

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address: _____
Address: 200 ENERGY COURT, FARMINGTON, NM 87410
Facility or well name: GCU #230E API #: 30-045- 26010 U/L or Qtr/Qtr O Sec 23 T 28N R 12W
County: SAN JUAN Latitude 36.64351 Longitude 108.07765 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank	RCVD APR 5 '07 OIL CONS. DIV. DIST. 3	
Type: Drilling ☐ Production ☒ Disposal ☐ <u>DRIP</u> Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ <u>FIBERGLASS TANK</u> Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: <u>N/A</u> Construction material: <u>N/A</u> Double-walled, with leak detection? Yes ☐ If not, explain why not _____		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)	
	50 feet or more, but less than 100 feet	(10 points)	<u>0</u>
	100 feet or more	(0 points)	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)	
	No	(0 points)	<u>0</u>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	
	200 feet or more, but less than 1000 feet	(10 points)	<u>0</u>
	1000 feet or more	(0 points)	
Ranking Score (Total Points)			<u>0</u>

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5)

Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments PIT LOCATED APPROXIMATELY 180 FT. S60E FROM WELL HEAD.

PIT EXCAVATION: WIDTH N/A ft., LENGTH N/A ft., DEPTH N/A ft.

PIT REMEDIATION: CLOSE AS IS: ☒, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☐ (explain)

Cubic yards: N/A

BEDROCK BOTTOM.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an alternative OCD-approved plan ☒.

Date: 05/17/06

Printed Name/Title Jeff Blagg - P.E. # 11607

Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Deputy Oil & Gas Inspector,
District #3

Approval:

Printed Name/Title _____

Signature _____

Date: AUG 06 2007

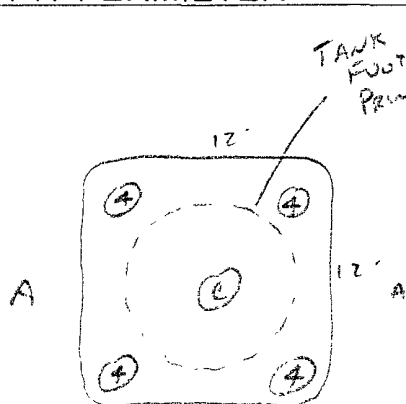
CLIENT: BP
BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199
LOCATION NO: 80091COCR NO: 15967**FIELD REPORT: PIT CLOSURE VERIFICATION**PAGE No: 1 of 1
LOCATION: NAME: GCU WELL #: 230E TYPE: DRIP
QUAD/UNIT: 0 SEC: 23 TWP: 29N RNG: 12W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1070 FSL x 1630 FEL WISE CONTRACTOR: PXS (TRENWIE)

DATE STARTED: 5/11/06
DATE FINISHED: 5/11/06
ENVIRONMENTAL SPECIALIST: JCBEXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: 0DISPOSAL FACILITY: NA REMEDIATION METHOD: CLOSE AS ISLAND USE: RANGE - NAPI LEASE: NM078391C/NM078391B FORMATION: GPFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 180 FT. S60E FROM WELLHEAD.DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM**SOIL AND EXCAVATION DESCRIPTION:**
OVM CALIB. READ = 52.1 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 0945 am/pm DATE 5/11
SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK SANDSTONE @ 8'SOIL COLOR: Yellow TanCOHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSEPLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTICDENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARDMOISTURE DRY (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION -HC ODOR DETECTED: YES / NO EXPLANATION -SAMPLE TYPE GRAB / COMPOSITE - # OF PTS. 1

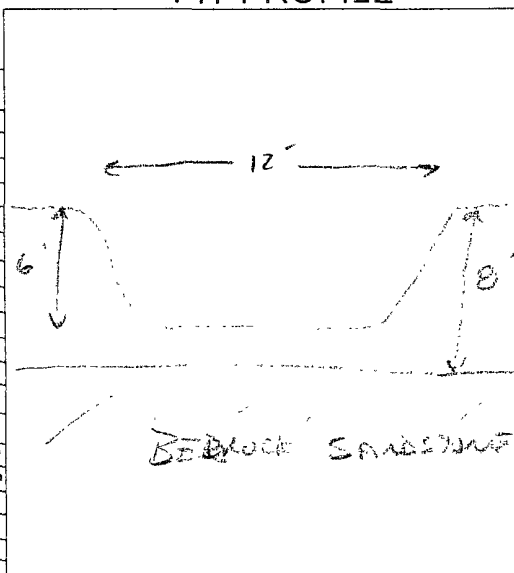
ADDITIONAL COMMENTS:

12' x 12' x 6' Deep Pit w/ 95 BBL.BEDROCK
BottomFiber-glass Tank USE BACKHOE TO ROLL tank & Sample.
No evidence of contaminationCLOSED**SCALE**

0 1 FT

PIT PERIMETER**FIELD 418.1 CALCULATIONS**

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PROFILE**OVM READING**

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
C @ 8'	0.0
4 ft @ 8'	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
C @ 8'	T/B/C1	1010
4 ft @ 8'	"	1020

PASSED
PD = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
TH = TEST HOLE, ~ = APPROX., T.B. = TANK BOTTOM

TRAVEL NOTES:

CALLOUT: _____ ONSITE: 5/11/06

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	4 - Pt @ 8'	Date Reported:	05-16-06
Laboratory Number:	37118	Date Sampled:	05-11-06
Chain of Custody No:	15967	Date Received:	05-12-06
Sample Matrix:	Soil	Date Extracted:	05-15-06
Preservative:	Cool	Date Analyzed:	05-15-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.4	0.2

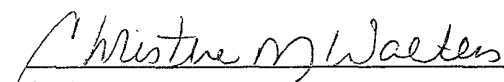
ND - Parameter not detected at the stated detection limit.

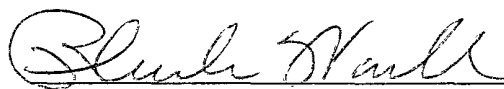
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **GCU 203E Drip Pit.**

230E

715 9/19/06


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	4 - Pt @ 8'	Date Reported:	05-16-06
Laboratory Number:	37118	Date Sampled:	05-11-06
Chain of Custody:	15967	Date Received:	05-12-06
Sample Matrix:	Soil	Date Analyzed:	05-15-06
Preservative:	Cool	Date Extracted:	05-15-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	8.4	1.8
Toluene	116	1.7
Ethylbenzene	44.8	1.5
p,m-Xylene	232	2.2
o-Xylene	77.2	1.0
Total BTEX	478	

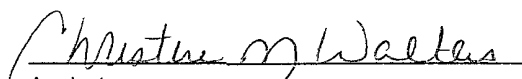
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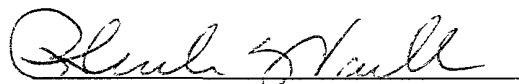
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: GCU 230E Drip Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	4 - Pt @ 8'	Date Reported:	05-15-06
Lab ID#:	37118	Date Sampled:	05-11-06
Sample Matrix:	Soil	Date Received:	05-12-06
Preservative:	Cool	Date Analyzed:	05-15-06
Condition:	Cool and Intact	Chain of Custody:	15967

Parameter	Concentration (mg/Kg)
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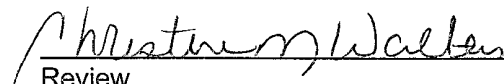
Total Chloride

42.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: GCU 230E Drip Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 8'	Date Reported:	05-16-06
Laboratory Number:	37117	Date Sampled:	05-11-06
Chain of Custody No:	15967	Date Received:	05-12-06
Sample Matrix:	Soil	Date Extracted:	05-15-06
Preservative:	Cool	Date Analyzed:	05-15-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

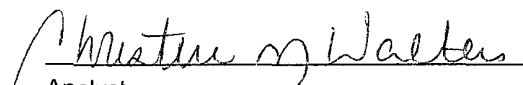
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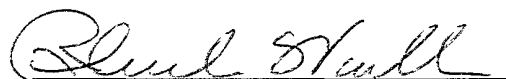
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **GCU 203E Drip Pit.**

none

9/19/06


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 8'	Date Reported:	05-16-06
Laboratory Number:	37117	Date Sampled:	05-11-06
Chain of Custody:	15967	Date Received:	05-12-06
Sample Matrix:	Soil	Date Analyzed:	05-15-06
Preservative:	Cool	Date Extracted:	05-15-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	31.3	1.7
Ethylbenzene	16.2	1.5
p,m-Xylene	46.8	2.2
o-Xylene	11.6	1.0
Total BTEX	106	

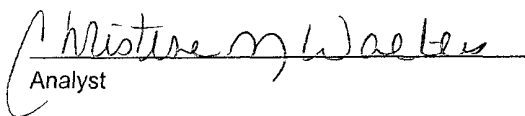
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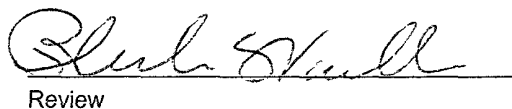
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: GCU 230E Drip Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

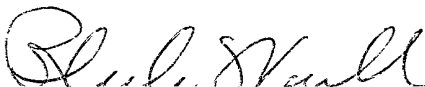
Chloride

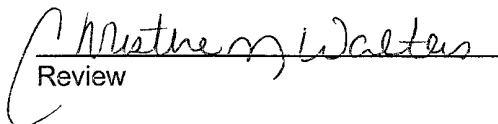
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 8'	Date Reported:	05-15-06
Lab ID#:	37117	Date Sampled:	05-11-06
Sample Matrix:	Soil	Date Received:	05-12-06
Preservative:	Cool	Date Analyzed:	05-15-06
Condition:	Cool and Intact	Chain of Custody:	15967

Parameter	Concentration (mg/Kg)
Total Chloride	42.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: GCU 230E Drip Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

15967

Client / Project Name <i>Dana/BP</i>			Project Location <i>GCU 230E</i>		ANALYSIS / PARAMETERS								
Sampler: <i>C.C. - 6699</i>			Client No. <i>94034-010</i>		No. of Containers	TPH	BTEX	CL-				Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
<i>CCG'</i>	<i>5/1/06</i>	<i>1010</i>	<i>37117</i>	<i>SOIL</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>DEEP RT</i>	
<i>4-PECG'</i>	<i>"</i>	<i>1020</i>	<i>37118</i>	<i>"</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>"</i>	
Relinquished by: (Signature) <i>G.C. 6699</i>			Date <i>5/1/06</i>	Time <i>0727</i>	Received by: (Signature) <i>Blair Hall</i>					Date <i>5/12/06</i>	Time <i>0727</i>		
Relinquished by: (Signature)					Received by: (Signature)								
Relinquished by: (Signature)					Received by: (Signature)								
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Sample Receipt			
											Y	N	N/A
										Received Intact	☒		
										Cool - Ice/Blue Ice	☒		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-15-06 QA/QC	Date Reported:	05-16-06
Laboratory Number:	37104	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-15-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	1.9710E+003	1.9729E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	2.0416E+003	2.0457E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

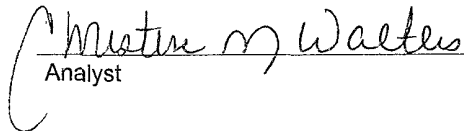
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	548	545	0.6%	0 - 30%
Diesel Range C10 - C28	859	854	0.6%	0 - 30%

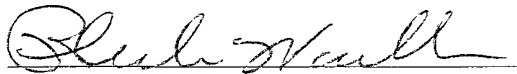
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	548	250	796	99.7%	75 - 125%
Diesel Range C10 - C28	859	250	1,110	100.1%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 37104 - 37106, 37117 - 37120, 37123 - 37125.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-15-BTEX QA/QC	Date Reported:	05-16-06
Laboratory Number:	37104	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-15-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	5.8719E+007	5.8836E+007	0.2%	ND	0.2
Toluene	7.7866E+007	7.8022E+007	0.2%	ND	0.2
Ethylbenzene	4.5476E+007	4.5567E+007	0.2%	ND	0.2
p,m-Xylene	1.5203E+008	1.5234E+008	0.2%	ND	0.2
o-Xylene	7.6123E+007	7.6275E+007	0.2%	ND	0.1

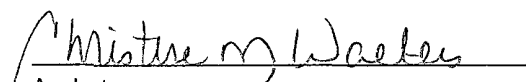
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect Limit
Benzene	109	109	0.0%	0 - 30%	1.8
Toluene	491	486	1.0%	0 - 30%	1.7
Ethylbenzene	2,380	2,360	0.8%	0 - 30%	1.5
p,m-Xylene	11,200	11,200	0.0%	0 - 30%	2.2
o-Xylene	1,760	1,750	0.6%	0 - 30%	1.0

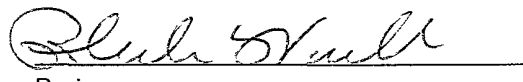
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	109	50.0	159	99.9%	39 - 150
Toluene	491	50.0	540	99.8%	46 - 148
Ethylbenzene	2,380	50.0	2,430	100.0%	32 - 160
p,m-Xylene	11,200	100	11,300	100.0%	46 - 148
o-Xylene	1,760	50.0	1,810	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 37104 - 37106, 37117 - 37118, 37120 and 37126.


Analyst


Review