

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

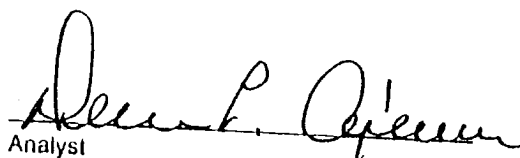
Client:	Blagg / Mallon	Project #:	403410
Sample ID:	Stockpile, 5 Pt. Comp.	Date Reported:	08-02-99
Laboratory Number:	F790	Date Sampled:	07-30-99
Chain of Custody No:	7253	Date Received:	07-30-99
Sample Matrix:	Soil	Date Extracted:	07-30-99
Preservative:	Cool	Date Analyzed:	08-02-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

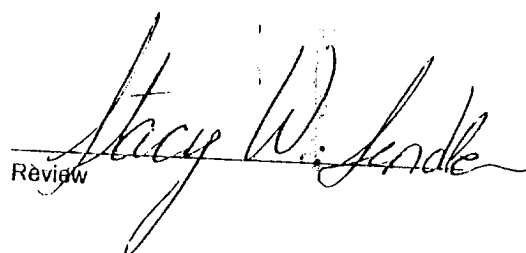
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	109	0.2
Diesel Range (C10 - C28)	117	0.1
Total Petroleum Hydrocarbons	226	0.2

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: Jicarilla SWD.


Analyst


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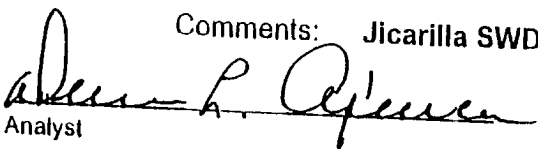
Client: Blagg / Mallon
 Sample ID: Stockpile, 5 - Pt. Comp.
 Laboratory Number: F790
 Chain of Custody: 7253
 Sample Matrix: Soil
 Preservative: Cool
 Condition: Cool & Intact

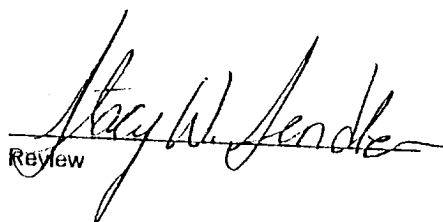
Project #: 403410
 Date Reported: 08-02-99
 Date Sampled: 07-30-99
 Date Received: 07-30-99
 Date Extracted: 08-02-99
 Date Analyzed: 08-02-99

Parameter	Analytical Result	Units	Units
pH	7.97	s.u.	
Conductivity @ 25° C	286	umhos/cm	
Total Dissolved Solids @ 180C	150	mg/L	
Total Dissolved Solids (Calc)	146	mg/L	
SAR	1.2	ratio	
Total Alkalinity as CaCO3	20.4	mg/L	
Total Hardness as CaCO3	60.0	mg/L	
Bicarbonate as HCO3	20.4	mg/L	0.33 meq/L
Carbonate as CO3	<1	mg/L	0.00 meq/L
Hydroxide as OH	<1	mg/L	0.00 meq/L
Nitrate Nitrogen	0.3	mg/L	0.00 meq/L
Nitrite Nitrogen	0.004	mg/L	0.00 meq/L
Chloride	12.0	mg/L	0.00 meq/L
Fluoride	0.20	mg/L	0.34 meq/L
Phosphate	5.5	mg/L	0.01 meq/L
Sulfate	66.0	mg/L	0.17 meq/L
Iron	0.046	mg/L	1.37 meq/L
Calcium	24.0	mg/L	
Magnesium	<0.01	mg/L	1.20 meq/L
Potassium	4.3	mg/L	0.00 meq/L
Sodium	21.3	mg/L	0.11 meq/L
Cations			0.93 meq/L
Anions			2.23 meq/L
Cation/Anion Difference			2.24 meq/L
			0.09%

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 Water And Waste Water", 18th ed., 1992.

Comments: Jicarilla SWD.


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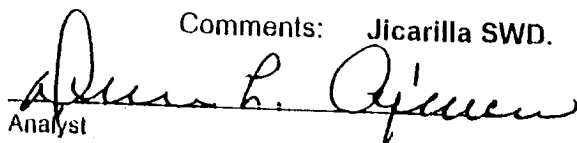

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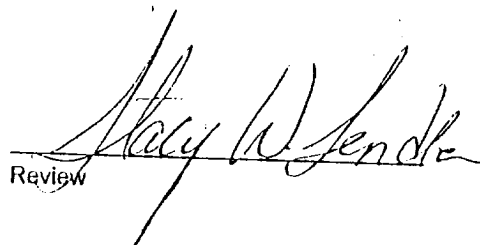
Client:	Blagg / Mallon	Project #:	403410
Sample ID:	Background, 5 - Pt. Comp.	Date Reported:	08-02-99
Laboratory Number:	F791	Date Sampled:	07-30-99
Chain of Custody:	7253	Date Received:	07-30-99
Sample Matrix:	Soil	Date Extracted:	08-02-99
Preservative:	Cool	Date Analyzed:	08-02-99
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units
pH	8.44	s.u.	
Conductivity @ 25° C	107	umhos/cm	
Total Dissolved Solids @ 180C	55.0	mg/L	
Total Dissolved Solids (Calc)	52.3	mg/L	
SAR	1.8	ratio	
Total Alkalinity as CaCO3	8.0	mg/L	
Total Hardness as CaCO3	12.0	mg/L	
Bicarbonate as HCO3	8.0	mg/L	0.13 meq/L
Carbonate as CO3	<1	mg/L	0.00 meq/L
Hydroxide as OH	<1	mg/L	0.00 meq/L
Nitrate Nitrogen	2.4	mg/L	0.04 meq/L
Nitrite Nitrogen	0.007	mg/L	0.00 meq/L
Chloride	2.8	mg/L	0.08 meq/L
Fluoride	0.19	mg/L	0.01 meq/L
Phosphate	13.6	mg/L	0.43 meq/L
Sulfate	8.8	mg/L	0.18 meq/L
Iron	0.220	mg/L	
Calcium	4.8	mg/L	0.24 meq/L
Magnesium	<0.01	mg/L	0.00 meq/L
Potassium	0.6	mg/L	0.02 meq/L
Sodium	14.2	mg/L	0.62 meq/L
Cations			0.87 meq/L
Anions			0.87 meq/L
Cation/Anion Difference			0.09%

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: Jicarilla SWD.

Analyst: 

Review: 

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-02-TPH QA/QC	Date Reported:	08-02-99
Laboratory Number:	F790	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-02-99
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	06-17-99	1.2099E-001	1.2089E-001	0.08%	0 - 15%
Diesel Range C10 - C28	06-17-99	4.3747E-002	4.3677E-002	0.16%	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

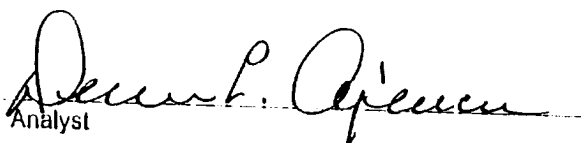
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	109	108	0.4%	0 - 30%
Diesel Range C10 - C28	117	117	0.0%	0 - 30%

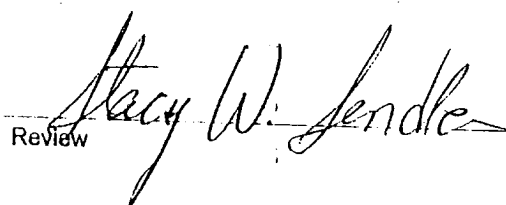
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	109	250	358	100%	75 - 125%
Diesel Range C10 - C28	117	250	367	100%	75 - 125%

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 sample F790.


Analyst


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