Soil_{sat}$ RS, and the lowest of these RS values was selected as the limiting RS. The limiting RS for soil are presented in Table 6A, Appendix B.

The limiting RS were determined for groundwater in AOC-1 by comparing the RS for water solubility of applicable constituents and the Adjusted GW_{3NDW} RS values and the lowest of these RS values was selected as the limiting RS. The limiting RS for the groundwater are presented in Table 6B, Appendix B.

1.8.5 COMPARISON OF THE LIMITING RS TO THE SITE CONCENTRATIONS

A comparison of the Limiting RS concentrations with the AOIC data for soil and CC for groundwater for the AOC are presented in Table 8, Appendix B. The comparison demonstrates that none of the COCs in soil or groundwater exceed the Limiting RS.

1.9 ECOLOGICAL EVALUATION

In accordance with the RECAP document requirements, an Ecological Checklist was completed for the site in order to make an initial determination of whether an ecological

risk assessment would be required. Based on site conditions and the checklist assessment criteria, it appears that no additional ecological assessment activities will be required at the site. A copy of the completed Ecological Checklist is included as Appendix E.

2.0 SUMMARY OF FINDINGS

An LDEQ RECAP evaluation of the Chevron Service Station No. 60109060 located at 2929 College Drive in Baton Rouge, East Baton Rouge Parish, Louisiana has been completed. AOC-1 is rectangular in shape and less than 0.5 acre in size. The evaluation was completed using Appendix I of the October 20, 2003, LDEQ RECAP. As a result of the RECAP evaluation, site specific RS were developed for each COC. The RS were compared to COC concentrations resulting from a subsurface site investigation conducted by CRA and reported to the LDEQ in May 2003 and January 2004. The comparison indicates none of the COCs exceed the site specific limiting RS in soil and groundwater.

3.0 RECOMMENDATIONS

Based on the results of this RECAP evaluation, CRA respectfully requests a No Further Action - At This Time (NFA-ATT) status for this site.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

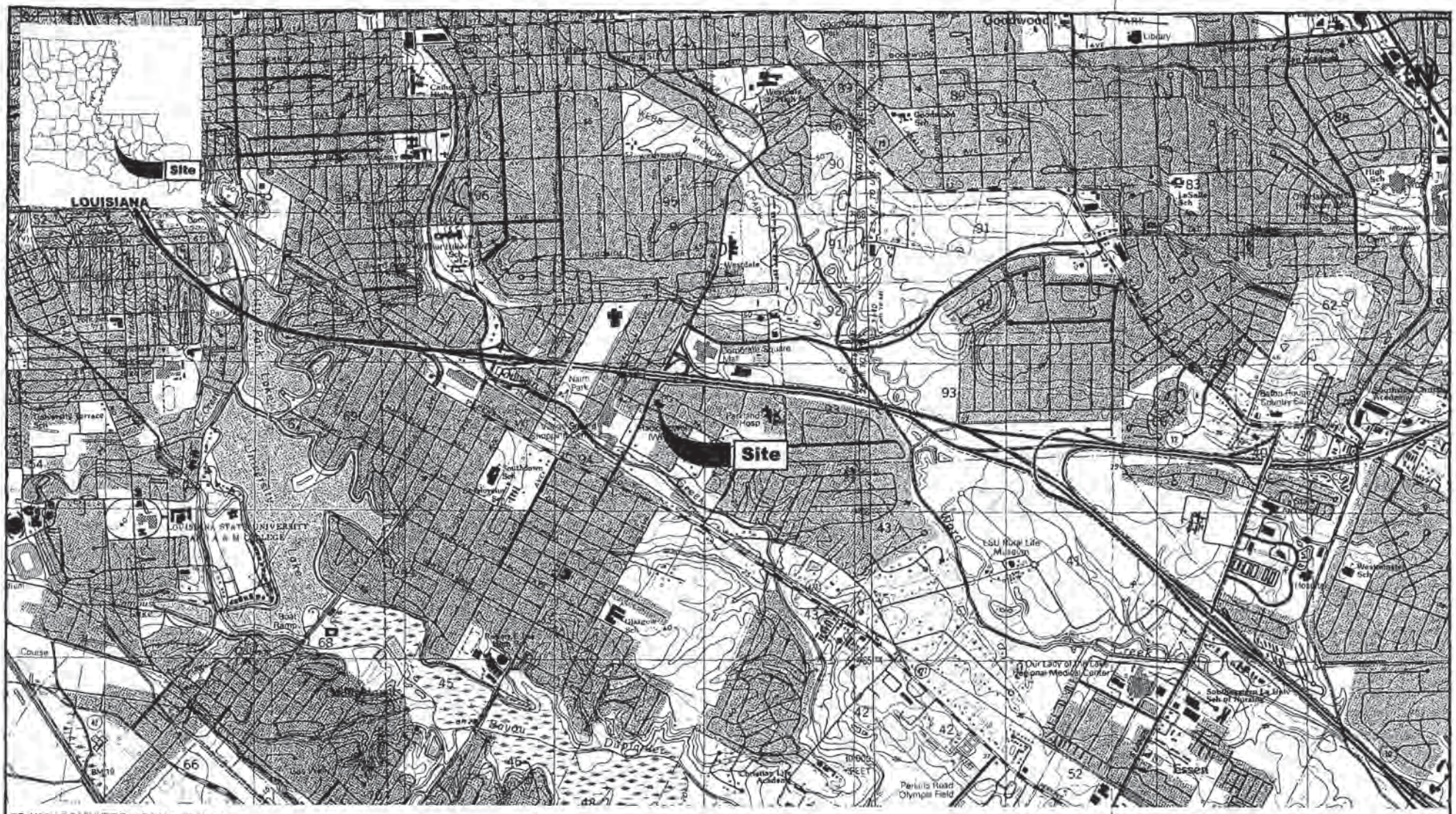
Seth P. Domangue

Calvin R. Wiggs, PG

Thomas B. Powers, PG

APPENDIX A

FIGURES



RE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS,
"BATON ROUGE EAST, LA" AND "BATON ROUGE WEST, LA".

0 1000 2000 Feet

figure 1
VICINITY MAP
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

27453-01(004)PR-BR003 MAR 11/2004

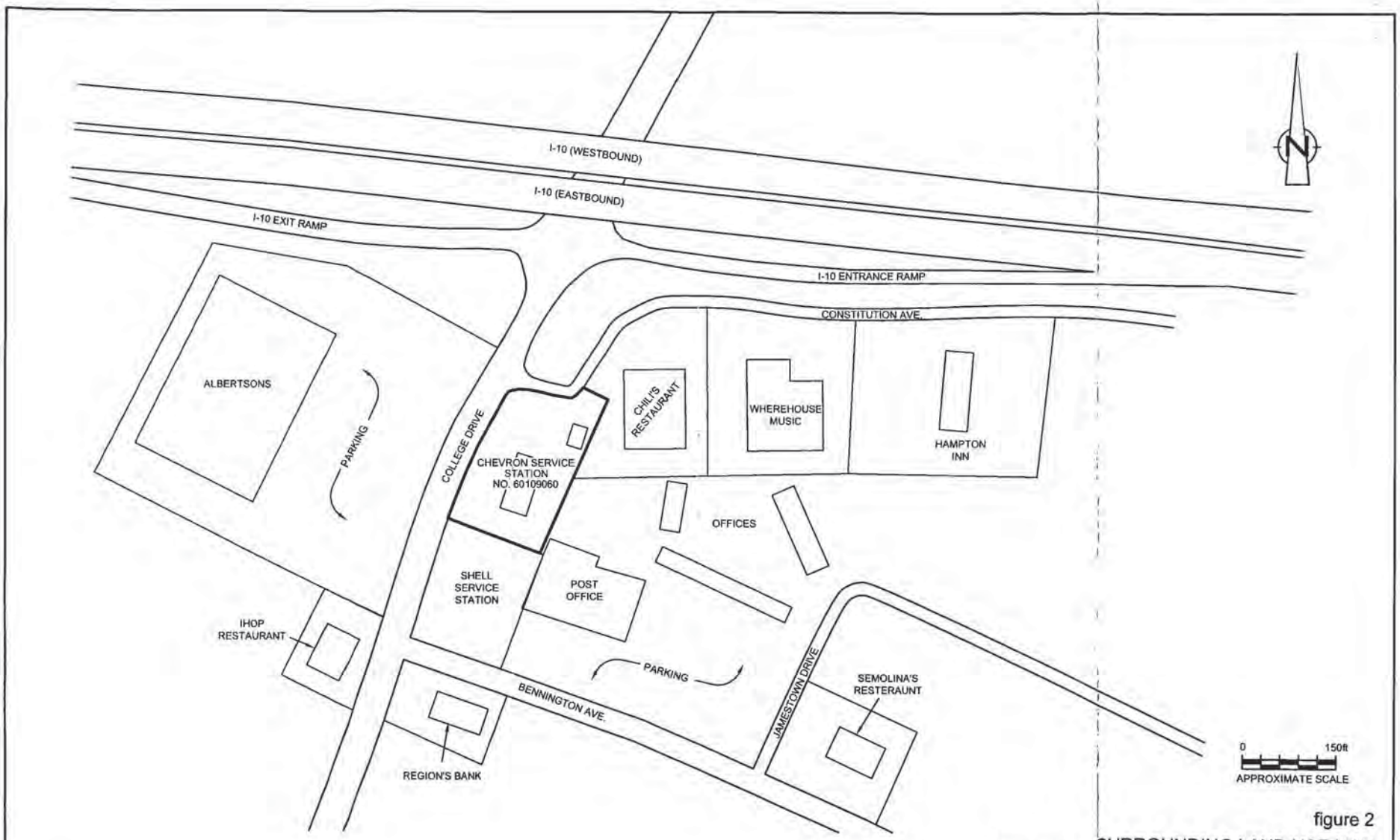


figure 2

SURROUNDING LAND USE MAP
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: CRA SITE VISIT.

27453-01(004)GN-BR007 APR 29/2004

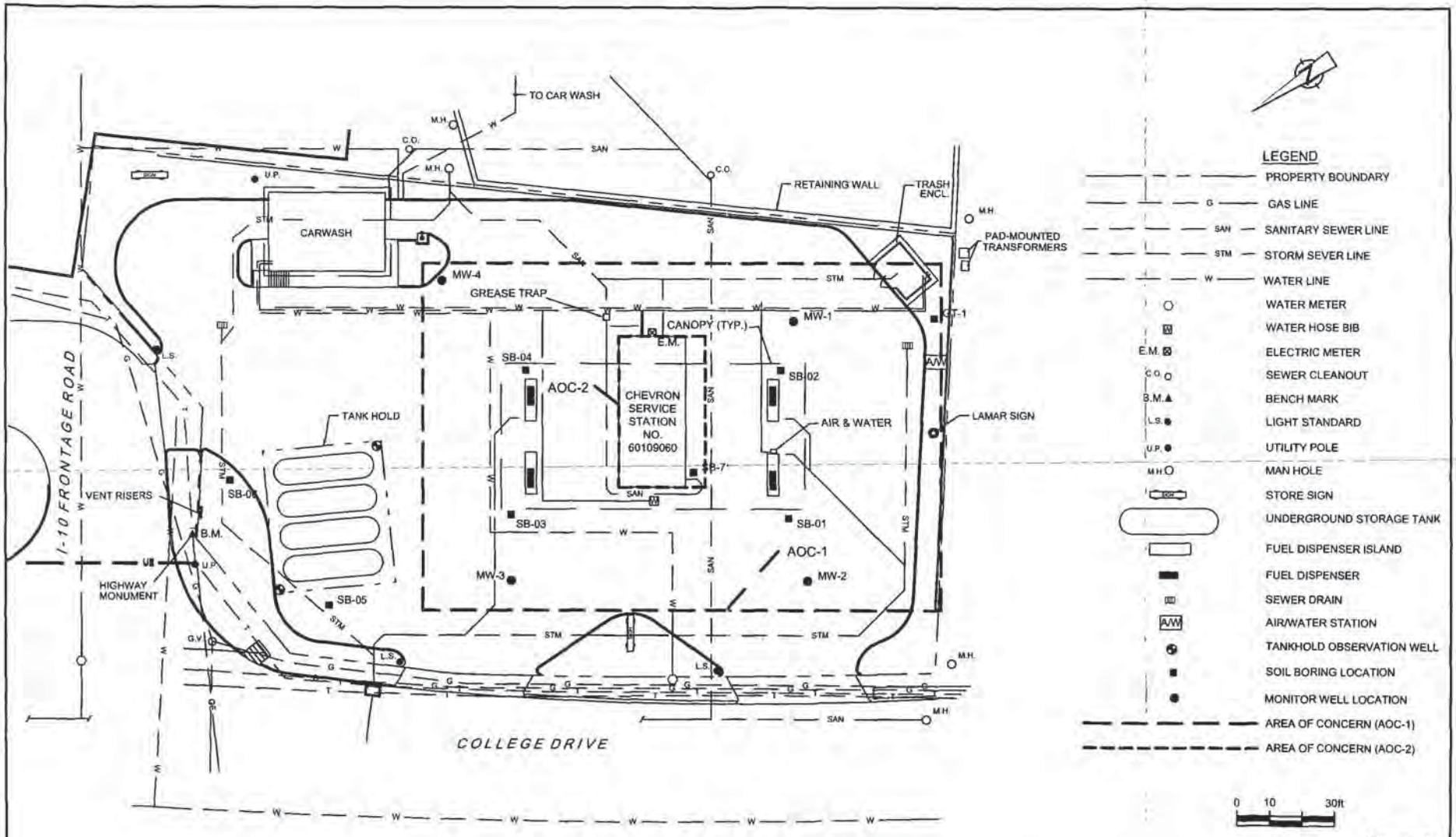
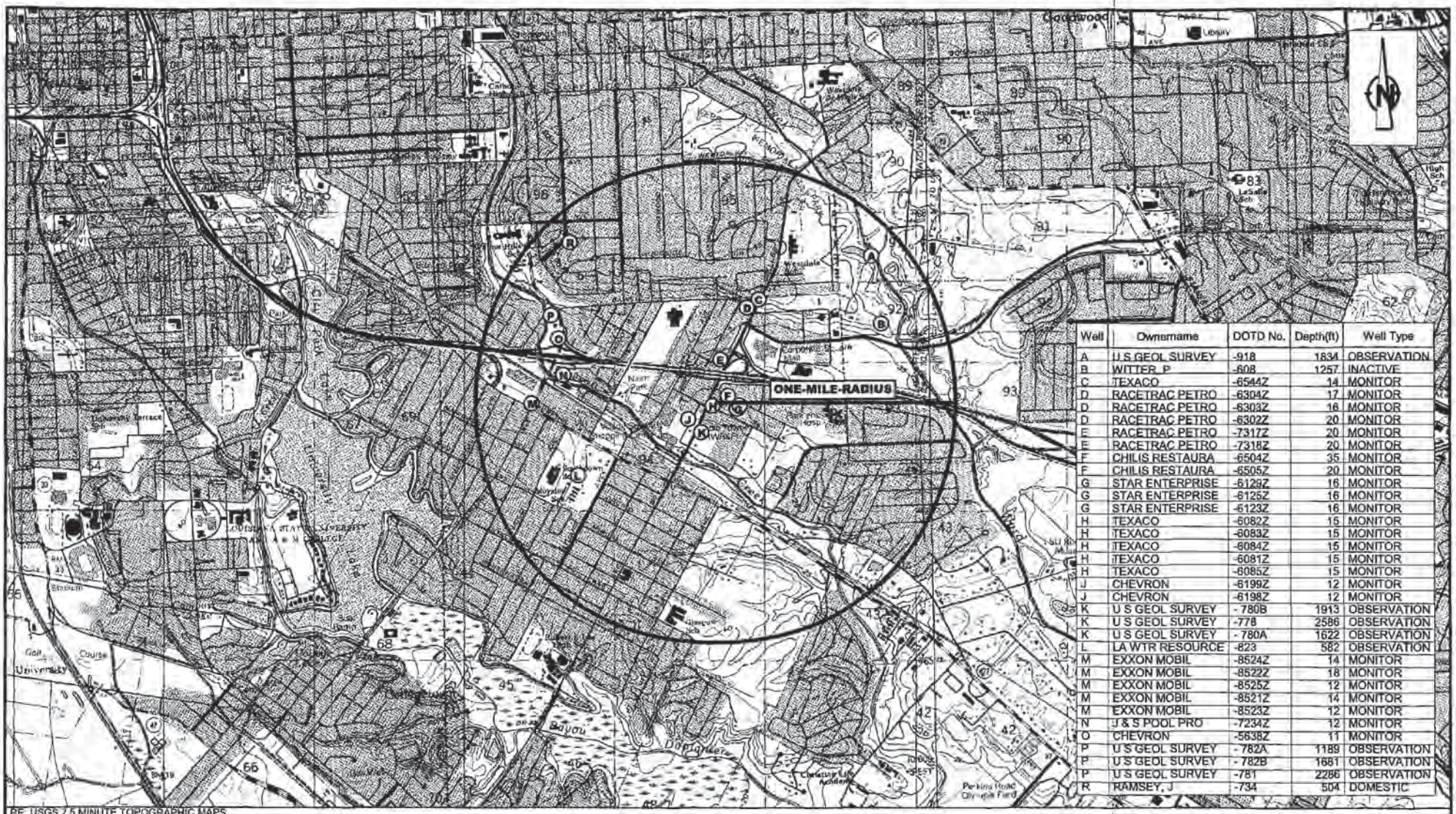


figure 3

SITE PLAN
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA242U4, "EXTERIOR PIPING & ELECTRICAL PLAN".

27453-01(004)GN-BR001 MAR 10/2004



Well	Ownername	DOTD No.	Depth(ft)	Well Type
A	U S GEOL SURVEY	-918	1834	OBSERVATION
B	WITTER, P	-608	1257	INACTIVE
C	TEXACO	-6544Z	14	MONITOR
D	RACETRAC PETRO	-6304Z	17	MONITOR
D	RACETRAC PETRO	-6303Z	16	MONITOR
D	RACETRAC PETRO	-6302Z	20	MONITOR
E	RACETRAC PETRO	-7317Z	20	MONITOR
E	RACETRAC PETRO	-7318Z	20	MONITOR
F	CHILIS RESTAURA	-6504Z	35	MONITOR
F	CHILIS RESTAURA	-6505Z	20	MONITOR
G	STAR ENTERPRISE	-6129Z	16	MONITOR
G	STAR ENTERPRISE	-6125Z	16	MONITOR
G	STAR ENTERPRISE	-6123Z	16	MONITOR
H	TEXACO	-6082Z	15	MONITOR
H	TEXACO	-6083Z	15	MONITOR
H	TEXACO	-6084Z	15	MONITOR
H	TEXACO	-6081Z	15	MONITOR
H	TEXACO	-6085Z	15	MONITOR
J	CHEVRON	-6199Z	12	MONITOR
J	CHEVRON	-6198Z	12	MONITOR
K	U S GEOL SURVEY	- 780B	1913	OBSERVATION
K	U S GEOL SURVEY	-778	2586	OBSERVATION
K	U S GEOL SURVEY	- 780A	1622	OBSERVATION
L	LA WTR RESOURCE	-823	582	OBSERVATION
M	EXXON MOBIL	-8524Z	14	MONITOR
M	EXXON MOBIL	-8522Z	18	MONITOR
M	EXXON MOBIL	-8525Z	12	MONITOR
M	EXXON MOBIL	-8521Z	14	MONITOR
M	EXXON MOBIL	-8523Z	12	MONITOR
N	J & S POOL PRO	-7234Z	12	MONITOR
O	CHEVRON	-5638Z	11	MONITOR
P	U S GEOL SURVEY	- 782A	1189	OBSERVATION
P	U S GEOL SURVEY	- 782B	1681	OBSERVATION
P	U S GEOL SURVEY	-781	2286	OBSERVATION
R	RAMSEY, J	-734	504	DOMESTIC

RE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS, "BATON ROUGE EAST, LA" AND "BATON ROUGE WEST, LA".

WATER WELL DATA FROM LADOTD WATER WELL DATABASE DATED SEPTEMBER 2003.

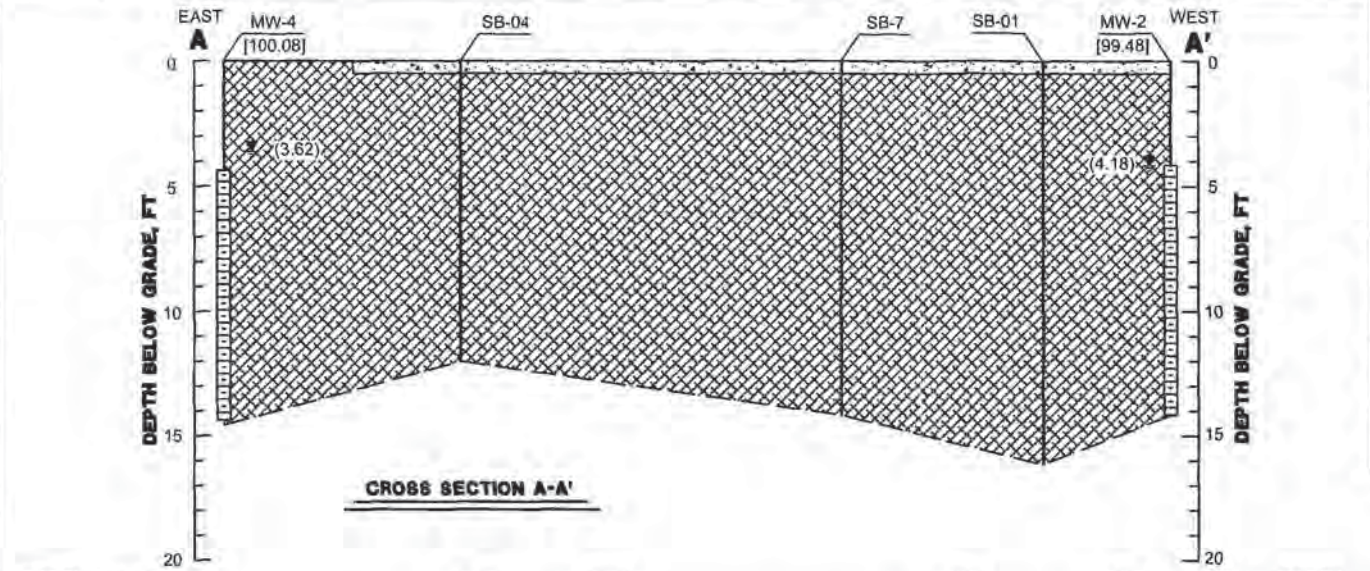
1000 0 1000 2000 Feet

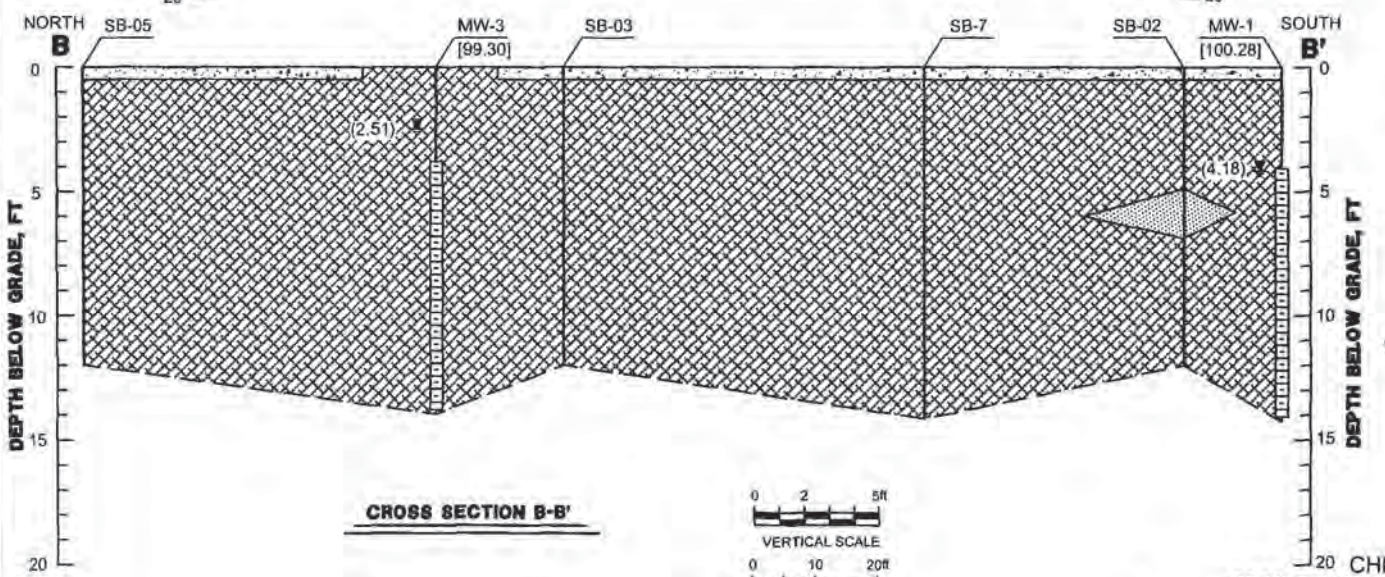
LEGEND

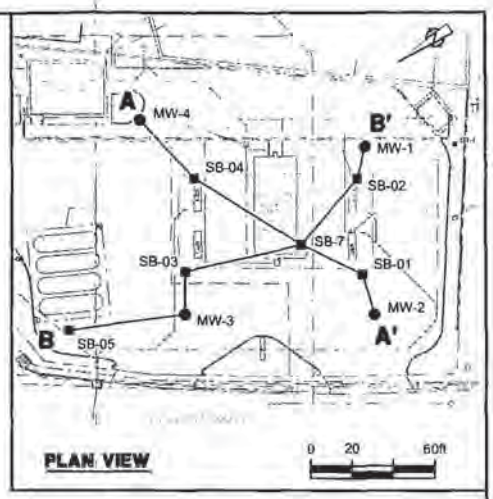
REGISTERED WATER WELL

figure 4
WATER WELL MAP
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

27453-01(004)PR-BR002 MAR 11/2004







LEGEND

- SOIL BORING LOCATION
- MONITOR WELL LOCATION
- [98.81] TOP OF CASING (TOC) ELEVATION, FT
- WELL SCREEN
- GROUNDWATER POTENTIOMETRIC SURFACE, BELOW GROUND SURFACE, DECEMBER 9, 2003
- (3.62) DEPTH OF GROUNDWATER, BELOW GROUND SURFACE
- CONCRETE PAVEMENT
- SILTY CLAY
- SAND

NOTE: 1) ELEVATION BASED ON ARBITRARY BENCHMARK WITH AN ASSIGNED ELEVATION OF 100.00 FT.
2) SOIL STRATIFICATION IS SIMPLIFIED AND INFERRED BETWEEN BOREHOLES. ACTUAL CONDITIONS MAY VARY.
3) REFER TO INDIVIDUAL BORING LOGS FOR DETAILS.

figure 5

SOIL PROFILE CROSS SECTIONS
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

27453-01(004)GN-BR006 MAR 11/2004

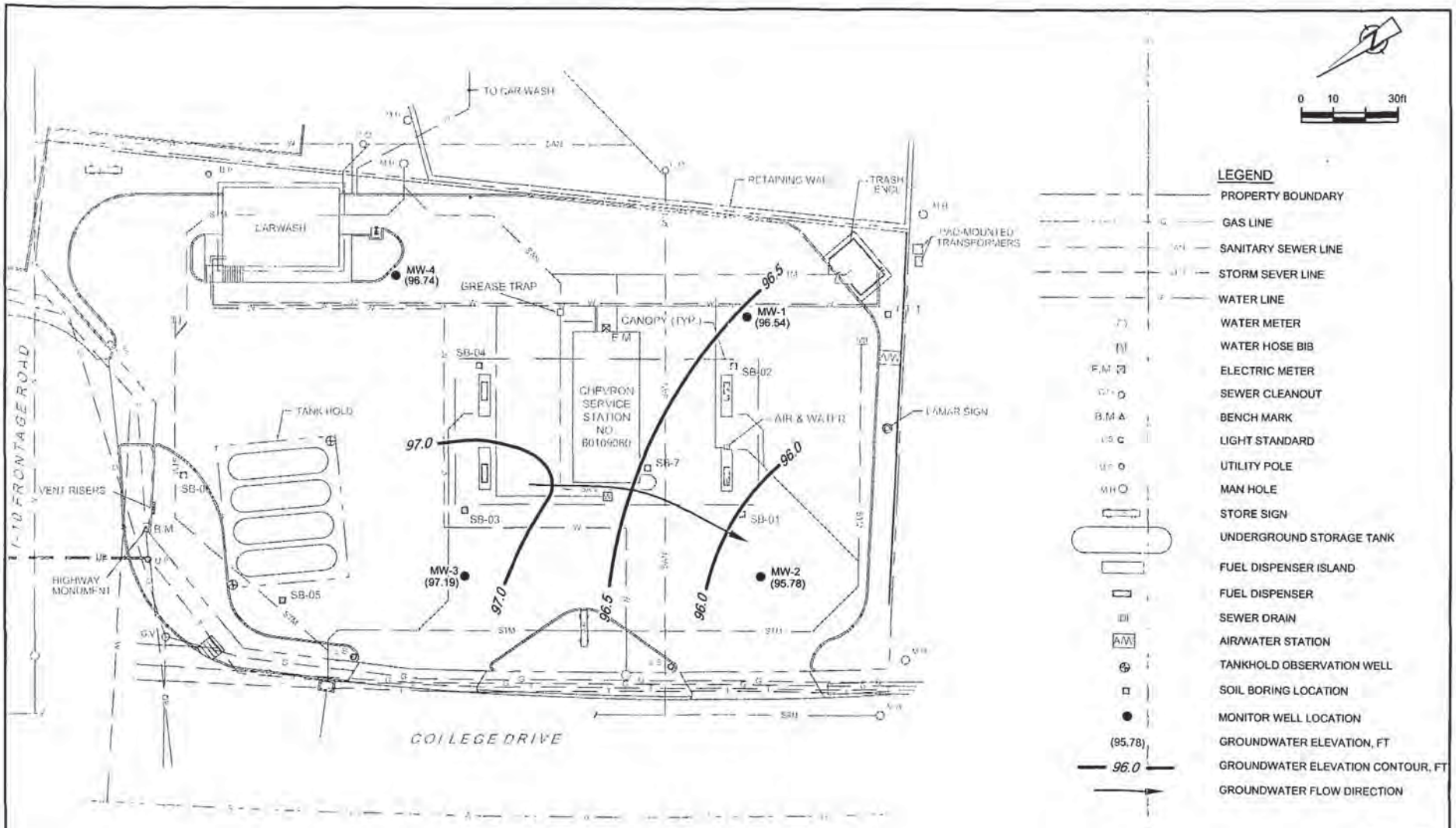
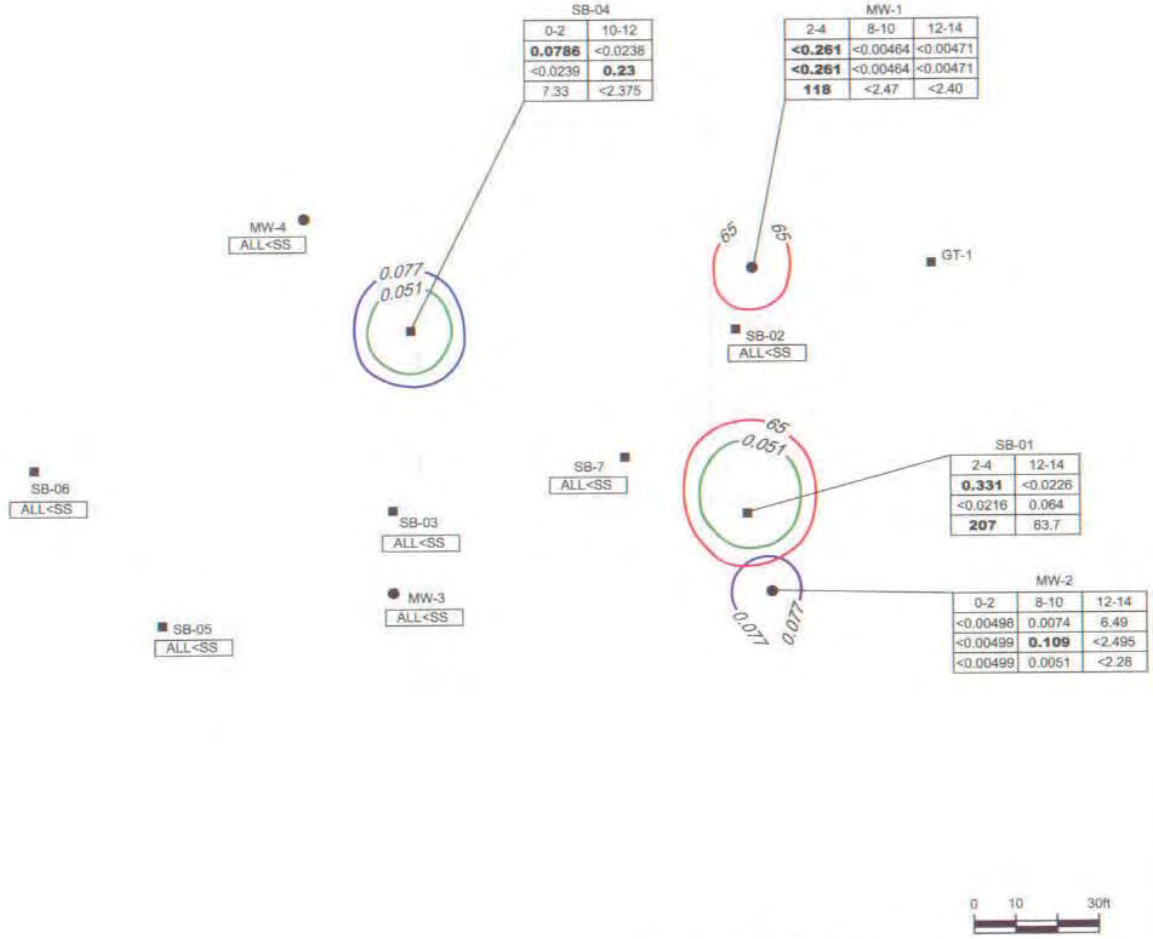


figure 6

GROUNDWATER POTENTIOMETRIC ELEVATIONS AND CONTOURS, DECEMBER 9, 2003
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA242U4, "EXTERIOR PIPING & ELECTRICAL PLAN".

27453-01(004)GN-BR002 MAR 10/2004



LEGEND

PROPERTY BOUNDARY
GAS LINE
SANITARY SEWER LINE
STORM SEVER LINE
WATER LINE
WATER METER
WATER HOSE BIB
ELECTRIC METER
SEWER CLEANOUT
BENCH MARK
LIGHT STANDARD
UTILITY POLE
MAN HOLE
STORE SIGN
UNDERGROUND STORAGE TANK
FUEL DISPENSER ISLAND
FUEL DISPENSER
SEWER DRAIN
AIR/WATER STATION
TANKHOLD OBSERVATION WELL
SOIL BORING LOCATION
MONITOR WELL LOCATION

SAMPLE DEPTH, FT
BENZENE CONCENTRATION, mg/kg
MTBE CONCENTRATION, mg/kg
TPH-GRO CONCENTRATION, mg/kg

ALL <SS — ALL COC CONCENTRATIONS ARE LESS THAN THE RECAP SCREENING STANDARS

0.051 — BENZENE ISOPLETH, mg/L

0.077 — MTBE ISOPLETH, mg/L

65 — TPH-GRO ISOPLETH, mg/L

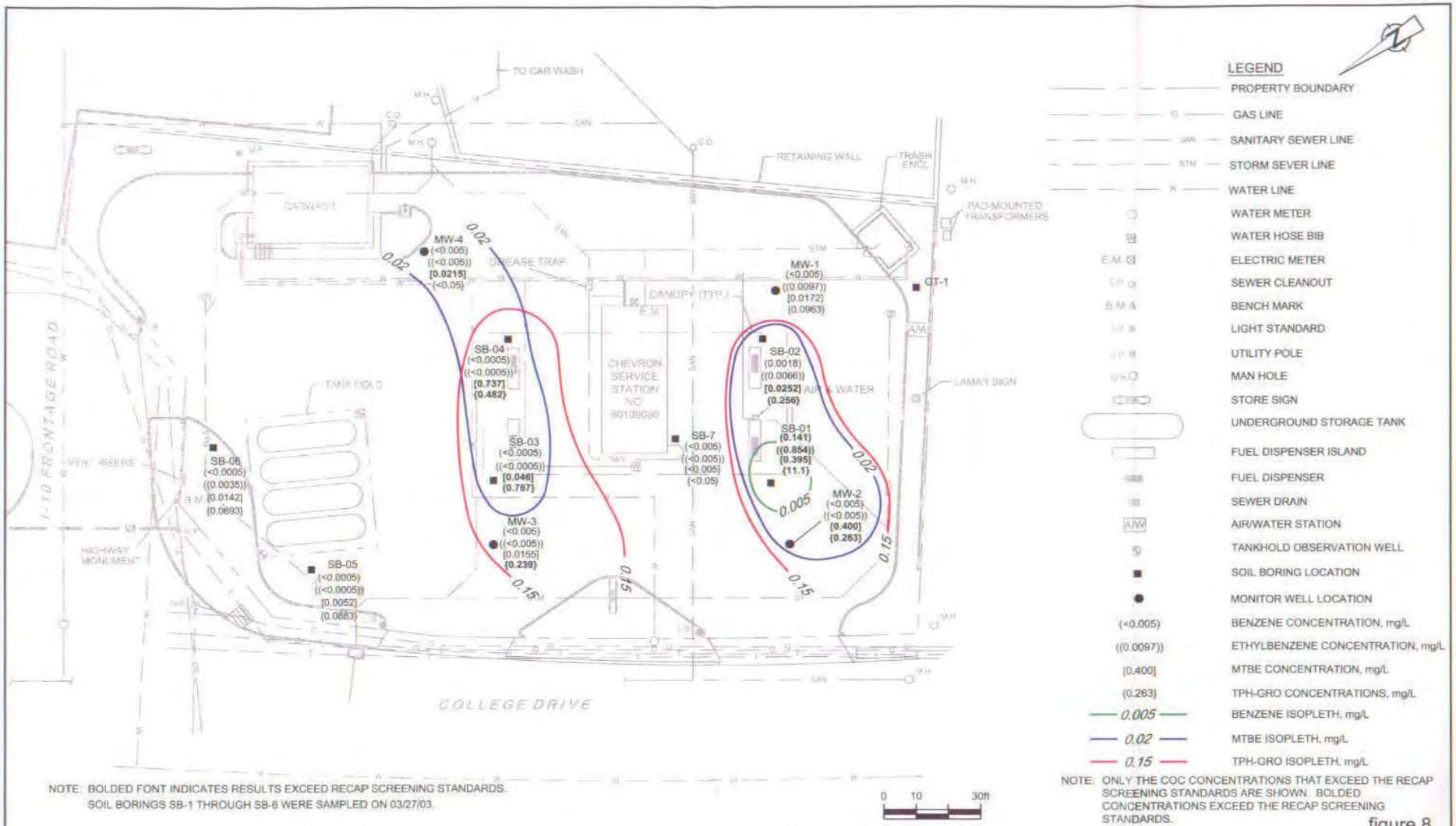
NOTE: ONLY THE COC CONCENTRATIONS THAT EXCEED THE RECAP SCREENING STANDARDS ARE SHOWN. BOLDED CONCENTRATIONS EXCEED THE RECAP SCREENING STANDARDS.

figure 7

BENZENE, MTBE, AND TPH-GRO CONCENTRATIONS AND ISOPLETHS FOR SOIL 0'-15'
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA242U4, "EXTERIOR PIPING & ELECTRICAL PLAN".

27453-01(004)GN-BR003 MAR 11/2004



LEGEND

- PROPERTY BOUNDARY
- GAS LINE
- SANITARY SEWER LINE
- STORM SEVER LINE
- WATER LINE
- WATER METER
- WATER HOSE BIB
- ELECTRIC METER
- SEWER CLEANOUT
- BENCH MARK
- LIGHT STANDARD
- UTILITY POLE
- MAN HOLE
- STORE SIGN
- UNDERGROUND STORAGE TANK
- FUEL DISPENSER ISLAND
- FUEL DISPENSER
- SEWER DRAIN
- AIR/WATER STATION
- TANKHOLD OBSERVATION WELL
- SOIL BORING LOCATION
- MONITOR WELL LOCATION
- (<0.005) BENZENE CONCENTRATION, mg/L
- ((0.0097)) ETHYLBENZENE CONCENTRATION, mg/L
- [0.400] MTBE CONCENTRATION, mg/L
- {0.263} TPH-GRO CONCENTRATIONS, mg/L
- 0.005 BENZENE ISOPLETH, mg/L
- 0.02 MTBE ISOPLETH, mg/L
- 0.15 TPH-GRO ISOPLETH, mg/L

NOTE: BOLDED FONT INDICATES RESULTS EXCEED RECAP SCREENING STANDARDS.
SOIL BORINGS SB-1 THROUGH SB-6 WERE SAMPLED ON 03/27/03.

NOTE: ONLY THE COC CONCENTRATIONS THAT EXCEED THE RECAP SCREENING STANDARDS ARE SHOWN. BOLDED CONCENTRATIONS EXCEED THE RECAP SCREENING STANDARDS.

figure 8

GROUNDWATER BENZENE, ETHYLBENZENE, MTBE, AND TPH-GRO CONCENTRATIONS AND ISOPLETHS, DECEMBER 9, 2003
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

RE: ADAPTED FROM MORRIS & ASSOCIATES, INC. FIGURE CCA242U4, "EXTERIOR PIPING & ELECTRICAL PLAN".

27453-01(004)GN-BR004 APR 29/2004

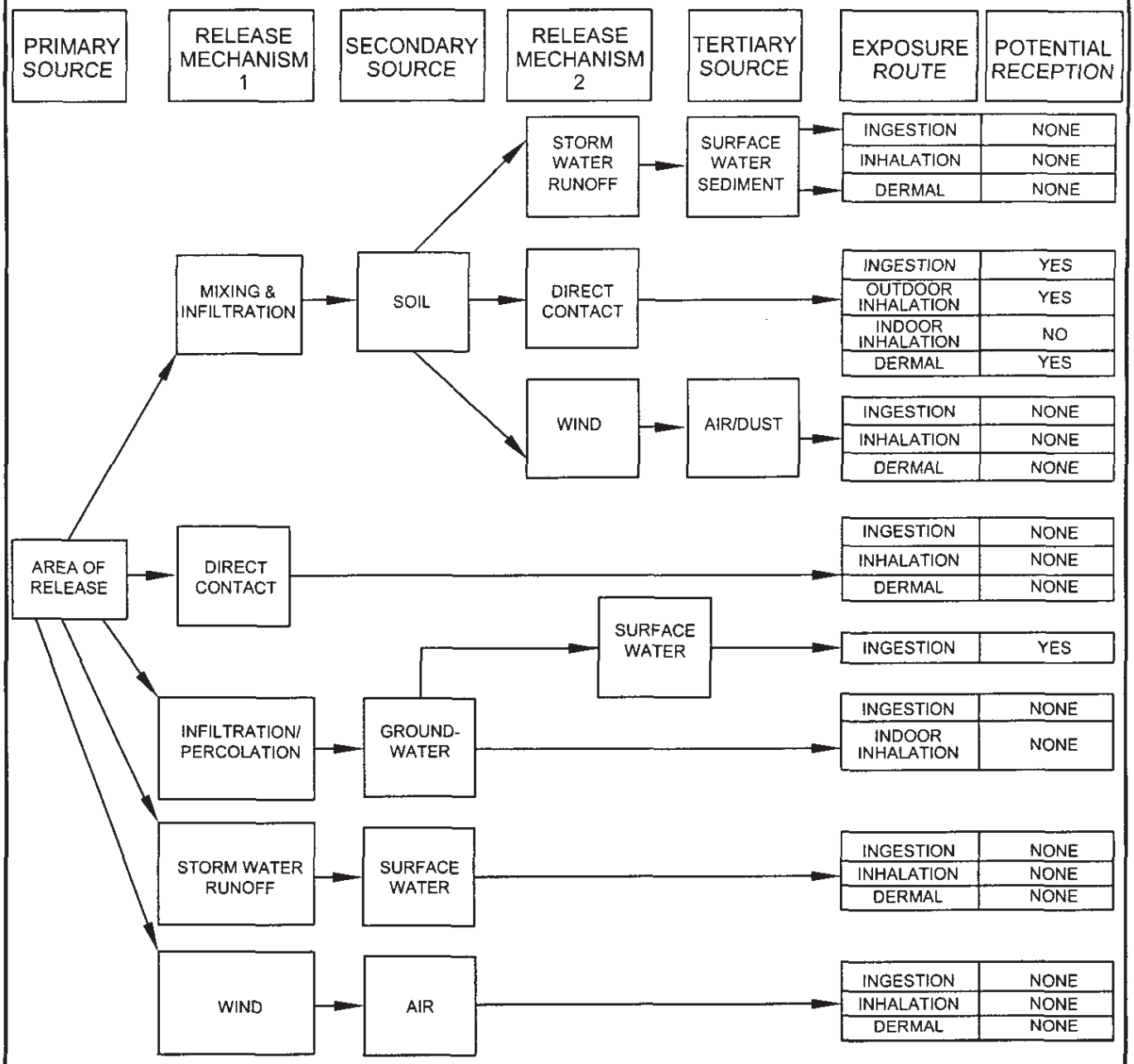


figure 9

CONCEPTUAL SITE MODEL
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE, BATON ROUGE, LOUISIANA
Chevron Environmental Management Company, Houston, Texas

27453-01(004)GN-BR005 APR 29/2004

APPENDIX B

TABLES

TABLE 1

SOIL SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Boring (depth, ft)	Sample Date	Parameter							
		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TPH-GRO (mg/kg)	SPLP Benzene (mg/L)	SPLP TPH-GRO (mg/L)
		*0.051**	*20**	*19**	*150**	*0.077**	*65**	*0.1***	*6.8***
SB-01 (2' - 4')	03/27/03	**0.331**	<0.0216	9.42	1.05	<0.0216	**207**	NA	NA
SB-01 (12' - 14')	03/27/03	<0.0226	<0.0226	1.11	<0.0226	0.064	63.7	NA	NA
SB-02 (2' - 4')	03/27/03	<0.0238	<0.0238	0.0812	<0.0238	<0.0238	10.8	NA	NA
SB-02 (10' - 12')	03/27/03	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<2.39	NA	NA
SB-03 (0' - 2')	03/27/03	<0.0264	<0.0264	<0.0264	<0.0264	<0.0264	7.59	NA	NA
SB-03 (10' - 12')	03/27/03	<0.0298	<0.0298	<0.0298	<0.0298	<0.0298	<2.975	NA	NA
SB-04 (0' - 2')	03/27/03	**0.0786**	0.122	0.177	0.1652	<0.0239	7.33	NA	NA
SB-04 (10' - 12')	03/27/03	<0.0238	<0.0238	<0.0238	<0.0238	**0.23**	<2.375	NA	NA
SB-05 (0' - 2')	03/27/03	<0.0236	<0.0236	<0.0236	<0.0236	<0.0236	5.8	NA	NA
SB-05 (10' - 12')	03/27/03	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<2.62	NA	NA
SB-06 (0' - 2')	03/27/03	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<2.215	NA	NA
SB-06 (10' - 12')	03/27/03	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<2.385	NA	NA
MW-1 (2' - 4')	11/18/03	**<0.261**	<0.261	7.70	1.23	**<0.261**	**118**	<0.05	**14**
MW-1 (8' - 10')	11/18/03	<0.00464	<0.00464	<0.00464	<0.00464	<0.00464	<2.47	NA	NA
MW-1 (12' - 14')	11/18/03	<0.00471	<0.00471	<0.00471	<0.00471	<0.00471	<2.40	NA	NA
MW-2 (0' - 2')	11/18/03	<0.00498	<0.00498	<0.00498	<0.00498	0.0074	6.49	NA	NA
MW-2 (8' - 10')	11/18/03	<0.00499	<0.00499	<0.00499	<0.00499	**0.109**	<2.495	NA	NA
MW-2 (12' - 14')	11/18/03	<0.00499	<0.00499	<0.00499	<0.00499	0.0051	<2.28	NA	NA

TABLE 1

SOIL SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

		Parameter							
Boring (depth, ft)	*Sample Date*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethylbenzene (mg/kg)*	*Xylenes (mg/kg)*	*MTBE (mg/kg)*	*TPH-GRO (mg/kg)*	*SPLP Benzene (mg/L)*	*SPLP TPH-GRO (mg/L)*
		*0.051**	*20**	*19**	*150**	*0.077**	*65**	*0.1***	*6.8***
MW-3 (2' - 4')	11/18/03	<0.00503	<0.00503	0.0183	<0.00503	0.0069	9.53	NA	NA
MW-3 (8' - 10')	11/18/03	<0.00484	<0.00484	<0.00484	<0.00484	<0.00484	<2.595	NA	NA
MW-3 (12' - 14')	11/18/03	<0.00452	<0.00452	<0.00452	<0.00452	<0.00452	<2.325	NA	NA
MW-4 (0' - 2')	11/18/03	<0.00486	<0.00486	<0.00486	<0.00486	<0.00486	<2.46	NA	NA
MW-4 (6' - 8')	11/18/03	<0.00522	<0.00522	<0.00522	<0.00522	<0.00522	<2.32	NA	NA
MW-4 (12' - 14')	12/03/03	<0.00481	<0.00481	<0.00481	<0.00481	<0.00481	<2.275	NA	NA
SB-7 (8' - 10')	12/03/03	<0.00482	<0.00482	<0.00482	<0.00482	<0.00482	<2.40	NA	NA
SB-7 (12' - 14')	12/03/03	<0.00493	<0.00493	<0.00493	<0.00493	<0.00493	<2.37	NA	NA

MTBE = methyl tertiary butyl ether
NA = Not Analyzed
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
SPLP = Synthetic Precipitation Leaching Procedure
mg/kg = Milligrams per kilogram, which is equivalent to parts per million (ppm).
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
* Screening Standards specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
** Screening Standards for SPLP extracts were derived by multiplying the RECAP MO-1 GW1 Standard by a default dilution factor of 20.
Bold font with shading indicates result exceeds RECAP Screening Standard.

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Sample Number	Sample Date	Parameter					
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TPH-GRO (mg/L)
		0.005*	1.0*	0.7*	10*	0.02*	0.15*
SB-01	03/27/03	**0.141**	0.0161	**0.854**	0.259	**0.395**	**11.1**
SB-02	03/27/03	0.0018	0.00087	0.0066	0.0017	**0.0252**	**0.256**
SB-03	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	**0.046**	**0.767**
SB-04	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	**0.737**	**0.482**
SB-05	03/27/03	<0.0005	<0.0005	<0.0005	<0.0005	0.0052	0.0883
SB-06	03/27/03	<0.0005	0.0012	0.0035	0.0117	0.0142	0.0693
MW-1	12/09/03	<0.005	<0.005	0.0097	<0.005	0.0172	0.0963
MW-2	12/09/03	<0.005	<0.005	<0.005	<0.005	**0.400**	**0.263**
MW-3	12/09/03	<0.005	<0.005	<0.005	<0.005	0.0155	**0.239**
MW-4	12/09/03	<0.005	<0.005	<0.005	<0.005	**0.0215**	<0.05
SB-7	12/03/03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
* Screening Standards specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
Bold font with shading indicates result exceeds RECAP Screening Standard.

TABLE 3

MONITOR WELL INSTALLATION DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Well I.D.	*Date of Installation*	*Well Depth*	*Ground Surface Elevation*	*Top-of-Casing Elevation* (1)	*Groundwater Elevation at Development*	*Screen Interval Elevation*	*Latitude*	*Longitude*
MW-1	11/18/03	14.3	100.72	100.28	96.54	96.62 to 86.62	N30°25'18"	W91°08'24"
MW-2	11/18/03	14.2	99.96	99.48	95.78	95.96 to 85.96	N30°25'18"	W91°08'24"
MW-3	11/18/03	14.0	99.70	99.30	97.19	95.90 to 85.90	N30°25'18"	W91°08'24"
MW-4	11/18/03	14.6	100.36	100.08	96.74	95.96 to 85.96	N30°25'18"	W91°08'24"

Notes:

(1) Elevations are relative to a project bench mark with an assigned elevation of 100.00 ft.

(2) All dimensions are in feet.

(3) All wells constructed of 2-inch diameter, Schedule 40 PVC casing and screen.

(4) All wells were developed with the use of a PVC surge block.

TABLE 4

MONITOR WELL SAMPLING DATA
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

MONITOR WELL ID NUMBER	*MW-1*	*MW-2*	*MW-3*	*MW-4*
DOTD ID NUMBER	N/A	N/A	N/A	N/A
DATE SAMPLED	12/09/03	12/09/03	12/09/03	12/09/03
TOP OF CASING ELEVATION (ft)[1]	100.28	99.48	99.30	100.08
STATIC WATER LEVEL (ft below TOC)	3.74	3.70	2.11	3.34
TOTAL DEPTH (ft below TOC)	14.30	14.20	14.00	14.60
STATIC WATER ELEVATION (ft)	96.54	95.78	97.19	96.74
FREE PRODUCT THICKNESS (ft)	None	None	None	None
FREE PRODUCT ELEVATION (ft)	N/A	N/A	N/A	N/A
PURGE METHOD	PVC Bailer	PVC Bailer	PVC Bailer	PVC Bailer
ACTUAL PURGE VOLUME (Gal)	5.0*	5.0*	5.0*	5.0*
SAMPLING METHOD	Grab	Grab	Grab	Grab
EQUIPMENT USED	Polyethylene Bailer	Polyethylene Bailer	Polyethylene Bailer	Polyethylene Bailer
PRODUCT RECOVERED (Gal)	None	None	None	None

* Well purged dry

N/A = Not Available; Not Applicable

Note: [1]Top-of-Casing elevations referenced to an on-site bench mark with an assigned elevation of 100.00'.

TABLE 5A

AREA OF INVESTIGATION CONCENTRATIONS FOR EACH SOIL MEDIUM
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Constituent of Concern (mg/kg)	*RECAP Limiting Screening Standard* [1]	*Area of Investigation Concentration* [2]	
		AOC-1	AOC-2
		Depth Interval in Feet	*Depth Interval in Feet*
		0 - 15	*0 - 15*
Benzene	0.051	**0.331**	<0.00493
Toluene	20	0.122	<0.00493
Ethylbenzene	19	9.42	<0.00493
Xylenes	150	1.23	<0.00493
MTBE	0.077	**<0.261**	<0.00493
TPH-GRO	65	**207**	<2.40

MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
Notes: [1] LDEQ Screening Standards are derived from the LDEQ's June 20, 2000, Risk Evaluation/ Corrective Action Program (RECAP) Table 1 Screening Standards for Soil and Groundwater.
[2] The reported soil Area of Investigation concentrations are the maximum concentrations encountered for each constituent of concern from samples collected during the site investigations.
Results shown in bold type exceed the RECAP Screening Standard, RECAP Table 1.

TABLE 5B

GROUNDWATER COMPLIANCE CONCENTRATIONS
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Constituent of Concern (mg/L)	*RECAP Limiting Screening Standard* [1]	*AOC-1*	*AOC-2*
		Groundwater Compliance Concentrations [2]	*Groundwater Compliance Concentrations* [2]
Benzene	0.005	**0.141**	<0.005
Toluene	1.0	0.0161	<0.005
Ethylbenzene	0.7	**0.854**	<0.005
Xylenes	10.0	0.259	<0.005
MTBE	0.02	**0.737**	<0.005
TPH-GRO	0.15	**11.1**	<0.05

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
MTBE = methyl tertiary butyl ether
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
Notes: [1] LDEQ Screening Standards are derived from the LDEQ's October 20, 2003, Risk Evaluation/Corrective Action Program (RECAP) Table 1 Screening Standards for Soil and Groundwater.
[2] The reported groundwater compliance concentrations are the maximum concentrations encountered for each constituent of concern from samples collected during the site investigations.
Results shown in bold type exceed the RECAP Screening Standard, RECAP Table 1.

TABLE 6A

LIST OF APPENDIX I LIMITING STANDARDS FOR EACH COC FOR SOIL
AOC-1
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Category 12		*Soil RECAP Standards*					
	Constituents of Concern [2]	*Soil $_i$*	*Soil $_{GW3NDW}$*	*Dilution Factor*	*Adjusted Soil $_{GW3DW}$*	*Soil $_{Sat}$*	*Appendix I Limiting Standards* [3]
Assumes:		A	D	E	F=D x E	G	
Sl ~ 30 ft	Benzene	9.2	0.34	1,902	647	2,400	9.2
X ~ 1,400 ft							
foc = 0.02	MTBE	110,000	3,800	1,902	>1,000,000	18,000	18,000
DF = 1,902							
GW3NDW	TPH-GRO	10,000	10,000	N/A[4]	10,000	N/A	10,000

N/A = Not Applicable
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
MTBE = Methyl tertiary butyl ether

Notes: [1] Assumptions used to develop Appendix I standards; where Sl is source length, x is distance downgradient from source, DF is dilution factor, dilution factor, foc is fractional organic carbon, and GW3NDW is the groundwater classification.
[2] Only the constituents that exceeded the RECAP limiting screening standard are listed as constituents of concern.
[3] Appendix I Limiting Standards for Soils are derived from taking the lowest value when comparing $Soil_i$, $Soil_{GW3NDW}$, $Soil_{Sat}$. (Adjustments for additivity and dilution factors were added before comparisons were taken)
[4] No Dilution Factor applied, TPH-GRO concentration shall not exceed 10,000 mg/kg.

TABLE 6B

LIST OF APPENDIX I LIMITING STANDARDS FOR EACH COC FOR GROUNDWATER
AOC-1
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

		Groundwater RECAP Standards				
	Constituents [2] of Concern	*GW3NDW*	*Dilution Factor*	*Adjusted GW3NDW*	*Solubility*	*Appendix I Limiting Standard [3]*
Appendix I [1]		A	B	C= A*B	D	
Category 12						
Assumes:	Benzene	0.013	1,902	25	1,800	25
Sl = 30 ft						
X ~ 1,400 ft	Ethylbenzene	8.1	1,902	15,406	1,700	1,700
DF = 1,902						
GW3NDW	MTBE	550	1,902	1,046,100	51,000	51,000
	TPH-GRO	31	1,902	58,962	N/A	10,000[4]

mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
N/A = Not Applicable
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
Notes: [1] Assumptions used to develop Appendix I standards; where Sl is source length, x is distance downgradient from source, DF is dilution factor, and GW3NDW is the groundwater classification.
[2] Only the constituents that exceeded the RECAP limiting screening standard are listed as constituents of concern.
[3] Limiting Appendix I Standards for groundwater are derived from taking the lowest value when comparing GW3 and Solubility. (Additivity adjustment is not applicable for each COC when GW3 is present)
[4] TPH-GRO concentration shall not exceed 10,000 mg/L.

TABLE 7A

ADDITIVITY FACTORS
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

LIST OF COMPOUNDS & AFFECTING TARGET ORGANS

Compound	*Target Organ/System*
Toluene	Liver, Kidney, Central Nervous System, Nasal Epithelium
Ethylbenzene	Liver, Kidney, Fetal Effects
Xylenes	Central Nervous System, Decreased Body Weight, Decreased Longevity
MTBE	Kidney, Liver, Ocular Effects
TPH-GRO	Kidney, Liver, Decreased Body Weight, Hematological System
TPH-DRO	Kidney, Liver, Decreased Body Weight, Hematological System
Naphthalene	Decreased Body Weight, Nasal Epithelium

LIST OF TARGET ORGANS & AFFECTING COMPOUNDS

Target Organ/System	*Compound*
Liver	Toluene, Ethylbenzene, MTBE, TPH-GRO, TPH-DRO
Kidney	Toluene, Ethylbenzene, MTBE, TPH-GRO, TPH-DRO
Central Nervous System	Toluene, Xylenes
Decreased Body Weight	Xylenes, TPH-GRO, TPH-DRO, Naphthalene
Hematological System	TPH-GRO, TPH-DRO
Nasal Epithelium	Toluene, Naphthalene
Fetal Effects	Ethylbenzene
Decreased Longevity	Xylenes
Ocular Effects	MTBE

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
MTBE = methyl tertiary butyl ether

TABLE 7B

ADDITIVITY ASSESSMENT OF RECAP LIMITING STANDARDS - SOIL
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Constituents of Concern	*LIVER EFFECTS*			
	Soil; (mg/kg)	*Exposure/ Source Concentration (mg/kg)*	*Hazard Index*	*TotalHazard to Liver greater than 1.0?*
	a	b	c= b/a	
MTBE	110,000	<0.261	0.0000024	
TPH-GRO	10,000	207	0.0207	
Total Hazard to Liver			0.0207	No

Constituents of Concern	*KIDNEY EFFECTS*			
	Soil; (mg/kg)	*Exposure/ Source Concentration (mg/kg)*	*Hazard Index*	*Total Hazard to Kidney greater than 1.0?*
	a	b	c= b/a	
MTBE	110,000	<0.261	0.0000024	
TPH-GRO	10,000	207	0.0207	
Total Hazard to Kidney			0.0207	No

TPH-GRO = total petroleum hydrocarbons - gasoline range organics
MTBE = methyl tertiary butyl ether
mg/kg = *Milligrams per kilogram, which is equivalent to parts per million (ppm).*

TABLE 8

COMPARISON OF APPENDIX I LIMITING STANDARDS AND AREA OF INVESTIGATION AND COMPLIANCE CONCENTRATIONS
AOC-1
CHEVRON SERVICE STATION NO. 60109060
2929 COLLEGE DRIVE
BATON ROUGE, LOUISIANA

Constituents of Concern [1]	*Appendix I Limiting Standard (mg/kg)*	*Area of Investigation Concentration* [2] *(mg/kg)*		*Exceeds Appendix I Limiting Standard?*	*Appendix I Limiting Standard (mg/L)*	*Groundwater Compliance Concentrations (mg/L)*	*Exceeds Appendix I Limiting Standard?*
		Depth (Ft)	*Concentration*				
Benzene	9.2	0 - 15	0.331	**No**	25	0.141	No
		> 15	N/A	N/A			
Ethylbenzene	N/A	0 - 15	N/A	N/A	1,700	0.854	No
		> 15	N/A	N/A			
MTBE	18,000	0 - 15	<0.261	**No**	51,000	0.737	No
		> 15	N/A	N/A			
TPH-GRO	10,000	0 - 15	207	**No**	10,000	11.1	No
		> 15	N/A	N/A			

mg/kg = Milligrams per kilogram, which is approximately equivalent to parts per million (ppm).
mg/L = Milligrams per liter, which is approximately equivalent to parts per million (ppm).
N/A = Not Applicable
Notes: [1] Only the constituents that exceeded the RECAP limiting screening standards are listed as COCs.

APPENDIX C

SLUG TEST DATA AND WELL YIELD CALCULATION

CLIENT	Chevron EMC	**PROJECT:**	Station No. 60109060 College Drive Baton Rouge, LA
JOB No	27453-01		
CALCULATION BY	BLC	**DATE**	01/08/04

PURPOSE: To determine Dependable Yield (unsteady/nonequilibrium state).
METHOD: Cooper and Jacob (1946) modification of Theis equation.

GENERAL ASSUMPTIONS/CONDITIONS

1. The water-bearing formation is uniform in character and the hydraulic conductivity is the same in all directions.
2. The formation is uniform in thickness and infinite in areal extent.
3. The formation receives no recharge from any source.
4. The pumped well penetrates, and receives water from, the full thickness of the water-bearing formation.
5. The water removed from storage is discharged instantaneously when the head is lowered.
6. The pumping well is 100-percent efficient.
7. All water removed from the well comes from aquifer storage.
8. Laminar flow exists throughout the well and aquifer.
9. The water table or potentiometric surface has no slope.

Variables

$s := 6$	drawdown (ft), assumes 60 % drawdown of available water column in the well
$K := .07$	hydraulic conductivity (ft/day), see slug test results
$b := 10$	aquifer thickness (ft), typical measured water column in wells
$T = 0.7$	transmissivity of the aquifer (equals conductivity times aquifer thickness [K x b]) (ft^2/day)
$t := 365$	time pumping (days) -- Default: 365, assumes long term drawdown conditions.
$r := .417$	assumed effective well radius (ft) -- Default: 0.417
$S := .05$	storativity of the aquifer (dimensionless) -- Default: 0.05 assuming typical water table conditions.

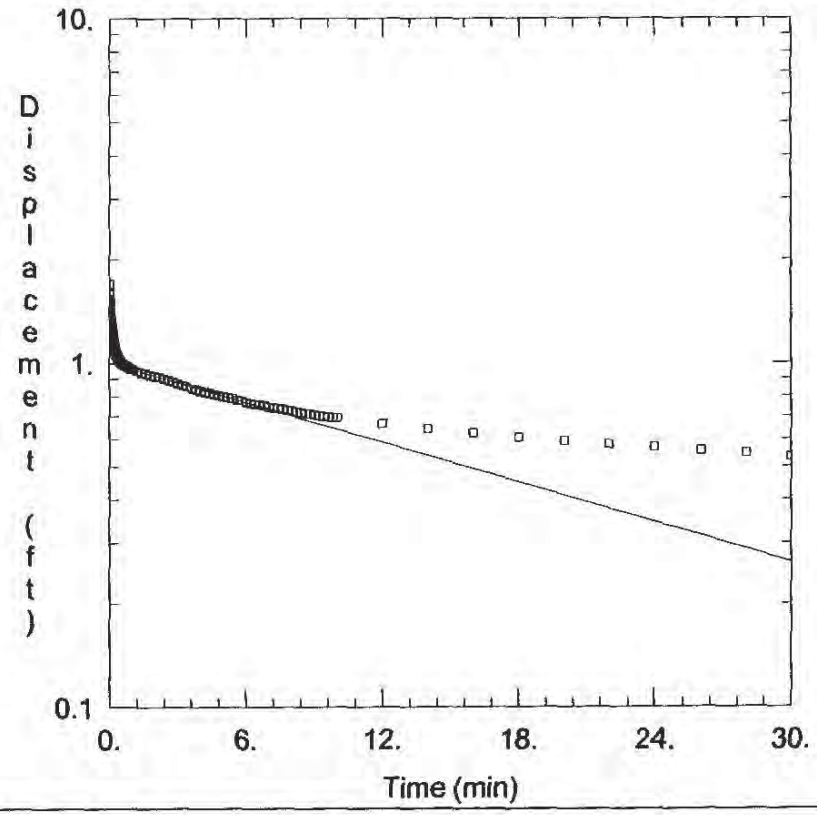
Dependable Yield (Q) Equation

$$Q := \frac{s \cdot T}{0.183 \cdot \log\left(\frac{2.25T \cdot t}{r^2 \cdot S}\right)}$$

$Q = 4.76$ ft^3/day

or, in gallons (1 ft^3 = 7.48 gallons),

which = 35.6 gallons/day



MW-1 SLUG OUT TEST

Data Set: C:\...\27453MW1.aqt
Date: 01/08/04 Time: 14:10:27

PROJECT INFORMATION

Client: Chevron EMC
Project: 27453-01
Location: No. 60109060 Baton Rouge

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.951E-05 ft/min
y0 = 1.004 ft

AQUIFER DATA

Saturated Thickness: 10.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1)

Initial Displacement: 1.7 ft
Total Well Penetration Depth: 10.5 ft
Casing Radius: 0.083 ft

Static Water Column Height: 10.5 ft
Screen Length: 10. ft
Wellbore Radius: 0.343 ft

Data Set: C:\AQTESOLV\27453-01 Chevron BTR College\27453MW1.aqt
Title: MW-1 SLUG OUT TEST
Date: 01/08/04
Time: 14:18:23

PROJECT INFORMATION

Client: Chevron EMC
Project: 27453-01
Location: No. 60109060 Baton Rouge

AQUIFER DATA

Saturated Thickness: 10.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-1

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.7 ft
Static Water Column Height: 10.5 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.343 ft
Well Skin Radius: 0.343 ft
Screen Length: 10. ft
Total Well Penetration Depth: 10.5 ft

No. of Observations: 195

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0033	1.6	0.33	1.051
0.0066	1.59	0.3333	1.051
0.01	1.527	0.35	1.044
0.0133	1.511	0.3666	1.038
0.0166	1.54	0.3833	1.032
0.02	1.537	0.4	1.028
0.0233	1.499	0.4166	1.022
0.0266	1.48	0.4333	1.019
0.03	1.496	0.45	1.016
0.0333	1.496	0.4666	1.013
0.0366	1.464	0.4833	1.01
0.04	1.451	0.5	1.01
0.0433	1.451	0.5166	1.006
0.0466	1.448	0.5333	1.003
0.05	1.436	0.55	1.
0.0533	1.42	0.5666	0.997
0.0566	1.417	0.5833	0.994
0.06	1.41	0.6	0.994
0.0633	1.401	0.6166	0.991
0.0666	1.391	0.6333	0.991
0.07	1.382	0.65	0.987
0.0733	1.376	0.6666	0.987
0.0766	1.369	0.6833	0.984
0.08	1.36	0.7	0.984
0.0833	1.35	0.7166	0.981
0.0866	1.344	0.7333	0.981
0.09	1.338	0.75	0.981
0.0933	1.328	0.7666	0.978
0.0966	1.322	0.7833	0.978
0.1	1.316	0.8	0.975
0.1033	1.306	0.8166	0.972
0.1066	1.3	0.8333	0.972
0.11	1.297	0.85	0.972

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.1133	1.287	0.8666	0.969
0.1166	1.281	0.8833	0.969
0.12	1.275	0.9	0.965
0.1233	1.268	0.9166	0.965
0.1266	1.262	0.9333	0.965
0.13	1.256	0.95	0.962
0.1333	1.253	0.9666	0.962
0.1366	1.246	0.9833	0.962
0.14	1.24	1.	0.959
0.1433	1.234	1.2	0.95
0.1466	1.227	1.4	0.937
0.15	1.221	1.6	0.931
0.1533	1.218	1.8	0.921
0.1566	1.211	2.	0.915
0.16	1.205	2.2	0.909
0.1633	1.199	2.4	0.899
0.1666	1.196	2.6	0.89
0.17	1.189	2.8	0.88
0.1733	1.183	3.	0.871
0.1766	1.18	3.2	0.861
0.18	1.174	3.4	0.855
0.1833	1.17	3.6	0.845
0.1866	1.164	3.8	0.839
0.19	1.161	4.	0.83
0.1933	1.158	4.2	0.823
0.1966	1.152	4.4	0.817
0.2	1.148	4.6	0.811
0.2033	1.145	4.8	0.804
0.2066	1.142	5.	0.798
0.21	1.139	5.2	0.792
0.2133	1.133	5.4	0.789
0.2166	1.129	5.6	0.779
0.22	1.126	5.8	0.776
0.2233	1.123	6.	0.77
0.2266	1.12	6.2	0.763
0.23	1.117	6.4	0.76
0.2333	1.114	6.6	0.757
0.2366	1.111	6.8	0.751
0.24	1.107	7.	0.744
0.2433	1.104	7.2	0.741
0.2466	1.101	7.4	0.738
0.25	1.098	7.6	0.735
0.2533	1.095	7.8	0.729
0.2566	1.092	8.	0.725
0.26	1.088	8.2	0.722
0.2633	1.088	8.4	0.719
0.2666	1.085	8.6	0.713
0.27	1.082	8.8	0.713
0.2733	1.079	9.	0.707
0.2766	1.079	9.2	0.703
0.28	1.076	9.4	0.7
0.2833	1.076	9.6	0.697
0.2866	1.073	9.8	0.694
0.29	1.069	10.	0.694
0.2933	1.069	12.	0.666
0.2966	1.066	14.	0.643
0.3	1.063	16.	0.625
0.3033	1.063	18.	0.606
0.3066	1.06	20.	0.593
0.31	1.06	22.	0.58
0.3133	1.06	24.	0.568
0.3166	1.057	26.	0.555
0.32	1.054	28.	0.546
0.3233	1.054	30.	0.533
0.3266	1.054		

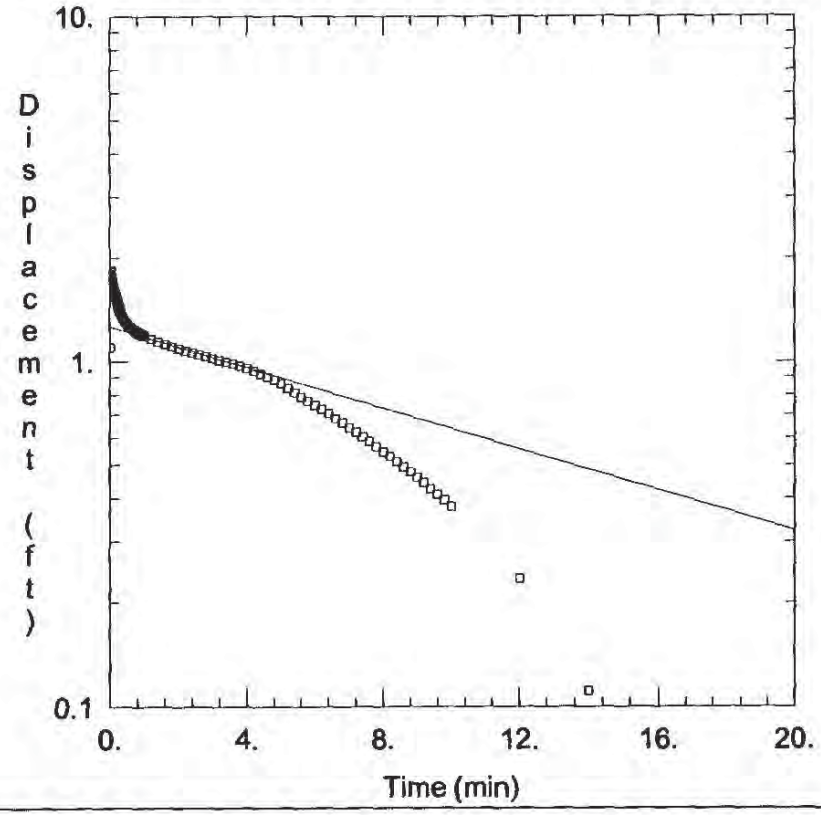
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.576

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	3.951E-05	ft/min
y0	1.004	ft



MW-3 SLUG OUT TEST

Data Set: C:\...\27453MW3.aqt
Date: 01/08/04 Time: 14:15:57

PROJECT INFORMATION

Client: Chevron EMC
Project: 27453-01
Location: No. 60109060 Baton Rouge

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 5.945E-05 ft/min
y0 = 1.263 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-3)

Initial Displacement: 1.1 ft
Total Well Penetration Depth: 9.7 ft
Casing Radius: 0.083 ft

Static Water Column Height: 9.7 ft
Screen Length: 10. ft
Wellbore Radius: 0.343 ft

Data Set: C:\AQTESOLV\27453-01 Chevron BTR College\27453MW3.aqt
Title: MW-3 SLUG OUT TEST
Date: 01/08/04
Time: 14:18:10

PROJECT INFORMATION

Client: Chevron EMC
Project: 27453-01
Location: No. 60109060 Baton Rouge

AQUIFER DATA

Saturated Thickness: 9.7 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-3

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.1 ft
Static Water Column Height: 9.7 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.343 ft
Well Skin Radius: 0.343 ft
Screen Length: 10. ft
Total Well Penetration Depth: 9.7 ft

No. of Observations: 182

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0233	1.842	0.3266	1.385
0.0266	1.769	0.33	1.381
0.03	1.785	0.3333	1.378
0.0333	1.839	0.35	1.366
0.0366	1.826	0.3666	1.353
0.04	1.769	0.3833	1.343
0.0433	1.757	0.4	1.334
0.0466	1.788	0.4166	1.328
0.05	1.798	0.4333	1.318
0.0533	1.76	0.45	1.312
0.0566	1.735	0.4666	1.302
0.06	1.747	0.4833	1.299
0.0633	1.763	0.5	1.29
0.0666	1.744	0.5166	1.287
0.07	1.719	0.5333	1.28
0.0733	1.716	0.55	1.274
0.0766	1.725	0.5666	1.271
0.08	1.719	0.5833	1.268
0.0833	1.703	0.6	1.261
0.0866	1.691	0.6166	1.258
0.09	1.694	0.6333	1.252
0.0933	1.694	0.65	1.249
0.0966	1.681	0.6666	1.246
0.1	1.668	0.6833	1.243
0.1033	1.665	0.7	1.239
0.1066	1.665	0.7166	1.233
0.11	1.659	0.7333	1.23
0.1133	1.646	0.75	1.227
0.1166	1.64	0.7666	1.227
0.12	1.637	0.7833	1.22
0.1233	1.634	0.8	1.22
0.1266	1.624	0.8166	1.217
0.13	1.618	0.8333	1.214

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.1333	1.615	0.85	1.211
0.1366	1.609	0.8666	1.208
0.14	1.605	0.8833	1.205
0.1433	1.596	0.9	1.205
0.1466	1.593	0.9166	1.201
0.15	1.586	0.9333	1.198
0.1533	1.583	0.95	1.195
0.1566	1.577	0.9666	1.195
0.16	1.571	0.9833	1.192
0.1633	1.567	1.	1.189
0.1666	1.561	1.2	1.164
0.17	1.558	1.4	1.142
0.1733	1.552	1.6	1.123
0.1766	1.545	1.8	1.107
0.18	1.542	2.	1.091
0.1833	1.536	2.2	1.075
0.1866	1.533	2.4	1.063
0.19	1.527	2.6	1.047
0.1933	1.523	2.8	1.034
0.1966	1.517	3.	1.022
0.2	1.514	3.2	1.009
0.2033	1.508	3.4	0.996
0.2066	1.504	3.6	0.984
0.21	1.501	3.8	0.971
0.2133	1.495	4.	0.955
0.2166	1.492	4.2	0.94
0.22	1.489	4.4	0.921
0.2233	1.485	4.6	0.902
0.2266	1.479	4.8	0.883
0.23	1.476	5.	0.861
0.2333	1.473	5.2	0.835
0.2366	1.47	5.4	0.813
0.24	1.463	5.6	0.788
0.2433	1.46	5.8	0.767
0.2466	1.457	6.	0.745
0.25	1.454	6.2	0.726
0.2533	1.451	6.4	0.704
0.2566	1.444	6.6	0.682
0.26	1.441	6.8	0.663
0.2633	1.438	7.	0.641
0.2666	1.435	7.2	0.622
0.27	1.432	7.4	0.603
0.2733	1.429	7.6	0.584
0.2766	1.426	7.8	0.565
0.28	1.422	8.	0.546
0.2833	1.419	8.2	0.53
0.2866	1.416	8.4	0.511
0.29	1.413	8.6	0.492
0.2933	1.41	8.8	0.477
0.2966	1.407	9.	0.461
0.3	1.403	9.2	0.445
0.3033	1.4	9.4	0.426
0.3066	1.4	9.6	0.41
0.31	1.397	9.8	0.395
0.3133	1.394	10.	0.379
0.3166	1.391	12.	0.234
0.32	1.388	14.	0.111
0.3233	1.385	16.	0.

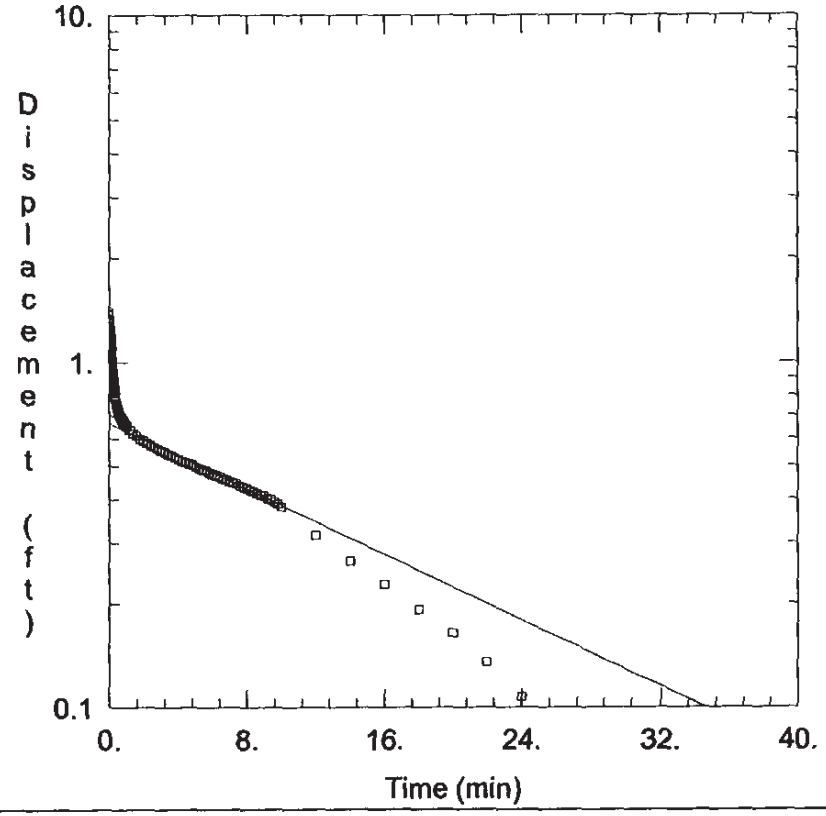
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.527

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	5.945E-05	ft/min
y0	1.263	ft



MW-4 SLUG OUT TEST

Data Set: C:\...\27453MW4.aqt
Date: 01/08/04 Time: 14:17:46

PROJECT INFORMATION

Client: Chevron EMC
Project: 27453-01
Location: No. 60109060 Baton Rouge

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 4.832E-05 ft/min
y0 = 0.6668 ft

AQUIFER DATA

Saturated Thickness: 10.2 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-4)

Initial Displacement: 1.4 ft
Total Well Penetration Depth: 10.2 ft
Casing Radius: 0.083 ft

Static Water Column Height: 10.2 ft
Screen Length: 10. ft
Wellbore Radius: 0.343 ft

Data Set: C:\AQTESOLV\27453-01 Chevron BTR College\27453MW4.aqt
Title: MW-4 SLUG OUT TEST
Date: 01/08/04
Time: 14:18:01

PROJECT INFORMATION

Client: Chevron EMC
Project: 27453-01
Location: No. 60109060 Baton Rouge

AQUIFER DATA

Saturated Thickness: 10.2 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-4

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.4 ft
Static Water Column Height: 10.2 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.343 ft
Well Skin Radius: 0.343 ft
Screen Length: 10. ft
Total Well Penetration Depth: 10.2 ft

No. of Observations: 197

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0033	1.319	0.3333	0.817
0.0066	1.325	0.35	0.804
0.01	1.378	0.3666	0.792
0.0133	1.366	0.3833	0.782
0.0166	1.309	0.4	0.773
0.02	1.3	0.4166	0.763
0.0233	1.331	0.4333	0.757
0.0266	1.334	0.45	0.751
0.03	1.296	0.4666	0.744
0.0333	1.278	0.4833	0.738
0.0366	1.296	0.5	0.732
0.04	1.303	0.5166	0.729
0.0433	1.278	0.5333	0.722
0.0466	1.259	0.55	0.719
0.05	1.265	0.5666	0.716
0.0533	1.271	0.5833	0.71
0.0566	1.255	0.6	0.706
0.06	1.24	0.6166	0.703
0.0633	1.236	0.6333	0.7
0.0666	1.243	0.65	0.697
0.07	1.233	0.6666	0.694
0.0733	1.218	0.6833	0.694
0.0766	1.211	0.7	0.687
0.08	1.211	0.7166	0.687
0.0833	1.205	0.7333	0.684
0.0866	1.195	0.75	0.681
0.09	1.186	0.7666	0.678
0.0933	1.183	0.7833	0.678
0.0966	1.177	0.8	0.675
0.1	1.17	0.8166	0.675
0.1033	1.161	0.8333	0.672
0.1066	1.154	0.85	0.669
0.11	1.148	0.8666	0.669

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.1133	1.142	0.8833	0.665
0.1166	1.132	0.9	0.662
0.12	1.126	0.9166	0.662
0.1233	1.123	0.9333	0.659
0.1266	1.117	0.95	0.656
0.13	1.107	0.9666	0.656
0.1333	1.101	0.9833	0.656
0.1366	1.095	1.	0.653
0.14	1.088	1.2	0.637
0.1433	1.082	1.4	0.621
0.1466	1.076	1.6	0.612
0.15	1.069	1.8	0.599
0.1533	1.063	2.	0.593
0.1566	1.057	2.2	0.583
0.16	1.05	2.4	0.574
0.1633	1.044	2.6	0.568
0.1666	1.038	2.8	0.561
0.17	1.031	3.	0.555
0.1733	1.025	3.2	0.549
0.1766	1.019	3.4	0.542
0.18	1.012	3.6	0.536
0.1833	1.006	3.8	0.53
0.1866	1.	4.	0.523
0.19	0.994	4.2	0.517
0.1933	0.99	4.4	0.514
0.1966	0.984	4.6	0.508
0.2	0.978	4.8	0.504
0.2033	0.971	5.	0.498
0.2066	0.968	5.2	0.492
0.21	0.962	5.4	0.489
0.2133	0.956	5.6	0.486
0.2166	0.953	5.8	0.479
0.22	0.946	6.	0.473
0.2233	0.943	6.2	0.47
0.2266	0.937	6.4	0.467
0.23	0.93	6.6	0.46
0.2333	0.927	6.8	0.457
0.2366	0.921	7.	0.451
0.24	0.918	7.2	0.448
0.2433	0.915	7.4	0.445
0.2466	0.908	7.6	0.438
0.25	0.905	7.8	0.435
0.2533	0.899	8.	0.432
0.2566	0.896	8.2	0.426
0.26	0.893	8.4	0.422
0.2633	0.886	8.6	0.416
0.2666	0.883	8.8	0.413
0.27	0.88	9.	0.41
0.2733	0.877	9.2	0.403
0.2766	0.87	9.4	0.4
0.28	0.867	9.6	0.394
0.2833	0.864	9.8	0.388
0.2866	0.861	10.	0.381
0.29	0.858	12.	0.315
0.2933	0.852	14.	0.265
0.2966	0.852	16.	0.227
0.3	0.848	18.	0.192
0.3033	0.842	20.	0.164
0.3066	0.839	22.	0.135
0.31	0.836	24.	0.107
0.3133	0.833	26.	0.085
0.3166	0.833	28.	0.063
0.32	0.829	30.	0.037
0.3233	0.826	32.	0.012
0.3266	0.823	34.	-0.009
0.33	0.82		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.558

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	4.832E-05	ft/min
y0	0.6668	ft

APPENDIX D

ANALYTICAL DATA EVALUATION

RECAP FORM 3
ANALYTICAL DATA EVALUATION

Date May 2004

Facility Name Chevron Service Station No. 60109060

Agency Interest (AI #) 20619

Physical Site Location Southeast of intersection of College Drive and Interstate 10 Frontage Rd

Operation Address 2929 College Drive, Baton Rouge, Louisiana

Owner/Responsible Party Address Chevron Environmental Management Company
P. O. Box 4256, Houston, Texas 77210-4256

1. Data Generation

1.A All sample collection was done in accordance to applicable RECAP collection guidelines.
[√] Yes [ ] No

1.B All generated data was obtained using EPA Methodology, RECAP approved methodology (as found in text), or methodology pre-approved by the Department. Any modifications to methodology have been noted, explained and pre-approved by the Department.
[ ] Yes [√] No

1.C All Data are analyte-specific and the identity and concentration are confirmed.
[√] Yes [ ] No

1.D All data were generated by a LDEQ certified laboratory. [√] Yes [ ] No

2. Data Evaluation and Usability

2.A Methods used are appropriate for analyzed constituents:

1. Analysis used is specific for COCs. [√] Yes [ ] No

2. Results are produced with the most appropriate sensitive method. (e.g. not using portable field analytical instruments). [√] Yes [ ] No

2.B Sample Quantitation Limits (SQL)

Note: The SQL is not synonymous with the IDL (instrument detection limit) or the MDL (minimum detection limit). The SQL is derived after considering the effects of dilutions, loss of instrument sensitivity, matrix interferences, and other interferences effecting the lower-end accuracy of analysis, and therefore resulting in the elevation of the method detection limit. The SQL will be the only detection limit considered for comparison to limiting standards.

1. All SQLs are less than reference concentrations (RS or SS). [√] Yes [ ] No
   (If yes, proceed to Section 2C, Qualifiers and Codes).

2. Samples with SQLs greater than the limiting standard are not being reported as non-detected. (If yes, proceed to Item # 3 of this section). [ ] Yes [ ] No

   If the SQL is higher than the limiting standard, and a non-detect is being reported, data may still be considered by the Department if all the below conditions are met:

   (a) The non-detect results make up less than 5-10 percent of a sample set for a considered individual COC.

   (b) The ND is not classified as being from a key sampling location (e.g. drinking water well).

   (c) Documentation provided by a LDEQ accredited laboratory (with supporting evidence) is included in the document demonstrating that a practical quantitation limit was not achievable due to site or sample-specific conditions.

   Have the above three conditions been met? [ ] Yes [ ] No

   Note: If one or more of the above conditions cannot be met, the total (100%) value of the PQL may be reported as a positive detected result.

   Will this option be used and annotated in the Report? [ ] Yes [ ] No

   Note: If all answers in this item are "no," analytical results will be rejected and re-sampling will be required.

3. Are sample results higher than both the PQL and the limiting standard? [ ] Yes [ ] No (If so, results may be used despite elevated PQL).

2.C Qualifiers and Codes

1. All qualifiers and codes for flagged data have been noted on form 3 and supporting documentation has been included in the laboratory information package. [√] Yes [ ] No

2. All data with a qualifier of "R" (unusable data) do not come from critical sample points (if so, resample will be required). [√] Yes [ ] No

3. All data with a qualifier of "J" (estimated concentrations) have been included as positive results. [√] Yes [ ] No

2.D Blank Samples

1. Field and laboratory blanks showed no signs of contamination, and no constituents were detected in blanks. (If no constituents or contaminants were detected, proceed to 2E, Tentatively Identified Compounds). [√] Yes [ ] No

2. Contaminants or constituents found in blanks can be considered common laboratory contaminants as defined by EPA (acetone, 2-butanone, methylene chloride, toluene, or phthalates); and the same contaminants found in site samples are present at quantities less than 10 times the levels found in blanks. (If no, constituents are to be reported as detected COCs). [ ] Yes [ ] No

3. Contaminants or constituents found in blanks are not considered common laboratory contaminants as defined by EPA; and the same contaminants found in site samples are present at quantities less than 5 times the levels found in blanks (If no, constituents are to be reported as detected COCs). [ ] Yes [ ] No

2.E Tentatively Identified Compounds (TIC)

All possible TIC have been identified, evaluation is supported with documentation in the text, and information conforms to the requirements as listed in Section 2.5 of the RECAP. [√] Yes [ ] No

2.F Historical Data

1. All quantitative historical data has been reviewed by current QA/QC guidelines, and all applicable supporting information is justified and included in the report. [√] Yes [ ] No

2. All qualitative historical data is verifiable, has not been used quantitatively, and has only been used in the development of a conceptual model. [√] Yes [ ] No

3. Documentation

3.A Laboratory information package assembled as follows [√] Yes [ ] No:

1. Sample documentation (chains of custody, preparation time, time of analysis).
2. Sample and analyte identification and quantification.
3. Determination and documentation of sample quantitation limits (SQLs).
4. Initial and continuing calibration.
5. Performance evaluation samples (external QA or laboratory control samples)
6. Matrix spike recoveries.
7. Analytical error determination (determined with replicate samples).
8. Total measurement error determination summary. (Evaluates overall precision of measurement system from sample acquisition through analysis. Determined with field duplicate and matrix spike with matrix spike duplicate).
9. Explanation and supporting documentation for flagged data.

3.B All methods used in all analysis have produced tangible raw data (e.g. chromatograms, spectra, digital values), and are available to the Department upon request. [√] Yes [ ] No

1. Representative data is included in documentation as examples of method procedures. [√] Yes [ ] No

2. All flagged data is supported with complete associated tangible raw data. (e.g. depiction of matrix interferences, spiked recoveries reported outside of control limits, evidence for need for dilution etc.). [√] Yes [ ] No

Note: Any "no" answer must be explained at the conclusion of this form. Items not applicable should be left unmarked.

4. Submitter Information

Date MAY 2004

Name of Person submitting this evaluation Calvin R. Wiggs, PG

Affiliation Conestoga-Rovers & Associates

Signature Seth Domangue Date 05/07/04

Additional Preparers Seth P. Domangue

APPENDIX E

ECOLOGICAL CHECKLIST

RECAP FORM 18
ECOLOGICAL CHECKLIST

Section 1 - Facility Information

1. Name of facility: Chevron Service Station No. 60109060

2. Location of facility: 2929 College Drive, Baton Rouge, Louisiana

   Parish: East Baton Rouge

3. Mailing address: Chevron Environmental Management Company
   P.O. Box 4256, Houston, Texas 77210-4256

4. Type of facility and/or operations associated with AOC: Active self-service motor fueling retail facility.

5. Name of AOC or AOI: AOC-1 and AOC-2

6. If available, attach a USGS topographic map of the facility and/or aerial or other photographs of the release site and surrounding areas. See Figure 1 and 2 of this report.

Section 2 - Land Use Information

1. Describe land use at and in the vicinity of the AOC/AOI: Heavy Commercial

2. Describe land use adjacent to the facility: The former Chevron Station is located in a commercially developed area (see Section 1.1.2 of the report for additional details).

3. Provide the following information regarding the nearest surface water body which has been impacted or has the potential to be impacted by COC migrating from the AOC/AOC:

   a) Name of the surface water body: Dawson Creek

   b) Type of surface water body

      [√] freshwater river or stream
      [ ] freshwater swamp/marsh/wetland
      [ ] saltwater or brackish swamp/marsh/wetland
      [ ] lake or pond
      [ ] bayou or estuary
      [ ] drainage ditch
      [ ] other:

   c) Designated use of the segment/sub-segment of the surface water body (LAC 33:IX): None

   d) Distance from the AOC/AOI to nearest surface water body: Approximately 1,400 feet

4. Do any potentially sensitive environmental areas exist adjacent to or in proximity to the site, e.g., federal and state parks, national and state monuments, wetlands, etc? [ ] Yes [√] No

If yes, explain:

Section 3 - Release Information

1. Nature of the release: Suspected leaks/seeps from underground storage tank system.

2. Location of the release (within the facility): Dispenser islands northeast and southwest of the station building.

3. Location of the release with respect to the facility property boundaries: Release occurred within the facility property boundaries.

4. Constituents known or suspected have been released: Gasoline hydrocarbon constituents.

5. Indicate which media are known or suspected to be impacted and if sampling data are available:

[√]	soil 0 - 3 feet bgs	[√]	yes	[ ]	no
[√]	soil 0 - 15 feet bgs	[√]	yes	[ ]	no
[ ]	soil >15 feet bgs	[ ]	yes	[√]	no
[√]	groundwater	[√]	yes	[ ]	no
[ ]	surface water/sediment	[ ]	yes	[ ]	no

6. Has migration occurred outside the facility property boundaries? [ ] yes [√] no

   If yes, describe the designated use of the offsite land impacted:

Section 4 - Criteria for Further Assessment

If the AOI meets **all** of the criteria presented below, then typically no further ecological evaluation shall be required. If the AOI **does not** meet **all** of the criteria, then a screening level ecological risk shall be conducted. The Submitter should make the initial decision regarding whether or not a screening level ecological risk assessment is warranted based on compliance of the AOI with criteria listed below. After review of the ecological checklist and other available site information, the Department will make a final determination on the need for a screening level ecological risk assessment. If site conditions at the AOI change such that one or more of the criteria are not met, then a screening level ecological risk assessment shall be conducted. Answers shall be based on current site conditions (i.e., shall not consider future remedial actions or institutional or engineering controls).

Indicate if the AOI meets the following criteria:

(1) The area of impacted soil is approximately 5 acres or less in size (based on the AOI identified for the human health assessment) and it is not expected that the COC will migrate such that the soil AOI becomes greater than 5 acres in size. [√] yes [ ] no

(2) There is no current release or demonstrable long-term threat of release (via runoff or groundwater discharge) of COC from the AOI to a surface water body. [√] yes [ ] no

(3) Recreational species, commercial species, threatened or endangered species, and/or their habitats are not currently being exposed, or expected to be exposed, to COC present at or migrating from the AOI
[√] yes [ ] no

(4) There are no obvious impacts to ecological receptors or their habitats and none are expected in the future.
[√] yes [ ] no

Is further ecological evaluation required at this AOI? [ ] yes [√] no
This determination is subject to Department concurrence.

Section 5 - Site Summary

The ecological checklist submittal shall include a site summary that presents sufficient information to verify that the AOI meets or does not meet the criteria for further assessment.

Section 6 - Submitter Information

Date: May 2004

Name of person submitting this checklist: Calvin R. Wiggs, PG

Affiliation: Conestoga-Rovers & Associates

Signature: Calvin Wiggs Date: 05/06/04

Additional Preparers: Seth P. Domangue

REGISTRATION FOR UNDERGROUND STORAGE TANKS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF SOLID AND HAZARDOUS WASTE
UNDERGROUND STORAGE TANK PROGRAM
P.O. BOX 44274 BATON ROUGE, LA 70804-4274

RECEIVED BY
MAY 09 1986
GROUND WATER

STATE USE ONLY	
I.D NUMBER	61 002395 75100
DATE RECEIVED	
DATE CHECKED	10/30/86
CHECKED BY	DW

GENERAL INFORMATION

Registration is required by State and Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by the Louisiana Environmental Quality Act, L.R.S. 30:1051 et seq, as amended.

The primary purpose of this registration program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances It is expected that the information you provide will be based on reasonably available records or, in the absence of such records, your knowledge, belief, or recollection

Who Must Register? The Louisiana Environmental Quality Act L R S 30 1051 et seq, as amended, requires that unless exempted, owners of underground tanks that store regulated substances must notify the Louisiana Department of Environmental Quality of the existence of their tanks Owner means—

(a) in the case of an underground storage tank in use on November 8 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances and (2) whose volume (including connected underground piping) is 10% or more beneath the ground Some examples are underground tanks storing 1. gasoline used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants

NOTE: Underground storage tanks of less than 500 gallon capacity, which are required to be registered by the Environmental Protection Agency, shall likewise register with the state; however, these tanks are exempt from Louisiana fees and regulations.

What Tanks Are Excluded? Tanks excluded from Louisiana registration are

1. farm or residential tanks with a capacity of less than 500 gallons used for storing motor fuel for noncommercial purposes.
2. tanks used for storing heating oil for consumptive use on the premises where stored.
3. septic tanks,
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979 or which is an intrastate pipeline facility regulated under State laws.
5. surface impoundments, pits, ponds, or lagoons
6. storm water or waste water collection systems
7. flow-through process tanks,
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations,
9. storage tanks situated in an underground area (such as a basement cellar, mineworking drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor

What Substances Are Covered? The registration requirements apply to underground storage tanks that contain regulated substances This includes 1) any substance defined in section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (but not including any substance regulated as a hazardous waste under Subtitle C of the Solid Waste Disposal Act as amended by RCRA), and 2) petroleum including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14 7 pounds per square inch absolute)

Where to Register? Completed registration forms should be sent to the address given at the top of this page

When to Register? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must register by May 8, 1986 2. Owners who bring underground storage tanks into use after May 8, 1986 must register within 30 days of bringing the tanks into use

Registration Fee: The owners of operational or non-operational underground storage tanks containing regulated substances must submit with the registration form the payment of the registration fee for each underground storage tank according to the following schedule

1. For any substance defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (but not including any substance regulated as a hazardous waste under Subtitle C of the Solid Waste Disposal Act as amended by RCRA)—$25 00 per tank
2. For petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14 7 pounds per square inch absolute) —$15 00 per tank

In no case shall one owner be required to pay an aggregate registration fee in excess of one thousand dollars ($1,000 00) In addition to the registration fee, an annual monitoring and maintenance fee is required commencing May 8 1987 in accordance with the regulations

Penalties: Any owner who knowingly fails to register or submits false information shall be subject to a civil penalty not to exceed $25,000 per day for each tank for which registration is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V **This form must be completed for each location containing underground storage tanks.** If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form
Make checks payable to the Louisiana Department of Environmental Quality.

Indicate number of continuation sheets attached [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Cracker Barrel Stores, Inc.

Street Address
12221 Industriplex Blvd.

Parish
East Baton Rouge

City: Baton Rouge, State: Louisiana, Zip Code: 70809

Area Code: (504) Phone Number: 293-3200

Type of Owner (*Mark all that apply* ☒)

- [x] Current
- [ ] Former
- [ ] State or Local Gov't.
- [ ] Federal Gov't. (GSA facility I D. no _____)
- [x] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable
Cracker Barrel Stores, Inc.

Street Address or State Road, as applicable
133 Lobdell Hwy. 415

Parish
West Baton Rouge

City (nearest): Port Allen, State: Louisiana, Zip Code: 70767

Latitude: 30 °(deg) 27 '(min) 31 "(sec.) N
Longitude: 91 °(deg.) 16 '(min.) 05 "(sec) W

Indicate number of tanks at this location: 3

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ])	Job Title	Area Code	Phone Number
Jack Kirkendoll	Director of Administration	(504)	293-3200

IV. TYPE OF REGISTRATION

[ ] Mark Box here only if this is an amended or subsequent registration for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed
Jack Kirkendoll-Dir. of Administration	Jack Kirkendoll	5/1/86

CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ___ of ___ Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS *(Complete for each tank at this location.)*

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3 . . .)	Tank No. 54	Tank No. 55	Tank No. 56	Tank No.	Tank No.
1. Status of Tank *(Mark all that apply ☒)*	3892	3893	3894		
Currently in Use	☒	☒	☒	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☐	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Age (Years)	4	4	4		
3. Total Capacity (Gallons)	10,000	10,000	10,000		
4. Is Tank and/or Piping Leaking? (YES or NO)	No	No	No		
5. Material of Construction *(Mark one ☒)*					
Steel	☒	☒	☒	☐	☐
Concrete	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	____	____	____	____	____
6. Internal Protection *(Mark all that apply ☒)*					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e g , epoxy resins)	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☒	☒	☒	☐	☐
Other, Please Specify	____	____	____	____	____
7. External Protection *(Mark all that apply ☒)*					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e g.. asphaltic)	☒	☒	☒	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	____	____	____	____	____
8. Piping *(Mark all that apply ☒)*					
Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☒	☒	☒	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	____	____	____	____	____
9. Substance Currently or Last Stored in Greatest Quantity by Volume *(Mark all that apply ☒)*					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum	☒	☒	☒	☐	☐
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☒	☒	☒	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	____	____	____	____	____
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance	____	____	____	____	____
OR					
Chemical Abstract Service (CAS) No	____	____	____	____	____
Mark box ☒ if tank stores a mixture of substances	☐	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
10. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo / yr)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)	____	____	____	____	____
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐
11. Additional Information (for replacement tanks installed after January 1, 1974)					
a. Is the tank currently in use a replacement tank for one previously in use at the same site? (YES or NO)	____	____	____	____	____
b. When was the previous tank removed? (mo / yr)	/	/	/	/	/
c. What was the age of the previous tank at time of removal? (years)	/	/	/	/	/
d. Was the tank and/or piping previously removed found to be leaking? (YES or NO)	____	____	____	____	____
e. If so, was contamination of the regulated substance removed from the soil and/or ground water? (YES or NO)	____	____	____	____	____

UST-REG-02
Revised 12/96

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK DIVISION

RECEIVED
MAR 31 1997
UNDERGROUND STORAGE TANK DIVISION

UST-REG-02
Revised 12/96

REGISTRATION OF TECHNICAL REQUIREMENTS FOR USTs

INSTRUCTIONS: Use ink, and type or print all items except where a signature is required. Forms completed in pencil will not be accepted. A separate form must be completed for each facility/location containing underground storage tanks (USTs). The LDEQ will only accept an ORIGINAL registration form with ORIGINAL signatures. Photocopies and fax copies of the form will not be accepted. If there are more than six tanks at a location, attach another original form with Section IV through Section X completed. If continuation sheets are attached, indicate the number of attached sheets here: ☐

RETURN COMPLETED FORM TO: LDEQ-UST DIVISION, REGISTRATION UNIT, POST OFFICE BOX-82178, BATON ROUGE, LA 70884-2178

FOR QUESTIONS, CALL THE REGISTRATION UNIT AT: (504) 765-0243

NOTE: ALL SECTIONS MUST BE COMPLETED. Registration forms lacking information will be returned. For amended registrations, be sure to include the identification numbers that have been assigned by the LDEQ (CONTACT THE LDEQ IF NECESSARY).

I. GENERAL REGISTRATION INFORMATION

☐ CHECK HERE IF THIS IS A LATE REGISTRATION (i.e., if not filed within 30 days of the tank being put into service)

Your Federal ID # 72-0645812

Facility ID # (ASSIGNED BY LDEQ) 61-002395

Owner ID # (ASSIGNED BY LDEQ) 00075100

REASON FOR REGISTRATION:
- ___ New Tank(s) and New Facility
- ___ Replacement Tank(s)
- ___ Additional Tank(s)
- ✓ Amended (Specify below)
  - ✓ Upgrade
  - ___ Other (Specify) ___

STATE USE ONLY
Federal ID# 72-0999270
Date Entered 4 2 97
Data Entry Clerk S.B.
___ Other Information Received

II. OWNER INFORMATION

Owner Name (corporation, individual, public agency, or other entity): CRACKER BARREL STORES, INC.

Mailing Address: 12221 INDUSTRIPLEX BLVD.

City: BATON ROUGE State: LA Zip Code: 70809

Telephone Number (include Area Code): (504) 753-3200

III. FACILITY INFORMATION

All lines must be filled in COMPLETELY.

Facility Name or Company Site Identifier, as applicable: CRACKER BARREL #28

Street Address - physical location (P.O. Box or route # not acceptable): 133 LOBDELL HWY.

City: PORT ALLEN State: LA Zip Code: 70767

Telephone Number (include Area Code): (504) 381-9421

RESERVED FOR STATE USE ONLY

Parish: WEST BATON ROUGE

Number of tanks at this location: 3

Latitude ___ DEGREES ___ MINUTES ___ SECONDS

Longitude ___ DEGREES ___ MINUTES ___ SECONDS

Tank Identification Number (MUST BE ASSIGNED BY LDEQ)	Tank No. 3892	Tank No. 3893	Tank No. 3894	Tank No.	Tank No.	Tank No.
IV. GENERAL TANK INFORMATION						
A. Total Capacity (gal.) - must specify	10,000	10,000	10,000			
B. Substance stored in tank	GASOLINE	GASOLINE	GASOLINE			
V. TANK MATERIAL - Mark all that apply.						
Has tank ever leaked?	Yes___ No ✓	Yes___ No ✓	Yes___ No ✓	Yes___ No___	Yes___ No___	Yes___ No___
If yes, when? (Specify at least year)						
A. Asphalt Coated or Bare Steel	✓	✓	✓			
B. Cathodically Protected Steel						
C. Epoxy Coated Steel						
D. Composite (Steel with Fiberglass)						
E. Fiberglass Reinforced Plastic						
F. Lined Interior						
G. Double Walled						
H. Polyethylene Tank Jacket						
I. Concrete						
J. Excavation Liner						
K. Unknown						
L. Other (Specify)						
VI. PIPING MATERIAL - Mark all that apply.						
A. Bare Steel						
B. Galvanized Steel						
C. Fiberglass Reinforced Plastic	✓	✓	✓			
D. Copper						
E. Cathodically Protected						
F. Double Walled						
G. Secondary Containment						
H. Unknown						
I. Other (Specify)						
VII. PIPING TYPE - Mark all that apply.						
Has piping ever leaked?	Yes___ No ✓	Yes___ No ✓	Yes___ No ✓	Yes___ No___	Yes___ No___	Yes___ No___
If yes, when? (Specify at least year)						
A. Suction: with Release Detection						
B. Suction: without Release Detection						
C. Pressure	✓	✓	✓			
D. Gravity feed						
VIII. SPILL AND OVERFILL PROTECTION						
A. Spill containment (Date installed)	12/97	12/97	12/97	/ /	/ /	/ /
B. Overfill prevention (Date installed)	12/97	12/97	12/97	/ /	/ /	/ /
C. If alternative equipment installed, specify type (LAC 33:XI.303.A.3.b.i.)						
D. If exempt from S & O protection due to 25-gallon transfers, mark here.						

Tank Identification Number (MUST BE ASSIGNED BY LDEQ)	Tank No. 3892		Tank No. 3893		Tank No. 3894		Tank No.		Tank No.		Tank No.	
IX. RELEASE DETECTION - Mark all that apply. (Installation of equipment, as indicated by an asterisk (*), must be supervised by a LDEQ-certified installer.)												
	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Manual tank gauging	✓		✓		✓							
B. Tank tightness testing	✓		✓		✓							
C. Inventory controls												
D. Line tightness testing		✓		✓		✓						
* E. Automatic tank gauging												
* F. Groundwater monitoring												
* G. Interstitial monitoring - doubled walled												
* H. Interstitial monitoring - secondary containment												
* I. Automatic line leak detectors		✓		✓		✓						
* J. Vapor monitoring												
* K. Other method allowed by the LDEQ (Specify)												
X. CORROSION PROTECTION (for compliance with December 22, 1998 deadline)												
A. TANK - Date of installation/upgrade	12/97		12/97		12/97		/ /		/ /		/ /	
B. PIPING - Date of installation/upgrade	/ /		/ /		/ /		/ /		/ /		/ /	
C. Fiberglass-reinforced plastic												
D. Steel-fiberglass-reinforced-plastic composite tank												
E. Corrosion expert has determined leak due to corrosion will not occur												
F. Dielectric coating												
G. Impressed Current												
H. Cathodic Protection												
I. Interior Lining in tank	✓		✓		✓							
J. Combination of Interior Lining and Cathodic Protection for tank												
K. Other method allowed by the LDEQ (Specify)												

XI. LDEQ-CERTIFIED WORKER INFORMATION - Complete if this is an installation/upgrade performed on/after Jan. 20, 1992. (AFTER *JAN. 20, 1992, A CERTIFIED WORKER MUST BE PRESENT AND SUPERVISE THE CRITICAL JUNCTURES [AS DEFINED BY LAC 33:XI.1303] FOR INSTALLATIONS/UPGRADES.*)

Certificate Number of LDEQ-Certified Worker	Name of LDEQ-Certified Worker (Print or Type)	Name of LDEQ-Certified Worker's Employer (Print or Type)
IRC-0090	R.L. HALL	R.L. HALL & ASSOCIATES, INC.

XII. CERTIFICATION BY THE LDEQ-CERTIFIED WORKER FOR INSTALLATIONS PERFORMED ON OR AFTER JANUARY 20, 1992
The LDEQ-certified worker must complete this section by signing and dating, if this is an INSTALLATION performed on or after January 20, 1992.

CERTIFICATION OF INSTALLATION COMPLIANCE
I certify, under penalty of law, that the methods used to install this UST system(s) complies with a code of practice developed by a nationally recognized association or independent testing laboratory and in accordance with the manufacturer's instructions and the UST regulations.

R.L. Hall — Signature of LDEQ-Certified Worker (OWNER'S SIGNATURE NOT ACCEPTABLE) — Date: 3/24/97

XIII. CERTIFICATION BY THE OWNER FOR INSTALLATIONS AND UPGRADES PERFORMED ON OR AFTER DECEMBER 23, 1988
Owners must complete the top certification (A) for *installations*. Owners must complete the bottom certification (B) for *upgrades*

A. CERTIFICATION OF *INSTALLATION* COMPLIANCE
I certify, under penalty of law, that the methods used to install this UST system(s) complies with a code of practice developed by a nationally recognized association or independent testing laboratory and in accordance with the manufacturer's instructions and the UST regulations.

FURTHER CERTIFICATION OF INSTALLATION COMPLIANCE - Required for installations performed between Dec. 23, 1988, and Jan. 20, 1992.
I certify, under penalty of law, that at least one of the following methods of certification, testing, or inspection was used to demonstrate compliance.

N/A

CHECK ALL THAT APPLY:
- ___ Installer was certified by tank and/or piping manufacturers
- ___ Installation was inspected and certified by a registered engineer w/education and experience in UST system installations
- ___ The installation was inspected and approved by the LDEQ (documentation required)
- ___ Manufacturers' installation checklists were completed
- ___ Another method allowed by LDEQ was used (Specify) _____

CERTIFICATION OF CORROSION PROTECTION COMPLIANCE - Required for installations performed on/after Dec. 23, 1988.
I certify, under penalty of law, that I have met the corrosion protection requirements in accordance with the UST regulations of LAC 33:XI.303.A.1-2

Signature of Owner or Authorized Employee (CONTRACTOR'S SIGNATURE NOT ACCEPTABLE) — Date

B. CERTIFICATION OF *UPGRADE* COMPLIANCE
I certify, under penalty of law, that I have met the upgrade requirements in accordance with the UST regulations of LAC 33:XI.303.B.

Jim Bickley — Signature of Owner or Authorized Employee (CONTRACTOR'S SIGNATURE NOT ACCEPTABLE) — Date: 3/27/97

XIV. CERTIFICATION BY THE OWNER FOR ALL INSTALLATIONS AND UPGRADES REGARDLESS OF THE DATE

CERTIFICATION OF RELEASE DETECTION COMPLIANCE
I certify, under penalty of law, that I have met the release detection requirements in accordance with the UST regulations of LAC 33:XI.703.A-C.

CERTIFICATION OF TRUENESS, ACCURACY, AND COMPLETENESS OF INFORMATION
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Jim Bickley — Signature of Owner or Authorized Employee (CONTRACTOR'S SIGNATURE NOT ACCEPTABLE) — Date: 3/27/97

JIM BICKLEY — Name of Person Signing Form (Print or Type) — Div Gas Mgr — Official Title

NOTE: A current copy of the registration form must be kept on-site or at the nearest staffed facility.

RECEIVED

SEP 08 1997

UNDERGROUND STORAGE TANK DIVISION

UST-REG-02
Revised 12/96

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK DIVISION

UST-REG-02
Revised 12/96

REGISTRATION OF TECHNICAL REQUIREMENTS FOR USTS

INSTRUCTIONS: Use ink, and type or print all items except where a signature is required. Forms completed in pencil will not be accepted. A separate form must be completed for each facility/location containing underground storage tanks (USTs). The LDEQ will only accept an ORIGINAL registration form with ORIGINAL signatures. Photocopies and fax copies of the form will not be accepted. If there are more than six tanks at a location, attach another original form with Section IV through Section X completed. If continuation sheets are attached, indicate the number of attached sheets here: ☐

RETURN COMPLETED FORM TO: LDEQ-UST DIVISION, REGISTRATION UNIT, POST OFFICE BOX 82178, BATON ROUGE, LA 70884-2178

FOR QUESTIONS, CALL THE REGISTRATION UNIT AT: (504) 765-0243

NOTE: ALL SECTIONS MUST BE COMPLETED. Registration forms lacking information will be returned. For amended registrations, be sure to include the identification numbers that have been assigned by the LDEQ (CONTACT THE LDEQ IF NECESSARY).

I. GENERAL REGISTRATION INFORMATION

☐ CHECK HERE IF THIS IS A LATE REGISTRATION (i.e., if not filed within 30 days of the tank being put into service)

Your Federal ID # 72-0645812

Facility ID # (ASSIGNED BY LDEQ) 61-002395

Owner ID # (ASSIGNED BY LDEQ) 00075100

REASON FOR REGISTRATION:
- ___ New Tank(s) and New Facility
- ___ Replacement Tank(s)
- ___ Additional Tank(s)
- ✓ Amended (Specify below)
  - ✓ Upgrade
  - ___ Other (Specify) ___

STATE USE ONLY
Federal ID# 72-0999270
Date Entered 9/8/97
Data Entry Clerk Z
___ Other Information Received

II. OWNER INFORMATION

Owner Name (corporation, individual, public agency, or other entity): CRACKER BARREL STORES, INC.

Mailing Address: 12221 INDUSTRIPLEX BLVD.

City: BATON ROUGE State: LA Zip Code: 70809

Telephone Number (include Area Code): (504) 753-3200

III. FACILITY INFORMATION

All lines must be filled in COMPLETELY.

Facility Name or Company Site Identifier, as applicable: CRACKER BARREL # 28

Street Address - physical location (P.O. Box or route # not acceptable): 133 LOBDELL HWY. 415

City: PORT ALLEN State: LA Zip Code: 70767

Telephone Number (include Area Code): (504) 381-9421

RESERVED FOR STATE USE ONLY

Parish: WEST BATON ROUGE

Number of tanks at this location: 3

Latitude ___ DEGREES ___ MINUTES ___ SECONDS

Longitude ___ DEGREES ___ MINUTES ___ SECONDS

Tank Identification Number (MUST BE ASSIGNED BY LDEQ)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
IV. GENERAL TANK INFORMATION						
A. Total Capacity (gal.) - must specify	10,000	10,000	10,000			
B. Substance stored in tank	GASOLINE	GASOLINE	GASOLINE			
V. TANK MATERIAL - Mark all that apply.						
Has tank ever leaked?	Yes___No ✓	Yes___No ✓	Yes___No ✓	Yes___No___	Yes___No___	Yes___No___
If yes, when? (Specify at least year)						
A. Asphalt Coated or Bare Steel	✓	✓	✓			
B. Cathodically Protected Steel						
C. Epoxy Coated Steel						
D. Composite (Steel with Fiberglass)						
E. Fiberglass Reinforced Plastic						
F. Lined Interior	✓	✓	✓			
G. Double Walled						
H. Polyethylene Tank Jacket						
I. Concrete						
J. Excavation Liner						
K. Unknown						
L. Other (Specify)						
VI. PIPING MATERIAL - Mark all that apply.						
A. Bare Steel						
B. Galvanized Steel						
C. Fiberglass Reinforced Plastic	✓	✓	✓			
D. Copper						
E. Cathodically Protected						
F. Double Walled						
G. Secondary Containment						
H. Unknown						
I. Other (Specify)						
VII. PIPING TYPE - Mark all that apply.						
Has piping ever leaked?	Yes___No ✓	Yes___No ✓	Yes___No ✓	Yes___No___	Yes___No___	Yes___No___
If yes, when? (Specify at least year)						
A. Suction: with Release Detection						
B. Suction: without Release Detection						
C. Pressure	✓	✓	✓			
D. Gravity feed						
VIII. SPILL AND OVERFILL PROTECTION						
A. Spill containment (Date installed)	2/ 197	2/ 197	2/ 197	/ /	/ /	/ /
B. Overfill prevention (Date installed)	2/ 197	2/ 197	2/ 197	/ /	/ /	/ /
C. If alternative equipment installed, specify type (LAC 33:XI.303.A.3.b i.)						
D. If exempt from S & O protection due to 25-gallon transfers, mark here.						

Tank Identification Number (MUST BE ASSIGNED BY LDEQ)	Tank No.		Tank No.		Tank No.		Tank No.		Tank No.		Tank No.	
IX. RELEASE DETECTION - Mark all that apply. (Installation of equipment, as indicated by an asterisk (*), must be supervised by a LDEQ-certified installer.)												
	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Manual tank gauging	✓	X	✓	X	✓	X		X		X		X
B. Tank tightness testing	✓	X	✓	X	✓	X		X		X		X
C. Inventory controls	✓	X	✓	X	✓	X		X		X		X
D. Line tightness testing	X	✓	X	✓	X	✓	X		X	X		
* E. Automatic tank gauging		X		X		X		X		X		X
* F. Groundwater monitoring												
* G. Interstitial monitoring - doubled walled												
* H. Interstitial monitoring - secondary containment												
* I. Automatic line leak detectors	X	✓	X	✓	X	✓	X		X		X	
* J. Vapor monitoring												
* K. Other method allowed by the LDEQ (Specify)												
X. CORROSION PROTECTION (for compliance with December 22, 1998 deadline)												
A. TANK - Date of installation/upgrade	21	97	21	197	21	197	/	/	/	/	/	/
B. PIPING - Date of installation/upgrade	/	/	/	/	/	/	/	/	/	/	/	/
C. Fiberglass-reinforced plastic												
D. Steel-fiberglass-reinforced-plastic composite tank		X		X		X		X		X		X
E. Corrosion expert has determined leak due to corrosion will not occur												
F. Dielectric coating												
G. Impressed Current												
H. Cathodic Protection												
I. Interior Lining in tank	✓	X	✓	X	✓	X		X		X		X
J. Combination of Interior Lining and Cathodic Protection for tank		X		X		X		X		X		X
K. Other method allowed by the LDEQ (Specify)												

XI. LDEQ-CERTIFIED WORKER INFORMATION - Complete if this is an installation/upgrade performed on/after Jan. 20, 1992. *(AFTER JAN. 20, 1992, A CERTIFIED WORKER MUST BE PRESENT AND SUPERVISE THE CRITICAL JUNCTURES (AS DEFINED BY LAC 33:XI.1303) FOR INSTALLATIONS/UPGRADES.)*

IRC-0090	RANDY HALL	R.L. HALL & ASSOCIATES, INC.
Certificate Number of LDEQ-Certified Worker	Name of LDEQ-Certified Worker (Print or Type)	Name of LDEQ-Certified Worker's Employer (Print or Type)

XII. CERTIFICATION BY THE LDEQ-CERTIFIED WORKER FOR INSTALLATIONS PERFORMED ON OR AFTER JANUARY 20, 1992
The LDEQ-certified worker must complete this section by signing and dating, if this is an INSTALLATION performed on or after January 20, 1992.

CERTIFICATION OF INSTALLATION COMPLIANCE
I certify, under penalty of law, that the methods used to install this UST system(s) complies with a code of practice developed by a nationally recognized association or independent testing laboratory and in accordance with the manufacturer's instructions and the UST regulations.

L L Hall — Signature of LDEQ-Certified Worker (OWNER'S SIGNATURE NOT ACCEPTABLE) — Date: 8/28/97

XIII. CERTIFICATION BY THE OWNER FOR INSTALLATIONS AND UPGRADES PERFORMED ON OR AFTER DECEMBER 23, 1988
Owners must complete the top certification (A) for *installations*. Owners must complete the bottom certification (B) for *upgrades*.

A. CERTIFICATION OF *INSTALLATION* COMPLIANCE
I certify, under penalty of law, that the methods used to install this UST system(s) complies with a code of practice developed by a nationally recognized association or independent testing laboratory and in accordance with the manufacturer's instructions and the UST regulations.

FURTHER CERTIFICATION OF INSTALLATION COMPLIANCE - Required for installations performed between Dec. 23, 1988, and Jan. 20, 1992.
I certify, under penalty of law, that at least one of the following methods of certification, testing, or inspection was used to demonstrate compliance.

CHECK ALL THAT APPLY:
- ___ Installer was certified by tank and/or piping manufacturers
- ___ Installation was inspected and certified by a registered engineer w/education and experience in UST system installations
- ___ The installation was inspected and approved by the LDEQ (documentation required)
- ___ Manufacturers' installation checklists were completed
- ___ Another method allowed by LDEQ was used (Specify) ___

CERTIFICATION OF CORROSION PROTECTION COMPLIANCE - Required for installations performed on/after Dec. 23, 1988.
I certify, under penalty of law, that I have met the corrosion protection requirements in accordance with the UST regulations of LAC 33:XI.303.A.1-2.

Jim Bickley — Signature of Owner or Authorized Employee (CONTRACTOR'S SIGNATURE NOT ACCEPTABLE) — Date: 9/2/97

B. CERTIFICATION OF *UPGRADE* COMPLIANCE
I certify, under penalty of law, that I have met the upgrade requirements in accordance with the UST regulations of LAC 33:XI.303.B.

Jim Bickley — Signature of Owner or Authorized Employee (CONTRACTOR'S SIGNATURE NOT ACCEPTABLE) — Date: 9/2/97

XIV. CERTIFICATION BY THE OWNER FOR ALL INSTALLATIONS AND UPGRADES REGARDLESS OF THE DATE

CERTIFICATION OF RELEASE DETECTION COMPLIANCE
I certify, under penalty of law, that I have met the release detection requirements in accordance with the UST regulations of LAC 33:XI.703 A-C.

CERTIFICATION OF TRUENESS, ACCURACY, AND COMPLETENESS OF INFORMATION
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Jim Bickley — Signature of Owner or Authorized Employee (CONTRACTOR'S SIGNATURE NOT ACCEPTABLE) — Date: 9/2/97

JIM BICKLEY — Name of Person Signing Form (Print or Type) — Job Gas Mgr — Official Title

NOTE: A current copy of the registration form must be kept on-site or at the nearest staffed facility.

LOUISIANA UNDERGROUND STORAGE TANK DIVISION
INSPECTION REPORT

FACILITY ID # _____ SPILL LOG # _____
INSPECTION DATE 7/19/90
1. Facility Cracker Barrel #28
2. Street Hwy 415
3. City Port Allen, La.
4. Zip 70767
5. Parish W Baton Rouge
6. Telephone 381-9421

7. Owner Cracker Barrel, Inc
8. Street Industriplex
9. City Baton Rouge, La
10. Owner Phone 293-3200

Responsible Party Information
for leaking tanks

11. [✓] Responsible Party Identified
12. [ ] Incapable

Responsible Party Search
13. [ ] failed 14. [ ] Incomplete

Field Investigation

15. [✓] INITIAL
16. [ ] FOLLOW-UP
17. [ ] CLOSURE (No leak)
18. [ ] Leaking Tank
19. [ ] Petroleum
20. [ ] Hazardous
21. [ ] Other _____

Clean-up Actions Taken

(Check blocks in this section only if one of the following applies 1) vapor recovery wells installed, 2) excavating earth, 3) free product on g.w. being remediated)

22. [ ] Clean-up Started 23. [ ] Clean-up Underway 24. [ ] Clean-up Complete
25. [ ] Responsible Party Lead 26. [ ] State Lead

Responses to Suspected UST Releases
(complete this section only on initial investigation)

27. [✓] Emergency Response
28. [ ] Complaint
29. [ ] Owner/Operator Notification
30. [ ] Other _____
31. [✓] Release Confirmed
32. [✓] Petroleum
33. [ ] Hazardous
34. [✓] Amt released 5-6 gal (gallons)

5-6 gal. of gas were spilled when motorist hit gas pump. A line or something cracked below unleaded pump. Raymond Pylant is coming to fix pump. Absorbent material was spread over parking lot to pick up gas. The gas below pump was dipped up + put in bucket. Rick Johnson (emergency response) OK'd the disposal of absorbent material.

Person Interviewed Bruce Taylor
Report By: Diana Lee Stelly
(signature)

Inspector(s):

DAS

WHITE - Main Office, YELLOW - Tech Services, PINK - Region

File 1 Dennis

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

PAUL TEMPLET
Secretary

August 7, 1991

Mr. Frank Sadler
Cracker Barrel Stores, Inc.
1221 Industriplex Blvd.
Baton Rouge, LA 70809

RE: Termination of Remediation
Cracker Barrel Store No. 28
La. 415, 133 Lobdell
Port Allen, LA
(West Baton Rouge Parish)
FAC #61-002395
Incident #90-2-146

61-002395

Dear Mr. Sadler:

We are in receipt of your documentation dated July 23, 1990, regarding the above referenced incident. Thank you for sending us this information.

Based upon your data, we have no need at this time for further assessment or remediation to be conducted at the site in relation to this incident.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Dennis D. Strickland at (504) 925-4519.

Sincerely,

Frank L. Dautriel/DDS

Frank L. Dautriel, Program Manager
Underground Storage Tank Division

FLD:DDS\tb

ENGINEERING
ASSOCIATES, INC.
CONSULTING ENGINEERS
CIVIL • ENVIRONMENTAL • LAND SURVEYING

AUG 1 7 2007

August 14, 2007

Project No. 26035

Remediation Service Division
Manager:
Team Leader:
AI #:
TEMPO Task #:
Desk Copy File Room:

Mr. Steve Chustz
Louisiana Department of Environmental Quality
P.O. Box 4314
Baton Rouge, LA 70821-4314

Cracker Barrel Store No. 28
133 Lobdell Highway
Port Allen, Louisiana
A.I. No. 74892

Dear Mr. Chustz:

Submitted herewith please find a completed "Underground Storage Tank Closure/Assessment Form" and "Site Drawing Form" for the captioned site. Also attached are two copies of the rinse water disposal manifest, tank disposal receipts, and laboratory analysis report associated with this site. This submittal is on behalf of our client, North American Financial Group (dba Cracker Barrel Stores, Inc.).

As shown on the attached form, three USTs were removed from the captioned site on June 21, 2007. Confirmatory sample analysis results collected at the site indicate that all constituent concentrations are below RECAP Table 1 Screening Standards.

We appreciate your assistance in this matter. Should you have any questions or require additional information, please give us a call.

Sincerely,

ENGINEERING ASSOCIATES, INC.

Stephen J. Burnham, P.E.
President

c w/encl Mr. Ryan Wooten, Cracker Barrel Stores, Inc.
Mr. Jim Bickley, Cracker Barrel Stores, Inc. (letter only)

C:\08-07\26035\chustz.081407

STATE OF LOUISIANA
UNDERGROUND STORAGE TANK CLOSURE/ASSESSMENT FORM – PLEASE TYPE

Please complete and return within sixty (60) days after UST system closure or change-in-service

Return to: LDEQ-SURVEILLANCE DIVISION
P.O. Box 4312
Baton Rouge, LA 70821-4312
Questions: (225) 219-3615

DEQ Facility Number: AI # 74892
DEQ Owner ID Number: 00075100

I. OWNERSHIP OF TANKS

IF OWNER'S ADDRESS CHANGED, PLEASE CHECK ☐

Cracker Barrel Stores, Inc.
OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)

12221 Industriplex Blvd.
MAILING ADDRESS

Baton Rouge LA 70809
CITY STATE ZIP

East Baton Rouge
PARISH/COUNTY

(225) 753-3200
TELEPHONE (INCLUDE AREA CODE)

Jim Bickley
NAME OF CONTACT PERSON

II. LOCATION OF TANKS

IF SAME AS SECTION I, PLEASE CHECK ☐

Cracker Barrel Store No. 28
FACILITY NAME OR COMPANY SITE IDENTIFIER

133 Lobdell Highway
STREET ADDRESS (P. O. BOX NOT ACCEPTABLE)

Port Allen LA 70767
CITY STATE ZIP

West Baton Rouge
PARISH

( ) N/A
TELEPHONE (INCLUDE AREA CODE)

N/A
CONTACT PERSON AT THIS LOCATION

III. TANK INFORMATION (Attach Continuation Sheets If Necessary)

DEQ ASSIGNED TANK NUMBERS	SIZE OF TANKS (GALLONS)	PRODUCT LAST STORED IN TANK	CHOOSE ONE PER TANK 1 = Removed 2 = Closed-in-Place 3 = Change-in-Service[1] 4 = Removed & Replaced[2]	TANK PROPERLY LABELED? CIRCLE		HIGHEST LEL OR OXYGEN READING[3] LEL[4]	Oxygen	DATE OF CLOSURE OR CHANGE-IN-SERVICE
3892	10,000	gasoline	1	Y	N	0		06/21/07
3893	10,000	gasoline	1	Y	N	0		06/21/07
3894	10,000	diesel fuel	1	Y	N	0		06/21/07
				Y	N			/ /
				Y	N			/ /

1 - Indicate the non-regulated substance to be stored in the tank.
2 - A registration form addressing the replacement tank must be completed.
3 - Highest reading recorded just before tank removed from excavation.
4 - Lower Explosive Limit

IV. TANK

A. Date cleaned 06/21-22/07
B. Date disposed/recycled 06/21-22/07
C. Name of disposal site/recycling site: Louisiana Scrap Metal Rec.

V. TANK SLUDGES

A. Date disposed/recycled / /
B. Volume removed cu/yds
C. Name of disposal site: N/A

VI. TANK WATERS/WASHWATERS

A. Date disposed/recycled 06/22/07
B. Volume removed 207 gals
C. Name of disposal/recycling site: Gator Environmental

VII. CONTAMINATED SOIL

A. Date removed / /
D. Date disposed / /
B. Volume of soil removed N/A cu/yds
C. Name of disposal site

VIII. CONTAMINATED GROUNDWATER

A. Date removed / /
D. Date disposed / /
B. Volume of groundwater removed N/A gals
C. Name of disposal site/recycler

IX. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Jim Bickley, President
Cracker Barrel Stores, Inc.
PRINT OR TYPE OWNER'S NAME

[signature]
OWNER'S SIGNATURE

8/8/07
DATE

Steve Burnham / Tom B Smith
PRINT OR TYPE NAME OF CERTIFIED WORKER

[signature]
SIGNATURE OF CERTIFIED UST WORKER

C-0444/IRC006
CERTIFICATE NO.

8/8/07
DATE

FORMS THAT DO NOT INCLUDE THE OWNER'S AND UST WORKER'S SIGNATURES WILL BE REJECTED

LDEQ RESPONSE - DO NOT WRITE BELOW THIS LINE

☐ DEQ AI No. 74892
☑ UST system removed from database; no further action required at this time.
☐ Referred for remediation review.
☐ UST system removed from database; additional information required.

Signature of LDEQ Representative [signature] Telephone No.- 225-219-3427 Date 8/22/07 Supervisor's Initials [initials]

UST-SURV-02 **** INCOMPLETE FORMS MAY BE REJECTED **** Revised 10/03

SURV. DIV. MAIN OFFICE FILE

UNDERGROUND STORAGE TANK CLOSURE/ASSESSMENT FORM

INSTRUCTIONS

Within **SIXTY DAYS** after completing a UST closure or change-in-service, this form along with **two copies** of the following must be provided to the Surveillance Division:

1. site drawing;
2. analytical results with chain-of-custody documents; and
3. copies of all manifests, bills of lading or receipts for the disposition of tank(s), tank contents, soil and waters.

All applicable information required on the form must be addressed. Forms that are incomplete may be rejected.

Please **PRINT** clearly (press hard, as you are making four copies). After completion,. the owner is to forward all copies of the form to:

LDEQ-SURVEILLANCE DIVISION
P.O. Box 4312
Baton Rouge, LA 70821-4312

The Surveillance Division will distribute the remaining copies of the form as follows:

1. Original (White) - Surv. Div. Main Office File
2. Pink - DEQ REgional Office File
3. Goldenrod - Permits Div. Registration Files
4. Blue - UST Owner (After DEQ Processing)

PROCEDURES TO BE FOLLOWED

The procedures which must be followed when performing a UST closure or change-in-service are provided in the "Underground Storage Tank Closure/Change-in-Service Assessment Guidelines." To obtain a copy of this document call the Surveillance Division at (225) 219-3615 or write to the address noted above, or on our website at www.ldeq.org.

NOTICE

Chapter 13 of the UST Regulations requires that owners of USTs ensure that the contractor chosen to perform the UST closure/change-in-service employs an individual who holds a current Louisiana DEQ certificate for closure. The certified person must be present at the site and exercising responsible supervisory control during the closure/change-in-service process. A list of contractors who employ DEQ certified workers can be obtained from the Permits Division, Certifications Section, at (225) 219-3029 or (225) 219-3031 or on our website at www.ldeq.org.

APPENDIX A

SITE DRAWING FORM

APPENDIX H
SURVEILLANCE DIVISION

UST-ENF-06
01/30/99

SITE DRAWING FORM

Revised

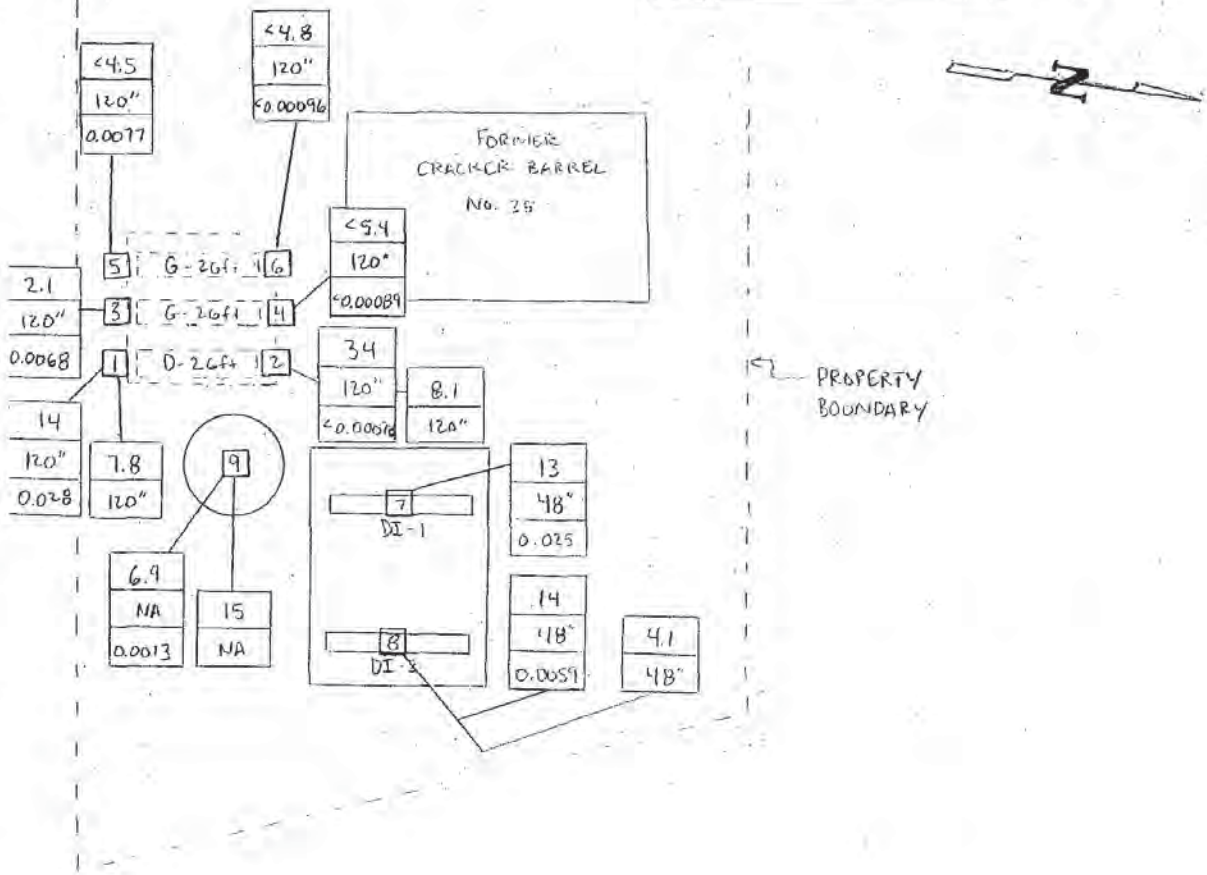
Name of Facility: Cracker Barrel No. 28 Facility Identification No. AI # 74892

Total Number of Samples Collected: 9

North

Approximate Scale (in feet)

0 30 60



LA HWY 415

Results of TPH-ORO (ppm)
Depth of Sample

Results of TPH-GRO (ppm)
* Depth of Sample (inches)
Results of Benzene (ppm)

Results of TPH-DRO (ppm)
* Depth of Sample (inches)

Removed UST
Closed-In-Place UST

Tank Hold Area

Dispenser Island

Dispenser

D – __ft: Tank Contained Diesel and Length of tank
G – __ft. Tank Contained Gasoline and Length of tank
UO – __ft: Tank Contained Used Oil and Length of tank

Excavated Soils to be Returned to Hole

Indicates Assigned Sample Number and Sample Location Groundwater NOT Encountered During Sampling

Indicates Assigned Sample Number and Sample Location Groundwater Encountered During Sampling

APPENDIX B

LABORATORY ANALYSIS REPORTS

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

26035

Case Narrative for:

ENGINEERING ASSOCIATES, INC

Certificate of Analysis Number:

07060929

Report To:		Project Name:	CB NO. 28/26035
ENGINEERING ASSOCIATES, INC		Site:	CRACKER BARREL #28
STEVE BURNHAM		Site Address:	
1415 DELPLAZA DRIVE, SUITE B			PORT ALLEN LA
BATON ROUGE		PO Number:	
LA		State:	Louisiana
70815-		State Cert. No.:	02048
ph: (225)926-2025	fax: (225)926-2033	Date Reported:	7/5/2007

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

EXCEPTIONS:
Volatile Organics-Method 8260B: There is no reportable data for sample T-2-S. The sample submitted preserved in methanol was not usable as the septum was compromised upon receipt by laboratory. The low level analysis using the sodium bisulfate preserved container was not reportable. The BTEX+MTBE data was reported using method 8021B.

Polynuclear Aromatic Hydrocarbons-Method 8270C: Lab batch 60448-The recovery of the surrogate 2-Fluorobiphenyl in the LCSD sample exceeded the upper laboratory control limit.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: 29 PAGES

Amy K. Jackson
Project Manager

07060929 Page 1
7/5/2007
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

ENGINEERING ASSOCIATES, INC

Certificate of Analysis Number:

07060929

Report To: ENGINEERING ASSOCIATES, INC
STEVE BURNHAM
1415 DELPLAZA DRIVE, SUITE B

BATON ROUGE
LA
70815-
ph: (225)926-2025 fax: (225)926-2033

Fax To: ENGINEERING ASSOCIATES, INC
STEVE BURNHAM fax: (225)926-2033

Project Name: CB NO. 28/26035
Site: CRACKER BARREL #28
Site Address:
PORT ALLEN LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 7/5/2007

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
T-1-N	07060929-01	Soil	6/21/2007 6:00:00 PM	6/22/2007 4:00:00 PM	260518	☐
T-1-S	07060929-02	Soil	6/21/2007 6:00:00 PM	6/22/2007 4:00:00 PM	260518	☐
T-2-S	07060929-03	Soil	6/21/2007 6:10:00 PM	6/22/2007 4:00:00 PM	260518	☐
T-2-N	07060929-04	Soil	6/21/2007 6:20:00 PM	6/22/2007 4:00:00 PM	260518	☐
T-3-N	07060929-05	Soil	6/21/2007 6:25:00 PM	6/22/2007 4:00:00 PM	260518	☐
T-3-S	07060929-06	Soil	6/21/2007 6:35:00 PM	6/22/2007 4:00:00 PM	260518	☐
BACKFILL	07060929-07	Soil	6/21/2007 6:40:00 PM	6/22/2007 4:00:00 PM	260518	☐

Amy K. Jackson
Project Manager

7/5/2007
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Date: Thursday, July 05, 2007

*****SUMMARY REPORT*****

Company: ENGINEERING ASSOCIATES, INC
Project: CB NO. 28/26035
Site: CRACKER BARREL #28

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
07060929-01A	Soil	T-1-N	6/21/2007 6:00:00 PM	Benzene	ND	0.98 ug/Kg	SW8260B
				Toluene	2.6	0.98 ug/Kg	SW8260B
				Ethylbenzene	ND	0.98 ug/Kg	SW8260B
				Xylenes,Total	5.8	0.98 ug/Kg	SW8260B
				Methyl tert-butyl ether	ND	0.98 ug/Kg	SW8260B
				Gasoline Range Organics (C6-C10)	34	4.7 mg/Kg	SW8015B
				m,p-Xylene	4.4	2 ug/Kg	SW8260B
				o-Xylene	1.4	0.98 ug/Kg	SW8260B
07060929-01B	Soil	T-1-N	6/21/2007 6:00:00 PM	Naphthalene	0.13	0.033 mg/Kg	SW8270C
				Lead	14.7	1 mg/Kg	SW6010B
				Diesel Range Organics (C10-C28)	8.1	3.3 mg/Kg	SW8015B
				2-Methylnaphthalene	0.28	0.033 mg/Kg	SW8270C
				Acenaphthene	ND	0.033 mg/Kg	SW8270C
				Acenaphthylene	ND	0.033 mg/Kg	SW8270C
				Anthracene	ND	0.033 mg/Kg	SW8270C
				Benz(a)anthracene	ND	0.033 mg/Kg	SW8270C
				Benzo(a)pyrene	ND	0.033 mg/Kg	SW8270C
				Benzo(b)fluoranthene	ND	0.033 mg/Kg	SW8270C
				Benzo(k)fluoranthene	ND	0.033 mg/Kg	SW8270C
				Chrysene	ND	0.033 mg/Kg	SW8270C
				Dibenz(a,h)anthracene	ND	0.033 mg/Kg	SW8270C
				Fluoranthene	ND	0.033 mg/Kg	SW8270C
				Fluorene	ND	0.033 mg/Kg	SW8270C
				Indeno(1,2,3-cd)pyrene	ND	0.033 mg/Kg	SW8270C
				Phenanthrene	ND	0.033 mg/Kg	SW8270C
				Pyrene	ND	0.033 mg/Kg	SW8270C
07060929-02A	Soil	T-1-S	6/21/2007 6:00:00 PM	Benzene	28	1.1 ug/Kg	SW8260B
				Toluene	8.2	1.1 ug/Kg	SW8260B
				Ethylbenzene	65	1.1 ug/Kg	SW8260B
				Xylenes,Total	16	1.1 ug/Kg	SW8260B
				Methyl tert-butyl ether	ND	1.1 ug/Kg	SW8260B
				Gasoline Range Organics (C6-C10)	14	5.2 mg/Kg	SW8015B
				m,p-Xylene	14	2.2 ug/Kg	SW8260B
				o-Xylene	2	1.1 ug/Kg	SW8260B

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Date: Thursday, July 05, 2007

*****SUMMARY REPORT*****

Company: ENGINEERING ASSOCIATES, INC **Project:** CB NO. 28/26035
Site: CRACKER BARREL #28

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
07060929-02B	Soil	T-1-S	6/21/2007 6:00:00 PM	Naphthalene	0.39	0.033 mg/Kg	SW8270C
				Lead	9.5	1 mg/Kg	SW6010B
				Diesel Range Organics (C10-C28)	7.8	3.3 mg/Kg	SW8015B
				2-Methylnaphthalene	0.39	0.033 mg/Kg	SW8270C
				Acenaphthene	ND	0.033 mg/Kg	SW8270C
				Acenaphthylene	ND	0.033 mg/Kg	SW8270C
				Anthracene	ND	0.033 mg/Kg	SW8270C
				Benz(a)anthracene	ND	0.033 mg/Kg	SW8270C
				Benzo(a)pyrene	ND	0.033 mg/Kg	SW8270C
				Benzo(b)fluoranthene	ND	0.033 mg/Kg	SW8270C
				Benzo(k)fluoranthene	ND	0.033 mg/Kg	SW8270C
				Chrysene	ND	0.033 mg/Kg	SW8270C
				Dibenz(a,h)anthracene	ND	0.033 mg/Kg	SW8270C
				Fluoranthene	ND	0.033 mg/Kg	SW8270C
				Fluorene	ND	0.033 mg/Kg	SW8270C
				Indeno(1,2,3-cd)pyrene	ND	0.033 mg/Kg	SW8270C
				Phenanthrene	ND	0.033 mg/Kg	SW8270C
				Pyrene	ND	0.033 mg/Kg	SW8270C
07060929-03A	Soil	T-2-S	6/21/2007 6:10:00 PM	Benzene	0.0068	0.00093 mg/K	SW8021B
				Toluene	0.0036	0.00093 mg/K	SW8021B
				Ethylbenzene	0.0063	0.00093 mg/K	SW8021B
				Xylenes,Total	0.0083	0.00093 mg/K	SW8021B
				Methyl tert-butyl ether	0.0086	0.0074 mg/Kg	SW8021B
				Gasoline Range Organics (C6-C10)	2.1	0.093 mg/Kg	SW8015B
				m,p-Xylene	0.0049	0.0019 mg/Kg	SW8021B
				o-Xylene	0.0034	0.00093 mg/K	SW8021B
07060929-03B	Soil	T-2-S	6/21/2007 6:10:00 PM	Lead	30.3	1 mg/Kg	SW6010B
07060929-04A	Soil	T-2-N	6/21/2007 6:20:00 PM	Benzene	ND	0.89 ug/Kg	SW8260B
				Toluene	ND	0.89 ug/Kg	SW8260B
				Ethylbenzene	ND	0.89 ug/Kg	SW8260B
				Xylenes,Total	ND	0.893 ug/Kg	SW8260B
				Methyl tert-butyl ether	ND	0.89 ug/Kg	SW8260B
				Gasoline Range Organics (C6-C10)	ND	5.4 mg/Kg	SW8015B
				m,p-Xylene	ND	1.8 ug/Kg	SW8260B
				o-Xylene	ND	0.89 ug/Kg	SW8260B
07060929-04B	Soil	T-2-N	6/21/2007 6:20:00 PM	Lead	10.3	1 mg/Kg	SW6010B

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Date: Thursday, July 05, 2007

*****SUMMARY REPORT*****

Company: ENGINEERING ASSOCIATES, INC **Project:** CB NO. 28/26035
Site: CRACKER BARREL #28

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
07060929-05A	Soil	T-3-N	6/21/2007 6:25:00 PM	Benzene	ND	0.96 ug/Kg	SW8260B
				Toluene	ND	0.96 ug/Kg	SW8260B
				Ethylbenzene	ND	0.96 ug/Kg	SW8260B
				Xylenes,Total	ND	0.962 ug/Kg	SW8260B
				Methyl tert-butyl ether	ND	0.96 ug/Kg	SW8260B
				Gasoline Range Organics (C6-C10)	ND	4.8 mg/Kg	SW8015B
				m,p-Xylene	ND	1.9 ug/Kg	SW8260B
				o-Xylene	ND	0.96 ug/Kg	SW8260B
07060929-05B	Soil	T-3-N	6/21/2007 6:25:00 PM	Lead	12.7	1 mg/Kg	SW6010B
07060929-06A	Soil	T-3-S	6/21/2007 6:35:00 PM	Benzene	7.7	0.96 ug/Kg	SW8260B
				Toluene	ND	0.96 ug/Kg	SW8260B
				Ethylbenzene	17	0.96 ug/Kg	SW8260B
				Xylenes,Total	21	0.96 ug/Kg	SW8260B
				Methyl tert-butyl ether	ND	0.96 ug/Kg	SW8260B
				Gasoline Range Organics (C6-C10)	ND	4.5 mg/Kg	SW8015B
				m,p-Xylene	21	1.9 ug/Kg	SW8260B
				o-Xylene	ND	0.96 ug/Kg	SW8260B
07060929-06B	Soil	T-3-S	6/21/2007 6:35:00 PM	Lead	9.95	1 mg/Kg	SW6010B
07060929-07A	Soil	BACKFILL	6/21/2007 6:40:00 PM	Benzene	1.3	0.88 ug/Kg	SW8260B
				Toluene	1	0.88 ug/Kg	SW8260B
				Ethylbenzene	ND	0.88 ug/Kg	SW8260B
				Xylenes,Total	ND	0.88 ug/Kg	SW8260B
				Methyl tert-butyl ether	ND	0.88 ug/Kg	SW8260B
				Gasoline Range Organics (C6-C10)	6.9	5.1 mg/Kg	SW8015B
				m,p-Xylene	ND	1.8 ug/Kg	SW8260B
				o-Xylene	ND	0.88 ug/Kg	SW8260B

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Date: Thursday, July 05, 2007

*****SUMMARY REPORT*****

Company: ENGINEERING ASSOCIATES, INC **Project:** CB NO. 28/26035
Site: CRACKER BARREL #28

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
07060929-07B	Soil	BACKFILL	6/21/2007 6:40:00 PM	Naphthalene	0.49	0.033 mg/Kg	SW8270C
				Lead	11.3	1 mg/Kg	SW6010B
				Diesel Range Organics (C10-C28)	15	3.3 mg/Kg	SW8015B
				2-Methylnaphthalene	0.94	0.033 mg/Kg	SW8270C
				Acenaphthene	ND	0.033 mg/Kg	SW8270C
				Acenaphthylene	ND	0.033 mg/Kg	SW8270C
				Anthracene	ND	0.033 mg/Kg	SW8270C
				Benz(a)anthracene	ND	0.033 mg/Kg	SW8270C
				Benzo(a)pyrene	ND	0.033 mg/Kg	SW8270C
				Benzo(b)fluoranthene	ND	0.033 mg/Kg	SW8270C
				Benzo(k)fluoranthene	ND	0.033 mg/Kg	SW8270C
				Chrysene	ND	0.033 mg/Kg	SW8270C
				Dibenz(a,h)anthracene	ND	0.033 mg/Kg	SW8270C
				Fluoranthene	ND	0.033 mg/Kg	SW8270C
				Fluorene	ND	0.033 mg/Kg	SW8270C
				Indeno(1,2,3-cd)pyrene	ND	0.033 mg/Kg	SW8270C
				Phenanthrene	ND	0.033 mg/Kg	SW8270C
				Pyrene	ND	0.033 mg/Kg	SW8270C

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: T-1-N **Collected:** 06/21/2007 18:00 **SPL Sample ID:** 07060929-01

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
RECAP PAHS BY METHOD 8270C				**MCL**	**SW8270C**	**Units: mg/Kg**	
2-Methylnaphthalene	0.28		0.033	1	06/25/07 18:07	KTK	2271316
Acenaphthene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Acenaphthylene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Anthracene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Benz(a)anthracene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Benzo(a)pyrene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Benzo(b)fluoranthene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Benzo(k)fluoranthene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Chrysene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Dibenz(a,h)anthracene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Fluoranthene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Fluorene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Indeno(1,2,3-cd)pyrene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Naphthalene	0.13		0.033	1	06/25/07 18:07	KTK	2271316
Phenanthrene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Pyrene	ND		0.033	1	06/25/07 18:07	KTK	2271316
Surr:2-Fluorobiphenyl	82.9		% 25-97.9	1	06/25/07 18:07	KTK	2271316
Surr:4-Terphenyl-d14	89.0		% 17-145	1	06/25/07 18:07	KTK	2271316
Surr:Nitrobenzene-d5	60.4		% 18-97.7	1	06/25/07 18:07	KTK	2271316

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	06/23/2007 13:45	CAH	1.00

RECAP DIESEL RANGE ORGANICS BY METHOD 8015B				**MCL**	**SW8015B**	**Units: mg/Kg**	
Diesel Range Organics (C10-C28)	8.1		3.3	1	06/25/07 22:08	DF	2272518
Surr: o-Terphenyl	84.3		% 35-147	1	06/25/07 22:08	DF	2272518

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	06/23/2007 14:36	CAH	1.00

RECAP GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/Kg**	
Gasoline Range Organics (C6-C10)	34		4.7	50	06/26/07 0:49	SNV	2271088
Surr:1,4-Difluorobenzene	104		% 46-138	50	06/26/07 0:49	SNV	2271088
Surr:4-Bromofluorobenzene	101		% 38-148	50	06/26/07 0:49	SNV	2271088

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:00	Field	0.94

TOTAL METALS BY METHOD 6010B				**MCL**	**SW6010B**	**Units: mg/Kg**	
Lead	14.7		1	1	06/26/07 12:43	RJD	2272594

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: T-1-N **Collected:** 06/21/2007 18:00 **SPL Sample ID:** 07060929-01

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	06/25/2007 11:30	SA	1.00

VOLATILE ORGANICS : METHOD 8260B MCL SW8260B Units: ug/Kg

Benzene	ND		0.98	1	06/28/07 7:45	AMT	2275239
Ethylbenzene	ND		0.98	1	06/28/07 7:45	AMT	2275239
Methyl tert-butyl ether	ND		0.98	1	06/28/07 7:45	AMT	2275239
Toluene	2.6		0.98	1	06/28/07 7:45	AMT	2275239
m,p-Xylene	4.4		2	1	06/28/07 7:45	AMT	2275239
o-Xylene	1.4		0.98	1	06/28/07 7:45	AMT	2275239
Xylenes,Total	5.8		0.98	1	06/28/07 7:45	AMT	2275239
Surr:1,2-Dichloroethane-d4	142	%	58-165	1	06/28/07 7:45	AMT	2275239
Surr:4-Bromofluorobenzene	102	%	47-145	1	06/28/07 7:45	AMT	2275239
Surr: Toluene-d8	99.7	%	51-147	1	06/28/07 7:45	AMT	2275239

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:00	Field	0.98

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: T-1-S **Collected:** 06/21/2007 18:00 **SPL Sample ID:** 07060929-02

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
RECAP PAHS BY METHOD 8270C				**MCL**	**SW8270C**	**Units: mg/Kg**	
2-Methylnaphthalene	0.39		0.033	1	06/25/07 18:41	KTK	2271317
Acenaphthene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Acenaphthylene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Anthracene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Benz(a)anthracene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Benzo(a)pyrene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Benzo(b)fluoranthene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Benzo(k)fluoranthene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Chrysene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Dibenz(a,h)anthracene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Fluoranthene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Fluorene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Indeno(1,2,3-cd)pyrene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Naphthalene	0.39		0.033	1	06/25/07 18:41	KTK	2271317
Phenanthrene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Pyrene	ND		0.033	1	06/25/07 18:41	KTK	2271317
Surr:2-Fluorobiphenyl	81.9		% 25-97.9	1	06/25/07 18:41	KTK	2271317
Surr:4-Terphenyl-d14	86.6		% 17-145	1	06/25/07 18:41	KTK	2271317
Surr:Nitrobenzene-d5	63.1		% 18-97.7	1	06/25/07 18:41	KTK	2271317

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW3550B	06/23/2007 13:45	CAH	1.00

RECAP DIESEL RANGE ORGANICS BY METHOD 8015B				**MCL**	**SW8015B**	**Units: mg/Kg**	
Diesel Range Organics (C10-C28)	7.8		3.3	1	06/25/07 22:26	DF	2272519
Surr: o-Terphenyl	72.3		% 35-147	1	06/25/07 22:26	DF	2272519

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW3550B	06/23/2007 14:36	CAH	1.00

RECAP GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/Kg**	
Gasoline Range Organics (C6-C10)	14		5.2	50	06/25/07 20:21	SNV	2271081
Surr:1,4-Difluorobenzene	104		% 46-138	50	06/25/07 20:21	SNV	2271081
Surr:4-Bromofluorobenzene	98.4		% 38-148	50	06/25/07 20:21	SNV	2271081

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:00	Field	1.04

TOTAL METALS BY METHOD 6010B				**MCL**	**SW6010B**	**Units: mg/Kg**	
Lead	9.5		1	1	06/26/07 13:41	RJD	2272602

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: T-1-S **Collected:** 06/21/2007 18:00 **SPL Sample ID:** 07060929-02

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	06/25/2007 11:30	SA	1.00

VOLATILE ORGANICS : METHOD 8260B			MCL	SW8260B	Units: ug/Kg	
Benzene	28	1.1	1	06/28/07 8:14	AMT	2275240
Ethylbenzene	65	1.1	1	06/28/07 8:14	AMT	2275240
Methyl tert-butyl ether	ND	1.1	1	06/28/07 8:14	AMT	2275240
Toluene	8.2	1.1	1	06/28/07 8:14	AMT	2275240
m,p-Xylene	14	2.2	1	06/28/07 8:14	AMT	2275240
o-Xylene	2	1.1	1	06/28/07 8:14	AMT	2275240
Xylenes,Total	16	1.1	1	06/28/07 8:14	AMT	2275240
Surr:1,2-Dichloroethane-d4	128	% 58-165	1	06/28/07 8:14	AMT	2275240
Surr:4-Bromofluorobenzene	101	% 47-145	1	06/28/07 8:14	AMT	2275240
Surr: Toluene-d8	92.9	% 51-147	1	06/28/07 8:14	AMT	2275240

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:00	Field	1.11

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: T-2-S **Collected:** 06/21/2007 18:10 **SPL Sample ID:** 07060929-03

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
BTEX + MTBE BY METHOD 8021B				**MCL**	**SW8021B**	**Units: mg/Kg**	
Benzene	0.0068		0.00093	1	06/25/07 23:35	TDD	2280144
Ethylbenzene	0.0063		0.00093	1	06/25/07 23:35	TDD	2280144
Methyl tert-butyl ether	0.0086		0.0074	1	06/25/07 23:35	TDD	2280144
Toluene	0.0036		0.00093	1	06/25/07 23:35	TDD	2280144
m,p-Xylene	0.0049		0.0019	1	06/25/07 23:35	TDD	2280144
o-Xylene	0.0034		0.00093	1	06/25/07 23:35	TDD	2280144
Xylenes, Total	0.0083		0.00093	1	06/25/07 23:35	TDD	2280144
Surr:1,4-Difluorobenzene	82.5		% 73-125	1	06/25/07 23:35	TDD	2280144
Surr:4-Bromofluorobenzene	127		% 54-159	1	06/25/07 23:35	TDD	2280144

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:10	Field	0.93

RECAP GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/Kg**	
Gasoline Range Organics (C6-C10)	2.1		0.093	1	06/25/07 23:35	SNV	2271204
Surr:1,4-Difluorobenzene	128		% 46-138	1	06/25/07 23:35	SNV	2271204
Surr:4-Bromofluorobenzene	101		% 38-148	1	06/25/07 23:35	SNV	2271204

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:10	Field	0.93

TOTAL METALS BY METHOD 6010B				**MCL**	**SW6010B**	**Units: mg/Kg**	
Lead	30.3		1	1	06/26/07 13:47	RJD	2272603

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	06/25/2007 11:30	SA	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: T-2-N **Collected:** 06/21/2007 18:20 **SPL Sample ID:** 07060929-04

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
RECAP GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/Kg**	
Gasoline Range Organics (C6-C10)	ND		5.4	50	06/25/07 20:51	SNV	2271082
Surr: 1,4-Difluorobenzene	102		% 46-138	50	06/25/07 20:51	SNV	2271082
Surr: 4-Bromofluorobenzene	98.2		% 38-148	50	06/25/07 20:51	SNV	2271082

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:20	Field	1.09

TOTAL METALS BY METHOD 6010B				**MCL**	**SW6010B**	**Units: mg/Kg**	
Lead	10.3		1	1	06/26/07 13:52	RJD	2272604

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW3050B	06/25/2007 11:30	SA	1.00

VOLATILE ORGANICS : METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	ND		0.89	1	06/28/07 8:44	AMT	2275241
Ethylbenzene	ND		0.89	1	06/28/07 8:44	AMT	2275241
Methyl tert-butyl ether	ND		0.89	1	06/28/07 8:44	AMT	2275241
Toluene	ND		0.89	1	06/28/07 8:44	AMT	2275241
m,p-Xylene	ND		1.8	1	06/28/07 8:44	AMT	2275241
o-Xylene	ND		0.89	1	06/28/07 8:44	AMT	2275241
Xylenes, Total	ND		0.893	1	06/28/07 8:44	AMT	2275241
Surr: 1,2-Dichloroethane-d4	119		% 58-165	1	06/28/07 8:44	AMT	2275241
Surr: 4-Bromofluorobenzene	96.7		% 47-145	1	06/28/07 8:44	AMT	2275241
Surr: Toluene-d8	97.4		% 51-147	1	06/28/07 8:44	AMT	2275241

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:20	Field	0.89

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: T-3-N **Collected:** 06/21/2007 18:25 **SPL Sample ID:** 07060929-05

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
RECAP GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/Kg**	
Gasoline Range Organics (C6-C10)	ND		4.8	50	06/25/07 21:21	SNV	2271083
Surr:1,4-Difluorobenzene	100		% 46-138	50	06/25/07 21:21	SNV	2271083
Surr:4-Bromofluorobenzene	96.9		% 38-148	50	06/25/07 21:21	SNV	2271083

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:25	Field	0.96

TOTAL METALS BY METHOD 6010B				**MCL**	**SW6010B**	**Units: mg/Kg**	
Lead	12.7		1	1	06/26/07 13:57	RJD	2272605

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	06/25/2007 11:30	SA	1.00

VOLATILE ORGANICS : METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	ND		0.96	1	06/28/07 9:14	AMT	2275242
Ethylbenzene	ND		0.96	1	06/28/07 9:14	AMT	2275242
Methyl tert-butyl ether	ND		0.96	1	06/28/07 9:14	AMT	2275242
Toluene	ND		0.96	1	06/28/07 9:14	AMT	2275242
m,p-Xylene	ND		1.9	1	06/28/07 9:14	AMT	2275242
o-Xylene	ND		0.96	1	06/28/07 9:14	AMT	2275242
Xylenes,Total	ND		0.962	1	06/28/07 9:14	AMT	2275242
Surr:1,2-Dichloroethane-d4	110		% 58-165	1	06/28/07 9:14	AMT	2275242
Surr:4-Bromofluorobenzene	95.1		% 47-145	1	06/28/07 9:14	AMT	2275242
Surr: Toluene-d8	96.1		% 51-147	1	06/28/07 9:14	AMT	2275242

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:25	Field	0.96

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: T-3-S **Collected:** 06/21/2007 18:35 **SPL Sample ID:** 07060929-06

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
RECAP GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/Kg**	
Gasoline Range Organics (C6-C10)	ND		4.5	50	06/26/07 1:18	SNV	2271089
Surr:1,4-Difluorobenzene	101		% 46-138	50	06/26/07 1:18	SNV	2271089
Surr:4-Bromofluorobenzene	99.0		% 38-148	50	06/26/07 1:18	SNV	2271089

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:35	Field	0.91

TOTAL METALS BY METHOD 6010B				**MCL**	**SW6010B**	**Units: mg/Kg**	
Lead	9.95		1	1	06/26/07 14:03	RJD	2272606

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW3050B	06/25/2007 11:30	SA	1.00

VOLATILE ORGANICS : METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	7.7		0.96	1	06/28/07 9:44	AMT	2275243
Ethylbenzene	17		0.96	1	06/28/07 9:44	AMT	2275243
Methyl tert-butyl ether	ND		0.96	1	06/28/07 9:44	AMT	2275243
Toluene	ND		0.96	1	06/28/07 9:44	AMT	2275243
m,p-Xylene	21		1.9	1	06/28/07 9:44	AMT	2275243
o-Xylene	ND		0.96	1	06/28/07 9:44	AMT	2275243
Xylenes,Total	21		0.96	1	06/28/07 9:44	AMT	2275243
Surr:1,2-Dichloroethane-d4	104		% 58-165	1	06/28/07 9:44	AMT	2275243
Surr:4-Bromofluorobenzene	95.1		% 47-145	1	06/28/07 9:44	AMT	2275243
Surr: Toluene-d8	97.3		% 51-147	1	06/28/07 9:44	AMT	2275243

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:35	Field	0.96

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BACKFILL **Collected:** 06/21/2007 18:40 **SPL Sample ID:** 07060929-07

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
RECAP PAHS BY METHOD 8270C				**MCL**	**SW8270C**	**Units: mg/Kg**	
2-Methylnaphthalene	0.94		0.033	1	06/25/07 19:15	KTK	2271344
Acenaphthene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Acenaphthylene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Anthracene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Benz(a)anthracene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Benzo(a)pyrene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Benzo(b)fluoranthene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Benzo(k)fluoranthene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Chrysene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Dibenz(a,h)anthracene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Fluoranthene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Fluorene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Indeno(1,2,3-cd)pyrene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Naphthalene	0.49		0.033	1	06/25/07 19:15	KTK	2271344
Phenanthrene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Pyrene	ND		0.033	1	06/25/07 19:15	KTK	2271344
Surr:2-Fluorobiphenyl	75.6		% 25-97.9	1	06/25/07 19:15	KTK	2271344
Surr:4-Terphenyl-d14	86.3		% 17-145	1	06/25/07 19:15	KTK	2271344
Surr:Nitrobenzene-d5	63.3		% 18-97.7	1	06/25/07 19:15	KTK	2271344

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW3550B	06/23/2007 13:45	CAH	1.00

RECAP DIESEL RANGE ORGANICS BY METHOD 8015B				**MCL**	**SW8015B**	**Units: mg/Kg**	
Diesel Range Organics (C10-C28)	15		3.3	1	06/25/07 22:45	DF	2272520
Surr: o-Terphenyl	69.1		% 35-147	1	06/25/07 22:45	DF	2272520

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW3550B	06/23/2007 14:36	CAH	1.00

RECAP GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/Kg**	
Gasoline Range Organics (C6-C10)	6.9		5.1	50	06/26/07 1:48	SNV	2271090
Surr:1,4-Difluorobenzene	103		% 46-138	50	06/26/07 1:48	SNV	2271090
Surr:4-Bromofluorobenzene	101		% 38-148	50	06/26/07 1:48	SNV	2271090

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:40	Field	1.02

TOTAL METALS BY METHOD 6010B				**MCL**	**SW6010B**	**Units: mg/Kg**	
Lead	11.3		1	1	06/26/07 14:08	RJD	2272607

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: BACKFILL **Collected:** 06/21/2007 18:40 **SPL Sample ID:** 07060929-07

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW3050B	06/25/2007 11:30	SA	1.00

VOLATILE ORGANICS : METHOD 8260B			MCL	SW8260B	Units: ug/Kg	
Benzene	1.3	0.88	1	06/28/07 10:13	AMT	2275244
Ethylbenzene	ND	0.88	1	06/28/07 10:13	AMT	2275244
Methyl tert-butyl ether	ND	0.88	1	06/28/07 10:13	AMT	2275244
Toluene	1	0.88	1	06/28/07 10:13	AMT	2275244
m,p-Xylene	ND	1.8	1	06/28/07 10:13	AMT	2275244
o-Xylene	ND	0.88	1	06/28/07 10:13	AMT	2275244
Xylenes,Total	ND	0.88	1	06/28/07 10:13	AMT	2275244
Surr:1,2-Dichloroethane-d4	109	% 58-165	1	06/28/07 10:13	AMT	2275244
Surr:4-Bromofluorobenzene	101	% 47-145	1	06/28/07 10:13	AMT	2275244
Surr: Toluene-d8	104	% 51-147	1	06/28/07 10:13	AMT	2275244

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/21/2007 18:40	Field	0.88

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: RECAP Diesel Range Organics by Method 8015B
Method: SW8015B
WorkOrder: 07060929
Lab Batch ID: 60450

Method Blank

RunID: TPHC_070625C-2272508 Units: mg/Kg
Analysis Date: 06/25/2007 18:30 Analyst: DF
Preparation Date: 06/23/2007 14:36 Prep By: CAH Method: SW3550B

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	3.3
Surr: o-Terphenyl	71.6	35-147

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07060929-01B	T-1-N
07060929-02B	T-1-S
07060929-07B	BACKFILL

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHC_070625C-2272509 Units: mg/Kg
Analysis Date: 06/25/2007 18:48 Analyst: DF
Preparation Date: 06/23/2007 14:36 Prep By: CAH Method: SW3550B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	100	68.8	68.8	100	69.7	69.7	1.2	35	34	106
Surr:o-Terphenyl	1.67	1.98	119	1.67	2.04	123	3.2	30	35	147

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07060780-04
RunID: TPHC_070625C-2272511 Units: mg/Kg
Analysis Date: 06/25/2007 19:24 Analyst: DF
Preparation Date: 06/23/2007 14:36 Prep By: CAH Method: SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	8.11	100	69.4	61.3	100	86.0	77.9	21.5	38	12	106
Surr:o-Terphenyl	ND	1.67	1.9	114	1.67	2.12	127	11.0	30	35	147

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: RECAP Gasoline Range Organics
Method: SW8015B
WorkOrder: 07060929
Lab Batch ID: R155598

Method Blank

RunID: HPEE_070623E-2271080 Units: mg/Kg
Analysis Date: 06/25/2007 16:23 Analyst: SNV

Analyte	Result	Rep Limit
Gasoline Range Organics (C6-C10)	ND	0.10
Surr: 1,4-Difluorobenzene	105.5	46-138
Surr: 4-Bromofluorobenzene	97.8	38-148

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07060929-01A	T-1-N
07060929-02A	T-1-S
07060929-04A	T-2-N
07060929-05A	T-3-N
07060929-06A	T-3-S
07060929-07A	BACKFILL

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPEE_070623E-2271078 Units: mg/Kg
Analysis Date: 06/25/2007 14:54 Analyst: SNV

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Gasoline Range Organics (C6-C10)	5.00	4.55	91.1	5.00	4.65	93.0	2.1	21	73	126
Surr:1,4-Difluorobenzene	30.0	51.1	170 *	30.0	51.6	172 *	0.8	30	46	138
Surr:4-Bromofluorobenzene	30.0	30.1	100	30.0	30.1	100	0.0	30	38	148

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: RECAP Gasoline Range Organics
Method: SW8015B

WorkOrder: 07060929
Lab Batch ID: R155603

Method Blank

RunID: HPZZ_070623I-2271197 Units: mg/Kg
Analysis Date: 06/25/2007 12:48 Analyst: SNV

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07060929-03A	T-2-S

Analyte	Result	Rep Limit
Gasoline Range Organics (C6-C10)	ND	0.10
Surr: 1,4-Difluorobenzene	104.7	46-138
Surr: 4-Bromofluorobenzene	101.9	38-148

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPZZ_070623I-2271195 Units: mg/Kg
Analysis Date: 06/25/2007 11:18 Analyst: SNV

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Gasoline Range Organics (C6-C10)	5.00	4.14	82.7	5.00	4.43	88.7	7.0	21	73	126
Surr:1,4-Difluorobenzene	30.0	40.3	134	30.0	43.4	145 *	7.2	30	46	138
Surr:4-Bromofluorobenzene	30.0	28.6	95.4	30.0	29.3	97.7	2.3	30	38	148

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: BTEX + MTBE by Method 8021B
Method: SW8021B

WorkOrder: 07060929
Lab Batch ID: R156143

Method Blank

RunID: HPZZ_070623R-2280142 Units: mg/Kg
Analysis Date: 06/25/2007 12:48 Analyst: TDD

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07060929-03A	T-2-S

Analyte	Result	Rep Limit
Benzene	ND	0.0010
Ethylbenzene	ND	0.0010
Methyl tert-butyl ether	ND	0.0080
Toluene	ND	0.0010
m,p-Xylene	ND	0.0020
o-Xylene	ND	0.0010
Xylenes,Total	ND	0.0010
Surr: 1,4-Difluorobenzene	95.3	73-125
Surr: 4-Bromofluorobenzene	102.7	54-159

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPZZ_070623R-2280140 Units: mg/Kg
Analysis Date: 06/25/2007 9:54 Analyst: TDD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	0.0500	0.0439	87.9	0.0500	0.0452	90.4	2.8	13	79	124
Ethylbenzene	0.0500	0.0477	95.4	0.0500	0.0486	97.2	1.8	13	77	128
Methyl tert-butyl ether	0.0500	0.0498	99.6	0.0500	0.0498	99.6	0.0	18	65	138
Toluene	0.0500	0.0449	89.9	0.0500	0.0454	90.8	1.0	13	80	123
m,p-Xylene	0.100	0.106	106	0.100	0.107	107	0.5	14	83	126
o-Xylene	0.0500	0.0504	101	0.0500	0.0511	102	1.3	12	78	126
Xylenes,Total	0.1500	0.1564	104.3	0.1500	0.1581	105.1	0.8	12	78	126
Surr:1,4-Difluorobenzene	30.0	27.9	92.9	30.0	28.0	93.2	0.4	30	73	125
Surr:4-Bromofluorobenzene	30.0	30.9	103	30.0	30.9	103	0.1	30	54	159

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: Total Metals by Method 6010B
Method: SW6010B
WorkOrder: 07060929
Lab Batch ID: 60471

Method Blank

RunID: ICPDV_070625K-2272592 Units: mg/Kg
Analysis Date: 06/26/2007 12:32 Analyst: RJD
Preparation Date: 06/25/2007 11:30 Prep By: SA Method: SW3050B

Analyte	Result	Rep Limit
Lead	ND	1

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07060929-01B	T-1-N
07060929-02B	T-1-S
07060929-03B	T-2-S
07060929-04B	T-2-N
07060929-05B	T-3-N
07060929-06B	T-3-S
07060929-07B	BACKFILL

Laboratory Control Sample (LCS)

RunID: ICPDV_070625K-2272593 Units: mg/Kg
Analysis Date: 06/26/2007 12:38 Analyst: RJD
Preparation Date: 06/25/2007 11:30 Prep By: SA Method: SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	121.0	132.7	109.6	80.6	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07060929-01
RunID: ICPDV_070625K-2272596 Units: mg/Kg
Analysis Date: 06/26/2007 12:54 Analyst: RJD
Preparation Date: 06/25/2007 11:30 Prep By: SA Method: SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	14.74	100	124.2	109.4	100	125.6	110.9	1.170	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

7/5/2007 12:07:28 PM

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: RECAP PAHs by Method 8270C
Method: SW8270C
WorkOrder: 07060929
Lab Batch ID: 60448

Method Blank

RunID: D_070625A-2271329 Units: mg/Kg
Analysis Date: 06/25/2007 16:45 Analyst: KTK
Preparation Date: 06/23/2007 13:45 Prep By: CAH Method: SW3550B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07060929-01B	T-1-N
07060929-02B	T-1-S
07060929-07B	BACKFILL

Analyte	Result	Rep Limit
2-Methylnaphthalene	ND	0.033
Acenaphthene	ND	0.033
Acenaphthylene	ND	0.033
Anthracene	ND	0.033
Benz(a)anthracene	ND	0.033
Benzo(a)pyrene	ND	0.033
Benzo(b)fluoranthene	ND	0.033
Benzo(k)fluoranthene	ND	0.033
Chrysene	ND	0.033
Dibenz(a,h)anthracene	ND	0.033
Fluoranthene	ND	0.033
Fluorene	ND	0.033
Indeno(1,2,3-cd)pyrene	ND	0.033
Naphthalene	ND	0.033
Phenanthrene	ND	0.033
Pyrene	ND	0.033
Surr: 2-Fluorobiphenyl	101.0	25-97.9
Surr: 4-Terphenyl-d14	94.2	17-145
Surr: Nitrobenzene-d5	89.1	18-97.7

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: D_070625A-2271330 Units: mg/Kg
Analysis Date: 06/25/2007 17:19 Analyst: KTK
Preparation Date: 06/23/2007 13:45 Prep By: CAH Method: SW3550B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
2-Methylnaphthalene	1.67	1.27	76.1	1.67	1.51	90.7	17.4	28	24	111
Acenaphthene	1.67	1.51	90.8	1.67	1.74	104	13.9	23	31	113
Acenaphthylene	1.67	1.63	98.0	1.67	1.87	112	13.3	23	27	114
Anthracene	1.67	1.46	87.3	1.67	1.67	100	13.5	23	33	119
Benz(a)anthracene	1.67	1.38	82.6	1.67	1.53	91.8	10.6	19	37	120
Benzo(a)pyrene	1.67	1.30	77.9	1.67	1.54	92.2	16.9	24	30	135
Benzo(b)fluoranthene	1.67	1.26	75.8	1.67	1.54	92.5	19.8	28	29	142
Benzo(k)fluoranthene	1.67	1.50	89.7	1.67	1.55	93.2	3.8	27	33	136
Chrysene	1.67	1.38	82.7	1.67	1.53	91.7	10.3	21	37	120
Dibenz(a,h)anthracene	1.67	0.804	48.2	1.67	0.910	54.6	12.4	31	26	133

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: RECAP PAHs by Method 8270C **WorkOrder:** 07060929
Method: SW8270C **Lab Batch ID:** 60448

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: D_070625A-2271330 Units: mg/Kg
Analysis Date: 06/25/2007 17:19 Analyst: KTK
PreparationDate: 06/23/2007 13:45 Prep By: CAH Method: SW3550B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Fluoranthene	1.67	1.54	92.1	1.67	1.74	104	12.5	37	32	123
Fluorene	1.67	1.59	95.3	1.67	1.87	112	16.2	25	35	116
Indeno(1,2,3-cd)pyrene	1.67	0.790	47.4	1.67	0.936	56.2	16.9	41	20	122
Naphthalene	1.67	1.37	81.9	1.67	1.60	96.2	16.0	22	25	103
Phenanthrene	1.67	1.50	90.1	1.67	1.73	104	14.0	23	31	120
Pyrene	1.67	1.77	106	1.67	1.96	118	10.1	32	21	143
Surr:2-Fluorobiphenyl	1670	1510	90.5	1670	1720	103 *	13.0	30	25	97.9
Surr:4-Terphenyl-d14	1670	1500	90.1	1670	1610	96.8	7.2	30	17	145
Surr:Nitrobenzene-d5	1670	1350	81.2	1670	1540	92.2	12.6	30	18	97.7

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07060780-02
RunID: A_070625A-2270849 Units: mg/Kg
Analysis Date: 06/25/2007 15:18 Analyst: KTK
PreparationDate: 06/23/2007 13:45 Prep By: CAH Method: SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
2-Methylnaphthalene	0.227	1.67	1.37	68.4	1.67	1.47	74.6	7.20	30	50	150
Acenaphthene	ND	1.67	1.22	73.1	1.67	1.27	76.4	4.40	45	21	104
Acenaphthylene	ND	1.67	1.35	80.8	1.67	1.39	83.5	3.29	30	50	150
Anthracene	ND	1.67	1.41	83.5	1.67	1.41	83.4	0.0964	30	50	150
Benz(a)anthracene	ND	1.67	1.47	87.6	1.67	1.46	87.2	0.457	30	50	150
Benzo(a)pyrene	ND	1.67	1.26	75.6	1.67	1.27	76.0	0.561	30	50	150
Benzo(b)fluoranthene	ND	1.67	1.13	67.6	1.67	1.14	68.6	1.48	30	50	150
Benzo(k)fluoranthene	ND	1.67	1.34	80.1	1.67	1.34	80.6	0.592	30	50	150
Chrysene	ND	1.67	1.51	90.2	1.67	1.55	92.6	2.70	30	50	150
Dibenz(a,h)anthracene	ND	1.67	1.30	77.9	1.67	1.33	79.9	2.56	30	50	150
Fluoranthene	ND	1.67	1.41	84.8	1.67	1.42	85.2	0.495	30	50	150
Fluorene	ND	1.67	1.56	93.6	1.67	1.59	95.1	1.67	30	50	150

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: RECAP PAHs by Method 8270C
Method: SW8270C

WorkOrder: 07060929
Lab Batch ID: 60448

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07060780-02
RunID: A_070625A-2270849 Units: mg/Kg
Analysis Date: 06/25/2007 15:18 Analyst: KTK
Preparation Date: 06/23/2007 13:45 Prep By: CAH Method: SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Indeno(1,2,3-cd)pyrene	ND	1.67	1.30	77.7	1.67	1.30	78.1	0.475	30	50	150
Naphthalene	0.106	1.67	1.19	64.8	1.67	1.29	70.9	8.20	30	50	150
Phenanthrene	ND	1.67	1.39	82.9	1.67	1.37	81.4	1.74	30	50	150
Pyrene	ND	1.67	1.30	78.0	1.67	1.29	77.1	1.12	55	25	116
Surr:2-Fluorobiphenyl	ND	1670	1430	85.6	1670	1460	87.6	2.23	30	25	97.9
Surr:4-Terphenyl-d14	ND	1670	1430	86.1	1670	1470	87.9	2.13	30	17	145
Surr:Nitrobenzene-d5	ND	1670	1050	62.9	1670	1060	63.3	0.593	30	18	97.7

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

CB NO. 28/26035

Analysis: Volatile Organics : Method 8260B
Method: SW8260B

WorkOrder: 07060929
Lab Batch ID: R155870

Method Blank

RunID: G_070627B-2275238 Units: ug/Kg
Analysis Date: 06/28/2007 7:15 Analyst: AMT
Preparation Date: 06/28/2007 7:15 Prep By: Method: SW5035

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	102.5	58-165
Surr: 4-Bromofluorobenzene	90.1	47-145
Surr: Toluene-d8	97.1	51-147

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07060929-01A	T-1-N
07060929-02A	T-1-S
07060929-04A	T-2-N
07060929-05A	T-3-N
07060929-06A	T-3-S
07060929-07A	BACKFILL

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: G_070627B-2275236 Units: ug/Kg
Analysis Date: 06/28/2007 5:46 Analyst: AMT
Preparation Date: 06/28/2007 5:46 Prep By: Method: SW5035

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	48.8	97.6	50.0	46.4	92.9	4.9	21	73	136
Ethylbenzene	50.0	49.9	99.7	50.0	46.9	93.8	6.2	30	50	150
Methyl tert-butyl ether	50.0	46.2	92.3	50.0	44.7	89.4	3.2	30	50	150
Toluene	50.0	49.5	99.1	50.0	48.6	97.1	2.0	20	65	116
m,p-Xylene	100	91.0	91.0	100	86.3	86.3	5.3	30	50	150
o-Xylene	50.0	49.4	98.9	50.0	47.5	95.0	4.0	30	50	150
Xylenes,Total	150.0	140.4	93.60	150.0	133.8	89.16	4.9	30	50	150
Surr:1,2-Dichloroethane-d4	50.0	49.4	98.7	50.0	48.6	97.1	1.6	30	58	165
Surr:4-Bromofluorobenzene	50.0	51.0	102	50.0	52.0	104	2.0	30	47	145
Surr:Toluene-d8	50.0	50.3	101	50.0	51.7	103	2.7	30	51	147

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Sample Receipt Checklist

Workorder:	07060929	ReceivedBy:	JM
Date and Time Received:	6/22/2007 4:00:00 PM	Carriername:	SPL-Driver-Other
Temperature:	3.5°C	Chilled by:	Water Ice

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
2. Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐	
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
4. Chain of custody present?	Yes ☑	No ☐		
5. Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
6. Chain of custody agrees with sample labels?	Yes ☑	No ☐		
7. Samples in proper container/bottle?	Yes ☑	No ☐		
8. Sample containers intact?	Yes ☐	No ☑		
9. Sufficient sample volume for indicated test?	Yes ☑	No ☐		
10. All samples received within holding time?	Yes ☑	No ☐		
11. Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
12. Water - VOA vials have zero headspace?	Yes ☐	No ☐	VOA Vials Not Present ☑	
13. Water - Preservation checked upon receipt (except VOA*)?	Yes ☐	No ☐	Not Applicable ☑	

*VOA Preservation Checked After Sample Analysis

SPL Representative: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: The septum for the methanol preserved sample for T-2-S was received pushed in.

Client Instructions:

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 07060929

260518

page 1 of 1

Client Name: Cracker Barrel Stores Inc.
Address: 12221 Industriplex Blvd BR, LA
Phone/Fax: 225-926-2025 / 2033
Client Contact: Steve Burnham Email: sjburnham@bellsouth.net
Project Name/No.: CB No. 28 / 26035
Site Name: Cracker Barrel No. 28
Site Location: Port Allen, LA
Invoice To: Engineering Associates Ph: 225 926 2025

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil SL=sludge X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis: BTEX, TPH-G, MTBE, Lead, TPH-D, PAH		BTEX, TPH-G, MTBE, LEAD						
T-1-N	6/21/07	1800		✓	S	V	(3)40 4		4	✓								4
T-1-S	"	1800		✓	S	V	(3)40 4		4	✓								4
T-2-S	"	1810		✓	S	V	(3)40 4		4			✓						4
T-2-N	"	1820		✓	S	V	(3)40 4		4			✓						4
T-3-N	"	1825		✓	S	V	(3)40 4		4			✓						4
T-3-S	"	1835		✓	S	V	(3)40 4		4			✓						4
Backfill	"	1840		✓	S	V	(3)40 4		4	✓								4

Client/Consultant Remarks: ① RECAP Standards ② Non-funded site ③ Hold 4oz jars for possible SPLP analysis; Add'l 4oz jars for Samples T-1-N, T-1-S, and backfill forthcoming

Laboratory remarks: (RL-1079) (W-6-3W) NO C-S. SPL-P/U

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 3-5

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☑
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☑ PDF ☐
Standard QC ☑ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify): RECAP Standards

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	6/22/07	0920	2. Received by: Deana Chidester
3. Relinquished by: Deana Chidester	6/22/07	11:30	4. Received by: [signature]
5. Relinquished by: [signature]	6/22/07	1600	6. Received by Laboratory: [signature]

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

26035

Case Narrative for:

ENGINEERING ASSOCIATES, INC

Certificate of Analysis Number:

07061042

Report To:		Project Name:	26035
ENGINEERING ASSOCIATES, INC		Site:	CRACKER BARREL #28
SHAWN FUNDERBURK		Site Address:	
1415 DELPLAZA DRIVE, SUITE B			PORT ALLEN LA
BATON ROUGE		PO Number:	
LA		State:	Louisiana
70815-		State Cert. No.:	02048
ph: (225)926-2025	fax: (225)926-2033	Date Reported:	7/5/2007

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: 17 PAGES

Amy K. Jackson
Project Manager

7/5/2007
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

ENGINEERING ASSOCIATES, INC

Certificate of Analysis Number:

07061042

Report To: ENGINEERING ASSOCIATES, INC
SHAWN FUNDERBURK
1415 DELPLAZA DRIVE, SUITE B

BATON ROUGE
LA
70815-
ph: (225)926-2025 fax: (225)926-2033

Fax To: ENGINEERING ASSOCIATES, INC
SHAWN FUNDERBURK fax: (225)926-2033

Project Name: 26035
Site: CRACKER BARREL #28
Site Address:
PORT ALLEN LA
PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 7/5/2007

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
DI-1	07061042-01	Soil	6/26/2007 12:20:00 PM	6/26/2007 5:45:00 PM	184558	☐
DI-2	07061042-02	Soil	6/26/2007 12:25:00 PM	6/26/2007 5:45:00 PM	184558	☐
BACKFILL	07061042-03	Soil	6/26/2007 12:40:00 PM	6/26/2007 5:45:00 PM	184558	☐
T-1-N	07061042-04	Soil	6/26/2007 12:45:00 PM	6/26/2007 5:45:00 PM	184558	☐
T-1-S	07061042-05	Soil	6/26/2007 12:50:00 PM	6/26/2007 5:45:00 PM	184558	☐

Amy K. Jackson
Project Manager

7/5/2007
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Date: Thursday, July 05, 2007

*****SUMMARY REPORT*****

Company: ENGINEERING ASSOCIATES, INC **Project:** 26035
Site: CRACKER BARREL #28

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
07061042-01A	Soil	DI-1	6/26/2007 12:20:00 PM	Benzene	25	0.96 ug/Kg	SW8260B
				Toluene	7.3	0.96 ug/Kg	SW8260B
				Ethylbenzene	52	0.96 ug/Kg	SW8260B
				Xylenes,Total	11	0.96 ug/Kg	SW8260B
				Methyl tert-butyl ether	34	4.8 ug/Kg	SW8260B
				Gasoline Range Organics (C6-C10)	13	4.9 mg/Kg	SW8015B
				m,p-Xylene	11	1.9 ug/Kg	SW8260B
				o-Xylene	ND	0.96 ug/Kg	SW8260B
07061042-01B	Soil	DI-1	6/26/2007 12:20:00 PM	Lead	12.9	2 mg/Kg	SW6010B
07061042-02A	Soil	DI-2	6/26/2007 12:25:00 PM	Benzene	5.9	0.96 ug/Kg	SW8260B
				Toluene	1.1	0.96 ug/Kg	SW8260B
				Ethylbenzene	ND	0.96 ug/Kg	SW8260B
				Xylenes,Total	2.4	0.96 ug/Kg	SW8260B
				Methyl tert-butyl ether	22	4.8 ug/Kg	SW8260B
				Gasoline Range Organics (C6-C10)	14	4.2 mg/Kg	SW8015B
				m,p-Xylene	2.4	1.9 ug/Kg	SW8260B
				o-Xylene	ND	0.96 ug/Kg	SW8260B
07061042-02B	Soil	DI-2	6/26/2007 12:25:00 PM	Lead	13.1	2 mg/Kg	SW6010B
07061042-02C	Soil	DI-2	6/26/2007 12:25:00 PM	Naphthalene	50	1.7 ug/Kg	SW8310
				Diesel Range Organics (C10-C28)	4.1	3.3 mg/Kg	SW8015B
				2-Methylnaphthalene	400	1.7 ug/Kg	SW8310
				Acenaphthene	240	1.7 ug/Kg	SW8310
				Acenaphthylene	ND	1.7 ug/Kg	SW8310
				Anthracene	ND	1.7 ug/Kg	SW8310
				Benzo(a)anthracene	2.2	1.7 ug/Kg	SW8310
				Benzo(a)pyrene	ND	1.7 ug/Kg	SW8310
				Benzo(b)fluoranthene	ND	1.7 ug/Kg	SW8310
				Benzo(k)fluoranthene	ND	1.7 ug/Kg	SW8310
				Chrysene	ND	1.7 ug/Kg	SW8310
				Dibenzo(a,h)anthracene	ND	1.7 ug/Kg	SW8310
				Fluoranthene	2.4	1.7 ug/Kg	SW8310
				Fluorene	140	1.7 ug/Kg	SW8310
				Indeno(1,2,3-cd)pyrene	ND	1.7 ug/Kg	SW8310
				Phenanthrene	7.2	1.7 ug/Kg	SW8310
				Pyrene	ND	1.7 ug/Kg	SW8310

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DI-1 **Collected:** 06/26/2007 12:20 **SPL Sample ID:** 07061042-01

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
RECAP GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/Kg**	
Gasoline Range Organics (C6-C10)	13		4.9	50	07/01/07 4:50	RRH	2278721
Surr: 1,4-Difluorobenzene	112		% 46-138	50	07/01/07 4:50	RRH	2278721
Surr: 4-Bromofluorobenzene	90.8		% 38-148	50	07/01/07 4:50	RRH	2278721

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/26/2007 12:20	Field	0.98

TOTAL METALS BY METHOD 6010B				**MCL**	**SW6010B**	**Units: mg/Kg**	
Lead	12.9		2	1	06/30/07 9:16	RJD	2278892

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW3050B	06/28/2007 9:40	SA	1.00

VOLATILE ORGANICS : METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	25		0.96	1	06/30/07 19:23	AMT	2278289
Ethylbenzene	52		0.96	1	06/30/07 19:23	AMT	2278289
Methyl tert-butyl ether	34		4.8	1	06/30/07 19:23	AMT	2278289
Toluene	7.3		0.96	1	06/30/07 19:23	AMT	2278289
m,p-Xylene	11		1.9	1	06/30/07 19:23	AMT	2278289
o-Xylene	ND		0.96	1	06/30/07 19:23	AMT	2278289
Xylenes,Total	11		0.96	1	06/30/07 19:23	AMT	2278289
Surr: 1,2-Dichloroethane-d4	203	MI	% 58-165	1	06/30/07 19:23	AMT	2278289
Surr: 4-Bromofluorobenzene	118		% 47-145	1	06/30/07 19:23	AMT	2278289
Surr: Toluene-d8	102		% 51-147	1	06/30/07 19:23	AMT	2278289

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/26/2007 12:20	Field	0.96

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DI-2 **Collected:** 06/26/2007 12:25 **SPL Sample ID:** 07061042-02

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
POLYNUCLEAR AROMATIC HYDROCARBONS BY METHOD 8			**MCL**	**SW8310**	**Units: ug/Kg**		
2-Methylnaphthalene	400		1.7	1	06/29/07 3:20	JNS	2278345
Acenaphthene	240		1.7	1	06/29/07 3:20	JNS	2278345
Acenaphthylene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Anthracene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Benzo(a)anthracene	2.2		1.7	1	06/29/07 3:20	JNS	2278345
Benzo(a)pyrene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Benzo(b)fluoranthene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Benzo(k)fluoranthene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Chrysene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Dibenzo(a,h)anthracene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Fluoranthene	2.4		1.7	1	06/29/07 3:20	JNS	2278345
Fluorene	140		1.7	1	06/29/07 3:20	JNS	2278345
Indeno(1,2,3-cd)pyrene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Naphthalene	50		1.7	1	06/29/07 3:20	JNS	2278345
Phenanthrene	7.2		1.7	1	06/29/07 3:20	JNS	2278345
Pyrene	ND		1.7	1	06/29/07 3:20	JNS	2278345
Surr:9,10-Diphenylanthracene	57.0		% 16.8-138	1	06/29/07 3:20	JNS	2278345

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	06/27/2007 14:47	CAH	1.00

RECAP DIESEL RANGE ORGANICS BY METHOD 8015B			**MCL**	**SW8015B**	**Units: mg/Kg**		
Diesel Range Organics (C10-C28)	4.1		3.3	1	06/28/07 20:53	DF	2277084
Surr: o-Terphenyl	45.2		% 35-147	1	06/28/07 20:53	DF	2277084

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	06/27/2007 14:34	CAH	1.00

RECAP GASOLINE RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/Kg**		
Gasoline Range Organics (C6-C10)	14		4.2	50	07/01/07 5:19	RRH	2278722
Surr:1,4-Difluorobenzene	98.6		% 46-138	50	07/01/07 5:19	RRH	2278722
Surr:4-Bromofluorobenzene	88.0		% 38-148	50	07/01/07 5:19	RRH	2278722

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	06/26/2007 12:25	Field	0.85

TOTAL METALS BY METHOD 6010B			**MCL**	**SW6010B**	**Units: mg/Kg**		
Lead	13.1		2	1	06/30/07 9:58	RJD	2278893

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	06/28/2007 9:40	SA	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DI-2 **Collected:** 06/26/2007 12:25 **SPL Sample ID:** 07061042-02

Site: CRACKER BARREL #28

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS : METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	5.9		0.96	1	06/30/07 19:53	AMT	2278290
Ethylbenzene	ND		0.96	1	06/30/07 19:53	AMT	2278290
Methyl tert-butyl ether	22		4.8	1	06/30/07 19:53	AMT	2278290
Toluene	1.1		0.96	1	06/30/07 19:53	AMT	2278290
m,p-Xylene	2.4		1.9	1	06/30/07 19:53	AMT	2278290
o-Xylene	ND		0.96	1	06/30/07 19:53	AMT	2278290
Xylenes,Total	2.4		0.96	1	06/30/07 19:53	AMT	2278290
Surr: 1,2-Dichloroethane-d4	114		% 58-165	1	06/30/07 19:53	AMT	2278290
Surr: 4-Bromofluorobenzene	107		% 47-145	1	06/30/07 19:53	AMT	2278290
Surr: Toluene-d8	98.7		% 51-147	1	06/30/07 19:53	AMT	2278290

PrepMethod	Prep Date	Prep Initials	Prep Factor
SW5035	06/26/2007 12:25	Field	0.96

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

26035

Analysis: RECAP Diesel Range Organics by Method 8015B
Method: SW8015B

WorkOrder: 07061042
Lab Batch ID: 60564

Method Blank

RunID: TPHB_070628B-2277079 Units: mg/Kg
Analysis Date: 06/28/2007 19:27 Analyst: DF
Preparation Date: 06/27/2007 14:34 Prep By: CAH Method: SW3550B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07061042-02C	DI-2

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	3.3
Surr: o-Terphenyl	80.9	35-147

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHB_070628B-2277080 Units: mg/Kg
Analysis Date: 06/28/2007 19:44 Analyst: DF
Preparation Date: 06/27/2007 14:34 Prep By: CAH Method: SW3550B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	100	79.8	79.8	100	74.7	74.7	6.7	35	34	106
Surr:o-Terphenyl	1.67	2.38	143	1.67	2.15	129	10.4	30	35	147

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07061042-02
RunID: TPHB_070628B-2277082 Units: mg/Kg
Analysis Date: 06/28/2007 20:19 Analyst: DF
Preparation Date: 06/27/2007 14:34 Prep By: CAH Method: SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	100	60.5	56.4	100	59.1	55.0	2.29	38	12	106
Surr:o-Terphenyl	ND	1.67	1.55	92.8	1.67	1.45	86.9	6.61	30	35	147

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

26035

Analysis: RECAP Gasoline Range Organics
Method: SW8015B

WorkOrder: 07061042
Lab Batch ID: R156074

Method Blank

RunID: HPDD_070629L-2278719 Units: mg/Kg
Analysis Date: 06/30/2007 19:15 Analyst: RRH

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07061042-01A	DI-1
07061042-02A	DI-2

Analyte	Result	Rep Limit
Gasoline Range Organics (C6-C10)	ND	0.10
Surr: 1,4-Difluorobenzene	102.0	46-138
Surr: 4-Bromofluorobenzene	95.3	38-148

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPDD_070629L-2278717 Units: mg/Kg
Analysis Date: 06/30/2007 17:48 Analyst: RRH

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Gasoline Range Organics (C6-C10)	5.00	4.64	92.8	5.00	4.69	93.8	1.1	21	73	126
Surr:1,4-Difluorobenzene	30.0	52.5	175 *	30.0	55.3	184 *	5.3	30	46	138
Surr:4-Bromofluorobenzene	30.0	27.3	91.1	30.0	27.2	90.8	0.3	30	38	148

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

26035

Analysis: Polynuclear Aromatic Hydrocarbons by Method 8310 **WorkOrder:** 07061042
Method: SW8310 **Lab Batch ID:** 60566

Method Blank

RunID: HPLC3_070628A-2278342 Units: ug/Kg
Analysis Date: 06/29/2007 1:46 Analyst: JNS
Preparation Date: 06/27/2007 14:47 Prep By: CAH Method: SW3550B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07061042-02C	DI-2

Analyte	Result	Rep Limit
2-Methylnaphthalene	ND	1.7
Acenaphthene	ND	1.7
Acenaphthylene	ND	1.7
Anthracene	ND	1.7
Benzo(a)anthracene	ND	1.7
Benzo(a)pyrene	ND	1.7
Benzo(b)fluoranthene	ND	1.7
Benzo(k)fluoranthene	ND	1.7
Chrysene	ND	1.7
Dibenzo(a,h)anthracene	ND	1.7
Fluoranthene	ND	1.7
Fluorene	ND	1.7
Indeno(1,2,3-cd)pyrene	ND	1.7
Naphthalene	ND	1.7
Phenanthrene	ND	1.7
Pyrene	ND	1.7
Surr: 9,10-Diphenylanthracene	119.4	16.8-138

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPLC3_070628A-2278343 Units: ug/Kg
Analysis Date: 06/29/2007 2:17 Analyst: JNS
Preparation Date: 06/27/2007 14:47 Prep By: CAH Method: SW3550B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
2-Methylnaphthalene	33.3	29.4	88.3	33.3	27.0	80.9	8.7	30	16.5	129
Acenaphthene	33.3	31.1	93.3	33.3	27.7	83.3	11.4	30	21.9	130
Acenaphthylene	33.3	24.6	73.8	33.3	25.1	75.5	2.2	30	13.3	132
Anthracene	33.3	32.0	96.1	33.3	32.6	98.0	1.9	30	18.8	113
Benzo(a)anthracene	33.3	29.7	89.1	33.3	30.6	91.9	3.1	30	18.1	113
Benzo(a)pyrene	33.3	28.5	85.4	33.3	29.5	88.6	3.7	30	31.1	101
Benzo(b)fluoranthene	33.3	30.3	91.1	33.3	31.4	94.2	3.3	30	19.4	110
Benzo(k)fluoranthene	33.3	30.8	92.5	33.3	31.5	94.7	2.3	30	16.7	130
Chrysene	33.3	29.9	89.7	33.3	29.2	87.6	2.4	30	47.4	112
Dibenzo(a,h)anthracene	33.3	29.6	88.8	33.3	30.6	92.0	3.5	30	33	129
Fluoranthene	33.3	30.5	91.6	33.3	29.3	88.0	4.0	30	21.4	121

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

26035

Analysis: Polynuclear Aromatic Hydrocarbons by Method 8310 **WorkOrder:** 07061042
Method: SW8310 **Lab Batch ID:** 60566

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPLC3_070628A-2278343 Units: ug/Kg
Analysis Date: 06/29/2007 2:17 Analyst: JNS
PreparationDate: 06/27/2007 14:47 Prep By: CAH Method: SW3550B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Fluorene	33.3	30.3	90.9	33.3	28.9	86.6	4.7	30	15.2	122
Indeno(1,2,3-cd)pyrene	33.3	32.8	98.4	33.3	31.5	94.5	4.0	30	55.3	112
Naphthalene	33.3	27.0	81.0	33.3	27.4	82.4	1.7	30	34.1	133
Phenanthrene	33.3	28.3	84.9	33.3	25.1	75.5	11.8	30	33.8	109
Pyrene	33.3	28.6	85.8	33.3	29.1	87.4	1.8	30	21.4	115
Surr:9,10-Diphenylanthracene	26.7	28.8	108	26.7	32.2	121	11.4	30	16.8	138

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07061042-02
RunID: HPLC3_070628A-2278346 Units: ug/Kg
Analysis Date: 06/29/2007 3:51 Analyst: JNS
PreparationDate: 06/27/2007 14:47 Prep By: CAH Method: SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
2-Methylnaphthalene	399	33.3	536	N/C	33.3	456	N/C	N/C	30	16.5	129
Acenaphthene	238	33.3	184	N/C	33.3	167	N/C	N/C	30	21.9	130
Acenaphthylene	ND	33.3	26.2	78.5	33.3	21.7	65.0	18.8	30	13.3	132
Anthracene	ND	33.3	27.2	81.5	33.3	27.2	81.6	0.0250	30	18.8	113
Benzo(a)anthracene	2.16	33.3	26.1	72.0	33.3	27.0	74.6	3.18	30	18.1	113
Benzo(a)pyrene	ND	33.3	23.2	69.8	33.3	23.9	71.8	2.92	30	31.1	101
Benzo(b)fluoranthene	ND	33.3	26.7	80.1	33.3	26.8	80.4	0.427	30	19.4	110
Benzo(k)fluoranthene	ND	33.3	25.7	77.0	33.3	26.0	78.1	1.34	30	16.7	130
Chrysene	ND	33.3	25.6	76.9	33.3	26.1	78.5	2.03	30	47.4	112
Dibenzo(a,h)anthracene	ND	33.3	24.8	74.6	33.3	24.5	73.5	1.53	30	33	129
Fluoranthene	2.36	33.3	34.8	97.3	33.3	38.7	109	10.6	30	21.4	121
Fluorene	140	33.3	101	N/C	33.3	87.9	N/C	N/C	30	15.2	122
Indeno(1,2,3-cd)pyrene	ND	33.3	25.3	76.1	33.3	25.4	76.2	0.0437	30	55.3	112
Naphthalene	50.2	33.3	112	186 *	33.3	101	152 *	10.4	30	34.1	133
Phenanthrene	7.16	33.3	38.7	94.8	33.3	30.6	70.4	23.5	30	33.8	109

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

26035

Analysis: Polynuclear Aromatic Hydrocarbons by Method 8310 **WorkOrder:** 07061042
Method: SW8310 **Lab Batch ID:** 60566

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07061042-02
RunID: HPLC3_070628A-2278346 Units: ug/Kg
Analysis Date: 06/29/2007 3:51 Analyst: JNS
Preparation Date: 06/27/2007 14:47 Prep By: CAH Method: SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Pyrene	ND	33.3	34.8	104	33.3	35.6	107	2.37	30	21.4	115
Surr:9,10-Diphenylanthracene	ND	26.7	29.6	111	26.7	25.0	93.8	16.6	30	16.8	138

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

26035

Analysis: Total Metals by Method 6010B
Method: SW6010B

WorkOrder: 07061042
Lab Batch ID: 60599

Method Blank

RunID: ICPDV_070629J-2278863 Units: mg/Kg
AnalysisDate: 06/30/2007 9:06 Analyst: RJD
PreparationDate: 06/28/2007 9:40 Prep By: SA Method: SW3050B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07061042-01B	DI-1
07061042-02B	DI-2

Analyte	Result	Rep Limit
Lead	ND	1

Laboratory Control Sample (LCS)

RunID: ICPDV_070629J-2278864 Units: mg/Kg
AnalysisDate: 06/30/2007 9:11 Analyst: RJD
PreparationDate: 06/28/2007 9:40 Prep By: SA Method: SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	121.0	125.3	103.5	80.6	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07061042-01
RunID: ICPDV_070629J-2278867 Units: mg/Kg
Analysis Date: 06/30/2007 9:27 Analyst: RJD
PreparationDate: 06/28/2007 9:40 Prep By: SA Method: SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	12.87	100	114.4	101.5	100	115.4	102.6	0.8918	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Quality Control Report

ENGINEERING ASSOCIATES, INC

26035

Analysis: Volatile Organics : Method 8260B
Method: SW8260B

WorkOrder: 07061042
Lab Batch ID: R156043

Method Blank

RunID: G_070630B-2278288 Units: ug/Kg
Analysis Date: 06/30/2007 18:53 Analyst: AMT
Preparation Date: 06/30/2007 18:53 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07061042-01A	DI-1
07061042-02A	DI-2

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	110.9	58-165
Surr: 4-Bromofluorobenzene	87.5	47-145
Surr: Toluene-d8	96.2	51-147

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: G_070630B-2278285 Units: ug/Kg
Analysis Date: 06/30/2007 17:24 Analyst: AMT
Preparation Date: 06/30/2007 17:24 Prep By: Method: SW5035

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	46.9	93.7	50.0	54.1	108	14.3	21	73	136
Ethylbenzene	50.0	47.6	95.1	50.0	54.9	110	14.4	30	50	150
Methyl tert-butyl ether	50.0	47.2	94.5	50.0	57.5	115	19.6	30	50	150
Toluene	50.0	46.4	92.8	50.0	52.9	106	13.1	20	65	116
m,p-Xylene	100	87.0	87.0	100	99.6	99.6	13.4	30	50	150
o-Xylene	50.0	47.7	95.4	50.0	55.8	112	15.6	30	50	150
Xylenes,Total	150.0	134.7	89.84	150.0	155.4	103.6	14.2	30	50	150
Surr:1,2-Dichloroethane-d4	50.0	52.2	104	50.0	50.7	101	2.9	30	58	165
Surr:4-Bromofluorobenzene	50.0	53.0	106	50.0	52.9	106	0.1	30	47	145
Surr:Toluene-d8	50.0	51.5	103	50.0	51.1	102	0.9	30	51	147

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337)237-4775

Sample Receipt Checklist

Workorder:	07061042	ReceivedBy:	GAS
Date and Time Received:	6/26/2007 5:45:00 PM	Carriername:	SPL-Driver-Other
Temperature:	4°C	Chilled by:	Water Ice

1.	Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2.	Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
3.	Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4.	Chain of custody present?	Yes ☑	No ☐	
5.	Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
6.	Chain of custody agrees with sample labels?	Yes ☑	No ☐	
7.	Samples in proper container/bottle?	Yes ☑	No ☐	
8.	Sample containers intact?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test?	Yes ☑	No ☐	
10.	All samples received within holding time?	Yes ☑	No ☐	
11.	Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
12.	Water - VOA vials have zero headspace?	Yes ☐	No ☐	VOA Vials Not Present ☑
13.	Water - Preservation checked upon receipt (except VOA*)?	Yes ☐	No ☐	Not Applicable ☑

*VOA Preservation Checked After Sample Analysis

SPL Representative: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 67061042

184558

page 1 of 1

Client Name: EAI
Address: 1415 Delplaza Dr
Phone/Fax: 926-2025 926-2033
Client Contact: S. Funderburk Email:
Project Name/No.: 26035
Site Name: Cracker Barrel Port Allen
Site Location: Port Allen, LA
Invoice To: Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil SL=sludge X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	BTEX/MTBE B260 3	TPH-GRO B015B	lead 6010B	TPH-DRO B015	PAH B100	Hold for SPLP (Possible)			
DT-1	6/26/07	1220		✓	S	terra core/G		X	5	✓	✓	✓			✓			5
DT-2	↓	1225		✓	S	↓		X	6	✓	✓	✓	✓	✓	✓			6
backfill	↓	1240		✓	S	G	8	X	1						✓			1
T-1 N	↓	1245		✓	S	G	4	X	2						✓			2
T-1 S	↓	1250		✓	S	G	4	X	2						✓			2

Client/Consultant Remarks:

Laboratory remarks: RS-32-(9) RS-11-~~(12)~~ 3W BW-12-(12) SPL-P/4

Intact? ☒ Y ☐ N
Ice? ☒ Y ☐ N
Temp: 4.0 C

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☒
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☒

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	6/26/07	1550	2. Received by: [signature]
3. Relinquished by:			4. Received by:
5. Relinquished by: [signature]	6/26/07	17:45	6. Received by Laboratory: [signature]

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☒ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

APPENDIX C

UST DISPOSAL MANIFESTS AND WASH WATER MANIFEST

Louisiana Scrap Metal Recycling

991 US 190 West
Port Allen, LA 70767
(225) 389-1108
FAX (225) 389-1101

272354

Date 6-22-07
Customer White Field WT
Address
Remarks

Truck # Thomas Box #
Driver Bentley Smith 2931506
Material
Weigher: [illegible]

My signature below certifies that I am the lawful and sole owner of the above property or that the above property has been paid for and that I am authorized to sell said property on behalf of its lawful owner. I hereby sell said property with full warranty of title. I agree to defend, indemnity and hold **Louisiana Scrap Metal & Recycling** harmless from any and all claims, demands, causes of action or liens whatsoever arising out of any claim made against it and/or said property, arising out of the sale of the property to **Louisiana Scrap Metal & Recycling.** I further warrant that my signature below constitutes full compliance with LSA-R.S. 51:574.

	WEIGHT				
MATERIAL	GROSS	TARE	NET	PRICE	TOTAL
#1 Cup			4.74	[redacted]	[redacted]
					[redacted]

GROSS GROSS 21520 lb
09:51AM 06/22/2007 10620

TARE GROSS 10900 lb
10:00AM 06/22/2007

NET

Owner: [illegible]

Soc. Sec. # or Driver's License # 455 62 [illegible]

Louisiana Scrap Metal Recycling

991 US 190 West
Port Allen, LA 70767
(225) 389-1108
FAX (225) 389-1101

643
505

272333

Date 6-22-07
Customer Mr Bentley
Address
Remarks White Hard

Truck # Thomas Box #
Driver Bentley-Smith 2931506
Material
Weigher: Gwen

My signature below certifies that I am the lawful and sole owner of the above property or that the above property has been paid for and that I am authorized to sell said property on behalf of its lawful owner. I hereby sell said property with full warranty of title. I agree to defend, indemnify and hold **Louisiana Scrap Metal & Recycling** harmless from any and all claims, demands, causes of action or liens whatsoever arising out of any claim made against it and/or said property, arising out of the sale of the property to **Louisiana Scrap Metal & Recycling**. I further warrant that my signature below constitutes full compliance with LSA-R.S. 51:574

	WEIGHT				
MATERIAL	GROSS	TARE	NET	PRICE	TOTAL
#1 Temp			4.60	[redacted]	[redacted]

GROSS GROSS 21220 lb
07:47AM 06/22/2007

TARE GROSS 10920 lb
08:02AM 06/22/2007 10300

NET

Owner: [signature]

Soc. Sec. # or Driver's License # 435-62-1723

Louisiana Scrap Metal Recycling

991 US 190 West
Port Allen, LA 70767
(225) 389-1108
FAX (225) 389-1101

272297

Date 6-21-07
Customer Whitestar GWT
Address
Remarks

Truck # Thomas Box #
Driver Bentley-Smith 2431506
Material
Weigher: Gwen

My signature below certifies that I am the lawful and sole owner of the above property or that the above property has been paid for and that I am authorized to sell said property on behalf of its lawful owner. I hereby sell said property with full warranty of title. I agree to defend, indemnity and hold **Louisiana Scrap Metal & Recycling** harmless from any and all claims, demands, causes of action or liens whatsoever arising out of any claim made against if and/or said property, arising out of the sale of the property to **Louisiana Scrap Metal & Recycling.** I further warrant that my signature below constitutes full compliance with LSA-R.S. 51:574.

	WEIGHT				
MATERIAL	GROSS	TARE	NET	PRICE	TOTAL
#1 Prep			4.04	[redacted]	[redacted]
					[redacted]

GROSS GROSS 19960 lb
02:07PM 06/21/2007

TARE GROSS 10920 lb
02:07PM 06/21/2007

NET 9040

Owner:

Soc. Sec. # or Driver's License #: 425 29 723

BEST COPY

GATOR Environmental

SHIPPING DOCUMENT

SHIPPER INFORMATION	Shipper U.S. EPA I.D. #	Document No. 51026
SHIPPER NAME Cracker Barrel #28		TRUCK # 24 TLR #
ADDRESS	CITY	STATE	ZIP
133 Lobdell Hwy 415	Port Allen, LA	70767
PHONE #	CONTACT PERSON	

Gator Environmental
4968 Robique Rd.
Baton Rouge, LA 70811
225.357.2800

STATE REGISTRATIONS	# T033-12472
U.S. EPA I.D.	# LAR000059915
U.S. D.O.T. REGISTRATION	# 1274737
LPSC	# 7144

Pull to: Tom Bentley Smith.

STATE REGISTRATIONS	#
U.S. EPA I.D.	#
U.S. D.O.T. REGISTRATION	#

DESIGNATED FACILITY INFORMATION

☒ **Gator Environmental**
4968 Robique Rd.
Baton Rouge, LA 70811
225.357.2800

☐ ☐

U.S. D.O.T. DESCRIPTION	CONTAINERS DRUM	CONTAINERS TANK	TOTAL QUANTITY (GALLONS)	UNIT WT./VOL
☐ Non-hazardous Industrial Wastewater ☐ Used Oil Non DOT Regulated ☐ Used Filters/Absorbants, Non DOT Regulated ☐ Oily Water, Non-hazardous ☐ Recycled Fuel Oil Non DOT Regulated ☐ Fuel Oil, Combustible liquid, 3, NA 1993, PGIII ☐ RQ, Other regulated substances, Liquid, n.o.s., 9, NA 3082, PGIII (ethylene glycol) ☐ Combustible Liquid, n.o.s., (petroleum oil), 3, NA 1993, PGIII ☒ Flammable Liquid, n.o.s.,(petroleum product), 3, UN 1993, PGIII ☐ ☐		1	207	Gal

SHIPPER'S CERTIFICATION: I hereby declare the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highways according to applicable international and national governmental regulations.
I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain PCB's as identified in 40 CFR Part 761.

PRINT/TYPE NAME | SIGNATURE | DATE

TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINT/TYPE NAME David Hernandez | SIGNATURE [signature] | DATE 6-22-07

[illegible]

DESIGNATED FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINT/TYPE NAME | SIGNATURE | DATE

White - Original Canary - Accounting Pink - Transport Goldenrod - Generator

COMPLIANCE INSPECTION REPORT
FOR
UNDERGROUND STORAGE TANKS

AI #:	74892	**FID #:**	61-002395	**INSPECTION DATE(S):**	10/16/15
AI NAME:	Cracker Barrel #28				

Have Red Tags Been Applied to any USTs at this facility? ☐ Yes ☐ No ☐ N/A

Physical Address:	133 Lobdell Highway			**Phone:**	225-381-9421
City, State, Zip:	Port Allen	LA 70767		**Parish:**	WBR
Mailing Address:					
	(Address)	(City)		(State)	(Zip)
Facility Representative/Title:	Rosetta Tolbat/Manager				

UST Owner:	North American Financial	**Phone:**	225-753-3200	**Fax:**	
Mailing Address:	12221 Industriplex Blvd	Baton Rouge		LA	70809
	(Address)	(City)		(State)	(Zip)
Property Owner:	same	**Phone:**		**Fax:**	
Mailing Address:					
	(Address)	(City)		(State)	(Zip)
Fuel Distributor:	Placid Refining Co	**Phone:**	225-387-0278	**Fax:**	
Mailing Address:	1940 Highway 1	Port Allen		La	70767
	(Address)	(City)		(State)	(Zip)

Lead Inspector: Gene Anderson

Additional Inspector(s):

DESIGNATED CLASS A AND CLASS B UST OPERATORS FOR THIS FACILITY:

Class A UST Operator:	Ryan Wooten	**Phone:**	225-756-6753	**Date Certified:**	4/4/13
Mailing Address:	12221 Industriplex Blvd	Baton Rouge		LA	70809
	(Address)	(City)		(State)	(Zip)
Class B UST Operator:	Same	**Phone:**		**Date Certified:**	
Mailing Address:					
	(Address)	(City)		(State)	(Zip)
Class B UST Operator:		**Phone:**		**Date Certified:**	
Mailing Address:					
	(Address)	(City)		(State)	(Zip)
Class B UST Operator:		**Phone:**		**Date Certified:**	
Mailing Address:					
	(Address)	(City)		(State)	(Zip)

List additional UST Operators in Summary of Findings/Comments section below

Has an Operator Training brochure been provided to the UST Owner of this facility? ☒ Yes ☐ No

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

AI #:	74892	FID #:	61-002395	INSPECTION DATE(S):	10/16/15
AI NAME:	Cracker Barrel #28				

Summary of Findings/Comments

CEI conducted on 10/16/15

This site has taken the Class-A-B-C operators training classes.

The site has two ACT-100 tanks installed in 2007. The pressurized product lines are fiberglass. The metal components beneath the dispensers are booted. The metal components in the submersible turbine pump (STP) areas are in contact with water and protected by anodes. The last two cathodic protection surveys were conducted on 11/1/10 and 9/24/13 by Southern Tank Testers.

The release detection method for the tanks is statistical inventory reconciliation (SIR). The SIR is conducted by USTMAN using V-95.2B. The pressurized product lines have automatic line leak detectors (ALLDs) that are tested annually in conjunction with line tightness tests (LTT) and monthly SIR. The last three ALLD and LTT were conducted on 8/27/13, 8/21/14, and 8/20/15 by Southern Tank Testers.

The tanks have spill buckets and ball floats for overfill protection.

Areas of Concern:

None

Report By:	Edd Price	10/16/15
	Gene Anderson, Inspector	(Date)

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

AI #:	74892	FID #:	61-002395	INSPECTION DATE(S):	10/16/15
AI NAME:	Cracker Barrel #28				

Section A Registration Requirements **(Further Explanation Attached ☒)**

1. Are all New and Existing UST systems registered? (New - 301.B; Existing - 301.A.1) ☒ Yes ☐ No ☐ N/A
2. Are all new USTs that contain regulated substances registered? (301.C.4) ☒ Yes ☐ No ☐ N/A
3. Please indicate the number, size, product stored, installation date, and upgrade date for all tanks at the facility?

DEQ TANK ID NUMBER	SIZE OF TANK (GALLONS)	PRODUCT STORED	TANK TYPE	INSTALL DATE	UPGRADE DATE	TANK STATUS (Active, Temp Closed, etc)
57237	15000	gas	ACT-100	7/1/07	n/a	Active
57238	15000	gas/diesel	ACT-100	7/1/07	n/a	Active

Latitude:	Degrees: 30	Minutes: 27	Seconds: 2.8	Tank Hold Area 1
Longitude:	Degrees: 91	Minutes: 14	Seconds: 44.34	
Latitude:	Degrees:	Minutes:	Seconds:	Tank Hold Area 2
Longitude:	Degrees:	Minutes:	Seconds:	

Significant Operational Compliance Components (SOC)

SOC - Release Prevention

Section B Standards for New Underground Storage Tanks (Tanks installed after 12/22/88) **(Further Explanation in Narrative ☒) (Section B Not Applicable ☐)**

1. Is each tank properly designed and constructed to prevent corrosion in any portion of the tank that routinely contains product? (303.D.1) ☒ Yes ☐ No ☐ N/A
2. What is the corrosion protection method for the tanks?
   - a. Fiberglass reinforced plastic (303.D.1.a) ☐ Yes ☐ No ☒ N/A
   - b. Tank constructed of metal and cathodically protected e.g. STI-P3, metal tank with anodes, metal tank with impressed current system (303.D.1.b) Specify: ☐ Yes ☐ No ☒ N/A
   - c. Metal-fiberglass-reinforced-plastic composite (ACT-100) (303.D.1.c) ☒ Yes ☐ No ☐ N/A
   - d. Records available to document that Corrosion Protection is not necessary. (303.D.1.d; 509.B.1) ☐ Yes ☐ No ☒ N/A
   - e. Other corrosion protection (303.D.1.e) Specify: ☐ Yes ☐ No ☒ N/A
3. For USTs installed after 12/20/08, are the USTs secondarily contained? (303.C) ☐ Yes ☐ No ☒ N/A
   - a. Double-walled or jacketed construction? (303.D.1.f.i) Specify:
   - b. Other secondary containment type approved by the Department prior to installation (303.D.1.f.ii) Specify:

Section C Upgrading Existing Tanks to New System Standards (Tanks installed on or before 12/22/88) **(Further Explanation in Narrative ☐) (Section C Not Applicable ☒)**

1. Do the Existing Tank(s) comply with one of the following requirements:
   - a. Are all existing tanks upgraded to meet the standards for New UST systems? (303.E.1) ☐ Yes ☐ No ☐ N/A
     If yes, specify tank type:
   - b. Are all existing tanks upgraded with cathodic protection? (303.E.1) If yes, complete Sec. C.2 ☐ Yes ☐ No ☐ N/A
2. What method of corrosion protection is used for each tank?
   - a. Metal tank retrofitted with interior lining (303.E.3.a) Date Lining Installed: ☐ Yes ☐ No ☐ N/A
   - b. Is lining inspected periodically? (303.E.3.a.ii) Date of Last Lining Inspection: ☐ Yes ☐ No ☐ N/A
   - c. Metal tank retrofitted with cathodic protection (303.E.3.b) Type of CP: ☐ Yes ☐ No ☐ N/A
   - d. If tank >10 years old when CP was added, was a tank integrity test performed? (303.E.3.b) Type of integrity test performed: ☐ Yes ☐ No ☐ N/A
   - e. For tanks utilizing the Louisiana Alternative Assessment Protocols, is the tank tested annually in accordance with 701.A.3? (303.E.3.b.iv) ☐ Yes ☐ No ☐ N/A
   - f. Internal Lining combined with cathodic protection (303.E.3.c) If CP was not installed at same time as the lining, complete sections C.2.d and e above. ☐ Yes ☐ No ☐ N/A
   - g. Other corrosion protection. Specify: ☐ Yes ☐ No ☐ N/A

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

AI #:	74892	FID #:	61-002395	INSPECTION DATE(S):	10/16/15
AI NAME:	Cracker Barrel #28				

Section D Standards for New UST Piping System (Piping installed after 12/22/88) **(Further Explanation in Narrative ☒) (Section D Not Applicable ☐)**

1.	Is **Piping** that routinely contains regulated substances and is in contact with the ground or water designed, constructed, and protected to prevent corrosion? (303.D.2)	☒ Yes ☐ No ☐ N/A
2.	What method of corrosion protection is used for the piping?	
a.	Fiberglass-reinforced plastic piping (303.D.2.a)	☒ Yes ☐ No ☐ N/A
b.	Constructed of metal and cathodically protected e.g. coated w/dielectric material, metal piping with anodes, or metal piping with impressed current system. (303.D.2.b) Specify:	☐ Yes ☐ No ☒ N/A
c.	Metal piping without additional corrosion protection measures. (303.D.2.c) Specify:	☐ Yes ☐ No ☒ N/A
d.	Records available to document Corrosion Protection is not necessary. (509.B.1)	☐ Yes ☐ No ☒ N/A
e.	Non-metallic flexible piping (303.D.2.e)	☐ Yes ☐ No ☒ N/A
3.	For piping installed after 12/20/08, is the new piping secondarily contained? (303.C)	☐ Yes ☐ No ☒ N/A
a.	Double-walled? (303.D.2.f.i for new install; 303.D.2.g for new piping at existing site; 507.A.7 for repairs >25%) Specify:	
b.	Other secondary containment type approved by the Department prior to installation (303.D.2.f.ii) Specify:	
4.	Are all **metal components (flexible connectors, submersible turbine pumps)** that routinely contain regulated substances and are in contact with the ground or water designed, constructed, and protected to prevent corrosion? (303.D.2)	☒ Yes ☐ No ☐ N/A
a.	Constructed of metal and cathodically protected e.g. coated w/dielectric material, metal piping protected with anodes or an impressed current system, contained in dry sumps. (303.D.2.b) Specify: booted & anodes	☒ Yes ☐ No ☐ N/A
b.	Metal piping components without additional corrosion protection measures. (303.D.2.c; 509.B.1) Specify:	☐ Yes ☐ No ☒ N/A
5.	For pressurized piping systems and non-safe suction systems, are all impact valves (shear valves) properly installed (moving parts unobstructed, shear valve properly anchored)? (501.A and NFPA 30A Chapter 6 Paragraph 3.9) **(New & Existing Systems)**	☒ Yes ☐ No ☐ N/A

Section E Existing Piping Upgrading Requirements (Piping installed on or before 12/22/88) **(Further Explanation in Narrative ☐) (Section E Not Applicable ☒)**

1.	Has **Existing Piping** been upgraded with corrosion protection by 12/22/98? (303.E.1)	☐ Yes ☐ No ☐ N/A
2.	Is **Existing Piping and metal components** protected from corrosion? (303.E.4) Complete Section D.	☐ Yes ☐ No ☐ N/A

Section F Spill and Overfill for New UST Systems (UST systems installed after 12/22/88) **(Further Explanation in Narrative ☐) (Section F Not Applicable ☐)**

1.	Is each tank equipped with Spill Prevention Equipment to prevent a release of product when the transfer hose is detached from the fill pipe? (303.D.3.a.i) Date Installed: 08/07	☒ Yes ☐ No ☐ N/A
a.	Does the spill prevention equipment have liquid tight sides and bottom (not cracked or broken)? (303.D.3.a.i)	☒ Yes ☐ No ☐ N/A
b.	Does the spill bucket contain less than one inch of regulated substance? Regulated substances spilled into any spill bucket must immediately be removed by the UST Owner/Operator or fuel distributor, common carrier, or transporter. (303.D.3.a.i) If more than 1 inch, list the amount of fuel present and list the fuel deliverer:	☒ Yes ☐ No ☐ N/A
2.	Is each tank equipped with Overfill Prevention Equipment? (303.D.3.a.ii) Date Installed: 08/07	☒ Yes ☐ No ☐ N/A
3.	Is the Overfill Prevention Equipment designed to:	
a.	Automatically shut off flow to the tank when the tank is no more than 95% full? e.g. **butterfly valve** (303.D.3.a.ii.(a)) (device not tampered with or inoperable)	☐ Yes ☐ No ☒ N/A
b.	Alert the transfer operator when the tank is no more than 90 % full by restricting flow into the tank **(ball float valve)** or triggering a high-level alarm **(overfill alarm)**? (Is the alarm near the fill port? Does it work?) (303.D.3.a.ii.(b))	☒ Yes ☐ No ☐ N/A
c.	Restrict the flow 30 minutes prior to overfilling or alert the operator one minute before overfilling? (303.D.3.a.ii(c))	☐ Yes ☐ No ☒ N/A
d.	If ball float valves are used, is the piping system pressurized. Ball float valves are not allowed for use on suction piping delivery systems (303.D.6.a and PEI/RP100-2005, Chapter 7.3.3 for **New Systems**; 303.E.5 and PEI/RP100-2005, Chapter 7.3.3 for **Existing Systems**)	☒ Yes ☐ No ☐ N/A
4.	Alternative type of Spill or Overfill Prevention Equipment being used? (303.D.3.b) Specify:	

Section G Spill and Overfill for Existing Tanks (UST systems installed on or before 12/22/88) **(Further Explanation in Narrative ☐) (Section G Not Applicable ☒)**

1.	Has each tank been upgraded with Spill and Overfill Prevention Equipment by 12/22/98? (303.E.1)	☐ Yes ☐ No ☐ N/A
2.	Is each tank equipped with Spill and Overfill Prevention Equipment? (303.E.5) Complete Section F.	☐ Yes ☐ No ☐ N/A

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

AI #:	74892	FID #:	61-002395	INSPECTION DATE(S):	10/16/15
AI NAME:	Cracker Barrel #28				

Section H Under-Dispenser Containment (Further Explanation in Narrative ☐)
(Dispensers installed after 12/20/08) (Section H Not Applicable ☒)

1.	For dispensers installed after 12/20/08:	
a.	Is each new dispenser at a new facility equipped with Under-Dispenser Containment? (303.D.4.a.i)	☐ Yes ☐ No ☐ N/A
b.	Is each new dispenser at an existing facility where new pipe was added to connect the new dispenser to the existing system equipped with Under-Dispenser Containment? (303.D.4.a.ii)	☐ Yes ☐ No ☐ N/A
c.	Is each replacement dispenser at an existing facility where piping that connects the dispenser to the existing piping is replaced equipped with Under-Dispenser Containment? (303.D.4.a.iii)	☐ Yes ☐ No ☐ N/A
2.	Does each UDC sump subject to the 12/20/08 UDC requirements have liquid-tight sides and bottom, and maintained free of storm water, debris, and regulated substances? (303.D.4.b if IM not required; 701.B.4.a if IM is required)	☐ Yes ☐ No ☐ N/A

Section I Submersible Turbine Pump (STP) Secondary Containment
(STP installed after 12/20/08) Further Explanation in Narrative ☐)
(Section I Not Applicable ☒)

1.	For submersible turbine pumps installed after 12/20/08:	
a.	Is each new STP at a new facility equipped with Secondary Containment? (303.D.5.a.i)	☐ Yes ☐ No ☐ N/A
b.	Is each new STP at an existing facility where new pipe was added to connect the new STP to the existing system equipped with Secondary Containment? (303.D.5.a.ii)	☐ Yes ☐ No ☐ N/A
c.	Is each replacement STP at an existing facility where piping that connects the STP to the existing piping is replaced equipped with Secondary Containment? (303.D.5.a.iii)	☐ Yes ☐ No ☐ N/A
2.	Does each STP containment sump subject to the 12/20/08 STP Secondary Containment requirements have liquid-tight sides and bottom, and maintained free of storm water, debris, and regulated substances? (303.D.5.b if IM not required; 701.B.4.a if IM is required)	☐ Yes ☐ No ☐ N/A

Section J Operation and Maintenance of Corrosion Protection Systems
(Further Explanation in Narrative ☒)
(Section J Not Applicable ☐)

1.	Is the corrosion protection system continuously operated and maintained to provide corrosion protection to metal components of external portions of the tanks and piping that routinely contain regulated substance and are in contact with the ground or water? (503.A.1)	☒ Yes ☐ No ☐ N/A
2.	Are the cathodic protection systems inspected by qualified testers? (503.A.2)	☒ Yes ☐ No ☐ N/A
3.	Was the cathodic protection system tested within six months after installation? (503.A.2.a)	☐ Yes ☐ No ☐ N/A
4.	Is the system tested at least every three years? (503.A.2.a)	☒ Yes ☐ No ☐ N/A
5.	Does the inspection meet the requirements of a code of practice developed by a nationally recognized association? (503.A.2.b)	☒ Yes ☐ No ☐ N/A
6.	As outlined in 503.B.2, does the facility have copies of the last two CP inspections? (509.B.2)	☒ Yes ☐ No ☐ N/A
7.	If the UST system has an impressed current, is the rectifier inspected every 60 days? (503.A.3)	☐ Yes ☐ No ☒ N/A
8.	As outlined in 503.B.1, does the facility have copies of the last 3 years of rectifier inspections? (509.B.2)	☐ Yes ☐ No ☒ N/A
9.	Are all records of UST system repairs retained for the operating life of the UST system? (507.B)	☐ Yes ☐ No ☒ N/A
a.	Is a tightness test performed on the tank and/or piping within 30 days of a repair if applicable? (507.A.5) (Not required if the repaired portion is monitored for releases under 701.A.4-8).	☐ Yes ☐ No ☒ N/A
b.	Is the cathodic protection system tested within six months of a repair? (507.A.6)	☐ Yes ☐ No ☒ N/A

SOC - Release Detection

Section K Release Detection Requirements for UST System (Further Explanation in Narrative ☒)
(Section K Not Applicable ☐)

1.	Does the facility perform a method of release detection? Check "No" if no RD conducted (703.A.1)	☒ Yes ☐ No ☐ N/A
2.	Is the method of release detection capable of detecting a release from any portion of the tank that routinely contains product? (703.A.2.a)	☒ Yes ☐ No ☐ N/A
3.	Is the release detection system installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions including routine maintenance, etc.? (703.A.2.b)	☒ Yes ☐ No ☐ N/A
4.	Does the release detection system meet the performance standards outlined in 703.A.2.c? (Check third party certification against equipment or method present) (703.A.2.c)	☒ Yes ☐ No ☐ N/A
5.	Are all USTs monitored at least every 30 days for releases? (703.B.1)	☒ Yes ☐ No ☐ N/A
6.	For UST systems subject to the 12/20/08 Secondary Containment Requirements::	
a.	Is Interstitial Monitoring conducted on all tanks subject to the 12/20/08 SC requirements? (303.D.1.f.i)	☐ Yes ☐ No ☒ N/A
b.	Is Interstitial Monitoring conducted on all piping subject to the 12/20/08 SC requirements? (303.D.2.f.i for new install; 303.D.2.g for new piping at existing site; 507.A.7 for repairs >25%)	☐ Yes ☐ No ☒ N/A

Section L Release Detection Record Keeping (Further Explanation in Narrative ☒)
(Section L Not Applicable ☐)

1.	As outlined in 705.A.1, does the facility maintain all written performance claims and documentation provided by the release detection vendor throughout the operating life of the equipment? (509.B.4)	☒ Yes ☐ No ☐ N/A

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

AI #:	74892	FID #:	61-002395	INSPECTION DATE(S):	10/16/15
AI NAME:	Cracker Barrel #28				

2. As outlined in 705.A.2 and 3, does the facility maintain all monitoring results, sampling records, equipment testing, calibration and maintenance records, or leak detection equipment repair records for at least three years? (509.B.4) Specify: SIR records	☒ Yes ☐ No ☐ N/A
3. As outlined in 705.A.2, are all tank tightness-testing records retained until the next test is conducted? (509.B.4)	☐ Yes ☐ No ☒ N/A
4. As outlined in 705.A.3, are schedules of required calibration and maintenance for release detection equipment retained for 5 years from date of installation? (509.B.4)	☒ Yes ☐ No ☐ N/A

Section M Release Reporting **(Further Explanation in Narrative ☐)** **(Section M Not Applicable ☒)**

Suspected Releases	
1. When a release detection method indicates that a release may have occurred; has the facility notified the department of a suspected release? (703.A.3 or 707.A)	☐ Yes ☐ No ☐ N/A
2. Has the facility notified the department of any other suspected release (regulated substance discovered, unusual operating conditions)? (707.A)	☐ Yes ☐ No ☐ N/A
3. Facility has resolved suspected releases in accordance with procedures outlined in 711 or 715? (Cite applicable 711 or 715 regulation)	☐ Yes ☐ No ☐ N/A
Spills and Overfills	
1. Has the facility reported, investigated, and cleaned-up any spills and overfills as required by 713.A (501.C)	☐ Yes ☐ No ☐ N/A

Section N Release Detection Methods for Tanks **(Further Explanation in Narrative ☒)**
(Fill out only the applicable sections, all others can remain blank) **(Section N Not Applicable ☐)**

☐ **1. Inventory Control with Tank Tightness Testing (701.A.1)** Deadline date:	
a. Are inputs, withdrawals, amounts in tank recorded daily or on each operating day? (701.A.1.a)	☐ Yes ☐ No ☐ N/A
b. Is the measuring equipment capable of measuring the level of the product over the full range of the tank's height to the nearest one-eighth of an inch? (701.A.1.b)	☐ Yes ☐ No ☐ N/A
c. Are inputs reconciled with delivery receipts? (701.A.1.c)	☐ Yes ☐ No ☐ N/A
d. Are deliveries made through a drop tube which extends to within 1foot of bottom? (701.A.1.d)	☐ Yes ☐ No ☐ N/A
e. Are measurements of water level made to the nearest 1/8 inch at least once a month? (701.A.1.f)	☐ Yes ☐ No ☐ N/A
f. Is the TTT conducted every 5 years as required and is TTT method capable of detecting a 0.1 gal/hr leak rate from any portion of the tank routinely containing product? (703.B.1.a)	☐ Yes ☐ No ☐ N/A
Date of Last Tank Tightness Test:	
g. TTT conducted following the manufacturer's instructions or third party certification. (703.A.2.c)	☐ Yes ☐ No ☐ N/A
h. Within the 10 year time frame for using IC/TTT? (703.B.1.a) Expiration Date:	☐ Yes ☐ No ☐ N/A
☐ **2. Manual Tank Gauging (MTG)** (tanks <2000 gal) **(701.A.2)** Deadline date:	
a. If tank is >550 gal and < 2000 gal, is tank tightness being conducted every 5 years? (703.B.1.a) Date of last tank tightness test:	☐ Yes ☐ No ☐ N/A
b. Tank size is appropriate for using MTG (701.A.2)	☐ Yes ☐ No ☐ N/A
c. Method is being conducted properly (701.A.2.d)	☐ Yes ☐ No ☐ N/A
d. No liquid is added to or taken out of tank during test. (701.A.2.a)	☐ Yes ☐ No ☐ N/A
e. Equipment is capable of 1/8-in measurement (701.A.2.c)	☐ Yes ☐ No ☐ N/A
f. Within the 10 year time frame for using MTG/TTT for tanks between 550 and 2000 gallons? (703.B.1.a) Expiration Date:	☐ Yes ☐ No ☐ N/A
☐ **3. Automatic Tank Gauging (ATG) (701.A.4)**	
Make and Model: Gilbarco Veeder/Root Probe Type: Mag-1	
a. Is the ATG capable of detecting a leak of 0.2 gal/hr leak rate? (701.A.4.a.i)	☐ Yes ☐ No ☒ N/A
b. If ATG installed prior to 12/22/90 and is not capable of pd > 0.95 and a pfa < 0.05, is inventory control (or other equivalent performance test) being conducted in accordance with monthly leak detection requirements? (701.A.4.a.ii.)	☐ Yes ☐ No ☒ N/A
c. As the sole method of release detection, the ATG must test the tank at least once per month in a manner that can detect a 0.2 gal/hr release with a pd > 0.95 and a pfa < 0.05 (701A.4.b)	☐ Yes ☐ No ☒ N/A
d. Does the ATG generate a hard copy which contains the following:	
i. the time and date of the test (701.A.4.b.i);	☐ Yes ☐ No ☒ N/A
ii. the tank identification (701.A.4.b.ii);	☐ Yes ☐ No ☒ N/A
iii. the fuel volume in the tank at the time of the test (701.A.4.b.iii);	☐ Yes ☐ No ☒ N/A
iv. the qualitative result either "pass" or "fail" (701.A.4.b.iv)	☐ Yes ☐ No ☒ N/A
☐ **4. External Release Detection Devices (701.A.5)**	
a. General Requirements for Release Detection Devices	
i. Do the RDDs meet the general requirements for construction? (701.A.5.a.i)	☐ Yes ☐ No ☐ N/A
ii. RDDs screened from 1 ft below the surface throughout the entire excavation zone? (701.A.5.a.ii)	☐ Yes ☐ No ☐ N/A
iii. Are the RDDs sealed and locked? (701.A.5.a.iii)	☐ Yes ☐ No ☐ N/A
iv. Are the RDDs installed in backfill? (701.A.5.a.iv, 701.A.5.b.1, and 701.A.5.c.ii) Type of backfill:	☐ Yes ☐ No ☐ N/A

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

AI #:	74892	FID #:	61-002395	INSPECTION DATE(S):	10/16/15
AI NAME:	Cracker Barrel #28				

v. If RDD installed in native soil, is hydraulic conductivity greater than 0.01 cm/sec? (701.A.5.a.iv)	☐ Yes ☐ No ☐ N/A
vi. Are RDDs in the correct number and properly positioned? (701.A.5.a.v)	☐ Yes ☐ No ☐ N/A
☐ **b. Vapor Monitoring (701.A.5.b)**	
i. Is the regulated substance (or tracer) sufficiently volatile to allow vapors to be detected by the monitoring device? (701.A.5.b.ii)	☐ Yes ☐ No ☐ N/A
ii. Vapor monitoring is not affected by high ground water. (701.A.5.b.iii)	☐ Yes ☐ No ☐ N/A
iii. Is a release detectable without interference from background concentrations? (701.A.5.b.iv)	☐ Yes ☐ No ☐ N/A
iv. Is the monitoring device designed and operated to detect any significant increase in concentration above background? (701.A.5.b.v)	☐ Yes ☐ No ☐ N/A
☐ **c. Groundwater Monitoring (701.A.5.c.)**	
i. Is regulated substance immiscible in water and have a specific gravity less than one? (701.A.5.c.i)	☐ Yes ☐ No ☐ N/A
ii. Water in the monitoring well is never more than 20 feet from the ground surface? (701.A.5.c.ii)	☐ Yes ☐ No ☐ N/A
iii. Does RDD prevent migration of soils into RDD, and can regulated substance enter RDD in both low and high water conditions? (701.A.5.c.iii)	☐ Yes ☐ No ☐ N/A
iv. Can continuous monitoring device or manual method detect 1/8-in of free product? (701.A.5.c.iv)	☐ Yes ☐ No ☐ N/A
☐ **5. Interstitial Monitoring (701.A.6.)**	
a. Describe the UST system which uses IM e.g. double walled tank, secondary barrier: Explain:	☐ Yes ☐ No ☐ N/A
b. Can the method detect a release through the inner wall of the tank? (701.A.6.a)	☐ Yes ☐ No ☐ N/A
c. Is Interstitial Monitoring conducted in accordance with 701.A.6 for tanks subject to the 12/20/08 Secondary Containment requirements (303.D.1.f.i), by either:	☐ Yes ☐ No ☐ N/A
i. Continuous interstitial monitoring by an automatic leak sensing device that signals to the operator the presence of any regulated substance in the interstitial space or sump (701.A.6.a) Specify Method:	☐ Yes ☐ No ☐ N/A
OR	
ii. Manual interstitial monitoring every 30 days by means of a procedure capable of detecting the presence of any regulated substance in the interstitial space or sump (701.A.6.a) Specify Method:	☐ Yes ☐ No ☐ N/A
☒ **6. Statistical Inventory Reconciliation (SIR) (701.A.7)**	
a. Can the SIR method detect a release of 0.2gal/hr from any portion of the UST System that routinely contains product with a pd > 0.95 and a pfa < 0.05? (701.A.7.a)	☒ Yes ☐ No ☐ N/A
b. Did the owner/operator receive the monthly report(s) from the SIR provider/vendor within 15 days following the last day of the calendar month for which the analysis was performed? (701.A.7.b)	☒ Yes ☐ No ☐ N/A
c. Did the SIR analysis report include the following information:	
i. the name of the SIR provider and the name and version of the SIR method (701.A.7.b.i);	☒ Yes ☐ No ☐ N/A
ii the name and address of the facility at which the analysis was performed (701.A.7.b.iii);	☒ Yes ☐ No ☐ N/A
iii. a description of the UST system for which the analysis was performed (701.A.7.b.iii);	☒ Yes ☐ No ☐ N/A
iv. a quantitative statement, in gallons/hr, for each UST system monitored for the month, of the leak threshold, minimum detectable leak rate, and the indicated leak rate (701.A.7.b.iv);	☒ Yes ☐ No ☐ N/A
v. a qualitative statement of "pass," "fail," or "inconclusive" for each UST system monitored (701.A.7.b.v)	☒ Yes ☐ No ☐ N/A
☐ **7. Other Method: (701.A.8)** Specify Method:	
a. Method can detect 0.2 gal/hr leak rate or a release of 150 gal within a month; & meet the 95/5 probability requirement. (701.A.8.a) **OR**	☐ Yes ☐ No ☐ N/A
b. EPA/LDEQ has approved the method as being as effective as Tank Tightness testing, ATG, vapor monitoring, ground water monitoring, or interstitial monitoring and operator complies with any conditions imposed by the agency. (701.A.8.b)	☐ Yes ☐ No ☐ N/A

Section O Methods of Release Detection for Piping **Further Explanation in Narrative ☒)**
(Fill out only the applicable sections, all others can remain blank) **(Section O Not Applicable ☐)**

Is release detection performed on the UST system's piping? (703.B.2) Check the appropriate piping system.	☒ Yes ☐ No ☐ N/A
☒ **1. Pressurized Piping**	
a. Which of the following methods of leak detection does the facility use for pressurized piping? (703.B.2.a)	
i. Automatic Line Leak Detectors (ALLD) (one of the following methods is required on all pressurized lines, regardless of line leak detection method used) (703.B.2.a.i)	☒ Yes ☐ No ☐ N/A
1. Automatic flow restrictor, or	☒ Yes ☐ No ☐ N/A
2. Automatic shutoff, or	☐ Yes ☐ No ☒ N/A
3. Continuous audible or visual alarm	☐ Yes ☐ No ☒ N/A
4. Is a performance test conducted every 12 months on the line leak detector according to manufacturer's requirements **and** also by simulating a release in order to determine if the system is fully operational? (701.B.1) Dates of last 3 tests: 8/20/15	☒ Yes ☐ No ☐ N/A
AND	
ii. One other method (703.B.2.a.ii)	☒ Yes ☐ No ☐ N/A
1 A line tightness test conducted every 12 months (703.B.2.a.ii): Dates of last 3 tests: 8/20/15	☒ Yes ☐ No ☐ N/A

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

AI #:	74892	FID #:	61-002395	INSPECTION DATE(S):	10/16/15
AI NAME:	Cracker Barrel #28				

2. Is LTT method capable of detecting a 0.1 gal/hr leak rate from any portion of the piping routinely containing product? (701.B.2)	☒ Yes ☐ No ☐ N/A
OR	
3. Monthly monitoring? (703.B.2.a.ii) Specify Type: SIR records	☒ Yes ☐ No ☐ N/A
b. Is Interstitial Monitoring conducted in accordance with 701.B.4 for piping subject to the 12/20/08 Secondary Containment requirements (303.D.2.f.i for new install; 303.D.2.g for new piping at existing site; 507.A.7 for repairs >25%), by either:	☐ Yes ☐ No ☒ N/A
i. Continuous interstitial monitoring by an automatic leak sensing device that signals to the operator the presence of any regulated substance in the interstitial space or sump (701.B.4) Specify Method:	☐ Yes ☐ No ☒ N/A
OR	
ii. Manual interstitial monitoring every 30 days by means of a procedure capable of detecting the presence of any regulated substance in the interstitial space or sump (701.B.4) Specify Method:	☐ Yes ☐ No ☒ N/A
c. For piping utilizing interstitial monitoring, is all piping interstitial space and/or are all sumps maintained free of water, debris, or anything that could interfere with the leak detection capabilities? (701.B.4.a)	☐ Yes ☐ No ☒ N/A
☐ **2. Suction Piping**	
a. Which of the following leak detection methods does the facility use for suction piping? (703.B.2.b)	
i. (Safe Suction) No release detection is required if piping is sloped to drain product back into tank **and** only one check valve is present and located directly below or as close as practicable to the suction pump (703.2.b) **OR**	☐ Yes ☐ No ☐ N/A
ii. Line tightness test every 3 years? (703.B.2.b) Date of last test:	☐ Yes ☐ No ☐ N/A
OR iii. Monthly monitoring? (703.B.2.b) Specify Type:	☐ Yes ☐ No ☐ N/A

Section P Requirements for Temporary Closure (903) **(Further Explanation in Narrative ☐)** **(Section P Not Applicable ☒)**

1. For UST systems in temporary closure; has the facility:	
a. If greater than 1 inch of product remains, is monthly release detection conducted? (903.A) Specify Type of RD performed:	☐ Yes ☐ No ☐ N/A
b. If applicable, has the Cathodic Protection been maintained? (903.A)	☐ Yes ☐ No ☐ N/A

NON-Significant Operational Compliance Components

Section Q Temporary Closure Continued (Not Applicable ☒) (Further Explanation in Narrative ☐)

1. For UST systems temporarily closed for 3 months or more, did the owner/operator:	
a. Leave vent line open and functional? (903.B.1)	☐ Yes ☐ No ☐ N/A
b. Cap and secure all other lines, pump, manways, and ancillary equipment? (903.B.2)	☐ Yes ☐ No ☐ N/A
c. Notify the Department of the temporary closure status (UST-REG-01 form)? (903.B.3)	☐ Yes ☐ No ☐ N/A
d. Perform a tank tightness test within five days after the system was brought back into service after being in temporary closure 3 months or more? (903.E)	☐ Yes ☐ No ☐ N/A
2. For any non-upgraded UST system that has been temporarily closed for more than 6 months, has the owner/operator permanently closed the system? (903.C)	☐ Yes ☐ No ☐ N/A
3. If a UST system has been temporarily closed for more than 24 months, has the owner/operator:	
a. performed a site assessment in accordance with 907? (903.D); (note: do not cite if facility re-opened after being in temporary closure >24 months)	☐ Yes ☐ No ☐ N/A
b. was the results of the site assessment submitted to DEQ within 60 days following the end of the 24 month period? (903.D)	☐ Yes ☐ No ☐ N/A

Section R Additional Paperwork Requirements
(Not Applicable ☐) (Further Explanation in Narrative ☒)

1. Is the information on the UST-REG-01 form current and accurate? (Existing - 301.A.3, New - 301.B)	☒ Yes ☐ No ☐ N/A
2. Is the information on the REG-02 form current and accurate? (Existing – 303.E.6.b, New - 301.B.1)	☒ Yes ☐ No ☐ N/A
3. Has an amended Registration form been submitted within 30 days of acquiring a UST? (301.C.2)	☐ Yes ☐ No ☒ N/A
4. Is a copy of the current registration form kept on-site or at the nearest staffed facility? (301.C.3)	☒ Yes ☐ No ☐ N/A
5. Has the owner/operator submitted the following information to the department:	
a. Registration form for all UST systems, including installation certification and installer verification for new tank systems (509.A.1)	☒ Yes ☐ No ☐ N/A
b. Reports of all releases, suspected releases, spills and overfills, and confirmed releases (509.A.2)	☐ Yes ☐ No ☒ N/A
c. Descriptions of corrective action plans, site characterizations, free product removal investigation of soil and groundwater cleanup, and corrective action plan (509.A.3)	☐ Yes ☐ No ☒ N/A
d. Notification before permanent closure or change-in-service (509.A.4)	☐ Yes ☐ No ☒ N/A
e. Results of site assessment conducted at permanent closure (509.A.5)	☐ Yes ☐ No ☒ N/A
6. Has the owner/operator maintained the following documents:	
a. Documentation of UST system repairs (509.B.3)	☐ Yes ☐ No ☒ N/A
b. A copy of the most current registration forms (UST-REG-01 and 02) filed with DEQ? (509.B.5)	☒ Yes ☐ No ☐ N/A
c. Documentation of the type and construction of the tanks, piping, leak detection equipment,	☒ Yes ☐ No ☐ N/A

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

AI #:	74892	FID #:	61-002395	INSPECTION DATE(S):	10/16/15
AI NAME:	Cracker Barrel #28				

corrosion protection equipment, and spill and overfill protection equipment? (509.B.6)	
7. Was the facility able to provide the records in a timely fashion as required by the inspector? (509.C)	☒ Yes ☐ No ☐ N/A
Section S General Requirements (Not Applicable ☐) (Further Explanation in Narrative ☒)	
1. Are the materials being stored compatible with the materials or liner in the UST system? (505.A)	☒ Yes ☐ No ☐ N/A
Section T Financial Responsibility (Not Applicable ☐) (Further Explanation in Narrative ☒)	
1. Has the facility paid its annual monitoring and maintenance fee (Current Certificate)? (307.D)	☒ Yes ☐ No ☐ N/A
2. Can the owner/operators demonstrate financial responsibility for taking corrective action etc., i.e. how is he going to pay for the cleanup of a release? (1133.A.) What type of financial responsibility is used? Explain: trust fund	☒ Yes ☐ No ☐ N/A
Section U Operator Training (Not Applicable ☐) (Further Explanation in Narrative ☒)	
1. Does the facility have the following Certified UST Operators:	
a. Certified Class A UST Operator(s)	☒ Yes ☐ No ☐ N/A
i. If no, has LDEQ provided the UST Owner at least 9 months notice? (607.B.1)	☐ Yes ☐ No ☒ N/A
ii If no, has LDEQ provided the UST Owner less than 9 months notice? (607.B.2)	☐ Yes ☐ No ☒ N/A
b. Certified Class B UST Operator(s)	☒ Yes ☐ No ☐ N/A
i. If no, has LDEQ provided the UST Owner at least 9 months notice? (607.B.1)	☐ Yes ☐ No ☒ N/A
ii If no, has LDEQ provided the UST Owner less than 9 months notice? (607.B.2)	☐ Yes ☐ No ☒ N/A
c. Certified Class C UST Operator(s) (607.C)	☒ Yes ☐ No ☐ N/A
2. After 8/8/12, were all newly-designated Class A or B Operators certified within 30 days after assuming operation and maintenance responsibilities at the UST system? (607.D)	☐ Yes ☐ No ☒ N/A
3. After 8/8/12, were all newly-designated Class C Operators certified before assuming unsupervised responsibility for responding to emergencies at the UST facility? (607.E)	☐ Yes ☐ No ☒ N/A
4. Have the Certified Class A or B UST Operator(s) for this facility met the 3 year re-training requirement? (609.A)	☒ Yes ☐ No ☐ N/A
5. Has the owner/operator maintained the following documents:	
a. Training certificate for each person who is currently serving as a Class A, Class B, or Class C UST Operator? (611.A.1)	☒ Yes ☐ No ☐ N/A
b. Posted site-specific emergency procedures, location of emergency shut-off devices, and appropriate emergency contact telephone numbers in a prominent area at the UST facility that is easily visible to the Class C Operator? (611.A.2)	☒ Yes ☐ No ☐ N/A
Section V Compliance (Not Applicable ☐) (Further Explanation in Narrative ☒)	
Has the facility complied with all of the regulations or any order issued by the department? If not, this constitutes a violation of the Act. Enforcement Tracking # of Order not in compliance with:	☒ Yes ☐ No ☐ N/A

Note: All questions are to be answered. If unable to determine, write 'unknown' and explain in narrative. Use narrative / summary of findings area to describe all areas of concern in greater detail.

Louisiana Department of Environmental Quality
FIELD INTERVIEW FORM

Agency Interest #: 74892 Inspection Date: 10/16/15 Departure Date: 10/16/15 Time of Arrival: 0720 Time of Departure: 0830

Facility Name: Cracker Barrel #28 Phone #: 225-381-9421
Location: 133 Lobdell Highway, Port Allen, LA 70767

Parish Name: WBR

Mailing Address: Same
Street/P.O. Box City State Zip

Facility Representative: Rosetta Tolbat Title: Manager

Inspection Type: Compliance Program Involved: ☐ Air ☐ Waste ☐ Water Other UST

Inspector's Observations: (e.g. Areas and Equipment Inspected, Problems, Deficiencies, Remarks, Verbal Commitments from Facility Representatives)

CEI conducted on 10/16/15

This site has taken the Class-A-B-C operators training classes. The site has two ACT-100 tanks installed in 2007. The pressurized product lines are fiberglass. The metal components beneath the dispensers are booted. The metal components in the STP areas are in contact with water and protected by anodes. The last two cathodic protection surveys were conducted on 11/1/10 and 9/24/13 by Southern Tank Testers.

The release detection method for the tanks is SIR. The SIR is conducted by USTMAN using V-95.2B. The pressurized product lines have ALLDs that are tested annually in conjunction with LTT and monthly SIR. The last three ALLD and LTT were conducted on 8/27/13,8/21/14 and 8/20/15 by Southern Tank Testers.

The tanks have spill buckets and ball floats for overfill protection.

Areas of Concern:
None

Areas of Concern	Explanation	Resolved?
		☐YES ☐ NO
		☐YES ☐ NO
		☐YES ☐ NO
		☐YES ☐☐ NO

Photos Taken? ☐ YES ☒ NO Samples Taken? ☐ YES ☒ NO (Attach Chain-of-Custody)

Received by: Signature: Rosetta Tolbert Title: Store Manager

Print Name: Rosetta Tolbert

(NOTE: Signature DOES NOT indicate agreement with Inspector's Notes)

Inspector(s): Gene Anderson Attachments: N/A

Gene Anderson

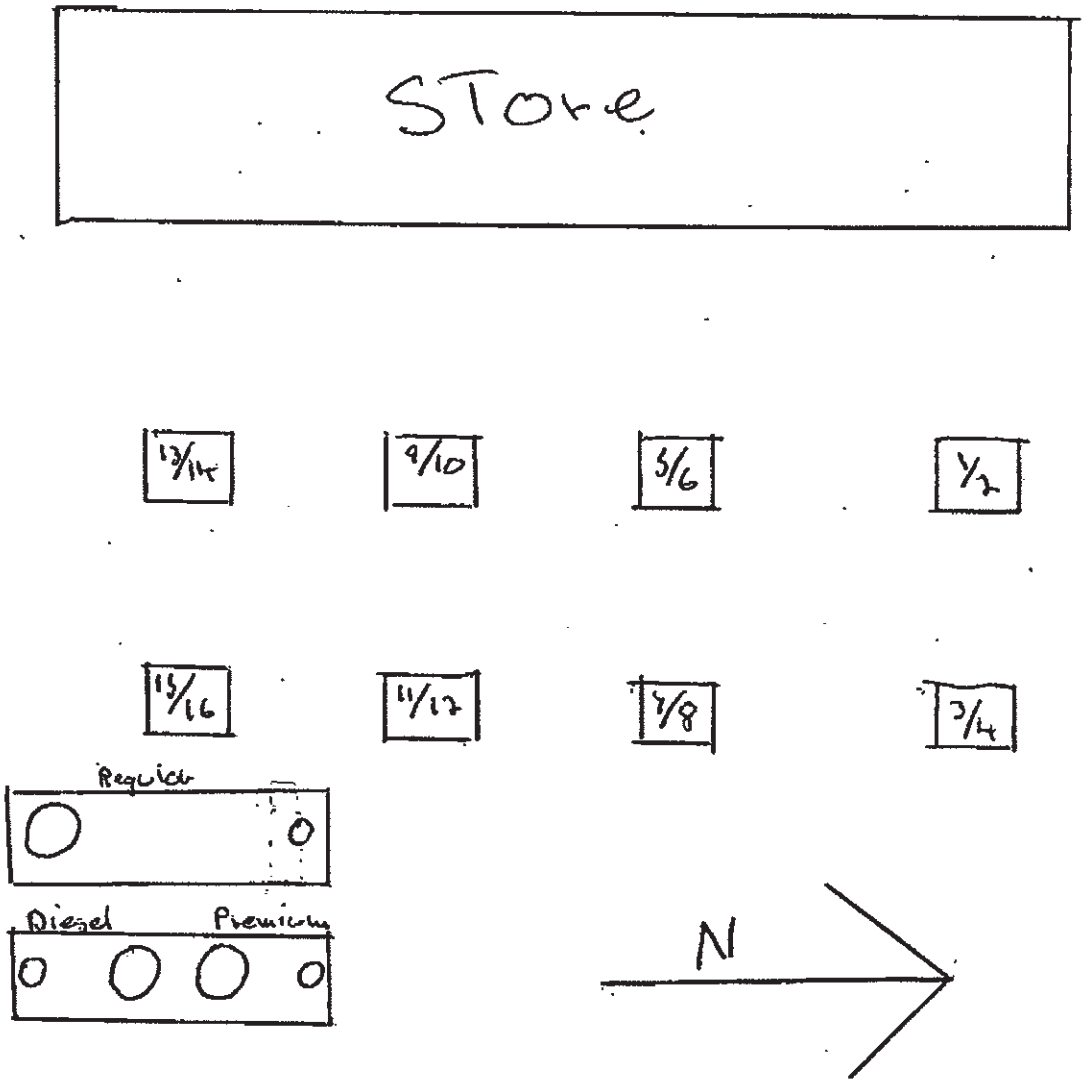
Reviewer:

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

UST SITE DRAWING FORM

Facility: Crocke Bowel # 28 Agency Interest No.: 74897

Address: 133 Lobdell Hwy. Port Allen, LA



G UST

D Discrete Dispensers

G

Contents of UST and Product Dispensed:
G = Gasoline or gasohol (E10)
E85 = 85% Ethanol
B## = Biodiesel and %Biodiesel
D = Diesel
UO = Used Oil

G, D MPDs

G, D

Dispenser Islands

Store / Building

Road Name

Louisiana Department of Environmental Quality
Agency Interest GPS Location Form

Agency Interest #: 74892 **Date GPS Location Point Acquired:** 10/16/15

Facility Name: Cracker Barrel #28 **Phone #:** 225-381-9421
Facility Location: 133 Lobdell Highway
Port Allen, LA 70767

Parish Name: EBR

Mailing Address:
Street/P.O. Box City State Zip

Facility Representative: Rosetta Tolbat **Title:** Manager

Program Involved:	☐	IAS	☐	Hazardous Waste	☐	UST	☒	Solid Waste	☐	Other:	
Media Involved:	☐	**Air**	☐	**Waste**	☐	**Water**	☐	**Other:**			

	GPS Point Location		GPS Point Location
☒	Main Gate/Main Entrance	☐	Other – Write Description Below
☐	Monitoring Well	☐	
☐	Tank Hold	☐	
☐	Dispenser Island	☐	
☐	Treatment System	☐	
☐	Store or Building – Write Description Below	☐	
☐	Above Ground Tanks	☐	
☐	Water body (ponds, etc)	☐	
☐	Drum Designation Area	☐	
☐		☐	

GPS Point Location Description (If not listed above) and GPS Latitude and Longitude from GIS TEMPO Form

Latitude (from GIS report): 30.27.2.8

Longitude (from GIS report):**91.14.44.34**

Inspector(s): Gene Anderson **Attachments:**

form_5229_r00
12/14/04

UNDERGROUND STORAGE TANK INSPECTION

Date: 10-8-87

Name of Inspector: Dennis Strickland
George Gallett

FACILITY INFORMATION -

Gulf Station
Facility Name

UST ID #

7931 Ave Calais ~~Place~~ Ave.
Facility Address

Keller Oil Co.
Facility Owner

Baton Rouge La. 70809
City, State Zip

6970 Plank Rd.
Facility Owner Address

East Baton Rouge
Parish

Baton Rouge La. 70811
City, State Zip

Facility Phone Number

504-356-3419
Facility Owner Phone Number

Persons Interviewed/Title: Gen. Contractor - Cory Gunter / R.L. Hall and Associates 928-2545
Mr. Keller

TANK INFORMATION -

Date of Installation: _____

Tank Type:

Steel _____ Fiberglass _____ Concrete _____ Other _____

Piping:

Steel _____ Fiberglass _____ Concrete _____ Other _____

Tank Corrosion Protection (outside)

Cathodic Protection _____
Fiberglass Coated _____
Painted _____
None _____

Pipe Corrosion Protection:

Cathodic Protection _____
Fiberglass Coated _____
Painted _____
None _____

Number of Tanks: 3

Estimated Total Capacity of Tank(s): (1) _____
(2) _____
(3) _____
(4) _____

Age of Tanks: (1) 9 yrs.
(2) 9 yrs
(3) 9 yrs
(4) 9 yrs

Status of Tank(s): Currently in Use _____
Temporarily Out of Use? ✓ Cashier booth under renovation
Permanently Out of Use? _____

Substance Stored in Tank(s) (1) Regular
(2) Unleaded
(3) Diesel
(4) Superunleaded

Last Date Tanks were tested for tank tightness? (1) _____
(2) _____
(3) _____
(4) _____

Does management keep proper records on tank levels? Yes ✓ No _____
Any Discrepancies Noted? Yes _____ No ✓

Inspection made as a result from Complaint?
Yes ✓ No _____

REPORTED BY:

Dr. Robert Begg
Name

8018 One Calais Ave., B.R.
Address

769-6630
Phone Number

RECEIVED BY:

Pete Romanowsky
Name

DEQ/ U.S.T.
Agency

10/8/87 — 0950
Reported Date — Reported Time

Nature of Complaint:

Gasoline odors detected in restroom.

Have any leaks/spills occurred: Yes _____ No ✓

If yes, When? (last date) _____

From? Line _____ Tank _____

Material that spilled? _____

Estimated Quantity? _____

Visible evidence of leak at facility: Yes ✓ No _____

COMMENTS: Upon Inspection of the site we found that the ~~a~~ cashier's booth has been removed and a new one was under construction. Mr. Hunter, Gen. Contractor, said that there was no work being done to the ~~the~~ tanks and that he did not know of any leaks. We then went to Dr. Begg's office. We could not smell any odors in the restroom but when we opened the sewer manhole cover behind the building, (See attached)

Number of Pictures Taken? 4

Drawing of Facility Made? Yes ✓ No _____

Condition of Surrounding Vegetation? Good _____ Bad ✓

COMMENTS: The vegetation near the tanks and along the Calvin Ave. by the Gulf Station are dead.

Utilities which could provide a source of contamination migration: _____

Telephone line on Essex Lane and Sanitary sewer

Depth to Ground Water: _____

Distance to surface water and name of surface water: _____

Fill ports & monitor wells kept locked? Yes _____ No _____

Do tanks have overfill protection? Yes _____ No ✓

Does facility have written safety plan in case of leaking tank/overfill?

Yes _____ No _____

COMMENTS: _____

A B A N D O N M E N T O R R E M O V A L:

Date of Excavation _____

Number of Tanks Abandoned _____

Removed or Filled with What? _____

Contamination Found: Soil or Ground Water? _____

Substance Found in Tank(s) _____

Disposal Method of Soil, Contaminated Water, and Substance from tank(s) _____

Assessment Date _____

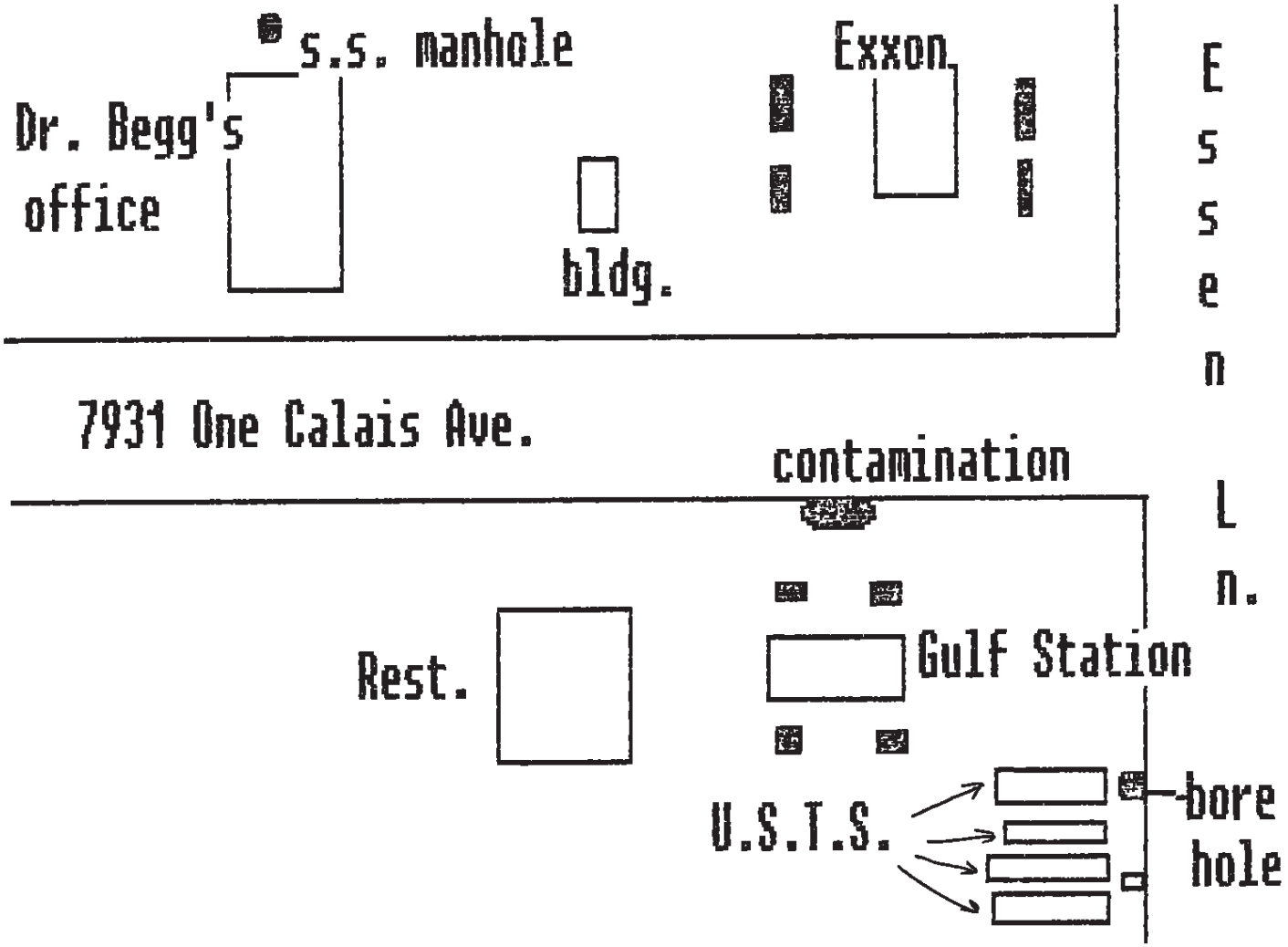
Assessment Company _____

Number of: Monitor Wells on Site? _____

Recovery Wells on Site? _____

Hand ?*?_____ on Site? _____

RESULTS: _____


s.s. manhole
Exxon
Dr. Begg's office
bldg.
Essen Ln.
7931 One Calais Ave.
contamination
Rest.
Gulf Station
U.S.T.S.
bore hole

Gulf Station
7931 One Calais Avenue
Baton Rouge, LA

We detected strong hydrocarbon odors. The explosion meter read 100%. We then spoke with Donna Belg, Manager, and Mr. Tony Yokley, Area Supervisor (359-7288), for the Exxon Station. They indicated that their tanks were replaced about a year ago and were equipped with leak detectors. They said there have been no recent leaks and we could not find evidence of such. Mr. Yokley said he will check his monitor well and records to confirm such.

When we went back to the Gulf Station, we saw an excavation near One Calais Avenue. Inside was an open sewer pipe with gasoline pooling around its opening. A hand bore of the surrounding soil showed the area saturated with gasoline. Mr. Gunter said new sewer lines are being run and the plumber dug the area out to locate the sewer main. We instructed him to put a plug on the pipe, which was later done. A hand bore was taken in the tank area which showed evidence of hydrocarbons 2" below the ground surface. The explosion meter read 100%. The owner, Mr. Keller, and the Fire Department was contacted. 1500 gallons of water was used to flush the lines out. Mr. Bill Drago, East Baton Rouge Department of Public Works, arrived and assisted with the investigation. When Mr. Keller arrived, he was instructed to do an assessment of the contamination.

358-3419

KELLER OIL CO., INC.

PETROLEUM PRODUCTS • TIRES • BATTERIES • ACCESSORIES

6970 PLANK ROAD
BATON ROUGE LA 70807

Authorized Report

page 1 of 2

PETROCHEM

MAINTENANCE SERVICE

PETROCHEM MAINTENANCE, INC.
P. O. BOX 40345
BATON ROUGE, LA 70835-0345

BATON ROUGE, LA. 70835
P O. BOX 15440
PHONE 272-1361

HARRELL'S FERRY ROAD
BATON ROUGE, LOUISIANA

NEW ORLEANS, LA. 70177
P O BOX 29169
PHONE 254-9404

IMPORTANT – PLEASE CHECK YOUR SERVICE REPORT BEFORE LEAVING JOB

SERVICE REPORT NO	DATE	SERVICE DEPARTMENT	CONTROL LOG NO
No. 24841	12-28-90		B6320

SERVICE CO.
NAME: Keller Oil Co.
ADDRESS: PO Box 74264
CITY & STATE: Baton Rouge La 70874-4264

CUSTOMER DATA
OWNER'S NAME: Essen Chevron
ADDRESS: I10 + Esson
CITY & STATE: Baton Rouge, La.
PUMP LOCATION:

CUSTOMER ACCT. NO. 1078

OPERATING INFORMATION

MODEL NO. (CHECK) ▶

SERIAL NOS.

INSTALLATION DATE	FAILURE DATE	WORK AUTHORIZED BY	CUSTOMER'S CERTIFYING SIGNATURE
12-26-90	12-10-90	Randy	

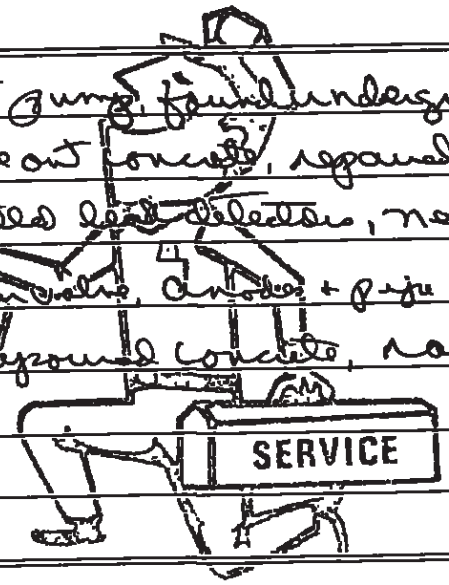
EXPLAIN COMPLAINT
Supreme W/L pumping slow

Mech + 2 helpers 5 1/2

line test Mech

2 days Air Compressor

DESCRIBE WORK DONE
checked out pump, found underground lead, broke out concrete, repaired lead, installed lead detectors, new thermo shear valve, anodes + pipe fitting, repaired concrete, ran line test.



SUGGESTIONS

ITEMIZED REPAIR EXPENSES

HOURS OF LABOR	RATE PER HOUR	TOTAL LABOR
Mech + 2 helpers 5 1/2	$ 56.00	$ 2884.0
TRAVEL TIME 1 1/2	$ 34.00	TOTAL TRAVEL $ 51.0
MILES TRAVELED 196	ALLOWANCE PER MILE $ .35	TOTAL MILEAGE $ 68.60

MATERIALS USED 120.00 — 240.00

QTY	PART NO	DESCRIPTION	UNIT COST	PARTS AMOUNT
2	loads	Sand	$50.00	$ 100.00
2 yds	3000# PSI	Concrete	93.95	187.9
1	roll	visqueen		54.7
42'	1 1/2"	pipe (galv)	3.72 ft	156.2
1	1 1/2"	tee		2.7
2	1 1/2"	unions	4.78	9.5
6	1 1/2 x close	nipples	2.01	12.0
5	1 1/2" 45°	ells	3.02	15.1
3	2"	unions	6.90	20.7
2	2" x close	nipples	2.87	5.7
1	EBW 660-M	impact valve		68.0
2	RJ116017.5	leak det	147.00	294.0
3	Anodes		120.71	362.1
3	Grounding	Clamps	9.90	29.5
3	4x8	plywood	10.45	31.3
	Gasoline			5.6

TOTAL EXPENSES ▶ $ Conti

TERMS—NET DUE ON RECEIPT. DELINQUENT ACCOUNTS SUBJECT TO A LATE CHARGE OF 1 1/2% PER MONTH, NOT TO EXCEED 18% PER YEAR. ATTORNEY FEES ADDITIONAL AND WILL BE ADDED.

CUSTOMER COPY

- Authorized Report

page 2 of 2

PETROCHEM
MAINTENANCE SERVICE

PETROCHEM MAINTENANCE, INC.
P. O. BOX 40345
BATON ROUGE, LA 70835-0345

BATON ROUGE, LA. 70895
P.O. BOX 15140
PHONE 272-1361

HARRELL'S FERRY ROAD
BATON ROUGE, LOUISIANA

NEW ORLEANS, LA. 70177
P.O. BOX 29169
PHONE 254-9404

IMPORTANT – PLEASE CHECK YOUR SERVICE REPORT BEFORE LEAVING JOB

SERVICE REPORT NO	DATE	SERVICE DEPARTMENT	CONTROL LOG NO
No. 24842	12-28-90		B6320

SERVICE CO.
NAME: Keller Oil Co.
ADDRESS:
CITY & STATE:

CUSTOMER DATA
OWNER'S NAME: Essen Chevron
ADDRESS: 210 + Essen
CITY & STATE: Baton Rouge, La.
PUMP LOCATION:

CUSTOMER ACCT NO. 1078

OPERATING INFORMATION

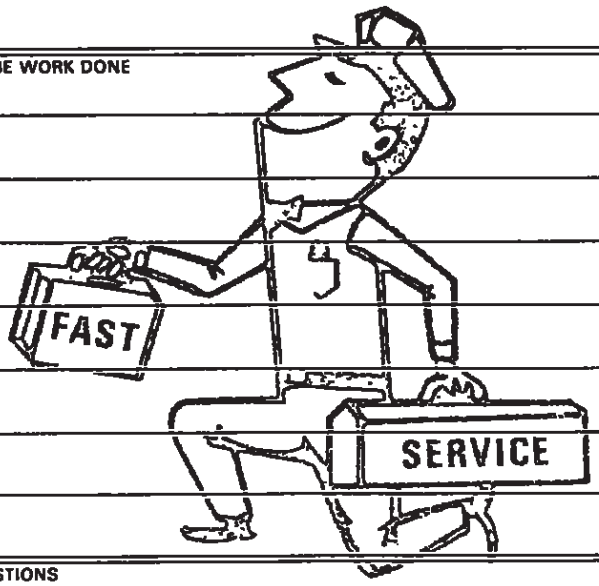
MODEL NO. (CHECK) ▶

SERIAL NOS.

INSTALLATION DATE	FAILURE DATE	WORK AUTHORIZED BY	CUSTOMER'S CERTIFYING SIGNATURE
12-26-90	12-10-90	Randy	

EXPLAIN COMPLAINT

DESCRIBE WORK DONE



SUGGESTIONS

ITEMIZED REPAIR EXPENSES — EXTEND EXPENSES BEL ▼

HOURS OF LABOR	RATE PER HOUR	TOTAL LABOR
	$	$
TRAVEL TIME	**RATE PER HOUR**	**TOTAL TRAVEL**
	$	$
MILES TRAVELED	**ALLOWANCE PER MILE**	**TOTAL MILEAGE**
	$	$

MATERIALS USED

QTY	PART NO	DESCRIPTION	UNIT COST	PARTS AMOUNT
1	1½x3"	nipple	$	$ 2.48
3	4"4"	pelig	.68	2.04
1	4"4"	cap		.68
	Barricade Tape			5.45
1	Can Rectorseal			11.08
1	EBW792-4"	monitor well cap		14.25
4'	4"	monitor well screen		4.00
1	4" PVC	couplings		4.51
1	4" PVC	Cap		6.13
3'	4" PVC	Pipe	2.50	7.50
	Lure Tester Rental			75.00
	Tax			138.30
			TOTAL EXPENSES ▶	$ 4870.6

TERMS—NET DUE ON RECEIPT. DELINQUENT ACCOUNTS SUBJECT TO A LATE CHARGE OF 1½% PER MONTH, NOT TO EXCEED 18% PER YEAR. ATTORNEY FEES ADDITIONAL AND WILL BE ADDED.

CUSTOMER COPY

Baton Rouge, Louisiana
December 7, 1988

Mr. George Gullete
Dept. of Evvironmental Quality
Underground Storage Tank Division
P. O. Box 44274
Baton Rouge, LA 70804

Dear Sir:

Please be advised by this correspondence that all free hydrocarbon liquids (gasoline) which were present in the excavation at the Essen Lane site at the time of the initial inspection by your department were recovered. As there was no water present in the recovered hydrocarbon liquids present in the excavation, those liquids were returned to inventory at our retail facility. At the same time, the line leak which precipitated the accumulation of phased liquids was repaired and tested. The excavation, following removal of the hydrocarbon liquids, was backfilled and the site returned to a serviceable condition.

Yours truly,

J. C. Keller, Sr.

J. C. Keller, Sr.
President
Keller Oil Co., Inc.
6970 Plank Road
Baton Rouge, LA 70807

jck

X Formerly Owned By: Kelley Oil Co, Inc.
B.R.

REGISTRATION FOR UNDERGROUND STORAGE TANKS

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF SOLID AND HAZARDOUS WASTE
UNDERGROUND STORAGE TANK PROGRAM
P.O. BOX 44274 BATON ROUGE, LA 70804-4274

FEB 15 199
UNDERGROUND STORAGE TANK DIVISION

STATE USE ONLY
I.D. NUMBER
DATE RECEIVED
DATE CHECKED
CHECKED BY

GENERAL INFORMATION

Registration is required by State and Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by the Louisiana Environmental Quality Act, L.R.S. 30:1051 et seq, as amended.

The primary purpose of this registration program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Register? The Louisiana Environmental Quality Act, L.R.S. 30:1051 et seq, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify the Louisiana Department of Environmental Quality of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

NOTE: Underground storage tanks of less than 500 gallon capacity, which are required to be registered by the Environmental Protection Agency, shall likewise register with the state; however, these tanks are exempt from Louisiana fees and regulations.

What Tanks Are Excluded? Tanks excluded from Louisiana registration are:
1. farm or residential tanks with a capacity of less than 500 gallons used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored.
3. septic tanks.
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws.
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems.
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations.
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The registration requirements apply to underground storage tanks that contain regulated substances. This includes 1.) any substance defined in section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (but not including any substance regulated as a hazardous waste under Subtitle C of the Solid Waste Disposal Act as amended by RCRA); and 2.) petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute.)

Where to Register? Completed registration forms should be sent to the address given at the top of this page.

When to Register? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must register by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986 must register within 30 days of bringing the tanks into use.

Registration Fee: The owners of operational or non-operational underground storage tanks containing regulated substances must submit with the registration form the payment of the registration fee for each underground storage tank according to the following schedule:
1. For any substance defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (but not including any substance regulated as a hazardous waste under Subtitle C of the Solid Waste Disposal Act as amended by RCRA)—$125.00/tank.
2. For petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute) — $20.00/tank.

In no case shall one owner be required to pay an aggregate registration fee in excess of $2000.00. In addition to the registration fee, an annual monitoring and maintenance fee is required commencing May 8, 1987 in accordance with the regulations.

Penalties: Any owner who knowingly fails to register or submits false information shall be subject to a civil penalty not to exceed $25,000 per day for each tank for which registration is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. **This form must be completed for each location containing underground storage tanks.** If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form. Make checks payable to the Louisiana Department of Environmental Quality.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): GLENN HARRIS

Street Address: 7931 ONE CALAIS AVE.

Parish: EBR

City: BATON ROUGE State: LA Zip Code: 70809

Area Code: 504 Phone Number: -

Type of Owner (*Mark all that apply* ☒)

- ☒ Current
- ☐ Former
- ☐ State or Local Gov't.
- ☐ Federal Gov't. (GSA facility I.D. no. _____)
- ☐ Private or Corporate
- ☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☒)

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable

Parish

City (nearest) State Zip Code

Latitude: ____°(deg.) ____'(min.) ____"(sec.)

Longitude: ____°(deg.) ____'(min.) ____"(sec.)

Indicate number of tanks at this location: [ ]

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☒) Job Title Area Code Phone Number

IV. TYPE OF REGISTRATION

☒ Mark Box here only if this is an amended or subsequent registration for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed
	Glenn Harris	2/5/91

CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ____ of ____ Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS *(Complete for each tank at this location.)*

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3 . . .)	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	Tank No.
1. Status of Tank *(Mark all that apply ☒)* — Currently in Use	☒	☒	☒	☒	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☐	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Age (Years)	approx 13 yr	13 yr	13 yr	13 yr	
3. Total Capacity (Gallons)	10,000	10,000	10,000	5,000	
4. Is Tank and/or Piping Leaking? (YES or NO)	NO	NO	NO	NO	
5. Material of Construction *(Mark one ☒)* — Steel	☒	☒	☒	☒	☐
Concrete	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	____	____	____	____	____
6. Internal Protection *(Mark all that apply ☒)* — Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☒	☒	☒	☒	☐
Other, Please Specify	____	____	____	____	____
7. External Protection *(Mark all that apply ☒)* — Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☒	☒	☒	☒	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	____	____	____	____	____
8. Piping *(Mark all that apply ☒)* — Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☒	☐
Other, Please Specify	Cathodic Protection Just installed on replaced line				
9. Substance Currently or Last Stored in Greatest Quantity by Volume *(Mark all that apply ☒)* — **a. Empty**	☐	☐	☐	☐	☐
b. Petroleum	☐	☐	☐	☐	☐
Diesel	☐	☐	☐	☒	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☒	☒	☒	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	____	____	____	____	____
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance	____	____	____	____	____
OR					
Chemical Abstract Service (CAS) No	____	____	____	____	____
Mark box ☒ if tank stores a mixture of substances	☐	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
10. Additional Information (for tanks permanently taken out of service) N/A — a. Estimated date last used (mo./yr.)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)	____	____	____	____	____
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐
11. Additional Information (for replacement tanks installed after January 1, 1974) N/A — a. Is the tank currently in use a replacement tank for one previously in use at the same site? (YES or NO)	____	____	____	____	____
b. When was the previous tank removed? (mo./yr.)	/	/	/	/	/
c. What was the age of the previous tank at time of removal? (years)	/	/	/	/	/
d. Was the tank and/or piping previously removed found to be leaking? (YES or NO)	____	____	____	____	____
e. If so, was contamination of the regulated substance removed from the soil and/or ground water? (YES or NO)	____	____	____	____	____

RELEASE NOTIFICATION

FILE 5-16-91

INCIDENT # UE-91-2-0002
(ASSIGNED ONLY IF CONFIRMED)

☐ SPILL/OVERFILL
☐ TANK OR PIPING LEAK

REPORTED BY:
NAME: Donna Lorren
ADDRESS: 8322 One Calais
Baton Rouge, La. 70809
PHONE NUMBER: 766-4410 Ex 713

RECEIVED BY:
NAME: Dennis D Strickland
DATE RECEIVED: 5-15-91
TIME RECEIVED: 3:07 pm

PRODUCT INVOLVED: [✓] GASOLINE [ ] OIL [ ] DIESEL
DATE FOUND: _____ [ ] HAZARDOUS _____ [ ] OTHER _____
ESTIMATED AMOUNT RELEASED: _____
D.E.Q. RESPONSE REQUIRED: [✓] EMERGENCY ACTION UNDERWAY: [ ]

STATUS OF RELEASE

ASSESSMENT REQUIRED: [✓] REMEDIATION COMPLETE: [ ]
PENDING FURTHER INFO.: [ ] Action Taken: _____

FACILITY INFORMATION

TANK FACILITY NAME: Chevron + Exxon
TANK FACILITY ADDRESS: Corner of One Calais and Essen
PARISH: East Baton Rouge UST ID#: 17-010765
CONTACT NAME: Glenn Harris CONTACT PHONE: 766-8584
TANK FACILITY OWNER: Glenn Harris
OWNER MAILING ADDRESS: 7931 One Calais
Baton Rouge, La.
OWNER PHONE NUMBER: (504) 766-8584

INCIDENT DESCRIPTION AND ASSESSMENT: For about 6 weeks strong odors of gasoline have been detected at this corner as she drives by. The odors have been getting stronger and stronger.

LOUISIANA UNDERGROUND STORAGE TANK DIVISION
INSPECTION REPORT

FACILITY ID # 17-010765 INCIDENT LOG # UE-91-2-0002

INSPECTION DATE 6-5-91 TIME OF ARRIVAL DEPARTURE

1. Facility
Chevron (gulf) Station

2. Street
7391 One Calais

3. City
Baton Rouge

4. Zip

5. Parish EBR

6. Telephone 766-8584

7. Owner Glenn Harris

8. Street 7931 One Calais

9. City
Baton Rouge

10. Owner Phone 766-8584

TYPE OF INVESTIGATION

11. ___ INITIAL 12. X FOLLOW-UP

13. X RELEASE
a. ___ Spill/Overfill ___ Leaking UST
(1) X Petroleum ___ Hazardous

14. ___ CLOSURE

15. ___ RELEASE DETECTION

16. ___ INSTALLATION

17. ___ COMPLAINT

18. X EMERGENCY RESPONSE

19. X OTHER

VIOLATION(S) NOTED

SECTION(S) DESCRIPTION

COMMENTS

PICTURES Yes X No

An investigation of the above referenced site was made in response to a telephone conversation with Mr. Lew Schug of Gulf States Utilities regarding gasoline contamination in the vault on One Calais Dr. Present at the site were: Mr. Dale Saia, DPW, Robert Drago, DPW, Glenn Harris, Jeff Meyers, DEQ, Bill Drago, DPW, Roy Field, GSU, Warren Landry, Envirocorp, and myself. I attempted to check the RDD at the Exxon across the street but due to the high water table, the water in the RDD could not be bailed out low enough to allow access. Mr. David Handy, Exxon store manager, said R. L. Hall and Associates checked the RDD a few days ago an found no evidence of contamination. Mr handy said some of his employees recently complained of gasoline odors in the restrooms. A hydrocarbon sheen was present on the water in some of the expansion joints at the Gulf/Chevron Station. I requested that the DPW open the sanitary sewer(SS) manhole to check for evidence of gasoline contamination. This manhole is located in the street and in front of the vacant building behind the Chevron Station. When the manhole was opened and checked with an explosimeter, a reading of 100%LEL was obtained. GSU pumped the water out of their splice junction vault and opened the covers. A gasoline sheen was present and the air in the vault gave a

LOUISIANA UNDERGROUND STORAGE TANK DIVISION
INSPECTION REPORT - CONTINUATION SHEET

FACILITY # 17-010765 **DATE:6-13-91**

SITE NAME Gulf- Chevron

STREET One Calais Ave.

CITY Baton Rouge

50%LEL reading on the explosimeter. Baton Rouge HAZMAT was contacted to report to the site. Envirocorp proposed to install a french drain along One Calais Dr. to intercept the gasoline. GSU turned off the power line leading to the Chevron Station via the vault. This was done to releave the pressure on the other lines being used in the loop and to reduce the risk of explosion. Another SS manhole at the corner of One Calais and Essen was checked with the explosimeter and 100%LEL was measured. DPW was requested and put perforated manhole covers on three of their manholes. DPW said the pumping station did not exhibit gasoline vapors. At about 2:00pm the SS was flushed with water. The following readings were obtained:

Time	%LEL	
2pm	0	manhole behind Chevron in front of vacant building
3pm	0	
4:06pm	0	
2pm	10-15	manhole on corner of One Calais & Essen
3pm	6	
4:06pm	0	
2pm	100	manhole in front of Exxon
3pm	20	
4:06pm	10	
2pm	100	manhole closest to pumping station
3pm	80	
4:06pm	85	

A vent fan was set up by Envirocorp after Mr. Bill Davis with Air Quality was contacted to see if a permit would be needed. After the fan was started, the SS was flushed again. At 5pm the manhole closest to the pumping station was checked again and a 30%LEL reading was obtained. Envirocorp said they would operate the fan 24 hrs a day at the present time.

Person(s) Interviewed Glenn Harris **Title** owner

Inspector(s)

Report By:
Dennis D. Strickland

Dennis D. Strickland
(Signature)

LOUISIANA UNDERGROUND STORAGE TANK DIVISION
INSPECTION REPORT

FACILITY ID # 17-010765 INCIDENT LOG # UE-91-2-0002

INSPECTION DATE 6-14-91 TIME OF ARRIVAL 7:50am DEPARTURE 9am

1. Facility
Chevron (gulf) Station

2. Street
7391 One Calais

3. City
Baton Rouge

4. Zip

5. Parish EBR

6. Telephone 766-8584

7. Owner Glenn Harris

8. Street 7931 One Calais

9. City
Baton Rouge

10. Owner Phone 766-8584

TYPE OF INVESTIGATION

11. ___ INITIAL 12. X FOLLOW-UP

13. X RELEASE
a. ___ Spill/Overfill ___ Leaking UST
(1) X Petroleum ___ Hazardous

14. ___ CLOSURE

15. ___ RELEASE DETECTION

16. ___ INSTALLATION

17. ___ COMPLAINT

18. ___ EMERGENCY RESPONSE

19. X OTHER

VIOLATION(S) NOTED

SECTION(S) DESCRIPTION

COMMENTS

PICTURES Yes X No

An investigation of the above referenced site was made to check progress on the remediation. The vent fan for the sewer was in operation and Envirocorp plans on operating it 24hrs a day until the trench is installed. The French drain trench will begin to be installed this morning.

1:51pm - 2:30pm
Petro-Chem is in the process of digging the French Drain. Free phase gasoline was being hand bailed out of the trench near the sanitary sewer line to the station. The trench has been dug to the flower bed in the center of the drives to the station. The soils in the trench had strong gasoline odors. The city DPW checked the sanitary sewer manholes with an explosimeter and obtained a 1%LEL for the highest reading.

3:45 - 4:37pm
Envirocorp plans on finishing this section of the trench and begin backfilling tomorrow. The city DPW checked the sanitary sewer manholes with an explosimeter and obtrained a 1%LEL for the highest reading.

Dennis D. Stockland

DATA BASE TRACKING CHART

Inspector's Initials DSS

LEAK # 91-2-0002	DATE FOUND
DATE RPT 5/15/91	DATE CONF 5/15/91
Discovered thru Complaint	
ASSESS RQD. requested according to their letter 5/17/91 (no ass ltr in file)	ASSESS. RCD.
ASSESS. APD.	ADD'L INFO
C.A. RQD.	C.A. RCD.
ADD. INFO	C.A. APPD.
REMED. METHOD	TERM. REMED.

RECEIVED

JUN 21 1993

UNDERGROUND STORAGE
TANK DIVISION

INCIDENT # _____

LOUISIANA NOTIFICATION REQUIREMENTS

This form should be completed and submitted to the Underground Storage Tank Division within seven (7) calendar days after verbal notification.

If mailed, submittal date will be the postmark date of the written notification. Forward to:

ADMINISTRATOR
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Division
P. O. Box 82178
Baton Rouge, Louisiana 70884-2178

- -

1. Name of person, company or other party who is filing the written report. ENERGY EQUIPMENT
PO Box 80582
BR La. 70898

2. Time and date of verbal notification, name of person making the notification and identification of the site or facility. (Name and address).
6-16-93
2:00 pm
Terry Chamberlain

Essen Express
7931 One Calais Ave
BR La 70809

3. Release date and time.
6-15-93

4. Incident details and/or emergency condition.
RUL Product Line shut down by heat Detector

5. Product released and estimated quantity released in gallons. gasoline / unknown

6. Surface or groundwater impact.

7. Action taken to stop release. Product removed from tank + line

8. Measures taken to prevent recurrence of the incident.

9. Is the U.S.T. System registered?

YES ✓ U.S.T. ID# _____
NO _____

ANSWER THE FOLLOWING ONLY IF GROUNDWATER CONTAMINATION IS CONFIRMED

1. Reporting party status (owner, operator, consultant, etc.)

2. Attach groundwater contamination data and/or analytical results.

3. Possible routes of migration.

4. List all abandoned or active water wells within the immediate area.

5. Names of all other responsible parties.

State of Louisiana

Department of Environmental Quality

M.J. "MIKE" FOSTER, JR.
GOVERNOR

December 11, 1998

J. DALE GIVENS
SECRETARY

Mr. Randy Herring
Keller Oil Company, Inc.
Post Office Box 74264
Baton Rouge, Louisiana 70874-4264

Re: No Further Action Request
Essen Chevron
7931 One Calais Ave.
Baton Rouge, Louisiana
East Baton Rouge Parish
Facility ID No. 17-010765
Incident No.'s UE-90-2-00875, UE-91-2-0002,
UE-91-2-0197, and UE-93-2-0151

Dear Mr. Herring:

The Underground Storage Tank Division (USTD) has reviewed your referenced request dated December 7, 1998, for the above-referenced facility. Thank you for providing this information.

Based on the analytical data furnished with the referenced request and limited information within USTD files. The USTD agrees that no further assessment and/or remediation is warranted at this time for these particular incidents.

Your continued cooperation and efforts to keep us informed of your activities at the site are appreciated. Should you have any questions, please contact Michael T. Picou at (225) 765-2682.

Sincerely,

Harold F. Ethridge, Jr.
Administrator

HFE:MTP
c: Mr. Scott Guilliams, Program Management Support Section, USTD
Capital Regional Office, USTD

AI # 70297

STATE OF LOUISIANA
UNDERGROUND STORAGE TANK CLOSURE/ASSESSMENT FORM

Please complete and return within sixty (60) days after UST system closure or change-in-service

Return to: LDEQ - UST DIVISION Questions: (504) 765-0243
P. O. Box 82178
Baton Rouge, LA 70884-2178

DEQ Facility Number 17-010765, AI 70297
DEQ Owner ID Number 00346700

I. OWNERSHIP OF TANKS

IF OWNER'S ADDRESS CHANGED, PLEASE CHECK ☐
KELLER OIL CO INC
OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)
P.O. Box 74204
MAILING ADDRESS
Baton Rouge, La 70874
CITY STATE ZIP
EBR
PARISH/COUNTY
(225) 654-2644 (cell 405-0127)
TELEPHONE (INCLUDE AREA CODE)
Randy Herring
NAME OF CONTACT PERSON

II. LOCATION OF TANKS

IF SAME AS SECTION I, PLEASE CHECK ☐
ESSEN CHEVRON
FACILITY NAME OR COMPANY SITE IDENTIFIER
7931 One Calais
STREET ADDRESS (P. O. BOX NOT ACCEPTABLE)
Baton Rouge LA 70809
CITY STATE ZIP
EBR
PARISH
(225) 766-8584
TELEPHONE (INCLUDE AREA CODE)
RANDY HERRING
CONTACT PERSON AT THIS LOCATION

Change 2.D
Add tel. #
Enter End date in AH Subj. I.D - 6/26/03
Enter Removal date in UST page - 6/26/03
Enter Certified worker info in UST page

III. TANK INFORMATION (Attach Continuation Sheets If Necessary)

DEQ ASSIGNED TANK NUMBERS	PRODUCT LAST STORED IN TANK	SIZE OF TANK (GALLONS)	CHOOSE ONE PER TANK 1 = Removed 2 = Closed-in-Place 3 = Change-in-Service[1] 4 = Removed & Replaced[1]	TANK PROPERLY LABELED? CIRCLE		HIGHEST LEL OR OXYGEN READING[2] LEL[4]	Oxygen	DATE OF CLOSURE OR CHANGE-IN-SERVICE
[illegible]	Gasoline	12,000	1	Y	N			6/26/03
[illegible]630	Gasoline	12,000	1	Y	N			6/26/03
[illegible]631	Gasoline	12,000	1	Y	N			6/26/03
				Y	N			/ /
				Y	N			/ /

1 - Indicate the non-regulated substance to be stored in the tank.
2 - A registration form addressing the replacement tank must be completed.
3 - Highest reading recorded just before tank removed from excavation.
4 - Lower Explosive Limit

IV. TANK

A. Date cleaned 6/26/03
B. Date disposed/recycled 6/26/03
C. Name of disposal site/recycling site
Cut up for scrap

V. TANK SLUDGES

A. Date disposed/recycled / /
B. Volume removed cu/yds
C. Name of disposal site

VI. TANK WATERS/WASHWATERS

A. Date disposed/recycled 6/26/03
B. Volume removed 454 gals
C. Name of disposal/recycling site
US Filter Recovery

VII. CONTAMINATED SOIL (IF APPLICABLE)

A. Date removed / /
D. Date disposed / /
B. Volume of soil removed cu/yds
C. Name of disposal site

VIII. CONTAMINATED GROUNDWATER (IF APPLICABLE)

A. Date removed / /
D. Date disposed / /
B. Volume of groundwater removed gals
C. Name of disposal site/recycler

IX. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

KELLER OIL CO INC — [signature] — 7-14-03
PRINT OR TYPE OWNER'S NAME — OWNER'S SIGNATURE — DATE

Joseph Calamia — Joseph Calamia — IRC-0032 — 7/14/03
PRINT OR TYPE NAME OF CERTIFIED WORKER — SIGNATURE OF CERTIFIED UST WORKER — CERTIFICATE NO. — DATE

FORMS THAT DO NOT INCLUDE THE OWNER'S AND UST WORKER'S SIGNATURES WILL BE REJECTED.

Energy Equipment Inc

LDEQ RESPONSE - DO NOT WRITE BELOW THIS LINE

✓ UST system removed from database; no further action required.
UST system removed from database; additional information required.

Reviewer's Signature [signature] Telephone No. (504) 765-3471 Date 7/22/03

Signature of LDEQ Representative [signature] Date 7/22/03 Supervisor's Initials

UST-ENF-02 **** INCOMPLETE FORMS MAY BE REJECTED ***** Revised 12/94

UST DIV. REGISTRATION FILES

UNDERGROUND STORAGE TANK CLOSURE/ASSESSMENT FORM

INSTRUCTIONS

Within **SIXTY DAYS** after completing a UST closure or change-in-service, this form along with **two copies** of the following must be provided to the Underground Storage Tank Division:

1. site drawing;
2. analytical results with chain-of-custody documents; and
3. copies of all manifests, bills of lading or receipts for the disposition of tank(s), tank contents, soil and waters.

All applicable information required on the form must be addressed. Forms that are incomplete may be rejected.

Please **PRINT** clearly (press hard, as you are making six copies). After completion, the owner is to retain the bottom (canary) copy and forward all remaining copies of the form to:

UNDERGROUND STORAGE TANK DIVISION
P. O. BOX 82178
BATON ROUGE, LA 70884-2178.

The UST Division will distribute the remaining copies of the form as follows:

1. Original (White) - UST Main Office File
2. Pink - UST Regional Office File
3. Goldenrod - Registration Files
4. Blue - UST Owner (After DEQ Processing)
5. White - UST Closure Reading File
6. Green - UST Main Office File (Before DEQ Processing)

PROCEDURES TO BE FOLLOWED

The procedures which must be followed when performing a UST closure or change-in-service are provided in the "Underground Storage Tank Closure/Change-in-Service Assessment Guidelines." To obtain a copy of this document call the UST Division at (504) 765-0243 or write to the address noted above.

NOTICE

Chapter 13 of the UST Regulations requires that owners of USTs ensure that the contractor chosen to perform the UST closure/change-in-service employs an individual who holds a current Louisiana DEQ certificate for closure. The certified person must be present at the site and exercising responsible supervisory control during the closure/change-in-service process. A list of contractors who employ DEQ certified workers can be obtained from the UST Division at (504) 765-0243.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINIMUM DATA SET
Basis for Referral to the Remediation Services Division

Discovery through:

Complaint ☐ **LDEQ Investigation** ☐ **Notification** ☐

Other ☒
Explain: Underground Storage Tank (UST) closure and DISI

RECEIVED
JUL 25 2005
LA DEPT. OF ENVIRONMENTAL QUALITY
REMEDIATION SERVICES DIVISION
LOG# 2006-483

Agency Interest Information

LDEQ Agency Interest ID No: 13366
Agency Interest Name: Former Exxon Retail Store # 5-0608
Mailing Address: 16825 North chase Drive, Room 928C, Houston Texas 77060
Street Address: 4555 Essen Lane, Baton Rouge, LA
Parish: East Baton Rouge
Physical Address (if different): same
Agency Interest Description (Type of Business): Convenience store
Contact (Name and Title): Dale Gomm, Project Manager
Contact Phone #: 713-819-6879

Remediation Services Division
Manager: Blanchard
Team Leader:
AI #: 13366
TEMPO Task #:
☐ Desk Copy File Room:

Area of Investigation (AOI) Information

LDEQ AOI Name: Former Exxon Store # 5-0608
AOI Coordinates (GPS or surveyed):
Location of AOI: 4555 Essen Lane, Baton Rouge, LA
Directions to AOI:
Confirmation that contamination exists: UST system was removed and a DISI was performed. Three soil borings were installed to a maximum depth of 20' and converted into monitoring wells MW-1, MW-2, and MW-3. The concentration of MTBE at MW-1 (18'-20') was above RECAP SS for soils. For groundwater Benzene, MTBE, TPH-GRO, TPH-DRO, Naphthalene, and 2-Methylnaphthalene were above RECAP SS for groundwater samples taken at MW-1. MTBE, TPH-GRO, and TPH-DRO concentrations were above RECAP SS for groundwater samples taken at MW-2 and the TPH-DRO concentration was above RECAP SS for the groundwater sample taken at MW-3.
Release Confirmation Date: Unknown
Source of release: UST system
Sampling Data Exists? **Yes** ☒ **(attach results)** **No** ☐

Samples taken by: PRP ☐ LDEQ ☐ Other ☒
Explain other: CRA and Associates

Media Sampled: Soil and groundwater

Parameters Analyzed: BTEX, MTBE, TPH-GRO, PAHs, and TPH-DRO

Constituents of Concern Detected: MTBE(soils) and benzene,MTBE, TPH-GRO, Naphthalene, 2-Methylnaphthalene, and TPH-DRO (groundwater).

Sampling Details (media, locations, depths, etc. Attach diagram if available): samples taken during USTs removal and also DISI.

☐ **Samples not collected due to visual evidence of a release and/or process knowledge.**
Explain:

Summary of Discovery: Analytical results for soil samples indicate MTBE was above RECAP SS and Soil and analytical results for groundwater collected indicate that Benzene, MTBE, TPH-GRO, TPH-DRO, Naphthalene, and 2-Methylnaphthalene. were above RECAP SS.contamination discovered during UST removal and DISI investigation..

Description of actions taken in response to Discovery: USTs were removed.

Evidence of impact or imminent threat to sensitive receptors? ☒ No ☐ Yes
Details for yes:

Basis for Referral to the RSD: Soil (MTBE) and groundwater (Benzene, MTBE, TPH-GRO, Naphthalene, 2-Methylnaphthalene, and TPH-DRO) contamination is present. A check of EDMS shows that there was an incident (UE-98-2-0106). This incident dealt with a 12,000-gallon fiberglass regular unleaded UST taking on water and the certified contractor on site discovered that there was a hole punched at the bottom of the tank directly below the fill port The stricker plate had been dislodged. The tank was repaired, but this incident according to EDMS has not been terminated.

Referred By: Charles J. Melchior CM

Date: 7/18/05

Phone Number: (225) 219-3644

RECORD OF COMMUNICATION
UNDERGROUND STORAGE TANK DIVISION
LA. DEPT. OF ENVIRONMENTAL QUALITY

DATE: October 26, 1998 _X_ **Phone Call** ___ **Discussion**

TIME: 7:55 AM ___ **Field Trip** ___ **Conference**

___ **Other (Specify)**

PHONE NO:

TO: File **FROM:** C. Melchior CM

SUBJECT: Exxon # 5-0608
4555 Essen Lane
Baton Rouge. LA
FID # 17-004224

PARISH: EBR

SUMMARY OF COMMUNICATION: I spoke with Robert Blu, with Exxon. There is a 12,000-gallon fiberglass UST at the above-referenced facility that is taking on water. The tank hole was pumped down to see if any product was lost, but according to Mr. Blu, none was. Mr. Blu needs to repair this tank and a company out of Texas, supervised by Jerry Allen, will be overseeing the repair. I told Mr. Blu to contact the state Fire Marshall. He wants to expedite the work, so he will contact Raul Busquet to see if he can fax over an Installation/Renovation Form for this site.

CONCLUSIONS, ACTION TAKEN OR REQUIRED: For your information.

Information Copies to: None

LOUISIANA UNDERGROUND STORAGE TANK DIVISION
INSPECTION REPORT

FACILITY ID # 17-004224 INCIDENT LOG # UE-98-2-0106
INSPECTION DATE- 10-29-99 TIME OF ARRIVAL@ 8:45 DEPARTURE@

1. Facility Exxon Station #004224
2. Street 4555 Essen Hwy.
3. City Baton Rouge, La
4. Zip 70809
5. Parish EBR
6. Telephone#
7. Owner Exxon Company USA
8. Street P.O. Box 2180
9. City Houston, TX
10. Owner Phone# (713) 656-3428

TYPE OF INVESTIGATION

11. ___ INITIAL 12. ___ FOLLOW-UP

13. ✓ RELEASE
    a. ___ Spill/Overfill ✓ Leaking UST
    (1) ___ Petroleum ___ Hazardous
14. ___ CLOSURE
15. ___ RELEASE DETECTION
16. ___ INSTALLATION
17. ___ COMPLAINT
18. ___ EMERGENCY RESPONSE
19. ___ OTHER

VIOLATION(S) NOTED

SECTION(S)	DESCRIPTION

PICTURES Yes ___ No ✓

COMMENTS

This investigation was to observe the repair of a 12,000 gallon UST. This tank is constructed of fiberglass and is used for regular gasoline. The contractor was Rittiner which subcontracted containment solutions service to repair the UST. The repair was due to the fact that this tank had been taking on water. Upon entering the tank, it was discovered that a hole had been punched in the bottom directly below the fill port, possibly by "sticking". Containment Solutions Services will repair this hole and install a striker plate in this area.

Person(s) Interviewed	Title
Jerry D. Allen (Rittiner)	Project Manager
Robert Blue (Exxon)	M&C Specialist

Inspector(s) Larry Pentecost

Report By: [signature] (Signature)

UST DIVISION - RELEASE NOTIFICATION FORM

INCIDENT NUMBER: UE - 98-2-0106

NOTIFICATION INFORMATION

RECEIVED BY: Charlie Melchior

DATE: 10 / 26 / 98 TIME: 8:15 (a.m) / p.m

DATE DISCOVERED: 10 / 23 / 98

DATE CONFIRMED: 10 / 26 / 98

REPORTED BY: Robert Blue

ADDRESS: One Lakeway Center
Ste. 1315
3900 North Causeway Blvd.
Metairie, LA

TELEPHONE: (504) 830-3507

- [x] GASOLINE
- [ ] DIESEL
- [ ] HAZARDOUS SUBSTANCE
- [ ] OTHER:
- [ ] NEW OIL
- [ ] USED OIL
- [ ] PIPING LEAK
- [ ] DISPENSER LEAK
- [x] UST LEAK
- [ ] OTHER:
- [ ] SPILL
- [ ] OVERFILL
- [ ] UNKNOWN

QUANTITY RELEASED: UNKNOWN / _____ GALLONS

FACILITY INFORMATION

FACILITY ID# 17-004224

NAME: Calais Exxon II 50608

ADDRESS: 4555 Essen
Baton Rouge, La

PARISH: EBR

CONTACT PERSON: Robert Blue

TELEPHONE: (504) 830-3507

OWNER NAME: Exxon Company USA

ADDRESS: P.O. Box 4386
Houston, TX 77210

TELEPHONE: (504) 830-3507

RELEASE STATUS

- [ ] Assessment Required - Date required, if known ___/___/___
- [x] Pending Further Information

Comments: Awaiting seven day notification

- [ ] Remediation Complete
  Date: ___/___/___
  Method:

Trust Fund Eligible [ ] Yes [ ] No [x] Unknown

INCIDENT DESCRIPTION

It was discovered by way of the EMCO Wheaton 3000 UST system monitor that this UST was taking on water. Upon entering the tank, the contractors discovered that a hole had been punched in the bottom of the tank directly below the fill port. The striker plate had been dislodged.

CONESTOGA-ROVERS
& ASSOCIATES

4915 S. Sherwood Forest Blvd., Baton Rouge, LA 70816
Telephone: 225.292.9007 Facsimile: 225.292.3614
www.CRAworld.com

May 16, 2005

Reference No. 25881-02 (3)

Mr. Charlie Melchior
Louisiana Department of Environmental Quality
Office of Environmental Compliance
P.O. Box 4312
Baton Rouge, Louisiana 70821-4312

Dear Mr. Melchior:

Re: Underground Storage Tank Removal
Former Exxon Retail Store No. 5-0608
4555 Essen Lane
Baton Rouge, East Baton Rouge Parish, Louisiana
Facility UST I.D. No.: 17-004224
Agency Interest No.: 13366

Conestoga-Rovers & Associates (CRA), as environmental consultant for Exxon Mobil Corporation (ExxonMobil), herein submits three copies of the report documenting the closure of four underground storage tanks at the above-referenced location. Based on the analytical results submitted herein No Further Action At This Time (NFA-ATT) is recommended.

If you have any questions or comments concerning this report, please contact CRA or Dale L. Gomm, ExxonMobil Territory Manager, at (713) 819-6879.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Cliff D. Corder

Thomas B. Powers, PG

CDC/kmc/3
Encl.

RECEIVED
MAY 18 2005
DEPT. OF ENVIRONMENTAL QUALITY

Equal Employment Opportunity Employer
REGISTERED COMPANY ISO 9001 ENGINEERING DESIGN

Worldwide Engineering, Environmental, Construction, and IT Services

SPOC

From: SPOC@la.gov
Sent: Thursday, April 21, 2005 3:55 PM
To: SPOC
Cc: Jason Bonds
Subject: Incident Report Form

S05-277 T78436

Reporting Company Information	
Date/Time Reported: 4/21/2005 3:54:47 PM	
Type of Incident: Spill Incident/Release	
First Name:	Seth
Last Name:	Domangue
Title:	Geologist
Company:	CRA
Phone #:	292 9007
Mailing Address:	4915 S. Sherwood Forest Blvd.
City:	Baton Rouge
State:	LA
Zip:	70816
Email:	sdomangue@craworld.com
Responsible Party Information	
Name of Responsible Party: Exxon Mobil Corporation	
Location of Incident: 4555 Essen Lane, Baton Rouge, LA	
Mailing Address (if different from above):	
City:	State: Zip:
Date of Discharge:	Unknown
Time Noticed:	Began: NA Ended: NA
Parish:	East Baton Rouge
Media Affected:	Soil/Water
If water, name of nearest water body: NA	
If air, note wind direction and weather conditions: NA	
Description of Release/Spill	
Product/material release and quantity: Gasoline/Diesel - unknown quantity	
Description of release: UST system	
How was the spill contained?: NA	
How was the spill cleaned?: NA	
Directions for Reaching the Site	

CRO ~~Courtney~~ Melchior

04-21-05 15:56 RCVD

INCIDENT REPORT

Incident ID: 78436

Incident Reporter

Received By: Chris Delmar
Received Date: APR-21-05 15:56:00
Dispatch #: s05-1277
Reported By: Seth Domangue, Other
Phone Desc: 225-292-9007
Reporter Title:
Org Desc: CRA
Address: 4915 S. Sherwood Forest Blvd.

Municipality: Baton Rouge
State Code: LA
Zip Code: 70816
Comments: See Incident # 78436.

Incident Description

Incident Type: UST Rem, Spill Release
Incident Date: APR-21-05 00:00:00
Parish: East Baton Rouge
Municipality: Baton Rouge
Location: 4555 Essen Lane - Baton Rouge
Lat/Lon:
Basin/Segment:
Substance:
Media Impacted: Soil
Incident Desc: s05-1277 Gasoline/diesel was released from a UST. CMD

Incident Source

Source Name: ExxonMobil Oil Corp 50608
Address: 4555 Essen Ln

Municipality: Baton Rouge
State: LA
Phone:
Parish: East Baton Rouge
AI#: 13366
Related Permits: 0
Investigation Findings: CM: Soil (MTBE) and groundwater (Benzene, MTBE, TPH-GRO, Naphthalene, 2-Methylnaphthalene, and TPH-DRO) contamination is present. A check of EDMS shows that there was an incident (UE-98-2-0106). This incident dealt with a 12,000-gallon fiberglass regular unleaded UST taking on water and the certified contractor on site discovered that there was a hole punched at the bottom of the tank directly below the fill port The stricker plate had been dislodged. The tank was repaired, but this incident according to EDMS has not been terminated. Refer to RSD.

Incident Status

Lead Investigator: Charles Melchior CM
Region: Capital
Incident Status: Referred to Remediation
As Of: 07/18/2005

DIVESTMENT INITIAL SUBSURFACE INVESTIGATION

Former Exxon Retail Store No. 5-0608
4555 Essen Lane
Baton Rouge, East Baton Rouge Parish, Louisiana
Facility UST I.D. No.: 17-004224
Incident I.D. No.: None Assigned
Agency Interest No.: 13366

for

Exxon Mobil Corporation
Houston, Texas

MAY 2005
Ref. 25881-01 (2)

CONESTOGA-ROVERS & ASSOCIATES
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816
(225)292-9007 Office; (225)292-3614 Fax

EXECUTIVE SUMMARY

Conestoga-Rovers & Associates (CRA) has completed a Divestment Initial Subsurface Investigation (DISI) for Exxon Mobil Corporation (ExxonMobil) at former Exxon Retail Store No. 5-0608 located at 4555 Essen Lane, Baton Rouge, East Baton Rouge Parish, Louisiana. This investigation was conducted in order to determine if service station operations have adversely affected subsurface media (soil and groundwater). A summary of CRA's work and findings follows:

- The site is an inactive service station located in an area of light commercial development.
- Three soil borings/monitor wells (MW-1 through MW-3) were installed to a maximum depth of 20 feet.
- Soil and groundwater samples were collected from each soil boring/monitor well (MW-1 through MW-3) and were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary-butyl ether (MTBE), total petroleum hydrocarbons-gasoline range organics (TPH-GRO) and TPH-diesel range organics (TPH-DRO). Groundwater samples with TPH-DRO concentrations above 0.15 milligrams per liter (mg/L) were further analyzed for polycyclic aromatic hydrocarbons (PAH).
- Analytical results for soil samples collected during the DISI, indicated MTBE concentrations exceeding the Louisiana Department of Environmental Quality's (LDEQ) Risk Evaluation/Corrective Action Program (RECAP) Screening Option (SO) Screening Standards (SS), October 20, 2003, version of the document, are present at the site.
- Analytical results for groundwater samples collected during the DISI, indicated benzene, MTBE, TPH-GRO, TPH-DRO, Naphthalene, and 2-Methylnaphthalene concentrations exceeding the LDEQ RECAP SS were also present at the site.
- Highest soil and groundwater hydrocarbon concentrations were detected to the southeast of the former tank hold in monitor well MW-1.
- A sensitive receptor survey conducted at the site revealed no natural or manmade receptors, with the exception of underground utility corridors, in the vicinity of hydrocarbon impact.

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY i

1.0 INTRODUCTION 1
1.1 GENERAL 1
1.2 BACKGROUND 1
1.3 PURPOSE AND SCOPE 1

2.0 SITE CHARACTERISTICS 3
2.1 SITE AND SURROUNDING LAND USE DESCRIPTIONS 3
2.2 TOPOGRAPHY, GEOLOGY, AND HYDROGEOLOGY DISCUSSION 3
2.3 SENSITIVE RECEPTOR SURVEY 4

3.0 SOIL AND GROUNDWATER ENVIRONMENTAL ASSESSMENT 5
3.1 DRILLING AND SOIL SAMPLING 5
3.2 MONITOR WELL CONSTRUCTION AND DEVELOPMENT 6
3.3 GROUNDWATER LEVEL MEASUREMENTS AND POTENTIOMETRIC ELEVATIONS 7
3.4 MONITOR WELL SAMPLING AND ANALYSES 7
3.5 QA/QC SAMPLE ANALYSIS 8
3.6 SOIL AND GROUNDWATER ANALYTICAL RESULTS 8

4.0 SUMMARY OF FINDINGS 10
4.1 FINDINGS 10

LIST OF FIGURES
(Following Text)

FIGURE 1	SITE PLAN
FIGURE 2	SURROUNDING LAND USE MAP
FIGURE 3	WATER WELL MAP
FIGURE 4	GROUNDWATER POTENTIOMETRIC ELEVATIONS AND CONTOURS, APRIL 4, 2005
FIGURE 5	GROUNDWATER BENZENE, MTBE, TPH-GRO AND TPH-DRO CONCENTRATIONS AND BENZENE, MTBE, AND TPH-GRO ISOPLETHS, APRIL 4, 2005

LIST OF TABLES
(Following Text)

TABLE 1	SOIL SAMPLE ANALYTICAL LABORATORY DATA
TABLE 2	MONITOR WELL INSTALLATION DATA
TABLE 3	MONITOR WELL SAMPLING DATA
TABLE 4A	GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA
TABLE 4B	GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA

LIST OF EXHIBITS

EXHIBIT 1	SOIL BORING LOGS (MW-1 THROUGH MW-3) AND MONITOR WELL CROSS SECTIONS (MW-1 THROUGH MW-3)
EXHIBIT 2	MONITOR WELL SAMPLING RECORD

LIST OF APPENDICES

APPENDIX A	SENSITIVE RECEPTOR SURVEY
APPENDIX B	SOIL AND GROUNDWATER ANALYTICAL LABORATORY REPORTS

APPENDIX C LDOTD MONITOR WELL REGISTRATION FORMS

APPENDIX D LOUISIANA NOTIFICATION REQUIREMENTS FORM

1.0 INTRODUCTION

1.1 GENERAL

At the request of Exxon Mobil Corporation (ExxonMobil), Conestoga-Rovers & Associates (CRA) conducted a Divestment Initial Subsurface Investigation (DISI) at former Exxon Retail Store No. 5-0608 located at 4555 Essen Lane, Baton Rouge, East Baton Rouge Parish, Louisiana. The site is an inactive Exxon service station.

1.2 BACKGROUND

There have been no previous site assessments conducted at this site.

1.3 PURPOSE AND SCOPE

The purpose of the DISI was to determine if service station operations have adversely impacted subsurface media (soil and groundwater), and to collect the necessary data to evaluate the site utilizing the Louisiana Department of Environmental Quality's (LDEQ) Risk Evaluation/Corrective Action Program (RECAP), October 20, 2003, version if warranted.

In an effort to assess subsurface conditions and hydrocarbon impact, CRA's scope of work included the following:

- Installing three soil exploration borings (MW-1 through MW-3) to a maximum depth of 20 feet below ground surface (ft-bgs) using direct-push technology/split-spoon samplers/hollow-stem augers.
- Collecting representative soil samples continuously (2-foot intervals) for inspection and characterization of soil types and stratigraphy from the borings.
- Inspecting and classifying soil samples in the field and conducting headspace screening of the soil samples for petroleum hydrocarbon vapors using a portable photoionization detector (PID).
- Submitting a maximum of two soil samples from each of the borings to Test America, Inc. (TAI) for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE); total petroleum hydrocarbons-gasoline range organics (TPH-GRO); and TPH-diesel range organics (TPH-DRO).
- Completing the borings as 2-inch diameter monitor wells (MW-1 through MW-3) using schedule 40 PVC casing and 0.01-inch slotted screen. The monitor wells were

surface completed with concrete and flush-mounted protective covers to prevent tampering and vehicular damage.

- Developing, purging, and sampling groundwater from the newly-installed monitor wells (MW-1 through MW-3) for submittal to TAI for laboratory analyses of BTEX, MTBE, TPH-GRO, and TPH-DRO. Groundwater samples with TPH-DRO concentrations exceeding the RECAP SS of 0.15 mg/L were further analyzed for PAH.

- Surveying the newly-installed monitor well top-of-casing elevations in order to collect potentiometric groundwater elevation data. The vertical elevations of the ground surface and top-of-casing at each monitor well location are based on a project bench mark with an assigned elevation of 100.00 feet.

- Evaluating and compiling field observations and laboratory analytical data into a report documenting soil boring/monitor well installations, soil and groundwater sampling, and analytical data.

2.0 SITE CHARACTERISTICS

2.1 SITE AND SURROUNDING LAND USE DESCRIPTIONS

The site is an inactive self-service motor fuel retail facility located on the southeast corner of the intersection of Essen Lane and One Calais Avenue in Baton Rouge, Louisiana. The approximate 0.7-acre site consists of a station building, a car wash, and four dispenser islands covered by a canopy. The underground storage tanks (USTs) were removed in April 2005. A site plan depicting the layout of the facility, the former UST hold location, station building, and monitor well locations is included as figure 1.

Surrounding land use consists of predominantly commercial development along Essen Lane and One Calais Avenue. A surrounding land use map is included as figure 2.

2.2 TOPOGRAPHY, GEOLOGY, AND HYDROGEOLOGY DISCUSSION

Site Topography. The site is located on the Prairie Terrace, which is a Pleistocene alluvial and deltaic landform on the Gulf Coastal Plain. The site is elevated above the nearby flood-plain of the Mississippi River, to the southwest. The site is nearly flat, with elevations of approximately 20 feet above mean sea level (NGVD). Natural drainage is eastward to Ward Creek that flows through a canal to Bayou Manchac to the southeast.

Site Geology. Surface soils at the site typically are composed of clays and silty clays common to alluvial floodplain deposition. Underlying the site are up to 500 feet of Pleistocene alluvial and deltaic deposits predominantly composed of clays and silty clays with lenses of silts and sands. Sand units from the shallow Pleistocene thicken to the west toward the Mississippi River. Underlying, older Pleistocene deposits consist of thick, widespread fine to coarse sand and gravel layers, separated by laterally continuous clay horizons. Beneath the Pleistocene deposits are similar, older sedimentary deposits of Pliocene and Miocene age.

Groundwater Characteristics. The shallow Pleistocene deposits may contain locally significant water-bearing deposits, particularly where sand layers thicken to the west where they form the "University Aquifer" according to "Ground-Water conditions in the Baton Rouge Area, 1954-59", Water Resources Bulletin No. 2, by C.O. Morgan, (1961), and "Maps of the "400-foot," "600-foot," and Adjacent Aquifers and Confining Beds, Baton Rouge Area, Louisiana", Water Resources Technical Report No. 48, by E.K. Kuniansky, D.C. Dial, and D.A. Trudeau (1989). The shallow units in the site vicinity are not typically used for water supply because of limited availability and variable quality.

The uppermost aquifer of concern is the "400-foot" aquifer, which occurs in the uppermost, widespread Pleistocene deltaic sand, and is a possible source of groundwater for drinking and industrial use in the area, although deeper portions of this aquifer may contain brackish water. The "400-foot" aquifer sands typically occur within 750 feet of the ground surface and range from 100 to 200 feet in thickness. The "400-foot" aquifer is underlain by equivalents of the "600-foot" and deeper sands from the north Baton Rouge area. The lower aquifers typically contain brackish to saline groundwater in the site vicinity.

2.3 SENSITIVE RECEPTOR SURVEY

A survey of registered water wells within a one-mile radius of the site was conducted. The survey indicated eight water wells within the area. Of those, two are registered as monitor wells, two are registered as heat pump wells, one is registered as observation, one is registered as domestic, one is registered as industrial, and one is registered as other. A 7.5 minute quadrangle map showing the locations of the registered water wells within a one-mile radius of the site is included as figure 3.

Natural receptors include groundwater, soil, surface water bodies near the site, and air. The previous release has impacted soil and groundwater and there is a potential pathway to air due to the volatility of the released constituents. The nearest surface water is Ward Creek located approximately 560 feet south-southwest of the site. It is not likely that surface water would be impacted by groundwater migrating from the site due to the limited extent of the soil and groundwater impact and the low permeability of the soils. A sensitive receptor survey is attached as Appendix A.

3.0 SOIL AND GROUNDWATER ENVIRONMENTAL ASSESSMENT

3.1 DRILLING AND SOIL SAMPLING

On March 30 and 31, 2005, CRA installed three soil borings (MW-1 through MW-3) utilizing a mobile drill rig operated by CRA subcontractor Walker-Hill Environmental, Inc. (Walker-Hill) of Columbia, Mississippi. Each boring was cleared of subsurface obstructions utilizing an air knife and vacuum extraction to a total depth of eight feet below ground surface (ft-bgs). A hand operated split-spoon sampling device was used to collect samples from 0 to 8 ft-bgs. Each boring was then drilled to completion depth (maximum 20 ft-bgs) using a Mobile Drill vehicular mounted rig with 4.25 inch I.D. (8.25-inch O.D.) hollow stem augers. Prior to the initiation of each boring, the drilling and sampling equipment was thoroughly cleaned with hot, pressurized water and the decontamination water was drummed for subsequent disposal. All soil cuttings generated during the soil boring activities were stored in drums for subsequent disposal following analysis of a composite sample for the required disposal parameters.

Soil samples were collected at two-foot intervals from the surface to the completion depth of each boring using a direct push sampler. Detailed boring logs are presented in Exhibit 1. Depth to first-encountered groundwater is included on the boring logs. Immediately upon collection, soil samples were visually and manually inspected. Using new, clean, latex gloves, CRA personnel examined the samples for soil characteristics. No visible evidence of phase-separated hydrocarbons (PSH) was observed during the installation of the soil borings. A portion of each sample was sealed in a clean, glass jar and allowed to stabilize at ambient air temperature for approximately one hour. The headspace in each jar was then analyzed with a photoionization detector (PID) Photovac 2020. The results of the PID screening are also presented on the boring logs (Exhibit 1).

Immediately upon collection, a portion of each soil sample was placed in a clean laboratory supplied container and preserved on ice for possible analytical laboratory testing. A minimum of two soil samples were selected from each soil boring for laboratory analyses. Soil samples were selected for laboratory analyses based on the following considerations: 1) highest PID reading in the zero to fifteen foot depth range, 2) first-encountered groundwater, and 3) total depth of the borehole.

The soil sampling procedures and documentation were performed in compliance with CRA's standard sampling protocol which is based upon the U. S. Environmental Protection Agency's (EPA) Field Sampling and Analysis Technologies Matrix and Reference Guide, March 1998 and EPA Method 5035. The soil samples selected for

analyses remained on ice and were subsequently transported by Federal Express courier, following proper chain-of-custody procedures, to TAI. The soil samples collected from the soil borings were analyzed in accordance with Test Methods for Evaluating Solid Waste, SW-846, Third Edition, December 1996 for BTEX and MTBE by EPA Method 8260B and TPH-GRO and TPH-DRO by EPA Method 8015B. Soil sample analytical laboratory results are summarized in Table 1. The soil sample analytical laboratory report and chain-of-custody document are included in Appendix B.

3.2 MONITOR WELL CONSTRUCTION AND DEVELOPMENT

Soil borings MW-1 through MW-3 were completed as two-inch diameter groundwater monitor wells. The monitor wells were constructed with Schedule 40 PVC threaded casing and well screen (0.01-inch slot size). Table 2 contains well installation information regarding well depths and screened intervals. Installation details and cross-sections of the wells are shown on the monitor well cross-section detail forms presented in Exhibit 1. Construction of each well included the placement of a sand filter pack around the well screen, a hydrated bentonite seal above the filter pack, and a cement/bentonite mixture to the ground surface. A flush mounted protective cover was installed around each well to prevent damage from site activities. Each well was secured with a locking watertight cap and padlock to deter tampering and introduction of surface water runoff into the well. Copies of the monitor well registration forms dated April 14, 2005, were submitted to the Louisiana Department of Transportation and Development (LDOTD) are included in Appendix C.

The vertical and horizontal positions of the monitor wells were established by CRA personnel. The vertical elevations of the ground surface and top-of-casing at each monitor well location are based on a project bench mark with an assigned elevation of 100.00 feet. The project bench mark is identified as a manhole located near the east facility entrance of the facility from One Calais Avenue.

On April 4, 2005, CRA personnel developed monitor wells MW-1 through MW-3 with the use of a two-inch PVC surge block and purged the monitor wells with PVC bailers until a relatively clear discharge was obtained or the wells bailed dry. Monitor well development water was drummed for subsequent disposal.

3.3 GROUNDWATER LEVEL MEASUREMENTS AND POTENTIOMETRIC ELEVATIONS

CRA personnel visited the site on April 4, 2005, to measure groundwater/PSH levels in monitor wells MW-1 through MW-3. Measurements were taken using an electronic PSH/water interface probe. The depth to groundwater below the top-of-casing in each well was measured and recorded to a precision of ±0.01 feet. No PSH was detected in any of the monitor wells during this sampling event. Groundwater level measurements and calculated groundwater potentiometric elevations for the monitoring/sampling event are presented on the Monitor Well Sampling Record form included as Exhibit 2. Groundwater potentiometric elevation data is presented in Table 3, along with monitor well sampling data.

Groundwater elevations from data collected on April 4, 2005, are presented on figure 4. Measurement data indicates prevailing groundwater to be approximately 0.8 ft below the top-of-casing (MW-2) to 2.8 ft below the top-of-casing (MW-3). Groundwater flow direction is predominantly to the southwest.

3.4 MONITOR WELL SAMPLING AND ANALYSES

Monitor wells MW-1 through MW-3 were purged and sampled on April 4, 2005. Purged groundwater was drummed for subsequent disposal. The groundwater sampling procedures and documentation were performed in compliance with CRA's standard sampling protocol, which is based upon the EPA's RCRA Ground-Water Monitoring Technical Enforcement Guidance Document, September 1986. The samples were collected using new, clean, PVC bailers, placed in laboratory supplied containers, stored on ice, and subsequently transported by Federal Express courier, following proper chain-of-custody procedures, to TAI. A portion of each groundwater sample was analyzed in the field for temperature, specific conductance, and pH. Record of the sampling event is included on the Monitor Well Sampling Record form included as Exhibit 2.

Groundwater samples were analyzed for BTEX/MTBE, TPH-GRO, and TPH-DRO by the aforementioned methods. In addition, monitor wells was further analyzed for polycyclic aromatic hydrocarbons (PAH) by EPA Method 8310. Analytical laboratory results for the April 4, 2005, sampling event is summarized in Tables 4A and 4B. The groundwater sample analytical laboratory reports and chain-of-custody forms are included as Appendix B. Included in the laboratory reports are laboratory methods used and quality assurance/quality control data.

3.5 QA/QC SAMPLE ANALYSIS

In accordance with RECAP, QA/QC samples were collected and analyzed for the appropriate parameters based on soil and groundwater sample analysis requested. For soil and groundwater samples, QA/QC blanks included: one equipment rinsate sample per 20 field samples (for each sampling device); one field blank per day; and one trip blank per sample cooler containing BTEX/MTBE samples. In addition, for groundwater samples, one field replicate sample was collected per 20 field samples. All field blank sample results were below analytical reporting limits. The replicate sample result indicated constituent concentrations similar to monitor well MW-1.

3.6 SOIL AND GROUNDWATER ANALYTICAL RESULTS

Analytical results for soil samples collected from the soil borings indicated one constituent with concentrations above RECAP Screening Option (SO) Screening Standards (SS) (see Table 1). Soil boring interval MW-1 (18'-20') exceeded the MTBE RECAP SS of 0.077 milligrams per kilogram (mg/kg) with a concentration of **0.149 mg/kg**.

Analytical results for groundwater samples collected from the monitor wells indicated six constituents with concentrations above RECAP SS (see Tables 4A and 4B). Monitor well MW-1 exceeded the benzene RECAP SS of 0.005 milligrams per liter (mg/L), naphthalene RECAP SS of 0.01 mg/L, and the 2-methylnaphthalene RECAP SS of 0.00062 mg/L with concentrations of **0.159 mg/L**, **0.4 mg/L**, and **0.398 mg/L**, respectively. Monitor wells MW-1 and MW-2 exceeded the MTBE RECAP SS of 0.02 mg/L with concentrations of **0.199 mg/L** and **0.0269 mg/L**, respectively. Monitor wells MW-1 and MW-2 exceeded the TPH-GRO RECAP SS of 0.15 mg/L with concentrations of **19.3 mg/L** and **0.797 mg/L**, respectively. Monitor wells MW-1 through MW-3 exceeded the TPH-DRO RECAP SS of 0.15 mg/L with concentrations of **6.44 mg/L**, **0.634 mg/L**, and **0.222 mg/L**, respectively. Groundwater benzene, MTBE, TPH-GRO, and TPH-DRO concentrations and benzene, MTBE, and TPH-GRO isopleths are shown on figure 5.

On April 21, 2005, CRA filed an Unauthorized Discharge Notification with the LDEQ/Single Point of Contact (SPOC) via online incident reporting web page (confirmation # LTPX 2156) to provide notification of investigation results within 24-hours of the receipt of signed laboratory reports. Written notification was submitted on April 28, 2005, within seven calendar days of online notification as required by the LDEQ Notification Requirements for Unauthorized Discharge (LAC 33, Part I, Chapter

39). A copy of the online confirmation and written notification form is included as Appendix D.

4.0 SUMMARY OF FINDINGS

4.1 FINDINGS

Based on the scope of work performed, CRA presents the following findings:

- The site is an inactive Exxon retail store located in a developed area of predominantly commercial properties.
- Three soil exploration borings (MW-1 through MW-3) were installed to a maximum depth of 20 feet. Soil and groundwater samples from the soil borings and/or monitor wells were analyzed for BTEX, MTBE, TPH-GRO, and TPH-DRO.
- Groundwater samples collected from the newly installed monitor wells (MW-1 through MW-3) were analyzed for BTEX, MTBE, TPH-GRO, TPH-DRO, and PAH.
- Analytical results indicated elevated hydrocarbon concentrations in groundwater in all monitor wells. The highest hydrocarbon concentrations were observed in monitor well MW-1.
- No off-site source of hydrocarbon impact was identified.
- A sensitive receptor survey conducted at the site revealed no natural or manmade receptors, with the exception of underground utility corridors, in the vicinity of hydrocarbon impact.

Should you have any questions regarding this submittal, please contact CRA.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Seth P. Domangue

Seth P. Domangue

for Thomas E. Powers, PG

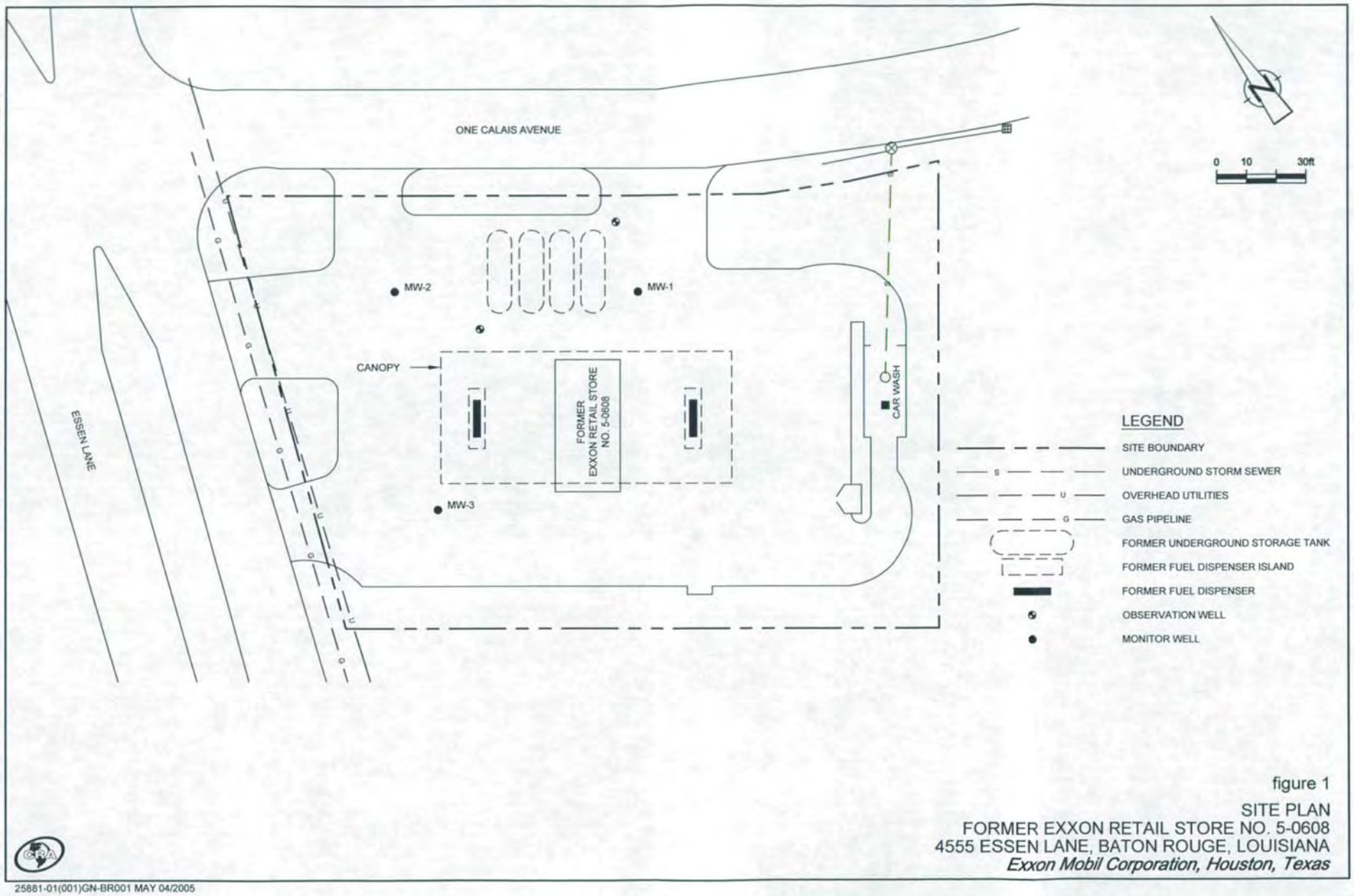


figure 1

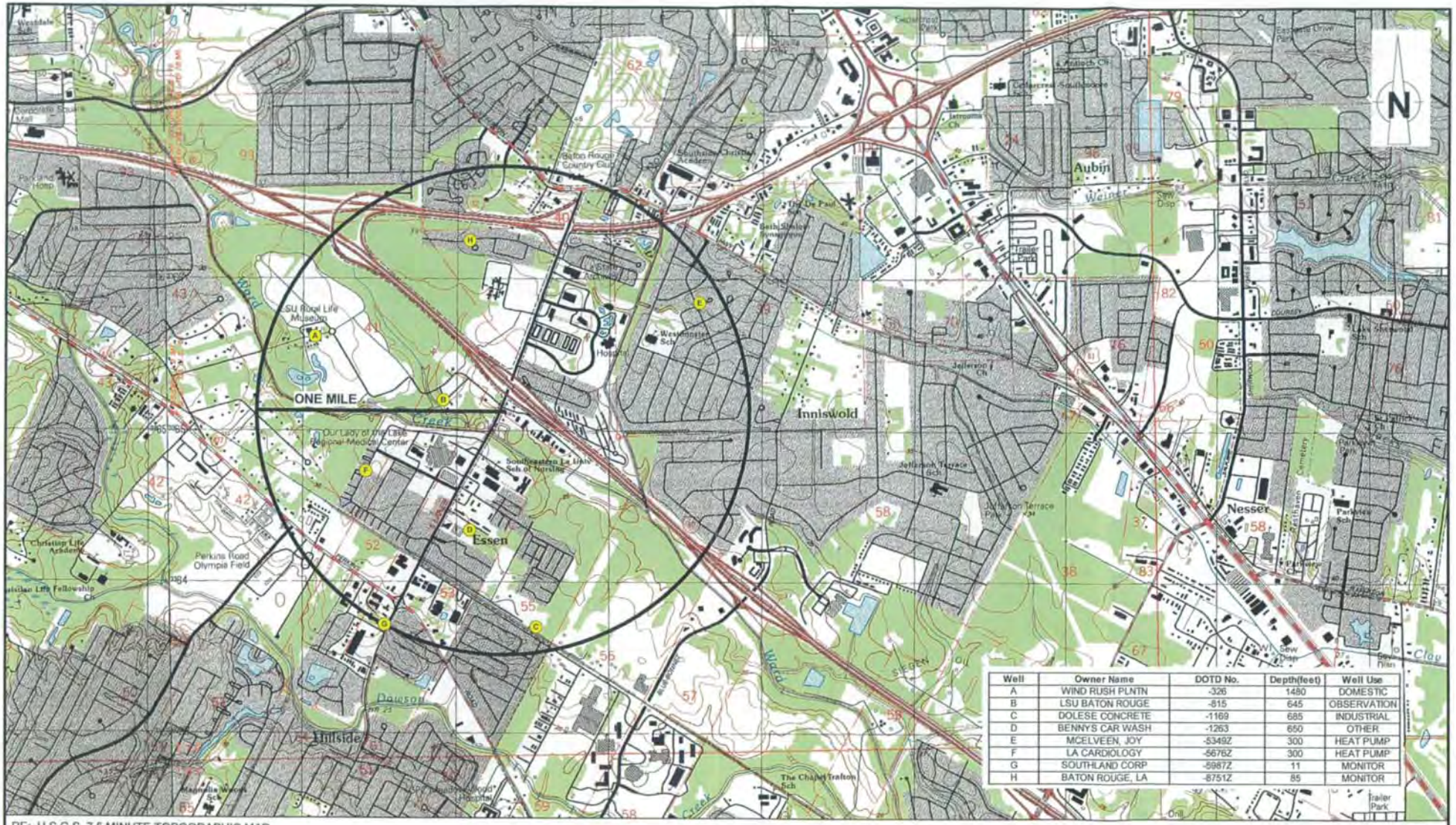
SITE PLAN
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE, BATON ROUGE, LOUISIANA
Exxon Mobil Corporation, Houston, Texas

25881-01(001)GN-BR001 MAY 04/2005

figure 2

SURROUNDING LAND USE MAP
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE, BATON ROUGE, LOUISIANA
Exxon Mobil Corporation, Houston, Texas

25881-01(002)GN-BR002 MAY 10/2005



Well	Owner Name	DOTD No.	Depth(feet)	Well Use
A	WIND RUSH PLNTN	-326	1480	DOMESTIC
B	LSU BATON ROUGE	-815	645	OBSERVATION
C	DOLESE CONCRETE	-1169	685	INDUSTRIAL
D	BENNYS CAR WASH	-1263	650	OTHER
E	MCELVEEN, JOY	-5349Z	300	HEAT PUMP
F	LA CARDIOLOGY	-5676Z	300	HEAT PUMP
G	SOUTHLAND CORP	-5987Z	11	MONITOR
H	BATON ROUGE, LA	-8751Z	85	MONITOR

RE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC MAP, "BATON ROUGE EAST, LOUISIANA," DATED 1992 AND "BATON ROUGE WEST, LOUISIANA," DATED 1992.

LEGEND

WATER WELL LOCATION

0 1,000 2,000 Feet

figure 3

WATER WELL MAP

FORMER EXXON RETAIL STORE NO. 5-0608

4555 ESSEN LANE, BATON ROUGE, LOUISIANA

Exxon Mobil Corporation, Houston, Texas

25881-01(002)PR-BR001 MAY 4/2005

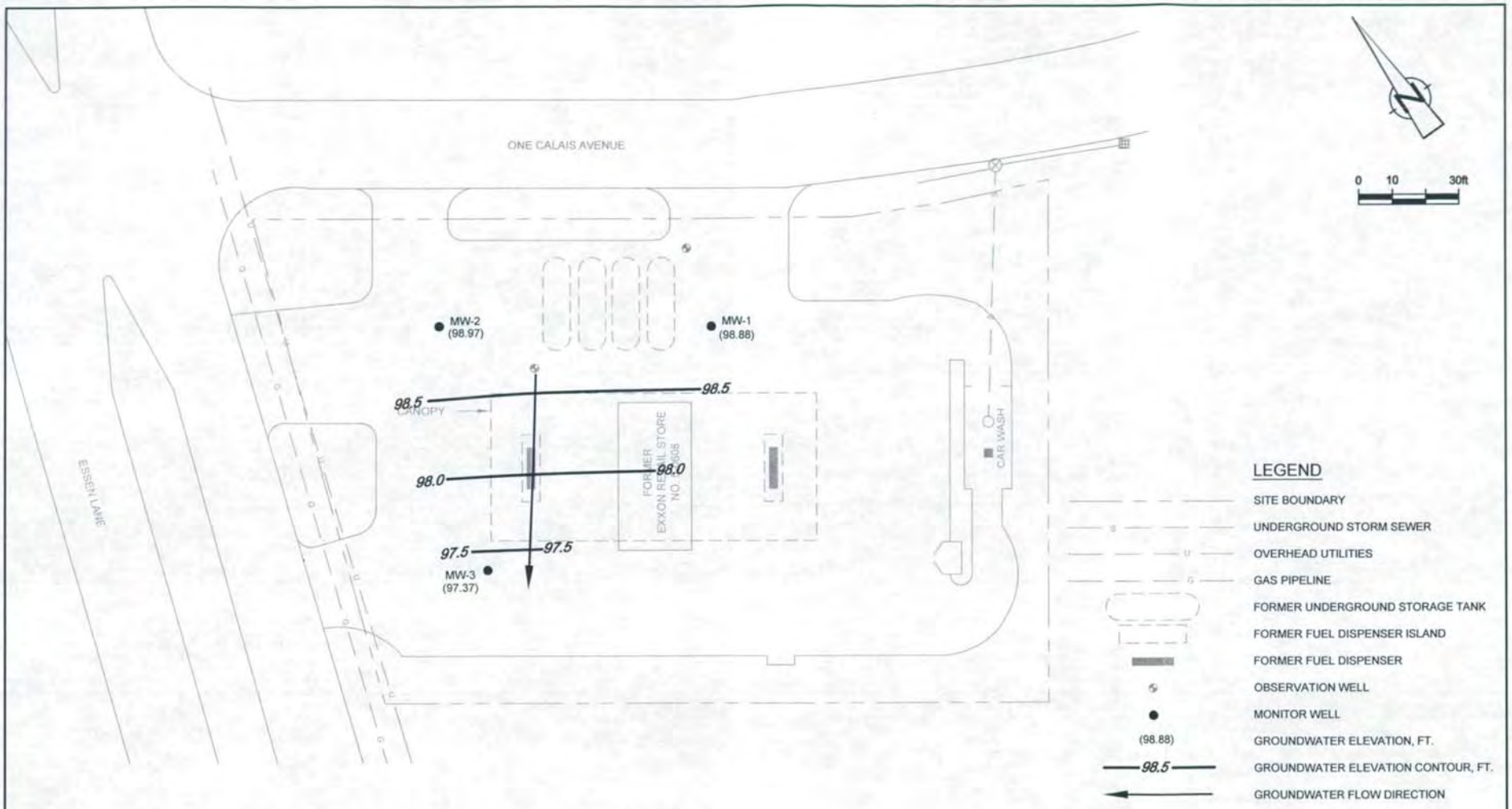
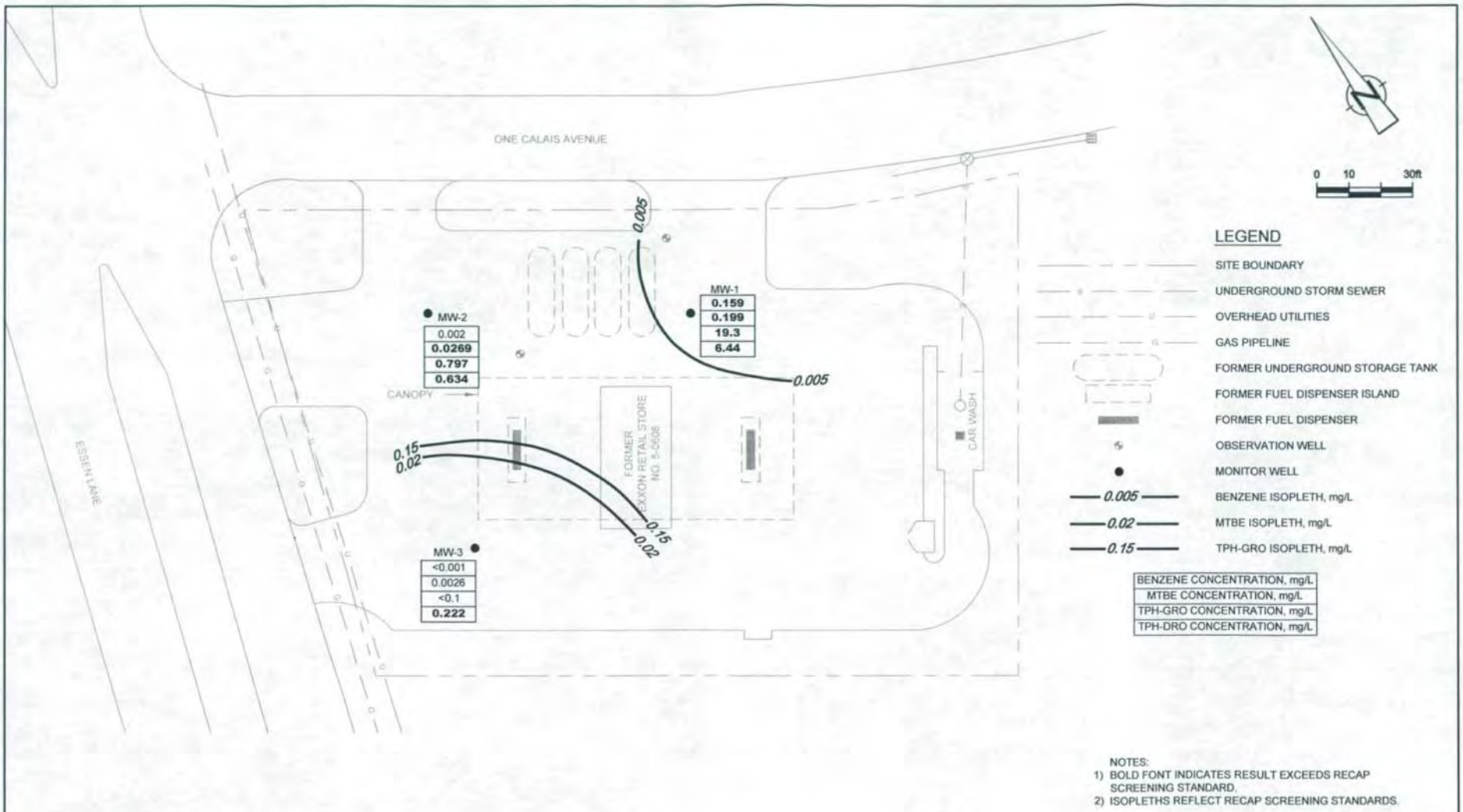


figure 4

GROUNDWATER POTENTIOMETRIC ELEVATIONS AND CONTOURS, APRIL 4, 2005
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE, BATON ROUGE, LOUISIANA
Exxon Mobil Corporation, Houston, Texas

25881-01(002)GN-BR004 MAY 10/2005



NOTES:
1) BOLD FONT INDICATES RESULT EXCEEDS RECAP SCREENING STANDARD.
2) ISOPLETHS REFLECT RECAP SCREENING STANDARDS.

figure 5

GROUNDWATER BENZENE, MTBE, TPH-GRO, AND TPH-DRO CONCENTRATIONS AND BENZENE, MTBE, AND TPH-GRO ISOPLETHS, APRIL 4, 2005
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE, BATON ROUGE, LOUISIANA
Exxon Mobil Corporation, Houston, Texas

25881-01(002)GN-BR005 MAY 10/2005

TABLE 1

SOIL SAMPLE ANALYTICAL LABORATORY DATA
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE
BATON ROUGE, LOUISIANA
AGENCY INTEREST NUMBER: 13366

Boring (depth, ft.)	Sample Date	Parameter						
		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
		0.051*	20*	19*	120*	0.077*	65*	65*
MW-1 (0' - 2')	03/30/05	<0.0019	0.0025	<0.0019	<0.0019	0.0153	<9.92	<9.84
MW-1 (18' - 20')	03/30/05	0.0068	0.007	0.0416	0.245	**0.149**	<10.5	<10.2
MW-2 (0' - 2')	03/30/05	<0.0021	0.0037	<0.0021	<0.0021	<0.0021	<10.8	<9.88
MW-2 (10' - 12')	03/31/05	<0.002	<0.002	<0.002	<0.002	0.0038	<9.9	<10
MW-3 (0' - 2')	03/30/05	<0.002	0.0033	<0.002	<0.002	<0.002	<10.3	<10
MW-3 (4' - 6')	03/30/05	<0.0021	0.0029	<0.0021	<0.0021	<0.0021	<9.96	<10.1
MW-3 (10' - 12')	03/31/05	<0.0018	0.0019	<0.0018	<0.0018	<0.0018	<9.33	<10.1

mg/kg = Milligrams per kilogram, which is equivalent to parts per million (ppm).
MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics
* Screening Standards specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
Bold font with shading indicates result exceeds RECAP Screening Standard.

TABLE 2

MONITOR WELL INSTALLATION DATA
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE
BATON ROUGE, LOUISIANA
AGENCY INTEREST NUMBER: 13366

Well I.D.	*Date of Installation*	*Well Depth*	*Ground Surface Elevation*	*Top-of-Casing Elevation*	*Groundwater Elevation at Development*	*Screen Interval Elevation*	*Latitude*	*Longitude*
MW-1	03/30/05	20.0	100.06	99.80	98.88	98.36 to 81.36	N30°24'22"	W91°06'08"
MW-2	03/31/05	12.0	100.12	99.80	98.97	98.42 to 88.42	N30°24'22"	W91°06'08"
MW-3	03/31/05	12.2	99.89	100.18	97.38	98.57 to 88.57	N30°24'22"	W91°06'08"

Notes:

(1) Elevations are relative to a project bench mark with an essigned elevation of 100.00 ft.

(2) All dimensions are in feet.

(3) All wells constructed of 2-inch diameter, Schedule 40 PVC casing and screen.

(4) All wells were developed with the use of a PVC surge block.

TABLE 3

MONITOR WELL SAMPLING DATA
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE
BATON ROUGE, LOUISIANA
AGENCY INTEREST NUMBER: 13366

MONITOR WELL ID NUMBER	*MW-1*	*MW-2*	*MW-3*
DOTD ID NUMBER	N/A	N/A	N/A
DATE SAMPLED	04/04/05	04/04/05	04/04/05
TOP OF CASING ELEVATION (ft)[1]	99.80	99.80	100.18
STATIC WATER LEVEL (ft below TOC)	0.92	0.83	2.80
TOTAL DEPTH (ft below TOC)	18.50	11.60	12.20
STATIC WATER ELEVATION (ft)	98.88	98.97	97.38
FREE PRODUCT THICKNESS (ft)	None	None	None
FREE PRODUCT ELEVATION (ft)	N/A	N/A	N/A
PURGE METHOD	PVC Bailer	PVC Bailer	PVC Bailer
ACTUAL PURGE VOLUME (Gal)	10.0	5.0*	8.0
SAMPLING METHOD	Grab	Grab	Grab
EQUIPMENT USED	PVC Bailer	PVC Bailer	PVC Bailer
PRODUCT RECOVERED (Gal)	None	None	None

*Well purged dry

N/A = Not Available; Not Applicable

Note: [1]Top-of-Casing elevations referenced to an on-site bench mark with an assigned elevation of 100.00'.

TABLE 4A

GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE
BATON ROUGE, LOUISIANA
AGENCY INTEREST NUMBER: 13366

Monitor Well	Sample Date	Parameter						
		Benzene (mg/L)	*Toluene (mg/L)*	*Ethylbenzene (mg/L)*	*Xylenes (mg/L)*	*MTBE (mg/L)*	*TPH-GRO (mg/L)*	*TPH-DRO (mg/L)*
		*0.005**	*1.0**	*0.7**	*10**	*0.02**	*0.15**	*0.15**
MW-1	04/04/05	**0.159**	0.0875	0.586	1.95	**0.199**	**19.3**	**6.44**
MW-2	04/04/05	0.002	<0.001	<0.001	<0.001	**0.0269**	**0.797**	**0.634**
MW-3	04/04/05	<0.001	<0.001	<0.001	<0.001	0.0026	<0.1	**0.222**

mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
MTBE = methyl tertiary butyl ether
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics
* Screening Standards specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.
Bold font with shading indicates result exceeds RECAP Screening Standards.

TABLE 4B

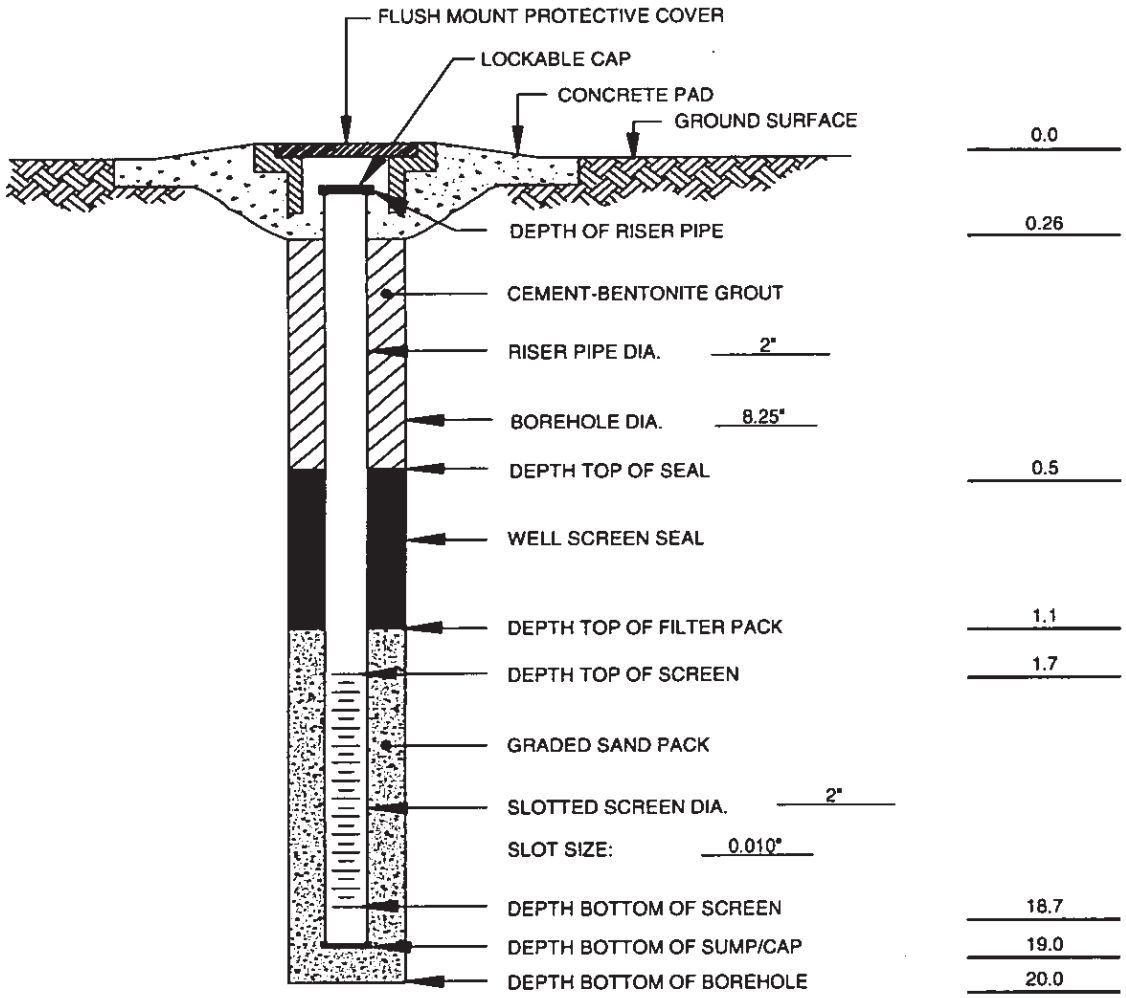
GROUNDWATER SAMPLE ANALYTICAL LABORATORY DATA
FORMER EXXON RETAIL STORE NO. 5-0608
4555 ESSEN LANE
BATON ROUGE, LOUISIANA
AGENCY INTEREST NUMBER: 13366

		Parameter															
Sample Location	*Sample Date*	*Acenaphthene (mg/L)*	*Anthracene (mg/L)*	*Benzo(a)anthracene (mg/L)*	*Benzo(b)fluoranthene (mg/L)*	*Benzo(k)fluoranthene (mg/L)*	*Benzo(a)pyrene (mg/L)*	*Chrysene (mg/L)*	*Dibenzo(a,h)anthracene (mg/L)*	*Fluoranthene (mg/L)*	*Fluorene (mg/L)*	*Indeno(1,2,3-cd)pyrene (mg/L)*	*Naphthalene (mg/L)*	*Pyrene (mg/L)*	*Acenaphthylene (mg/L)*	*2-Methylnaphthalene (mg/L)*	*Phenanthrene (mg/L)*
		0.037*	***0.043****	***0.0078****	***0.0048****	***0.0025****	***0.0002****	***0.0016****	***0.0025****	***0.15****	***0.024****	***0.0037****	***0.01****	***0.018****	***0.1****	***0.00062****	***0.18****
MW-1	04/04/05	<0.001	0.00739	<0.0001	<0.0001	<0.00014	<0.0001	<0.0001	<0.0002	0.00053	<0.0005	<0.0002	**0.4**	0.00236	<0.001	**0.398**	<0.0005
MW-2	04/04/05	<0.002	<0.001	<0.0002	<0.0002	<0.00028	<0.0002	<0.0002	<0.0004	<0.0004	<0.001	<0.0004	<0.002	<0.0004	<0.002	<0.002	<0.001
MW-3	04/04/05	<0.001	<0.0005	<0.0001	<0.0001	<0.00014	<0.0001	<0.0001	<0.0002	<0.0002	<0.0005	<0.0002	<0.001	<0.0002	<0.001	<0.001	<0.0005

NA = Not Analyzed
mg/L = Milligrams per liter, which is equivalent to parts per million (ppm).
Notes: (1) Insufficient groundwater accumulation for sample collection.
* Screening Standards specified in the LDEQ's October 20, 2003, RECAP Table 1-Screening Options, Screening Standards for Soil and Groundwater.
Bold font with shading indicates result exceeds RECAP Screening Standard.

EXHIBIT 1

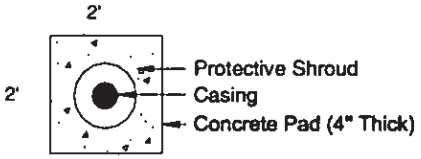
SOIL BORING LOGS (MW-1 THROUGH MW-3)
AND
MONITOR WELL CROSS-SECTION DETAIL FORMS (MW-1 THROUGH MW-3)



ELEV. TOP OF RISER	99.80
ELEV. GROUND SURFACE	100.06
SCREENED INTERVAL	98.36 to 81.36
DATE INSTALLED	03/30/05

Construction Notes:

Well Casing:	2" DIA. SCH. 40 PVC
Shroud:	FLUSH MOUNT
Filter Pack:	10-50 LB. BAGS OF 20/40 SILICA SAND
Bentonite Seal:	0.5 - 50 LB. BAG OF BENTONITE CHIPS
Time/Date Placed:	1600 - 03/30/05
Grout:	N/A
Unit Weight:	N/A
Time/Date Placed:	N/A



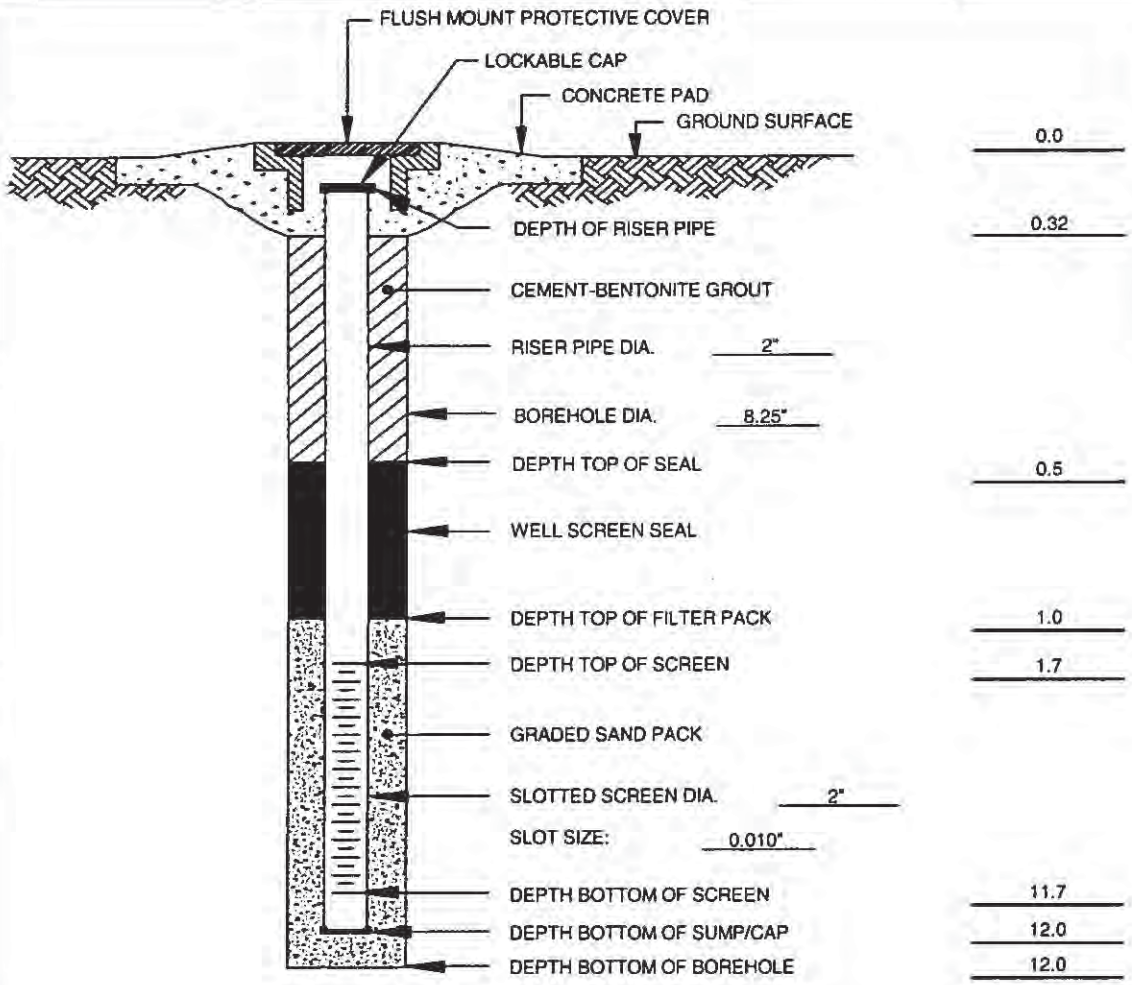
PLAN VIEW

SECTION VIEW

NOTE: All section dimensions are in feet (unless otherwise noted).

CONESTOGA-ROVERS & ASSOCIATES

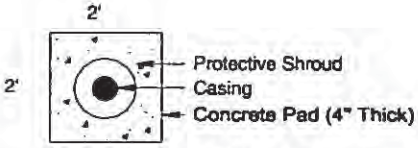
04/08/05 DATE	1 REV. NO.	25881-01 FILE NO	Exxon Mobil Corporation Houston, Texas CLIENT	Former Exxon Retail Store No. 5-0608 4555 Essen Lane Baton Rouge, Louisiana PROJECT LOCATION	Monitor Well Cross-Section MW-1 25881-01 (2)	1 EXHIBIT
SPD DRAWN BY	SPD CHECKED BY.	TBP APPROVED BY.				



ELEV. TOP OF RISER	99.80
ELEV. GROUND SURFACE	100.12
SCREENED INTERVAL	98.42 to 88.42
DATE INSTALLED	03/31/05

Construction Notes:

Well Casing:	2" DIA. SCH. 40 PVC
Shroud:	FLUSH MOUNT
Filter Pack:	8-50 LB. BAGS OF 20/40 SILICA SAND
Bentonite Seal:	0.5 - 50 LB. BAG OF BENTONITE CHIPS
Time/Date Placed:	0900- 03/31/05
Grout:	N/A
Unit Weight:	N/A
Time/Date Placed:	N/A



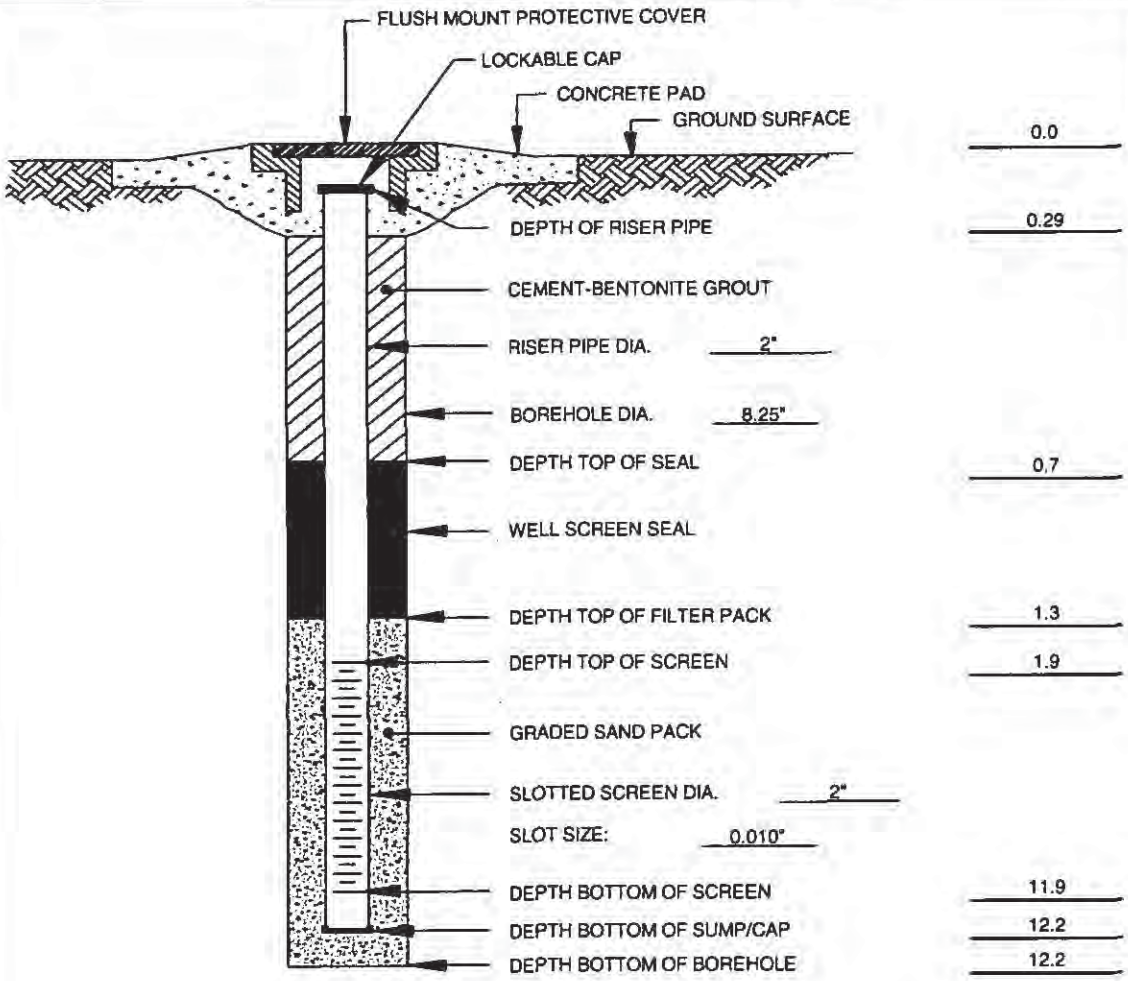
PLAN VIEW

SECTION VIEW

NOTE: All section dimensions are in feet (unless otherwise noted).

CONESTOGA-ROVERS & ASSOCIATES

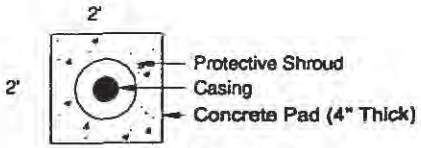
04/06/05 DATE	1 REV. NO.	25881-01 FILE NO.	Exxon Mobil Corporation Houston, Texas CLIENT	Former Exxon Retail Store No. 5-0608 4555 Essen Lane Baton Rouge, Louisiana PROJECT LOCATION	Monitor Well Cross-Section MW-2 25881-01 (2)	1 EXHIBIT
SPD DRAWN BY	SPD CHECKED BY	TBP APPROVED BY				



ELEV. TOP OF RISER	100.18
ELEV. GROUND SURFACE	99.89
SCREENED INTERVAL	98.57 to 88.57
DATE INSTALLED	03/31/05

Construction Notes:

Well Casing:	2" DIA. SCH. 40 PVC
Shroud:	FLUSH MOUNT
Filter Pack:	8-50 LB. BAGS OF 20/40 SILICA SAND
Bentonite Seal:	0.5 - 50 LB. BAG OF BENTONITE CHIPS
Time/Date Placed:	0940 - 03/31/05
Grout:	N/A
Unit Weight:	N/A
Time/Date Placed:	N/A



PLAN VIEW

SECTION VIEW

NOTE: All section dimensions are in feet (unless otherwise noted).

CONESTOGA-ROVERS & ASSOCIATES

04/06/05 DATE	1 REV. NO.	25881-01 FILE NO.	Exxon Mobil Corporation Houston, Texas CLIENT	Former Exxon Retail Store No. 5-0608 4555 Essen Lane Baton Rouge, Louisiana PROJECT LOCATION	Monitor Well Cross-Section MW-3 25881-01 (2)	1 EXHIBIT
SPD DRAWN BY	SPD CHECKED BY	TBP APPROVED BY				

EXHIBIT 2

MONITOR WELL SAMPLING RECORD

MONITOR WELL SAMPLING RECORD

CLIENT: Exxon Mobil Corporation PROJECT: Divestment Initial Subsurface Investigation
SITE LOCATION: Former Exxon Retail Store No. 5-0608,4555 Essen Lane, Baton Rouge, Louisiana
CRA FILE NO.: 25881-01 (2) SPECIALIST: TD

WELL NUMBER	MW-1	MW-2	MW-3		
SAMPLE NUMBER	MW-1	MW-2	MW-3		
GENERAL WELL DATA					
Top of Casing (TOC) Elevation (ft.NGVD)	99.80	99.80	100.18		
Original Total Depth (ft below TOC)	18.5	11.6	12.2		
TOC Height (ft above/below grade)	-0.26	-0.32	-0.29		
Screened Interval (ft below grade)	1.7 - 18.7	1.7 - 11.7	1.9 - 11.9		
Well Diameter (in)/Material	2" PVC	2" PVC	2" PVC		
Current Well Condition	Good	Good	Good		
WATER LEVEL DATA					
Date (mo/day/yr)	04/04/05	04/04/05	04/04/05		
Time (military)	0940	0942	0945		
Measured Total Depth (ft below TOC)	18.50	11.60	12.20		
Static Water Level (ft below TOC)	0.92	0.83	2.80		
Static Water Elevation (ft.NGVD)	98.88	98.97	97.38		
WELL PURGE DATA					
Purge Date (mo/day/yr)	04/04/05	04/04/05	04/04/05		
Purge Time (military)	0950	1000	1010		
Minimum Purge Volume (Gal)	4.5	5.2	4.5		
Actual Purge Volume (Gal)	10.0	5.0*	8.0		
Equipment Used	PVC Bailer	PVC Bailer	PVC Bailer		
WELL SAMPLING DATA					
Sampling Date (mo/day/yr)	04/04/05	04/04/05	04/04/05		
Sampling Time (military)	1100	1130	1115		
Weather Condition	Clear/Mild	Clear/Mild	Clear/Mild		
Equipment Used	Polyethylene Bailer	Polyethylene Bailer	Polyethylene Bailer		
Groundwater Temperature (°C)	22	22	22		
Specific Conductance (µS/cm)	560	440	985		
Groundwater pH (std units)	6.9	7.5	6.9		
Number of Containers Filled	9	9	9		
Parameters to be Analyzed (p) if preserved (f) if filtered	BTEX/MTBE (p) TPH-GRO (p) TPH-DRO (p) PAH	BTEX/MTBE (p) TPH-GRO (p) TPH-DRO (p) PAH	BTEX/MTBE (p) TPH-GRO (p) TPH-DRO (p) PAH		

I certify that all water level measurement devices, purging equipment, and sampling equipment were properly cleaned prior to use in each well. (Signature) FIELD COPY SIGNED

REMARKS:
*Well purged dry.
Equipment blank (WE-1) and Field blank (WF-1) collected.
Replicate sample (WR-1), same data as MW-1.
Trip Blank provided by laboratory.

Conestoga-Rovers & Associates

APPENDIX A

SENSITIVE RECEPTOR SURVEY

Sensitive Receptor Survey (SRS)

1. Site Location and Identifying Number:

Global Remediation Site Name / Facility Number **5-0608**

Street **4555 Essen Lane**

City **Baton Rouge**

State **Louisiana**

2. Regional Data

a. Is Groundwater in Region Used for Drinking Water? *Select Yes or No*

Yes ☒ No ☐

b. Is Groundwater in Region Used for Irrigation?

Yes ☒ No ☐

c. If Yes to "a" or "b", Estimated Depth to "Used" Regional Aquifer

<20ft (<6m) ☐ 20-100ft (6-30m) ☐ 100-300ft (30 - 90m) ☐ >300ft (>90m) ☒ Unknown ☐

d. Estimated Depth to First Groundwater

<20ft (<6m) ☒ 20-100ft (6-30m) ☐ 100-300ft (30 - 90m) ☐ >300ft (>90m) ☐ Unknown ☐

e. Is Surface Water in Region Used for Drinking Water

Yes ☐ No ☒

f. If Yes to "e", Distance to Surface Water Source: Mississippi River

_ m

g. Is Construction in the Region "Slab on Grade" or Are Basements Common?

Slab on Grade ☒ Basements ☐

h. Direction of groundwater flow (if known):

N ☐ N/E ☐ E ☐ S/E ☐ S ☐ S/W ☒ W ☐ N/W ☐

If a and b are no and d is less than 20ft (6m) or unknown, then complete Step 5-9.

If a and b are no and d is greater than 20ft (6m), then complete Step 5, only.

If a or b are yes and d is less than 20ft (6m). or unknown then complete Steps 3-9.

If a or b are yes and d is greater than 20 ft. then complete Steps 3-5.

3. Municipal Water Wells

[Use local records and drive the area to identify well locations]

a. Is A Municipal Water Well Located Within 2000ft (600m) of the Site

Yes ☐ No ☒

b. If Yes, Number Of Wells Within 2000ft (600m). _____

Complete the following for each Municipal Well within 2000ft (600m) of the site:

c. Well Identification: _____

d ☐ Active ☐ Inactive

e. Distance from Site:

<100ft (30m) ☐: 100 to 500ft (30 to 150m) ☐: 500 to 1,000ft (150 to 300m) ☐

1,000 to 2,000ft (300 to 600m) ☐: >2,000ft (600m) ☐

f. Direction from Site:

N ☐	N/E ☐	E ☐	S/E ☐	S ☐	S/W ☐	W ☐	N/W ☐

g. Topographically Downgradient

Yes ☐	No ☐	Unknown ☐

h. Screened Depth of Well:

Depth _____ ft or m (Select Units). _____ Unknown

i. Is Well Screened Below a Confining Layer?

Yes ☐	No ☐	Unknown ☐

j. Current Wellhead Treatment:

Yes ☐	No ☐	Unknown ☐

k. Data Presented in **a - h** Verified

Yes ☐	No ☐

(If no, describe data that needs to be verified)

4. Private Water Wells (other than monitoring / observation wells)

[Use local records and drive the area to identify well locations]

ONSITE

a. Are any Water Wells Located on the Site?

Yes ☐	No ☒

b. Number of Wells Located Onsite:

Answer the following for each onsite well.

c. Well Identification/Location:

d. Describe Use:

Potable ☐	Irrigation ☐	Other ☐

If Other, specify use

OFFSITE

e. Are any Offsite Water Wells Located Within 1000ft (300m)?

Yes ☐ No ☒

f. If Yes, Estimated Number of Water Wells Within 1000ft (300m)?

g. If Water Wells Are Present, Are Any Potable?

Yes ☐ No ☐ Unknown ☐

(If no, describe use:)

Complete the following information for the three (3) closest wells. If the three are not potable, also complete for the closest potable well.

h. Well Identification: -326

i. Well Use:

Potable ☒ Irrigation ☐ Other ☐

j. Distance from Site to Well

<100ft (30m) ☐: 100 to 500ft (30 to 150m) ☐: 500 to 1,000ft (150 to 300m) ☐
1,000 to 2,000ft (300 to 600m) ☐: >2,000ft (600m) ☒

k. Direction from Site to Well:

N ☐ N/E ☐ E ☐ S/E ☐ S ☐ S/W ☐ W ☐ N/W ☒

l. Topographically Down Gradient?

Yes ☐ No ☒ Unknown ☐

m. Screened Depth of Well:

Depth _____ft or m (Select Units) Unknown ☒

n. Is the Well Being Used?

Yes ☐ No ☐ Unknown ☒

h. Well Identification: -815

i. Well Use:

Potable ☐ Irrigation ☐ Other ☒

j. Distance from Site to Well

<100ft (30m) ☐: 100 to 500ft (30 to 150m) ☐: 500 to 1,000ft (150 to 300m) ☐
1,000 to 2,000ft (300 to 600m) ☐: >2,000ft (600m) ☒

k. Direction from Site to Well:

N ☐ N/E ☒ E ☐ S/E ☐ S ☐ S/W ☐ W ☐ N/W ☐

l. Topographically Down Gradient?

Yes ☐ No ☒ Unknown ☐

m. Screened Depth of Well:

Depth _____ft or m (Select Units) Unknown ☒

n. Is the Well Being Used?

Yes ☐ No ☐ Unknown ☒

h. Well Identification: -1169

i. Well Use:

Potable ☐ Irrigation ☐ Other ☒

j. Distance from Site to Well

<100ft (30m) ☐: 100 to 500ft (30 to 150m) ☐: 500 to 1,000ft (150 to 300m) ☐
1,000 to 2,000ft (300 to 600m) ☐: >2,000ft (600m) ☒

k. Direction from Site to Well:

N ☐ N/E ☐ E ☐ S/E ☐ S ☒ S/W ☐ W ☐ N/W ☐

l. Topographically Down Gradient?

Yes ☐ No ☒ Unknown ☐

m. Screened Depth of Well:

Depth _____ft or m (Select Units) Unknown ☒

n. Is the Well Being Used?

Yes ☐ No ☐ Unknown ☒

5. *Surface Body Of Water, Wetland, Significant Ecological Resource*

a. Is There A Surface Body of Water, Wetland, Or Significant Ecological

Yes ☒ No ☐

b. Resource Located Within 1,000ft (300m) of the Site?

Yes ☒ No ☐

If "yes", then complete the following information for each body of water:

c. Name: Ward Creek

Lake ☐	River ☐	Creek ☒	Pond ☐	Flood Control Ditch ☐	Wetland ☐	Other ☐

If Other, specify use

d. Closest Distance Between Site and Water:

<100ft (30m) ☐: 100 to 500ft (30 to 150m) ☐: 500 to 1,000ft (150 to 300m) ☒
1,000 to 2,000ft (300 to 600m) ☐: >2,000ft (600m): ☐___

e. Direction from Site to Water:

N ☐ N/E ☐ E ☐ S/E ☐ S ☐ S/W ☒ W ☐ N/W ☐

6. *Utility Vaults*

a. Are There Any Utility Vaults Located On or Adjacent to the Site?

Yes ☐ No ☒

If yes, answer b-d for each vault (insert additional lines b-d as necessary for each additional vault).

b. Type of Vault?

Electric ☐: Telephone ☐ Gas ☐: Water ☐: Unknown ☐

c. Near Which Property Boundary?

N ☐ N/E ☐ E ☐ S/E ☐

d. Depth of Vault?

Depth _____ ft or m (Select Units) or Unknown: ☐

7. *Basements*

a. Do Any of the Buildings Within 1,000ft (300m) of the Site Have Basements?

Yes ☐ No ☒ Unknown ☐

b. If "Yes," Check Types Of Buildings Which Have Basements

Residence ☐ Office Building ☐ Commercial ☐

Other (Describe):

c. Is It Likely That The Buildings Contain Sumps?

Yes ☐ No ☐

d. Distance to Nearest Basement:

<100ft (30m) ☐: 100 to 500ft (30 to 150m) ☐: 500 to 1,000ft (150 to 300m) ☐

1,000 to 2,000ft (300 to 600m) ☐: >2,000ft (600m) ☐

e. Direction from Site:

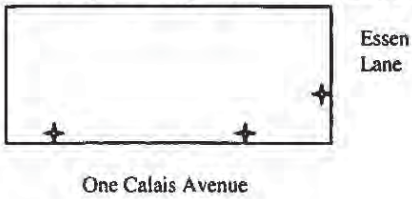
N ☐ N/E ☐ E ☐ S/E ☐ S ☐ S/W ☐ W ☐ N/W ☐

8 Storm and Sanitary Sewer

a. Are There Any Storm Sewer Drains Located On or Adjacent to the Site?

Yes ☒ No ☐

b. Describe Location(s): along both Essen Lane and One Calais Avenue



c. Are There Any Sanitary Sewer Lines On or Adjacent to the Site?

Yes ☒ No ☐

d. Describe Location(s): along both Essen Lane and One Calais Avenue – see above figure.

9. Subway/Tunnel

a. Is There a Subsurface Mass Transit System or Tunnel Located Within 1,000ft (300m) of the Site?

Yes ☐ No ☒

If "yes," then complete the following information.

b. Describe:

c. Minimum Distance between Site and Subway/Tunnel:

<100ft (30m) ☐: 100 to 500ft (30 to 150m) ☐: 500 to 1,000ft (150 to 300m) ☐
1,000 to 2,000ft (300 to 600m) ☐: >2,000ft (600m) ☐

d. Direction from Site to Subway/Tunnel:

N ☐ N/E ☐ E ☐ S/E ☐ S ☐ S/W ☐ W ☐ N/W ☐

e. Topographically Downgradient?

Yes ☐ No ☐

APPENDIX B

SOIL AND GROUNDWATER ANALYTICAL LABORATORY REPORTS

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46058
Sample ID: WF-1
Sample Type: Water
Site ID: 5-0608

Date Collected: 3/30/05
Time Collected: 12:44
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Purchase Order: !2005 PO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Benzene	ND	mg/l	0.0010	1.0	4/ 2/05	11:05	S. Edwards	8260B	9285
**Toluene	ND	mg/l	0.0010	1.0	4/ 2/05	11:05	S. Edwards	8260B	9285
**Ethylbenzene	ND	mg/l	0.0010	1.0	4/ 2/05	11:05	S. Edwards	8260B	9285
**Xylenes (Total)	ND	mg/l	0.0010	1.0	4/ 2/05	11:05	S. Edwards	8260B	9285
**Methyl-t-butyl ether	ND	mg/l	0.0010	1.0	4/ 2/05	11:05	S. Edwards	8260B	9285

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	87.	73. - 127.
VOA Surr Toluene-d8	82.	79. - 113.
VOA Surr, 4-BFB	101.	79. - 125.
VOA Surr, DBFM	93.	75. - 134.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46059
Sample ID: WE-1
Sample Type: Water
Site ID: 5-0608

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Date Collected: 3/30/05
Time Collected: 12:40
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Purchase Order: !2005 PO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/l	0.100	1.0	4/ 8/05	11:00	J. Redmond	8015B	3284
**TPH (Diesel Range)	ND	mg/l	0.100	1.0	4/ 4/05	19:44	B. Yanna	8015B/3510	896
VOLATILE ORGANICS									
**Benzene	ND	mg/l	0.0010	1.0	4/ 2/05	11:30	S. Edwards	8260B	9285
**Toluene	ND	mg/l	0.0010	1.0	4/ 2/05	11:30	S. Edwards	8260B	9285
**Ethylbenzene	ND	mg/l	0.0010	1.0	4/ 2/05	11:30	S. Edwards	8260B	9285
**Xylenes (Total)	ND	mg/l	0.0010	1.0	4/ 2/05	11:30	S. Edwards	8260B	9285
**Methyl-t-butyl ether	ND	mg/l	0.0010	1.0	4/ 2/05	11:30	S. Edwards	8260B	9285

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	4/ 2/05		J. Davis	3510
PAH's	1000 ml	1.00 ml	4/ 2/05		J. Davis	3510/610

Surrogate	% Recovery	Target Range

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46059
Sample ID: WE-1
Project: 25881-02

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	101.	55. - 133.
BTEX/GRO Surr., a,a,a-TFT	89.	63. - 134.
VOA Surr 1,2-DCA-d4	88.	73. - 127.
VOA Surr Toluene-d8	82.	79. - 113.
VOA Surr, 4-BFB	103.	79. - 125.
VOA Surr, DBFM	94.	75. - 134.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46060
Sample ID: WT-1
Sample Type: Water
Site ID: 5-0608

Date Collected:
Time Collected:
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Purchase Order: !2005 PO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Benzene	ND	mg/l	0.0010	1.0	4/ 2/05	8:12	S. Edwards	8260B	9285
**Toluene	ND	mg/l	0.0010	1.0	4/ 2/05	8:12	S. Edwards	8260B	9285
**Ethylbenzene	ND	mg/l	0.0010	1.0	4/ 2/05	8:12	S. Edwards	8260B	9285
**Xylenes (Total)	ND	mg/l	0.0010	1.0	4/ 2/05	8:12	S. Edwards	8260B	9285
**Methyl-t-butyl ether	ND	mg/l	0.0010	1.0	4/ 2/05	8:12	S. Edwards	8260B	9285

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	86.	73. - 127.
VOA Surr Toluene-d8	82.	79. - 113.
VOA Surr, 4-BFB	101.	79. - 125.
VOA Surr, DBFM	93.	75. - 134.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46061
Sample ID: WT-2
Sample Type: Soil
Site ID: 5-0608

Date Collected:
Time Collected:
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Purchase Order: !2005 PO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Benzene	ND	mg/kg	0.100	50.0	4/ 7/05	17:32	J. Adams	8260B	4358
**Ethylbenzene	ND	mg/kg	0.100	50.0	4/ 7/05	17:32	J. Adams	8260B	4358
**Toluene	ND	mg/kg	0.100	50.0	4/ 7/05	17:32	J. Adams	8260B	4358
**Xylenes (Total)	ND	mg/kg	0.100	50.0	4/ 7/05	17:32	J. Adams	8260B	4358
**Methyl-t-butyl ether	ND	mg/kg	0.100	50.0	4/ 7/05	17:32	J. Adams	8260B	4358

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.00 g	5.0 ml	4/ 8/05		N. Noman	5035

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCAd4	84.	72. - 134.
VOA Surr Toluene-d8	93.	76. - 122.
VOA Surr, 4-BFB	85.	60. - 138.
VOA Surr, DBFM	87.	75. - 137.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46061
Sample ID: WT-2
Project: 25881-02
Page 2

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46062
Sample ID: MW-1(0'-2')
Sample Type: Soil
Site ID: 5-0608

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Purchase Order: !2005 PO

Date Collected: 3/30/05
Time Collected: 9:57
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.1	%		1.0	4/ 5/05		J. Davis	CLP	8233
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/kg	9.92	50.0	4/ 5/05	17:19	J. Redmond	8015B	3313
**TPH (Diesel Range)	ND	mg/kg	9.84	1.0	4/ 4/05	22:27	B. Yanna	8015B	53
VOLATILE ORGANICS									
**Benzene	ND	mg/kg	0.0019	1.0	4/ 7/05	15:14	J. Adams	8260B	4358
**Ethylbenzene	ND	mg/kg	0.0019	1.0	4/ 7/05	15:14	J. Adams	8260B	4358
**Toluene	0.0025	mg/kg	0.0019	1.0	4/ 7/05	15:14	J. Adams	8260B	4358
**Xylenes (Total)	ND	mg/kg	0.0019	1.0	4/ 7/05	15:14	J. Adams	8260B	4358
**Methyl-t-butyl ether	0.0153	mg/kg	0.0019	1.0	4/ 7/05	15:14	J. Adams	8260B	4358

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.4 gm	1.0 ml	4/ 2/05		J. Davis	3550
Volatile Organics	5.19 g	5.0 ml	3/30/05	9:57	N. Noman	5035
BTX Prep	5.04 g	10.0 ml	3/30/05	9:57	J. Redmond	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46062
Sample ID: MW-1(0'-2')
Project: 25881-02

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	63. - 127.
TPH Hi Surr., o-Terphenyl	78.	35. - 135.
VOA Surr, 1,2-DCAd4	87.	72. - 134.
VOA Surr Toluene-d8	86.	76. - 122.
VOA Surr, 4-BFB	91.	60. - 138.
VOA Surr, DBFM	92.	75. - 137.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46063
Sample ID: MW-1(18'-20')
Sample Type: Soil
Site ID: 5-0608

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Date Collected: 3/30/05
Time Collected: 15:20
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Purchase Order: !2005 PO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	78.4	%		1.0	4/ 5/05		J. Davis	CLP	8233
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/kg	10.5	50.0	4/ 5/05	17:52	J. Redmond	8015B	3313
**TPH (Diesel Range)	ND	mg/kg	10.2	1.0	4/ 4/05	22:47	B. Yanna	8015B	53
VOLATILE ORGANICS									
**Benzene	0.0068	mg/kg	0.0021	1.0	4/ 7/05	15:33	J. Adams	8260B	4358
**Ethylbenzene	0.0416	mg/kg	0.0021	1.0	4/ 7/05	15:33	J. Adams	8260B	4358
**Toluene	0.0070	mg/kg	0.0021	1.0	4/ 7/05	15:33	J. Adams	8260B	4358
**Xylenes (Total)	0.245	mg/kg	0.0021	1.0	4/ 7/05	15:33	J. Adams	8260B	4358
**Methyl-t-butyl ether	0.149	mg/kg	0.0021	1.0	4/ 7/05	15:33	J. Adams	8260B	4358

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.5 gm	1.0 ml	4/ 2/05		J. Davis	3550
Volatile Organics	4.87 g	5.0 ml	3/30/05	15:20	N. Noman	5035
BTX Prep	4.77 g	10.0 ml	3/30/05	15:20	J. Redmond	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46063
Sample ID: MW-1(18'-20')
Project: 25881-02

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	89.	63. - 127.
TPH Hi Surr., o-Terphenyl	89.	35. - 135.
VOA Surr, 1,2-DCAd4	84.	72. - 134.
VOA Surr Toluene-d8	76.	76. - 122.
VOA Surr, 4-BFB	91.	60. - 138.
VOA Surr, DBFM	92.	75. - 137.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46064
Sample ID: MW-2(0'-2')
Sample Type: Soil
Site ID: 5-0608

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Date Collected: 3/30/05
Time Collected: 10:17
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Purchase Order: !2005 PO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	76.2	%		1.0	4/ 5/05		J. Davis	CLP	8233
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/kg	10.8	50.0	4/ 5/05	18:25	J. Redmond	8015B	3313
**TPH (Diesel Range)	ND	mg/kg	9.88	1.0	4/ 4/05	23:08	B. Yanna	8015B	53
VOLATILE ORGANICS									
**Benzene	ND	mg/kg	0.0021	1.0	4/ 8/05	20:58	J. Bundy	8260B	5772
**Ethylbenzene	ND	mg/kg	0.0021	1.0	4/ 8/05	20:58	J. Bundy	8260B	5772
**Toluene	0.0037	mg/kg	0.0021	1.0	4/ 8/05	20:58	J. Bundy	8260B	5772
**Xylenes (Total)	ND	mg/kg	0.0021	1.0	4/ 8/05	20:58	J. Bundy	8260B	5772
**Methyl-t-butyl ether	ND	mg/kg	0.0021	1.0	4/ 8/05	20:58	J. Bundy	8260B	5772

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.3 gm	1.0 ml	4/ 2/05		J. Davis	3550
Volatile Organics	4.70 g	5.0 ml	3/30/05	10:17	N. Noman	5035
BTX Prep	4.62 g	10.0 ml	3/30/05	10:17	J. Redmond	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46064
Sample ID: MW-2(0'-2')
Project: 25881-02

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	63. - 127.
TPH Hi Surr., o-Terphenyl	98.	35. - 135.
VOA Surr, 1,2-DCAd4	88.	72. - 125.
VOA Surr Toluene-d8	95.	80. - 124.
VOA Surr, 4-BFB	93.	25. - 185.
VOA Surr, DBFM	92.	73. - 124.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Purchase Order: !2005 PO

Lab Number: 05-A46065
Sample ID: MW-2(10'-12')
Sample Type: Soil
Site ID: 5-0608

Date Collected: 3/31/05
Time Collected: 8:50
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.1	%		1.0	4/ 5/05		J. Davis	CLP	8233
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/kg	9.90	50.0	4/ 5/05	18:58	J. Redmond	8015B	3313
**TPH (Diesel Range)	ND	mg/kg	10.0	1.0	4/ 4/05	23:28	B. Yanna	8015B	53
VOLATILE ORGANICS									
**Benzene	ND	mg/kg	0.0020	1.0	4/ 7/05	16:13	J. Adams	8260B	4358
**Ethylbenzene	ND	mg/kg	0.0020	1.0	4/ 7/05	16:13	J. Adams	8260B	4358
**Toluene	ND	mg/kg	0.0020	1.0	4/ 7/05	16:13	J. Adams	8260B	4358
**Xylenes (Total)	ND	mg/kg	0.0020	1.0	4/ 7/05	16:13	J. Adams	8260B	4358
**Methyl-t-butyl ether	0.0038	mg/kg	0.0020	1.0	4/ 7/05	16:13	J. Adams	8260B	4358

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.9 gm	1.0 ml	4/ 2/05		J. Davis	3550
Volatile Organics	4.98 g	5.0 ml	3/30/05	8:50	N. Noman	5035
BTX Prep	5.05 g	10.0 ml	3/31/05	8:50	J. Redmond	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46065
Sample ID: MW-2(10'-12')
Project: 25881-02

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	87.	63. - 127.
TPH Hi Surr., o-Terphenyl	97.	35. - 135.
VOA Surr, 1,2-DCAd4	82.	72. - 134.
VOA Surr Toluene-d8	85.	76. - 122.
VOA Surr, 4-BFB	88.	60. - 138.
VOA Surr, DBFM	91.	75. - 137.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46066
Sample ID: MW-3(0'-2')
Sample Type: Soil
Site ID: 5-0608

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Date Collected: 3/30/05
Time Collected: 13:00
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Purchase Order: !2005 PO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.1	%		1.0	4/ 5/05		J. Davis	CLP	8233
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/kg	10.3	50.0	4/ 5/05	19:30	J. Redmond	8015B	3313
**TPH (Diesel Range)	ND	mg/kg	10.0	1.0	4/ 4/05	23:48	B. Yanna	8015B	53
VOLATILE ORGANICS									
**Benzene	ND	mg/kg	0.0020	1.0	4/ 7/05	16:33	J. Adams	8260B	4358
**Ethylbenzene	ND	mg/kg	0.0020	1.0	4/ 7/05	16:33	J. Adams	8260B	4358
**Toluene	0.0033	mg/kg	0.0020	1.0	4/ 7/05	16:33	J. Adams	8260B	4358
**Xylenes (Total)	ND	mg/kg	0.0020	1.0	4/ 7/05	16:33	J. Adams	8260B	4358
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	4/ 7/05	16:33	J. Adams	8260B	4358

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	25.0 gm	1.0 ml	4/ 2/05		J. Davis	3550
Volatile Organics	5.00 g	5.0 ml	3/30/05	13:00	N. Noman	5035
BTX Prep	4.84 g	10.0 ml	3/30/05	13:00	J. Redmond	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46066
Sample ID: MW-3(0'-2')
Project: 25881-02

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	85.	63. - 127.
TPH Hi Surr., o-Terphenyl	84.	35. - 135.
VOA Surr, 1,2-DCAd4	82.	72. - 134.
VOA Surr Toluene-d8	96.	76. - 122.
VOA Surr, 4-BFB	94.	60. - 138.
VOA Surr, DBFM	92.	75. - 137.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Purchase Order: !2005 PO

Lab Number: 05-A46067
Sample ID: MW-3(4'-6')
Sample Type: Soil
Site ID: 5-0608

Date Collected: 3/30/05
Time Collected: 13:25
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	77.8	%		1.0	4/ 5/05		J. Davis	CLP	8233
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/kg	9.96	50.0	4/ 5/05	20:03	J. Redmond	8015B	3313
**TPH (Diesel Range)	ND	mg/kg	10.1	1.0	4/ 5/05	0:08	B. Yanna	8015B	53
VOLATILE ORGANICS									
**Benzene	ND	mg/kg	0.0021	1.0	4/ 7/05	16:52	J. Adams	8260B	4358
**Ethylbenzene	ND	mg/kg	0.0021	1.0	4/ 7/05	16:52	J. Adams	8260B	4358
**Toluene	0.0029	mg/kg	0.0021	1.0	4/ 7/05	16:52	J. Adams	8260B	4358
**Xylenes (Total)	ND	mg/kg	0.0021	1.0	4/ 7/05	16:52	J. Adams	8260B	4358
**Methyl-t-butyl ether	ND	mg/kg	0.0021	1.0	4/ 7/05	16:52	J. Adams	8260B	4358

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.8 gm	1.0 ml	4/ 2/05		J. Davis	3550
Volatile Organics	4.87 g	5.0 ml	3/30/05	13:25	N. Noman	5035
BTX Prep	5.02 g	10.0 ml	3/30/05	13:25	J. Redmond	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46067
Sample ID: MW-3(4'-6')
Project: 25881-02

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	86.	63. - 127.
TPH Hi Surr., o-Terphenyl	88.	35. - 135.
VOA Surr, 1,2-DCAd4	82.	72. - 134.
VOA Surr Toluene-d8	94.	76. - 122.
VOA Surr, 4-BFB	91.	60. - 138.
VOA Surr, DBFM	88.	75. - 137.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A46068
Sample ID: MW-3(10'-12')
Sample Type: Soil
Site ID: 5-0608

Project: 25881-02
Project Name: EXXONMOBIL 5-0608
Sampler: CLIFF D.C./SETH H.

Date Collected: 3/31/05
Time Collected: 9:30
Date Received: 4/ 1/05
Time Received: 8:20
Page: 1

Purchase Order: !2005 PO

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS									
% Dry Weight	80.1	%		1.0	4/ 5/05		J. Davis	CLP	8233
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/kg	9.33	50.0	4/ 5/05	20:36	J. Redmond	8015B	3313
**TPH (Diesel Range)	ND	mg/kg	10.1	1.0	4/ 5/05	0:28	B. Yanna	8015B	53
VOLATILE ORGANICS									
**Benzene	ND	mg/kg	0.0018	1.0	4/ 7/05	17:12	J. Adams	8260B	4358
**Ethylbenzene	ND	mg/kg	0.0018	1.0	4/ 7/05	17:12	J. Adams	8260B	4358
**Toluene	0.0019	mg/kg	0.0018	1.0	4/ 7/05	17:12	J. Adams	8260B	4358
**Xylenes (Total)	ND	mg/kg	0.0018	1.0	4/ 7/05	17:12	J. Adams	8260B	4358
**Methyl-t-butyl ether	ND	mg/kg	0.0018	1.0	4/ 7/05	17:12	J. Adams	8260B	4358

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH/DRO	24.7 gm	1.0 ml	4/ 2/05		J. Davis	3550
Volatile Organics	5.49 g	5.0 ml	3/31/05	9:30	N. Noman	5035
BTX Prep	5.36 g	10.0 ml	3/31/05	9:30	J. Redmond	5035

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A46068
Sample ID: MW-3(10'-12')
Project: 25881-02

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	86.	63. - 127.
TPH Hi Surr., o-Terphenyl	78.	35. - 135.
VOA Surr, 1,2-DCAd4	83.	72. - 134.
VOA Surr Toluene-d8	81.	76. - 122.
VOA Surr, 4-BFB	93.	60. - 138.
VOA Surr, DBFM	91.	75. - 137.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-02
Project Name: EXXONMOBIL 5-0608
Page: 1
Laboratory Receipt Date: 4/ 1/05

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TPH (Gasoline Range)	mg/kg	< 0.10	1.07	1.00	107	52. - 150.	3313	blank
TPH (Diesel Range)	mg/kg	16.5	58.6	40.0	105	28. - 143.	53	05-A46152
TPH (Diesel Range)	mg/l	< 0.100	1.04	1.00	104	35. - 124.	896	blank
VOA PARAMETERS								
Benzene	mg/l	0.0019	0.0541	0.0500	104	62 - 146	9285	45701
Benzene	mg/kg	0.0012	0.0508	0.0500	99	53 - 136	4358	45599
Benzene	mg/kg	0.0047	0.0491	0.0500	89	53 - 136	5772	46903
Toluene	mg/l	0.0077	0.0499	0.0500	84	68 - 141	9285	45701
Toluene	mg/kg	< 0.0020	0.0476	0.0500	95	43 - 139	4358	45599
Toluene	mg/kg	0.0028	0.0565	0.0500	107	43 - 139	5772	46903
VOA Surr, 1,2-DCAd4	% Rec				84	72 - 134	4358	
VOA Surr, 1,2-DCAd4	% Rec				72	72 - 134	5772	
VOA Surr Toluene-d8	% Rec				94	76 - 122	4358	
VOA Surr Toluene-d8	% Rec				107	76 - 122	5772	
VOA Surr, 4-BFB	% Rec				95	60 - 138	4358	
VOA Surr, 4-BFB	% Rec				105	60 - 138	5772	
VOA Surr, DBFM	% Rec				89	75 - 137	4358	
VOA Surr, DBFM	% Rec				70	75 - 137	5772	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-02
Project Name: EXXONMOBIL 5-0608
Page: 2
Laboratory Receipt Date: 4/ 1/05

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	1.07	1.10	2.76	39.	3313
TPH (Diesel Range)	mg/kg	58.6	48.8	18.25	51.	53
TPH (Diesel Range)	mg/l	1.04	1.07	2.84	36.	896
VOA PARAMETERS						
Benzene	mg/l	0.0541	0.0561	3.63	25.	9285
Benzene	mg/kg	0.0508	0.0510	0.39	34.	4358
Benzene	mg/kg	0.0491	0.0485	1.23	34.	5772
Toluene	mg/l	0.0499	0.0517	3.54	29.	9285
Toluene	mg/kg	0.0476	0.0466	2.12	39.	4358
Toluene	mg/kg	0.0565	0.0468	18.78	39.	5772
VOA Surr 1,2-DCA-d4	% Rec		84.			9285
VOA Surr, 1,2-DCAd4	% Rec		85.			4358
VOA Surr, 1,2-DCAd4	% Rec		84.			5772
VOA Surr Toluene-d8	% Rec		82.			9285
VOA Surr Toluene-d8	% Rec		94.			4358
VOA Surr Toluene-d8	% Rec		99.			5772
VOA Surr, 4-BFB	% Rec		97.			9285
VOA Surr, 4-BFB	% Rec		90.			4358
VOA Surr, 4-BFB	% Rec		94.			5772
VOA Surr, DBFM	% Rec		94.			9285
VOA Surr, DBFM	% Rec		90.			4358
VOA Surr, DBFM	% Rec		90.			5772

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-02
Project Name: EXXONMOBIL 5-0608
Page: 3
Laboratory Receipt Date: 4/ 1/05

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/kg	1.00	1.07	107	74 - 127	3313
TPH (Diesel Range)	mg/kg	40.0	37.0	92	54 - 126	53
TPH (Gasoline Range)	mg/l	1.00	1.06	106	64 - 130	3284
BTEX/GRO Surr., a,a,a-TFT	% Recovery			82	69 - 132	3284
UST PARAMETERS						
TPH (Diesel Range)	mg/l	1.00	0.890	89	41 - 120	896
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0523	105	76 - 127	9285
Benzene	mg/kg	0.0500	0.0485	97	76 - 124	4358
Benzene	mg/kg	0.0500	0.0516	103	76 - 124	5772
Ethylbenzene	mg/l	0.0500	0.0464	93	80 - 124	9285
Ethylbenzene	mg/kg	0.0500	0.0512	102	70 - 128	4358
Ethylbenzene	mg/kg	0.0500	0.0527	105	70 - 128	5772
Toluene	mg/l	0.0500	0.0428	86	79 - 124	9285
Toluene	mg/kg	0.0500	0.0506	101	72 - 125	4358
Toluene	mg/kg	0.0500	0.0515	103	72 - 125	5772
Xylenes (Total)	mg/l	0.150	0.139	93	80 - 125	9285
Xylenes (Total)	mg/kg	0.150	0.157	105	71 - 129	4358
Xylenes (Total)	mg/kg	0.150	0.158	105	71 - 129	5772
Methyl-t-butyl ether	mg/l	0.0500	0.0514	103	66 - 136	9285
Methyl-t-butyl ether	mg/kg	0.0500	0.0405	81	67 - 138	4358
Methyl-t-butyl ether	mg/kg	0.0500	0.0473	95	67 - 138	5772
VOA Surr 1,2-DCA-d4	% Rec			83	73 - 127	9285
VOA Surr, 1,2-DCAd4	% Rec			81	72 - 134	4358
VOA Surr, 1,2-DCAd4	% Rec			84	72 - 134	5772
VOA Surr Toluene-d8	% Rec			82	79 - 113	9285
VOA Surr Toluene-d8	% Rec			95	76 - 122	4358
VOA Surr Toluene-d8	% Rec			94	76 - 122	5772
VOA Surr, 4-BFB	% Rec			95	79 - 125	9285
VOA Surr, 4-BFB	% Rec			90	60 - 138	4358

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-02
Project Name: EXXONMOBIL 5-0608
Page: 4
Laboratory Receipt Date: 4/ 1/05

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA Surr, 4-BFB	% Rec			87	60 - 138	5772
VOA Surr, DBFM	% Rec			95	75 - 134	9285
VOA Surr, DBFM	% Rec			85	75 - 137	4358
VOA Surr, DBFM	% Rec			90	75 - 137	5772

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TPH (Gasoline Range)	< 0.10	mg/kg	3313	4/ 5/05	14:03
TPH (Diesel Range)	< 0.10	mg/kg	53	4/ 4/05	21:06
TPH (Gasoline Range)	< 0.0550	mg/l	3284	4/ 8/05	10:27
TPH (Diesel Range)	< 0.100	mg/l	896	4/ 4/05	16:17
UST surr-Trifluorotoluene	86.	% Recovery	3313	4/ 5/05	14:03
BTEX/GRO Surr., a,a,a-TFT	89.	% Recovery	3284	4/ 8/05	10:27

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-02
Project Name: EXXONMOBIL 5-0608
Page: 5
Laboratory Receipt Date: 4/ 1/05

VOA PARAMETERS					
Benzene	< 0.0003	mg/l	9285	4/ 2/05	5:09
Benzene	< 0.0008	mg/kg	4358	4/ 7/05	10:48
Benzene	< 0.0008	mg/kg	5772	4/ 8/05	20:00
Ethylbenzene	< 0.0002	mg/l	9285	4/ 2/05	5:09
Ethylbenzene	< 0.0005	mg/kg	4358	4/ 7/05	10:48
Ethylbenzene	< 0.0005	mg/kg	5772	4/ 8/05	20:00
Toluene	< 0.0002	mg/l	9285	4/ 2/05	5:09
Toluene	< 0.0005	mg/kg	4358	4/ 7/05	10:48
Toluene	0.0009	mg/kg	5772	4/ 8/05	20:00
Xylenes (Total)	< 0.0006	mg/l	9285	4/ 2/05	5:09
Xylenes (Total)	< 0.0013	mg/kg	4358	4/ 7/05	10:48
Xylenes (Total)	0.0015	mg/kg	5772	4/ 8/05	20:00
Methyl-t-butyl ether	< 0.0002	mg/l	9285	4/ 2/05	5:09
Methyl-t-butyl ether	< 0.0009	mg/kg	4358	4/ 7/05	10:48
Methyl-t-butyl ether	< 0.0009	mg/kg	5772	4/ 8/05	20:00
VOA Surr 1,2-DCA-d4	84.	% Rec	9285	4/ 2/05	5:09
VOA Surr, 1,2-DCAd4	87.	% Rec	4358	4/ 7/05	10:48
VOA Surr, 1,2-DCAd4	87.	% Rec	5772	4/ 8/05	20:00
VOA Surr Toluene-d8	81.	% Rec	9285	4/ 2/05	5:09
VOA Surr Toluene-d8	93.	% Rec	4358	4/ 7/05	10:48
VOA Surr Toluene-d8	93.	% Rec	5772	4/ 8/05	20:00
VOA Surr, 4-BFB	100.	% Rec	9285	4/ 2/05	5:09
VOA Surr, 4-BFB	90.	% Rec	4358	4/ 7/05	10:48
VOA Surr, 4-BFB	88.	% Rec	5772	4/ 8/05	20:00
VOA Surr, DBFM	94.	% Rec	9285	4/ 2/05	5:09
VOA Surr, DBFM	90.	% Rec	4358	4/ 7/05	10:48
VOA Surr, DBFM	96.	% Rec	5772	4/ 8/05	20:00

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 411352

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

SUMMARY REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Site ID: 5-0608
Project: 25881-02
RAS #: 5-0608
Date Sampled:

Analyte	WF-1 05-A46058	WE-1 05-A46059	WT-1 05-A46060	
TPH (Gasoline Range)	---	< 0.100	---	mg/l
TPH (Diesel Range)	---	< 0.100	---	mg/l
Benzene	< 0.0010	< 0.0010	< 0.0010	mg/l
Ethylbenzene	< 0.0010	< 0.0010	< 0.0010	mg/l
Toluene	< 0.0010	< 0.0010	0.0007	mg/l
Xylenes (Total)	< 0.0010	< 0.0010	< 0.0010	mg/l
Methyl-t-butyl ether	< 0.0010	< 0.0010	< 0.0010	mg/l

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

SUMMARY REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Site ID: 5-0608
Project: 25881-02
RAS #: 5-0608
Date Sampled: 3/30/05

Analyte	WT-2 05-A46061	MW-1(0'-2') 05-A46062	MW-1(18'-20') 05-A46063	MW-2(0'-2') 05-A46064	MW-2(10'-12') 05-A46065	MW-3(0'-2') 05-A46066	
TPH (Gasoline Range)	---	< 9.92	< 10.5	< 10.8	< 9.90	< 10.3	mg/k
TPH (Diesel Range)	---	3.23	3.31	2.53	3.73	2.48	mg/k
% Dry Weight	---	78.1	78.4	76.2	77.1	80.1	mg/k
Benzene	< 0.100	< 0.0019	0.0068	< 0.0021	< 0.0020	< 0.0020	mg/k
Ethylbenzene	< 0.100	< 0.0019	0.0416	< 0.0021	< 0.0020	< 0.0020	mg/k
Toluene	< 0.100	0.0025	0.0070	0.0037	0.0015	0.0033	mg/k
Xylenes (Total)	< 0.100	< 0.0019	0.245	< 0.0021	< 0.0020	< 0.0020	mg/k
Methyl-t-butyl ether	< 0.100	0.0153	0.149	0.0014	0.0038	< 0.0020	mg/k

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

SUMMARY REPORT

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Site ID: 5-0608
Project: 25881-02
RAS #: 5-0608
Date Sampled: 3/31/05

Analyte	MW-3(4'-6') 05-A46067	MW-3(10'-12') 05-A46068	
TPH (Gasoline Range)	< 9.96	< 9.33	mg/kg
TPH (Diesel Range)	3.95	2.83	mg/kg
% Dry Weight	77.8	80.1	mg/kg
Benzene	< 0.0021	< 0.0018	mg/kg
Ethylbenzene	< 0.0021	< 0.0018	mg/kg
Toluene	0.0029	0.0019	mg/kg
Xylenes (Total)	< 0.0021	< 0.0018	mg/kg
Methyl-t-butyl ether	< 0.0021	< 0.0018	mg/kg
DRO DATA REVIEW	Completed	Completed	mg/kg
GRO DATA REVIEW	Completed	Completed	mg/kg
VOA DATA REVIEW	---	Completed	mg/kg

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM **BC**

411352

Client Name : CRA

Cooler Received/Opened On: 4 /1/05 **Accessioned By:** Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 1.2 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...NO...NA
   a. If yes, how many, and where: 1 Front
3. Were custody seals on containers?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

Fed-Ex UPS Velocity DHL Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:
2955

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

CHAIN OF CUSTODY RECORD

Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

411352

Consultant Name: CRA
Address: 4915 S. Sherwood Forest Blvd.
City/State/Zip: Baton Rouge, LA
Phone Number: (225) 292-9007 / fax (225) 292-3614
ExxonMobil Project Mgr: Dale Gomm

Consultant Project Number: 25881-02
Report To: Seth Domangue, CRA
Invoice To: Dale Gomm, ExxonMobil
Account #: 6976
EWR #:
Facility ID # Former Exxon 5-0608
Site Address 4555 Essen Lane
City, State Zip Baton Rouge, Louisiana

Sampler Name: (Print) Cliff D. Corder/Seth Henderson
Sampler Signature: [signature]

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX/MTBE 8260B	LEAD 6010B	TPH-GRO 8015B	RCRA Metals 6000/7000	TPH-ORO 8015B	TPH-DRO 8015B	See below note						RUSH TAT (Pre-Schedule)	TAT request (4 Bus. Days)	STD TAT	Fax Results
MW-1 (0'-2')	03/30/05	0957	9	x			x							x					x		x		x			x	*		46062					x	x
MW-1 (18'-20')	03/30/05	1520	9	x			x							x					x		x		x			x	*			63				x	x
MW-2 (0'-2')	03/30/05	1017	9	x			x							x					x		x		x			x	*			64				x	x
MW-2 (10'-12')	03/31/05	0850	9	x			x							x					x		x		x			x	*			65				x	x
MW-3 (0'-2')	03/30/05	1300	9	x			x							x					x		x		x			x	*			66				x	x
MW-3 (4'-6')	03/30/05	1325	9	x			x							x					x		x		x			x	*			67				x	x
MW-3 (10'-12')	03/31/05	0930	9	x			x							x					x		x		x			x	*		✓	68				x	x
WF-1	03/30/05	1244	3	x			x		x								x				x								46058					x	x
WE-1	03/30/05	1240	7	x			x		x					x			x				x		x			x				59				x	x
WT-1	—	—	1				✓		✓												X								✓	60					
WT-2	—	—	1																										46061						

Special Instructions: * Analyze for PAHs if TPH-DRO result is >65 mg/kg
(LA RECAP list)

FedEx No.

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	3/31/05	1600	FED EX		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			[signature]	4/1/05	8:20

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

4/11/05

CONESTOGA ROVERS & ASSOC. 6976
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 5-0608
Project Number: 25881-02.
Laboratory Project Number: 411352.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Collection Date
WF-1	05-A46058	3/30/05
WE-1	05-A46059	3/30/05
WT-1	05-A46060	
WT-2	05-A46061	
MW-1(0'-2')	05-A46062	3/30/05
MW-1(18'-20')	05-A46063	3/30/05
MW-2(0'-2')	05-A46064	3/30/05
MW-2(10'-12')	05-A46065	3/31/05
MW-3(0'-2')	05-A46066	3/30/05
MW-3(4'-6')	05-A46067	3/30/05
MW-3(10'-12')	05-A46068	3/31/05

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Pamela A. Langford Report Date: 4/11/05

Johnny A. Mitchell, Laboratory Director
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Senior Project Manager
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services
Gail A. Lage, Senior Project Manager
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Senior Project Manag

Laboratory Certification Number: 01945

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 10318
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A47531
Sample ID: MW-1
Sample Type: Water
Site ID: 5-0608

Project: 25881-01
Project Name: EXXONMOBIL 5-0608
Sampler: TREY DAVIS

Date Collected: 4/ 4/05
Time Collected: 11:00
Date Received: 4/ 5/05
Time Received: 7:45
Page: 1

Purchase Order: !

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	19.3	mg/l	2.00	20.0	4/ 8/05	22:37	F.Gundi	8015B	5280
**TPH (Diesel Range)	6.44	mg/l	0.500	5.0	4/ 7/05	10:21	M.Jarrett	8015B/3510	2551
**Naphthalene	0.400	mg/l	0.0100	10.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Acenaphthene	ND	mg/l	0.00100	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Anthracene	0.00739	mg/l	0.00050	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Fluoranthene	0.00053	mg/l	0.00020	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Fluorene	ND	mg/l	0.00050	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Pyrene	0.00236	mg/l	0.00020	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Benzo(a)anthracene	ND	mg/l	0.00010	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Benzo(a)pyrene	ND	mg/l	0.00010	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Benzo(b)fluoranthene	ND	mg/l	0.00010	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Benzo(k)fluoranthene	ND	mg/l	0.00014	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Chrysene	ND	mg/l	0.00010	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Dibenzo(a,h)anthracene	ND	mg/l	0.00020	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00020	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Acenaphthylene	ND	mg/l	0.00100	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**Phenanthrene	ND	mg/l	0.00050	1.0	4/ 7/05	18:15	K.Phelps	8310	8313
**2-Methylnaphthalene	0.398	mg/l	0.0100	10.0	4/ 7/05	18:15	K.Phelps	8310	8313
VOLATILE ORGANICS									
**Benzene	0.159	mg/l	0.0010	1.0	4/ 5/05	17:00	B.Herford	8260B	1509
**Toluene	0.0875	mg/l	0.0010	1.0	4/ 5/05	17:00	B.Herford	8260B	1509
**Ethylbenzene	0.586	mg/l	0.0100	10.0	4/ 6/05	19:04	B.Herford	8260B	4500
**Xylenes (Total)	1.95	mg/l	0.0100	10.0	4/ 6/05	19:04	B.Herford	8260B	4500
**Methyl-t-butyl ether	0.199	mg/l	0.0010	1.0	4/ 5/05	17:00	B.Herford	8260B	1509

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A47531
Sample ID: MW-1
Project: 25881-01

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	4/ 6/05		J. Davis	3510
PAH's	1000 ml	1.00 ml	4/ 6/05		J. Davis	3510/610

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	95.	55. - 133.
BTEX/GRO Surr., a,a,a-TFT	95.	63. - 134.
VOA Surr 1,2-DCA-d4	96.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	105.	79. - 125.
VOA Surr, DBFM	99.	75. - 134.
PAH Surrogate	96.	49. - 103.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 10318
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A47532
Sample ID: MW-2
Sample Type: Water
Site ID: 5-0608

Project: 25881-01
Project Name: EXXONMOBIL 5-0608
Sampler: TREY DAVIS

Date Collected: 4/ 4/05
Time Collected: 11:30
Date Received: 4/ 5/05
Time Received: 7:45
Page: 1

Purchase Order: !

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	0.797	mg/l	0.100	1.0	4/ 8/05	23:02	F.Gundi	8015B	5280
**TPH (Diesel Range)	0.634	mg/l	0.111	1.0	4/ 7/05	7:09	M.Jarrett	8015B/3510	2551
**Naphthalene	ND	mg/l	0.00200	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Acenaphthene	ND	mg/l	0.00200	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Anthracene	ND	mg/l	0.00100	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Fluoranthene	ND	mg/l	0.00040	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Fluorene	ND	mg/l	0.00100	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Pyrene	ND	mg/l	0.00040	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Benzo(a)anthracene	ND	mg/l	0.00020	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Benzo(a)pyrene	ND	mg/l	0.00020	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Benzo(b)fluoranthene	ND	mg/l	0.00020	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Benzo(k)fluoranthene	ND	mg/l	0.00028	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Chrysene	ND	mg/l	0.00020	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Dibenzo(a,h)anthracene	ND	mg/l	0.00040	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00040	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Acenaphthylene	ND	mg/l	0.00200	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**Phenanthrene	ND	mg/l	0.00100	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
**2-Methylnaphthalene	ND	mg/l	0.00200	1.0	4/ 7/05	18:43	K.Phelps	8310	8313
VOLATILE ORGANICS									
**Benzene	0.0020	mg/l	0.0010	1.0	4/ 6/05	16:55	B.Herford	8260B	4500
**Toluene	ND	mg/l	0.0010	1.0	4/ 6/05	16:55	B.Herford	8260B	4500
**Ethylbenzene	ND	mg/l	0.0010	1.0	4/ 6/05	16:55	B.Herford	8260B	4500
**Xylenes (Total)	ND	mg/l	0.0010	1.0	4/ 6/05	16:55	B.Herford	8260B	4500
**Methyl-t-butyl ether	0.0269	mg/l	0.0010	1.0	4/ 6/05	16:55	B.Herford	8260B	4500

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A47532
Sample ID: MW-2
Project: 25881-01

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	900. ml	1.00 ml	4/ 6/05		J. Davis	3510
PAH's	500. ml	1.00 ml	4/ 6/05		J. Davis	3510/610

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	83.	55. - 133.
BTEX/GRO Surr., a,a,a-TFT	95.	63. - 134.
VOA Surr 1,2-DCA-d4	96.	73. - 127.
VOA Surr Toluene-d8	103.	79. - 113.
VOA Surr, 4-BFB	124.	79. - 125.
VOA Surr, DBFM	99.	75. - 134.
PAH Surrogate	59.	49. - 103.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 10318
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A47533
Sample ID: MW-3
Sample Type: Water
Site ID: 5-0608

Project: 25881-01
Project Name: EXXONMOBIL 5-0608
Sampler: TREY DAVIS

Date Collected: 4/ 4/05
Time Collected: 11:15
Date Received: 4/ 5/05
Time Received: 7:45
Page: 1

Purchase Order: !

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/l	0.100	1.0	4/ 7/05	15:44	F.Gundi	8015B	1427
**TPH (Diesel Range)	0.222	mg/l	0.100	1.0	4/ 7/05	7:25	M.Jarrett	8015B/3510	2551
**Naphthalene	ND	mg/l	0.00100	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Acenaphthene	ND	mg/l	0.00100	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Anthracene	ND	mg/l	0.00050	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Fluoranthene	ND	mg/l	0.00020	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Fluorene	ND	mg/l	0.00050	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Pyrene	ND	mg/l	0.00020	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Benzo(a)anthracene	ND	mg/l	0.00010	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Benzo(a)pyrene	ND	mg/l	0.00010	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Benzo(b)fluoranthene	ND	mg/l	0.00010	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Benzo(k)fluoranthene	ND	mg/l	0.00014	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Chrysene	ND	mg/l	0.00010	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Dibenzo(a,h)anthracene	ND	mg/l	0.00020	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Indeno(1,2,3-cd)pyrene	ND	mg/l	0.00020	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Acenaphthylene	ND	mg/l	0.00100	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**Phenanthrene	ND	mg/l	0.00050	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
**2-Methylnaphthalene	ND	mg/l	0.00100	1.0	4/ 7/05	19:12	K.Phelps	8310	8313
VOLATILE ORGANICS									
**Benzene	ND	mg/l	0.0010	1.0	4/ 6/05	17:27	B.Herford	8260B	4500
**Toluene	ND	mg/l	0.0010	1.0	4/ 6/05	17:27	B.Herford	8260B	4500
**Ethylbenzene	ND	mg/l	0.0010	1.0	4/ 6/05	17:27	B.Herford	8260B	4500
**Xylenes (Total)	ND	mg/l	0.0010	1.0	4/ 6/05	17:27	B.Herford	8260B	4500
**Methyl-t-butyl ether	0.0026	mg/l	0.0010	1.0	4/ 6/05	17:27	B.Herford	8260B	4500

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A47533
Sample ID: MW-3
Project: 25881-01

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	950. ml	1.00 ml	4/ 6/05		J. Davis	3510
PAH's	1000 ml	1.00 ml	4/ 6/05		J. Davis	3510/610

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	94.	55. - 133.
BTEX/GRO Surr., a,a,a-TFT	94.	69. - 132.
VOA Surr 1,2-DCA-d4	94.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	115.	79. - 125.
VOA Surr, DBFM	100.	75. - 134.
PAH Surrogate	78.	49. - 103.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 10318
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A47534
Sample ID: WR-1
Sample Type: Water
Site ID: 5-0608

Date Collected: 4/ 4/05
Time Collected:
Date Received: 4/ 5/05
Time Received: 7:45
Page: 1

Project: 25881-01
Project Name: EXXONMOBIL 5-0608
Sampler: TREY DAVIS

Purchase Order: !

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	21.2	mg/l	2.00	20.0	4/ 8/05	23:27	F.Gundi	8015B	5280
**TPH (Diesel Range)	7.35	mg/l	1.00	10.0	4/ 7/05	10:38	M.Jarrett	8015B/3510	2551
VOLATILE ORGANICS									
**Benzene	0.156	mg/l	0.0010	1.0	4/ 5/05	18:37	B.Herford	8260B	1509
**Toluene	0.0905	mg/l	0.0010	1.0	4/ 5/05	18:37	B.Herford	8260B	1509
**Ethylbenzene	0.603	mg/l	0.0100	10.0	4/ 6/05	19:36	B.Herford	8260B	4500
**Xylenes (Total)	1.99	mg/l	0.0100	10.0	4/ 6/05	19:36	B.Herford	8260B	4500
**Methyl-t-butyl ether	0.220	mg/l	0.0100	10.0	4/ 6/05	19:36	B.Herford	8260B	4500

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	4/ 6/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	110.	55. - 133.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A47534
Sample ID: WR-1
Project: 25881-01

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	94.	63. - 134.
VOA Surr 1,2-DCA-d4	96.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	107.	79. - 125.
VOA Surr, DBFM	99.	75. - 134.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 10318
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A47535
Sample ID: WE-1
Sample Type: Water
Site ID: 5-0608

Date Collected: 4/ 4/05
Time Collected: 10:40
Date Received: 4/ 5/05
Time Received: 7:45
Page: 1

Project: 25881-01
Project Name: EXXONMOBIL 5-0608
Sampler: TREY DAVIS

Purchase Order: !

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	0.161	mg/l	0.100	1.0	4/ 7/05	16:33	F.Gundi	8015B	1427
**TPH (Diesel Range)	ND	mg/l	0.100	1.0	4/ 7/05	7:56	M.Jarrett	8015B/3510	2551
VOLATILE ORGANICS									
**Benzene	ND	mg/l	0.0010	1.0	4/ 6/05	18:00	B.Herford	8260B	4500
**Toluene	ND	mg/l	0.0010	1.0	4/ 6/05	18:00	B.Herford	8260B	4500
**Ethylbenzene	ND	mg/l	0.0010	1.0	4/ 6/05	18:00	B.Herford	8260B	4500
**Xylenes (Total)	ND	mg/l	0.0010	1.0	4/ 6/05	18:00	B.Herford	8260B	4500
**Methyl-t-butyl ether	ND	mg/l	0.0010	1.0	4/ 6/05	18:00	B.Herford	8260B	4500

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	4/ 6/05		J. Davis	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	73.	55. - 133.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A47535
Sample ID: WE-1
Project: 25881-01

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	95.	69. - 132.
VOA Surr 1,2-DCA-d4	95.	73. - 127.
VOA Surr Toluene-d8	101.	79. - 113.
VOA Surr, 4-BFB	114.	79. - 125.
VOA Surr, DBFM	99.	75. - 134.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 10318
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A47536
Sample ID: WF-1
Sample Type: Water
Site ID: 5-0608

Date Collected: 4/ 4/05
Time Collected: 10:30
Date Received: 4/ 5/05
Time Received: 7:45
Page: 1

Project: 25881-01
Project Name: EXXONMOBIL 5-0608
Sampler: TREY DAVIS

Purchase Order: !

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
**TPH (Gasoline Range)	ND	mg/l	0.100	1.0	4/ 7/05	16:58	F.Gundi	8015B	1427
VOLATILE ORGANICS									
**Benzene	ND	mg/l	0.0010	1.0	4/ 6/05	18:32	B.Herford	8260B	4500
**Toluene	ND	mg/l	0.0010	1.0	4/ 6/05	18:32	B.Herford	8260B	4500
**Ethylbenzene	ND	mg/l	0.0010	1.0	4/ 6/05	18:32	B.Herford	8260B	4500
**Xylenes (Total)	ND	mg/l	0.0010	1.0	4/ 6/05	18:32	B.Herford	8260B	4500
**Methyl-t-butyl ether	ND	mg/l	0.0010	1.0	4/ 6/05	18:32	B.Herford	8260B	4500

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	95.	69. - 132.
VOA Surr 1,2-DCA-d4	96.	73. - 127.
VOA Surr Toluene-d8	102.	79. - 113.
VOA Surr, 4-BFB	115.	79. - 125.
VOA Surr, DBFM	98.	75. - 134.

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

Laboratory Number: 05-A47536
Sample ID: WF-1
Project: 25881-01

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

CONESTOGA ROVERS & ASSOC. 10318
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

Lab Number: 05-A47537
Sample ID: Trip Blank
Sample Type: Water
Site ID: 5-0608

Project: 25881-01
Project Name: EXXONMOBIL 5-0608
Sampler: TREY DAVIS

Date Collected:
Time Collected:
Date Received: 4/ 5/05
Time Received: 7:45
Page: 1

Purchase Order: !

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
**Benzene	ND	mg/l	0.0010	1.0	4/ 5/05	15:23	B.Herford	8260B	1509
**Toluene	ND	mg/l	0.0010	1.0	4/ 5/05	15:23	B.Herford	8260B	1509
**Ethylbenzene	ND	mg/l	0.0010	1.0	4/ 5/05	15:23	B.Herford	8260B	1509
**Xylenes (Total)	ND	mg/l	0.0010	1.0	4/ 5/05	15:23	B.Herford	8260B	1509
**Methyl-t-butyl ether	ND	mg/l	0.0010	1.0	4/ 5/05	15:23	B.Herford	8260B	1509

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	73. - 127.
VOA Surr Toluene-d8	103.	79. - 113.
VOA Surr, 4-BFB	127. #	79. - 125.
VOA Surr, DBFM	100.	75. - 134.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
** = NELAC E87358 Certified Analyte

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-01
Project Name: EXXONMOBIL 5-0608
Page: 1
Laboratory Receipt Date: 4/ 5/05

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
TPH (Gasoline Range)	mg/l	< 0.100	1.10	1.00	110	43. - 150.	1427	'46845
Naphthalene	mg/l	< 0.00039	0.00144	0.00200	72	34. - 115.	8313	blank
Acenaphthene	mg/l	< 0.00042	0.00153	0.00200	76	35. - 131.	8313	blank
Anthracene	mg/l	< 0.00046	0.00150	0.00200	75	44. - 120.	8313	blank
Fluoranthene	mg/l	< 0.00015	0.00163	0.00200	82	42. - 118.	8313	blank
Fluorene	mg/l	< 0.00014	0.00152	0.00200	76	34. - 119.	8313	blank
Pyrene	mg/l	< 0.00016	0.00164	0.00200	82	48. - 122.	8313	blank
Benzo(a)anthracene	mg/l	< 0.00008	0.00170	0.00200	85	50. - 117.	8313	blank
Benzo(a)pyrene	mg/l	< 0.00005	0.00117	0.00200	58	41. - 118.	8313	blank
Benzo(b)fluoranthene	mg/l	< 0.00006	0.00170	0.00200	85	48. - 116.	8313	blank
Benzo(k)fluoranthene	mg/l	< 0.00005	0.00173	0.00200	86	48. - 118.	8313	blank
Chrysene	mg/l	< 0.00009	0.00185	0.00200	92	50. - 119.	8313	blank
Dibenzo(a,h)anthracene	mg/l	< 0.00016	0.00207	0.00200	104	26. - 118.	8313	blank
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00014	0.00166	0.00200	83	43. - 113.	8313	blank
Acenaphthylene	mg/l	< 0.00019	0.00159	0.00200	80	32. - 118.	8313	blank
Phenanthrene	mg/l	< 0.00026	0.00159	0.00200	80	48. - 120.	8313	blank
2-Methylnaphthalene	mg/l	< 0.00054	0.00134	0.00200	67	29. - 124.	8313	blank
TPH (Diesel Range)	mg/l	0.068	0.728	1.00	66	35. - 124.	2551	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				99	69 - 132	1427	
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0554	0.0500	111	62 - 146	1509	47359
Benzene	mg/l	< 0.0010	0.0596	0.0500	119	62 - 146	4500	47709
Toluene	mg/l	< 0.0010	0.0573	0.0500	115	68 - 141	1509	47359
Toluene	mg/l	< 0.0010	0.0620	0.0500	124	68 - 141	4500	47709
VOA Surr 1,2-DCA-d4	% Rec				94	73 - 127	1509	
VOA Surr 1,2-DCA-d4	% Rec				91	73 - 127	4500	

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-01
Project Name: EXXONMOBIL 5-0608
Page: 2
Laboratory Receipt Date: 4/ 5/05

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA Surr Toluene-d8	% Rec				101	79 - 113	1509	
VOA Surr Toluene-d8	% Rec				98	79 - 113	4500	
VOA Surr, 4-BFB	% Rec				106	79 - 125	1509	
VOA Surr, 4-BFB	% Rec				104	79 - 125	4500	
VOA Surr, DBFM	% Rec				99	75 - 134	1509	
VOA Surr, DBFM	% Rec				99	75 - 134	4500	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/l	1.10	0.961	13.49	27.	1427
TPH (Diesel Range)	mg/l	0.728	0.707	2.93	36.	2551
Naphthalene	mg/l	0.00144	0.00137	4.98	53.	8313
Acenaphthene	mg/l	0.00153	0.00161	5.10	48.	8313
Anthracene	mg/l	0.00150	0.00179	17.63	47.	8313
Fluoranthene	mg/l	0.00163	0.00166	1.82	44.	8313
Fluorene	mg/l	0.00152	0.00160	5.13	50.	8313
Pyrene	mg/l	0.00164	0.00173	5.34	43.	8313
Benzo(a)anthracene	mg/l	0.00170	0.00171	0.59	42.	8313
Benzo(a)pyrene	mg/l	0.00117	0.00108	8.00	42.	8313
Benzo(b)fluoranthene	mg/l	0.00170	0.00171	0.59	42.	8313
Benzo(k)fluoranthene	mg/l	0.00173	0.00174	0.58	42.	8313
Chrysene	mg/l	0.00185	0.00186	0.54	42.	8313
Dibenzo(a,h)anthracene	mg/l	0.00207	0.00201	2.94	52.	8313
Indeno(1,2,3-cd)pyrene	mg/l	0.00166	0.00171	2.97	43.	8313

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-01
Project Name: EXXONMOBIL 5-0608
Page: 3
Laboratory Receipt Date: 4/ 5/05

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Acenaphthylene	mg/l	0.00159	0.00165	3.70	53.	8313
Phenanthrene	mg/l	0.00159	0.00170	6.69	46.	8313
2-Methylnaphthalene	mg/l	0.00134	0.00139	3.66	50.	8313
BTEX/GRO Surr., a,a,a-TFT	% Recovery		98.			1427
VOA PARAMETERS						
Benzene	mg/l	0.0554	0.0556	0.36	25.	1509
Benzene	mg/l	0.0596	0.0584	2.03	25.	4500
Toluene	mg/l	0.0573	0.0561	2.12	29.	1509
Toluene	mg/l	0.0620	0.0590	4.96	29.	4500
VOA Surr 1,2-DCA-d4	% Rec		94.			1509
VOA Surr 1,2-DCA-d4	% Rec		93.			4500
VOA Surr Toluene-d8	% Rec		100.			1509
VOA Surr Toluene-d8	% Rec		100.			4500
VOA Surr, 4-BFB	% Rec		107.			1509
VOA Surr, 4-BFB	% Rec		104.			4500
VOA Surr, DBFM	% Rec		101.			1509
VOA Surr, DBFM	% Rec		100.			4500

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Gasoline Range)	mg/l	1.00	1.10	110	64 - 130	1427
TPH (Gasoline Range)	mg/l	1.00	0.956	96	64 - 130	5280

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-01
Project Name: EXXONMOBIL 5-0608
Page: 4
Laboratory Receipt Date: 4/ 5/05

BTEX/GRO Surr., a,a,a-TFT	% Recovery			98	69 - 132	1427
BTEX/GRO Surr., a,a,a-TFT	% Recovery			96	69 - 132	5280
UST PARAMETERS						
Naphthalene	mg/l	0.00200	0.00140	70	34 - 115	8313
Acenaphthene	mg/l	0.00200	0.00165	82	36 - 129	8313
Anthracene	mg/l	0.00200	0.00177	88	44 - 120	8313
Fluoranthene	mg/l	0.00200	0.00170	85	45 - 115	8313
Fluorene	mg/l	0.00200	0.00161	80	37 - 115	8313
Pyrene	mg/l	0.00200	0.00172	86	48 - 122	8313
Benzo(a)anthracene	mg/l	0.00200	0.00173	86	50 - 117	8313
Benzo(a)pyrene	mg/l	0.00200	0.00117	58	41 - 118	8313
Benzo(b)fluoranthene	mg/l	0.00200	0.00174	87	63 - 105	8313
Benzo(k)fluoranthene	mg/l	0.00200	0.00175	88	48 - 118	8313
Chrysene	mg/l	0.00200	0.00189	94	50 - 119	8313
Dibenzo(a,h)anthracene	mg/l	0.00200	0.00220	110	27 - 118	8313
Indeno(1,2,3-cd)pyrene	mg/l	0.00200	0.00175	88	43 - 113	8313
Acenaphthylene	mg/l	0.00200	0.00178	89	46 - 111	8313
Phenanthrene	mg/l	0.00200	0.00167	84	48 - 120	8313
2-Methylnaphthalene	mg/l	0.00200	0.00144	72	33 - 122	8313
TPH (Diesel Range)	mg/l	1.00	0.752	75	41 - 120	2551
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0526	105	76 - 127	1509
Benzene	mg/l	0.0500	0.0540	108	76 - 127	4500
Ethylbenzene	mg/l	0.0500	0.0552	110	80 - 124	1509
Ethylbenzene	mg/l	0.0500	0.0550	110	80 - 124	4500
Toluene	mg/l	0.0500	0.0531	106	79 - 124	1509
Toluene	mg/l	0.0500	0.0533	107	79 - 124	4500
Xylenes (Total)	mg/l	0.150	0.167	111	80 - 125	1509
Xylenes (Total)	mg/l	0.150	0.166	111	80 - 125	4500
Methyl-t-butyl ether	mg/l	0.0500	0.0534	107	66 - 136	1509
Methyl-t-butyl ether	mg/l	0.0500	0.0531	106	66 - 136	4500

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-01
Project Name: EXXONMOBIL 5-0608
Page: 5
Laboratory Receipt Date: 4/ 5/05

VOA Surr 1,2-DCA-d4	% Rec	96	73 - 127	1509
VOA Surr 1,2-DCA-d4	% Rec	93	73 - 127	4500
VOA Surr Toluene-d8	% Rec	101	79 - 113	1509
VOA Surr Toluene-d8	% Rec	102	79 - 113	4500
VOA Surr, 4-BFB	% Rec	103	79 - 125	1509
VOA Surr, 4-BFB	% Rec	104	79 - 125	4500
VOA Surr, DBFM	% Rec	100	75 - 134	1509
VOA Surr, DBFM	% Rec	101	75 - 134	4500

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TPH (Gasoline Range)	< 0.0550	mg/l	1427	4/ 7/05	13:40
TPH (Gasoline Range)	< 0.0550	mg/l	5280	4/ 8/05	21:48
TPH (Diesel Range)	0.068	mg/l	2551	4/ 7/05	1:22
Naphthalene	< 0.00039	mg/l	8313	4/ 7/05	15:54
Acenaphthene	< 0.00042	mg/l	8313	4/ 7/05	15:54
Anthracene	< 0.00046	mg/l	8313	4/ 7/05	15:54
Fluoranthene	< 0.00015	mg/l	8313	4/ 7/05	15:54
Fluorene	< 0.00014	mg/l	8313	4/ 7/05	15:54
Pyrene	< 0.00016	mg/l	8313	4/ 7/05	15:54
Benzo(a)anthracene	< 0.00008	mg/l	8313	4/ 7/05	15:54
Benzo(a)pyrene	< 0.00005	mg/l	8313	4/ 7/05	15:54

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-01
Project Name: EXXONMOBIL 5-0608
Page: 6
Laboratory Receipt Date: 4/ 5/05

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo(b)fluoranthene	< 0.00006	mg/l	8313	4/ 7/05	15:54
Benzo(k)fluoranthene	< 0.00005	mg/l	8313	4/ 7/05	15:54
Chrysene	< 0.00009	mg/l	8313	4/ 7/05	15:54
Dibenzo(a,h)anthracene	< 0.00016	mg/l	8313	4/ 7/05	15:54
Indeno(1,2,3-cd)pyrene	< 0.00014	mg/l	8313	4/ 7/05	15:54
Acenaphthylene	< 0.00019	mg/l	8313	4/ 7/05	15:54
Phenanthrene	< 0.00026	mg/l	8313	4/ 7/05	15:54
2-Methylnaphthalene	< 0.00054	mg/l	8313	4/ 7/05	15:54
TPH Hi Surr., o-Terphenyl	74.	% Recovery	2551	4/ 7/05	1:22
BTEX/GRO Surr., a,a,a-TFT	92.	% Recovery	1427	4/ 7/05	13:40
BTEX/GRO Surr., a,a,a-TFT	96.	% Recovery	5280	4/ 8/05	21:48
PAH Surrogate	91.	% Rec	8313	4/ 7/05	15:54
VOA PARAMETERS					
Benzene	< 0.0003	mg/l	1509	4/ 5/05	14:14
Benzene	< 0.0003	mg/l	4500	4/ 6/05	13:54
Ethylbenzene	< 0.0002	mg/l	1509	4/ 5/05	14:14
Ethylbenzene	< 0.0002	mg/l	4500	4/ 6/05	13:54
Toluene	< 0.0002	mg/l	1509	4/ 5/05	14:14
Toluene	< 0.0002	mg/l	4500	4/ 6/05	13:54
Xylenes (Total)	< 0.0006	mg/l	1509	4/ 5/05	14:14
Xylenes (Total)	< 0.0006	mg/l	4500	4/ 6/05	13:54
Methyl-t-butyl ether	< 0.0002	mg/l	1509	4/ 5/05	14:14
Methyl-t-butyl ether	< 0.0002	mg/l	4500	4/ 6/05	13:54
VOA Surr 1,2-DCA-d4	95.	% Rec	1509	4/ 5/05	14:14
VOA Surr 1,2-DCA-d4	96.	% Rec	4500	4/ 6/05	13:54
VOA Surr Toluene-d8	102.	% Rec	1509	4/ 5/05	14:14
VOA Surr Toluene-d8	102.	% Rec	4500	4/ 6/05	13:54
VOA Surr, 4-BFB	111.	% Rec	1509	4/ 5/05	14:14
VOA Surr, 4-BFB	112.	% Rec	4500	4/ 6/05	13:54
VOA Surr, DBFM	99.	% Rec	1509	4/ 5/05	14:14
VOA Surr, DBFM	96.	% Rec	4500	4/ 6/05	13:54

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-01
Project Name: EXXONMOBIL 5-0608
Page: 7
Laboratory Receipt Date: 4/ 5/05

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 411649

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

PROJECT QUALITY CONTROL DATA
Project Number: 25881-01
Project Name: EXXONMOBIL 5-0608
Page: 6
Laboratory Receipt Date: 4/ 5/05

****
****
****
****

The previous group of samples has a request for additional testing based upon these results. See the chain of custody!

Do not destroy this sheet until login has requested the appropriate tests.

Analyze PAH's by 8310 on samples

47531
47532
47533
~~47534~~

tag to these #'s.
Samples have already been extracted.

dlk 4-11-05

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM **BC#** 411649

Client Name : CRA

Cooler Received/Opened On: 4/5/05 **Accessioned By:** Mark Beasley

M. Beasley
Log-in Personnel Signature

1. **Temperature of Cooler when triaged:** 4.2 **Degrees Celsius**
2. **Were custody seals on outside of cooler?**..... (YES)..NO....NA
   a. **If yes, how many and where:** 1 Front
3. **Were custody seals on containers ?**..... (NO)..YES...NA
4. **Were the seals intact, signed, and dated correctly?**..... (YES)..NO...NA
5. **Were custody papers inside cooler?**..... (YES)..NO...NA
6. **Were custody papers properly filled out (ink, signed, etc)?**..... (YES)..NO...NA
7. **Did you sign the custody papers in the appropriate place?**..... (YES)..NO...NA
8. **What kind of packing material used?** (Bubblewrap) **Peanuts Vermiculite Other None**
9. **Cooling process:** (Ice) **Ice-pack Ice (direct contact) Dry ice Other None**
10. **Did all containers arrive in good condition (unbroken)?**..... YES..(NO)...NA
11. **Were all container labels complete (#, date, signed, pres., etc)?**..... (YES)..NO...NA
12. **Did all container labels and tags agree with custody papers?**..... (YES)...NO...NA
13. **Were correct containers used for the analysis requested?**..... (YES)..NO...NA
14. a. **Were VOA vials received?**..... (YES)..NO...NA
    b. **Was there any observable head space present in any VOA vial?**..... (NO)..YES...NA
15. **Was sufficient amount of sample sent in each container?**..... (YES)..NO...NA
16. **Were correct preservatives used?**..... (YES)..NO...NA
    If not, record standard ID of preservative used here_____
17. **Was residual chlorine present?**..... (NO)..YES...NA
18. **Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:**

UPS	Velocity	DHL	Route	Off-street	(Fedex)	Misc.
5126		5148	5137			

19. **If a Non-Conformance exists, see attached or comments below:**

MW-1 → 1 NP + 1 HCL liter BFS
MW-2 → 1 HCL liter BFS

CHAIN OF CUSTODY RECORD

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: CRA
Consultant Project Number: 25881-01
Address: 4915 S. Sherwood Forest Blvd.
Report To: Seth Domangue
City/State/Zip: Baton Rouge, LA
Invoice To: Dale Gomm
Phone Number: (225) 292-9007
Fax No.: (225) 292-3614
Account #: 6976
ExxonMobil Project Mgr: Dale L. Gomm
Exxon PO#:
Facility ID # 5-0608
Sampler Name: (Print) Trey Davis
Site Address 4555 Essen Ln.
Sampler Signature: Trey Davis
City, State Zip Baton Rouge, Louisiana

411649

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	Preservative: HNO_3 (Red Label)	Preservative: HCl (Blue Label)	Preservative: NaOH (Orange Label)	Preservative: H_2SO_4 Plastic (Yellow Label)	Preservative: H_2SO_4 Glass(Yellow Label)	Preservative: None (Black Label)	Preservative: Other:	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify): Deionized Water	Analyze For: BTEX/MTBE (8260B)	Analyze For: TPH-GRO (8015)	Analyze For: TPH-DRO (8015)	Analyze For: PAH (8310)	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results
MW-1 47531 TD	04/04/05	1100	9	X			X		X						X						X	X	X	*			X	
MW-2 32 TD	04/04/05	1130	9	X			X		X						X						X	X	X	*			X	
MW-3 33 TD	04/04/05	1115	9	X			X		X						X						X	X	X	*			X	
WR-1 34 TD	04/04/05	—	7	X			X		X						X						X	X	X				X	
WE-1 35 TD	04/04/05	1040	7	X			X		X								X				X	X	X				X	
WF-1 36 TD	04/04/05	1030	5	X			X		X								X				X	X					X	
Trip Blank 47537	2/18/05	—	1	X			X		X								X				X						X	

Special Instructions: * Only run PAH if TPH-DRO result is greater than 0.15 mg/L.

Fed Ex Airbill No.

Laboratory Comments:
Temperature Upon Receipt: 4.2
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
Trey Davis	4/4/05	1430	Fed Ex Courier		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				4/5/05	7:45

Page 1 of 1

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

4/13/05

CONESTOGA ROVERS & ASSOC. 10318
SETH DOMANGUE
4915 S. SHERWOOD FOREST BLVD.
BATON ROUGE, LA 70816

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 5-0608
Project Number: 25881-01.
Laboratory Project Number: 411649.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Collection Date
MW-1	05-A47531	4/ 4/05
MW-2	05-A47532	4/ 4/05
MW-3	05-A47533	4/ 4/05
WR-1	05-A47534	4/ 4/05
WE-1	05-A47535	4/ 4/05
WF-1	05-A47536	4/ 4/05
Trip Blank	05-A47537	

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne L Connor Report Date: 4/11/05

Johnny A. Mitchell, Laboratory Director
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Senior Project Manager
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services
Gail A. Lage, Senior Project Manager
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Senior Project Manag

Laboratory Certification Number: 01945

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.