

# MTNT Development, Inc.

730 I Street, Suite 100  
Anchorage, Alaska 99501  
Tel: (907) 563-1566 Fax: (907) 563-1567



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APR 18 2003

DEPT. OF ENVIRONMENTAL CONSERVATION

## Site Investigation

## BJ Fuels

Lot 2, D.W. Sprague Subdivision,  
Section 18, T33N, R33W Seward Meridian,

McGrath, Alaska

ADEC database record key 1999250120201

April 17, 2003

# MTNT Development, Inc.

730 I Street, Suite 100  
Anchorage, Alaska 99501  
Tel: (907) 563-1566 Fax: (907) 563-1567



April 17, 2003

Beatrice Egbejimba  
Alaska Department of Environmental Conservation  
555 Cordova Street  
Anchorage, AK 99501-2617

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APR 18 2003

DEPT. OF ENVIRONMENTAL CONSERVATION

Re: Draft Report, Field Investigation, BJ Fuels, McGrath, ADEC database record key  
1999250120201

Dear Ms: Egbejimba:

This report is to present the results of the field investigation conducted September 16, 2002 in accordance with the approved work plan for this site.

## Legal Description

The subject lot that was the source of the excavated soil is located as Lot 2, D.W. Sprague Subdivision, Section 18, T33N, R33W Seward Meridian, McGrath, Alaska. Soils are stored at the former Avgas AST location, in Lot 7, D.W. Sprague Subdivision, Section 18, T33N, R33W Seward Meridian, McGrath, Alaska.

## Investigation and Results

The attached Figure 1 shows five areas of field investigation. Table 1 is the summary of the results of field screening and Table 2 shows the summary of the laboratory results. The areas investigated were:

Area 1 – Quick connect and valves;

Area 2 – Excavation;

Area 3 – Former Surface Line, AvGas to Quick-Connect; and

Area 5 – Soil Stockpile.

Area 4 – Former AST Location was not investigated because the soil stockpile is positioned directly over the area.

The soil stockpile is lined with a 20mil+ liner and is located on top of the former location of the AvGas AST noted in other drawings in your file. The AST was removed from service at that location and moved off site in August of 1999. The estimated volume of the excavation is 35 CY and the stockpile is probably around 38 CY with fluff.

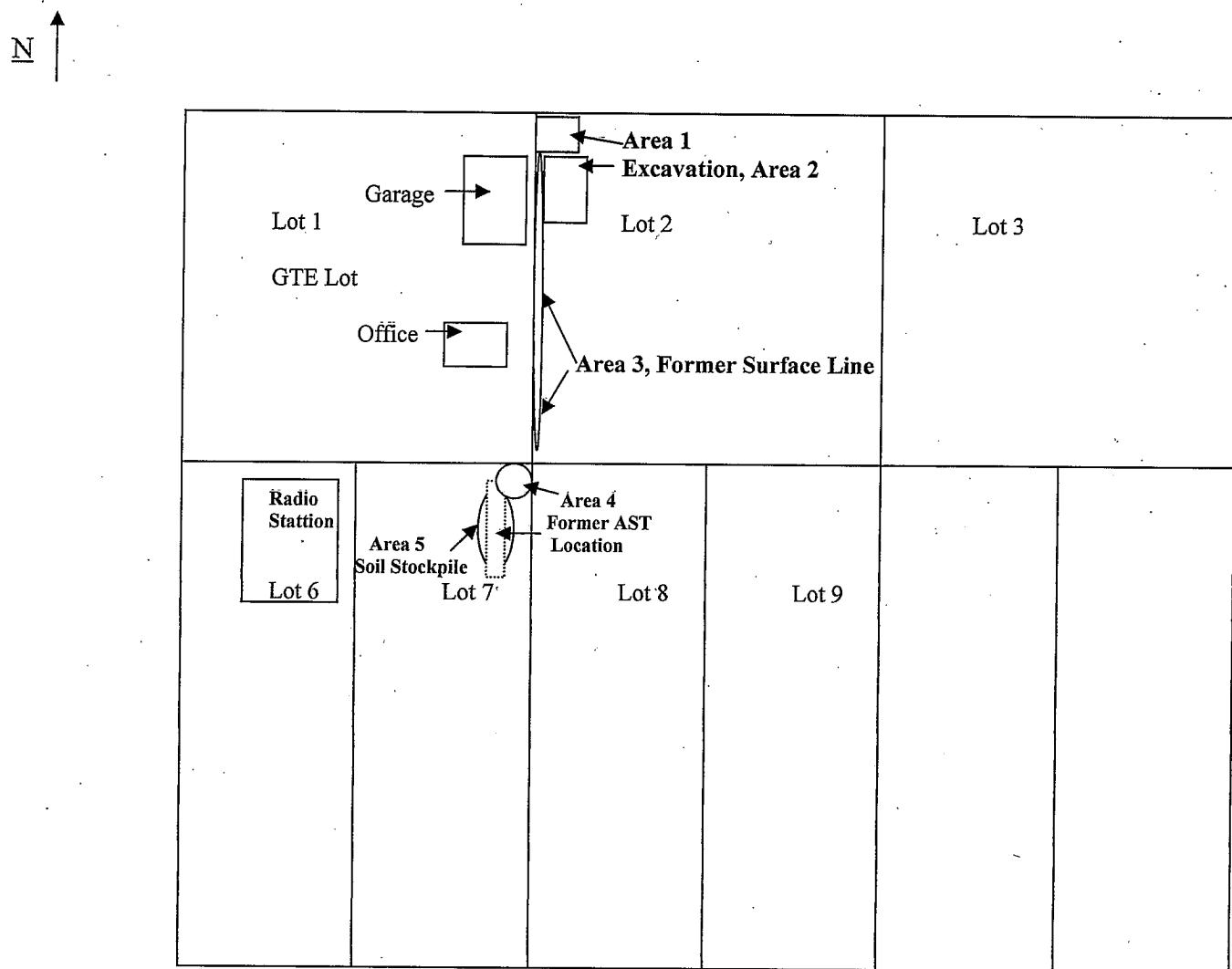
# MTNT Development, Inc.

All laboratory samples were submitted to a certified laboratory and analyzed for BTEX (8021M), GRO AK 101, DRO AK102 and RRO AK103. Field Screening was performed using the PID and FID and ziplock bag headspace screening method. All sampling and field work was conducted by Daniel J. Graham, an ADEC qualified, third party independent sampler.

Upon completion of the field work, the stockpile contamination levels were low and no cover was deemed immediately necessary.

**Figure 1**

**Subject Area, Lot 2, & 7, D.W. Sprague Subdivision, Section 18, T33N, R33W Seward Meridian, McGrath, Alaska.**



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**Table 1**  
**BJ Fuels Field Headspace Screening**  
(all results in ppm air)

Location	Area	Depth BGS ft	PID	FID	Background			Depth BGS ft	PID	FID	Background		
			ppm	ppm	FID	Location	Area		ppm	ppm	FID		
1-1	1	1	5.4	9.3	3.5	1-27	2	3	1.3	6.6	4.9		
1-2	1	2.25	5.5	8.6		1-28	2	0.5	2.4	3.7			
1-3	1	0.5	4.9	9.1		1-29	2	0.5	2	7.8			
1-4	1	0.5	5.8	10.2		1-30	2	0.5	18	34	Dupl of 16		
1-5	1	2	2255	4400		1-31	2	3	2	5.8	Dupl of 27		
1-6	1	2	4.7	8.2		1-32	3	0.5	3.6	8.1			
1-7	1	0.5	112	455	4.2	1-33	3	0.5	2.8	7.7	5.1		
1-8	1	0.5	29.1	103		1-34	3	0.5	6	14			
1-9	1	1	2010	3756		1-35	3	0.5	2.1	5.2			
1-10	1	1	4.1	6.6		1-36	3	0.5	2.8	7.2			
1-11	2	0.5	1268	2711		1-37	3	0.5	1.7	4.8			
1-12	2	0.5	733	1668		1-38	3	0.5	5.4	15			
1-13	2	0.5	215	591	5.5	1-39	3	0.5	3.2	6.7	3.7		
1-14	2	0.5	2016	3892		1-40	3	0.5	1.9	3.8			
1-15	2	0.5	69	210		1-41	3	0.5	5	11			
1-16	2	0.5	17	28		1-42	5	1	26.6	41			
1-17	2	0.5	35	88		1-43	5	1	7.9	22			
1-18	2	0.5	5.9	8.4		1-44	5	1	5.5	13			
1-19	2	0.5	9.5	16.2		1-45	5	1	6.9	17	3.9		
1-20	2	0.5	5.2	7.7	5.1	1-46	5	1	16.9	25			
1-21	2	0.5	7.8	9		1-47	5	1	4.4	6.6			
1-22	2	0.5	3.1	4.5		1-48	5	1	7.2	13			
1-23	2	0.5	1.6	4.5		1-49	5	1	5.3	13			
1-24	2	0.5	1.7	4.9		1-50	5	1	3.6	4.8			
1-25	2	2	2	6.1		1-51	5	1	1.7	4.8	3.9		
1-26	2	2.5	2.8	7.3									

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**Table 2 - Laboratory Analysis Results Summary, BJ Fuels, McGrath**  
 (in mg/kg unless otherwise noted)

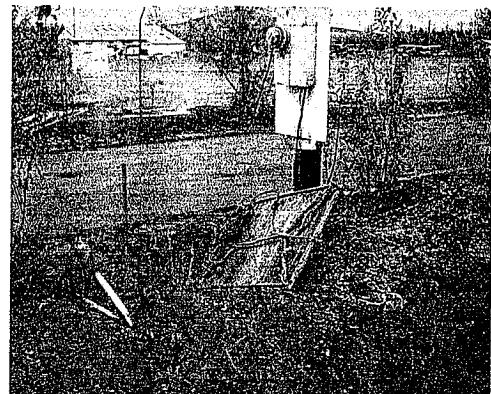
Sample ID	Depth	GRO	Benzene	Toluene	Ethyl-benzene	Total xylenes	DRO	RRO
1-5	2.0	354	0.355	5.08	0.761	72.6	269	249
1-6	2.0	ND	ND	ND	ND	0.149	168	657
1-7	0.5	30.6	ND	ND	0.09	0.703	2480	450
1-9	1.0	1600	0.505	2.93	1.72	459	1340	597
1-14	0.5	78.5	0.118	2.5	1.04	18.08	75.3	28
1-16	0.5	ND	0.0166	0.0917	ND	0.277	ND	29.6
1-20	0.5	ND	ND	ND	ND	0.104	ND	55.5
1-22	0.5	ND	ND	ND	ND	ND	ND	26.6
1-25	2.0	ND	ND	ND	ND	ND	ND	33.9
1-26	2.5	ND	ND	ND	ND	ND	69.9	326
1-27	3.0	ND	ND	ND	ND	ND	61.1	72.7
1-30	0.5	ND	ND	ND	ND	0.0907	ND	23.5
1-31	3.0	ND	ND	ND	ND	ND	43.8	69.8
1-32	0.5	ND	ND	ND	ND	ND	ND	122
1-34	0.5	ND	ND	ND	ND	ND	30.5	115
1-37	0.5	ND	ND	ND	ND	ND	ND	47.1
1-41	0.5	ND	ND	ND	ND	ND	ND	53.1
1-42	1.0	ND	ND	ND	ND	ND	ND	133
1-46	1.0	ND	ND	ND	ND	ND	ND	186
1-51	1.0	ND	ND	ND	ND	0.259	153	193

## Area 1 – Valves and Joints – Ten field screening and four lab samples.

Figure 2 shows the field samples of Area 1. This is the area where the quick-connect was located that connected the above ground line from the former AvGas AST to the fuel lines that are located underground, underneath the runway. Ten field screening samples and four laboratory samples were taken.



Area 1 - Old Building Foundation to West



Area 1 Looking North to Road

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Area 1 and Property Line, Looking South



Samples 2, 3, 5, 6, 8



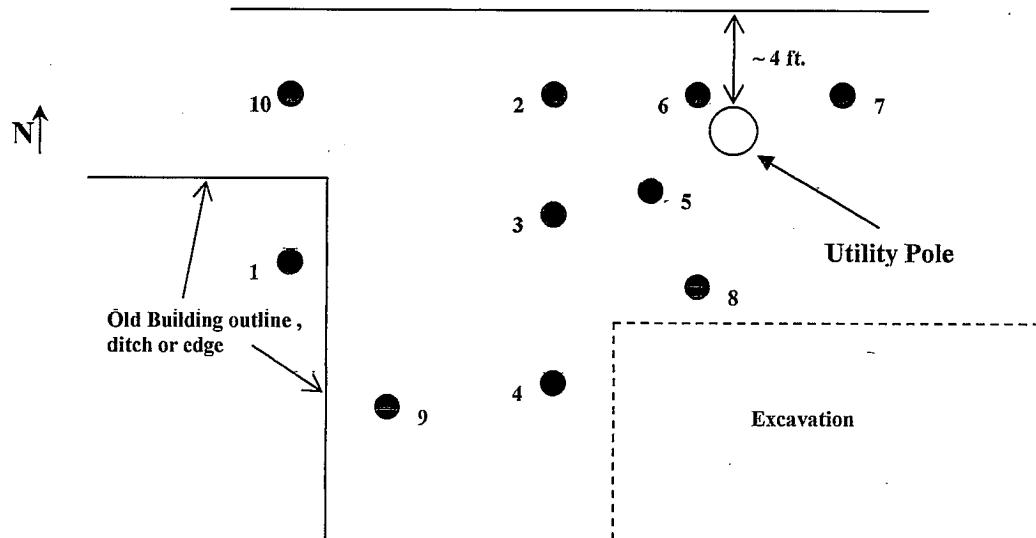
Samples 10, 1



Samples 4, 8, 9

**Figure 2 - Area 1**

Main Roadway



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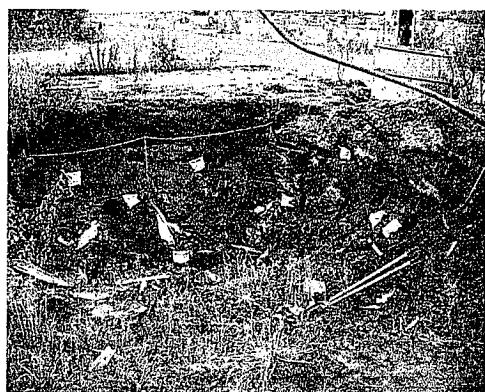
## Headspace Screening

Location	Area	Depth BGS ft	PID	FID	Background
			ppm	ppm	FID
1-1	1	1	5.4	9.3	3.5
1-2	1	2.25	5.5	8.6	
1-3	1	0.5	4.9	9.1	
1-4	1	0.5	5.8	10.2	
1-5	1	2	2255	4400	
1-6	1	2	4.7	8.2	
1-7	1	0.5	112	455	4.2
1-8	1	0.5	29.1	103	
1-9	1	1	2010	3756	
1-10	1	1	4.1	6.6	

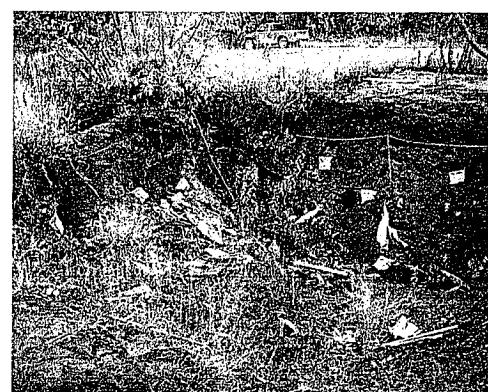
Laboratory Analysis Results		500	0.02	5.4	5.5mg/kg	48	Total	1,000	2,000
Sample ID	Depth	GRO	Benzene	Toluene	Ethyl-benzene	xylenes	DRO	RRO	
1-5	2.0	354	0.355	5.08	0.761	72.6	269	249	
1-6	2.0	ND	ND	ND	ND	0.149	168	657	
1-7	0.5	30.6	ND	ND	0.09	0.703	2480	450	
1-9	1.0	1600	0.505	2.93	1.72	459	1340	597	

## Area 2 – Excavation – Twenty one field screening and nine laboratory samples.

The bottom of the pit is less than 225 square feet, and slopes up to the ground surface to the east from a maximum depth of eight feet on the west edge. The excavated area is 15 feet by 15 feet.



Bags showing sample locations



Bags showing sample locations

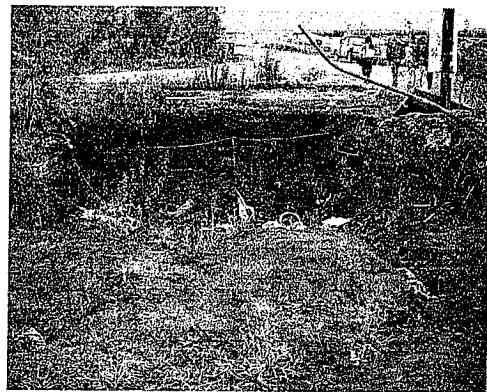
# MTNT Development, Inc.



Sample 27



Main Excavation Soils

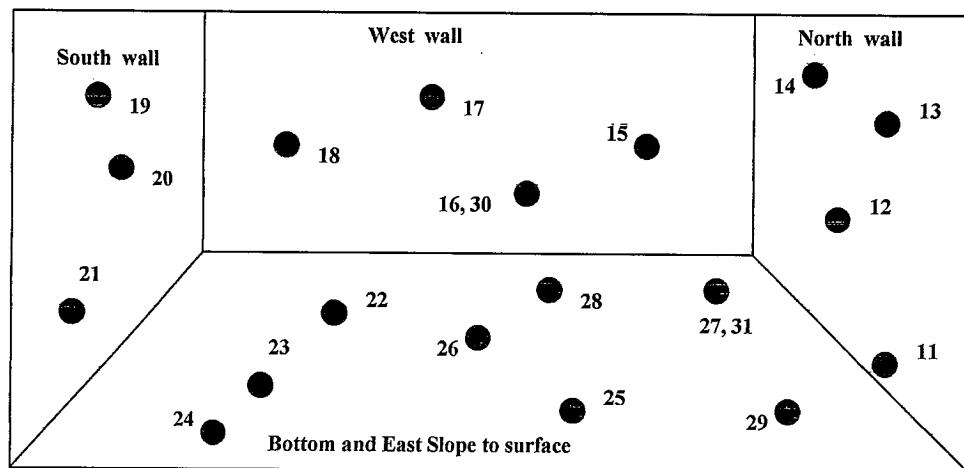


Main Excavation Looking West



Main Excavation Looking East

**Figure 3 - Area 2 Sample Locations**



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## Headspace Screening

Location	Area	Depth BGS ft	PID	FID	Background
			ppm	ppm	FID
1-11	2	0.5	1268	2711	
1-12	2	0.5	733	1668	
1-13	2	0.5	215	591	5.5
1-14	2	0.5	2016	3892	
1-15	2	0.5	69	210	
1-16	2	0.5	17	28	
1-17	2	0.5	35	88	
1-18	2	0.5	5.9	8.4	
1-19	2	0.5	9.5	16.2	
1-20	2	0.5	5.2	7.7	5.1
1-21	2	0.5	7.8	9	
1-22	2	0.5	3.1	4.5	
1-23	2	0.5	1.6	4.5	
1-24	2	0.5	1.7	4.9	
1-25	2	2	2	6.1	
1-26	2	2.5	2.8	7.3	
1-27	2	3	1.3	6.6	4.9
1-28	2	0.5	2.4	3.7	
1-29	2	0.5	2	7.8	
1-30	2	0.5	18	34	Dupl of 16
1-31	2	3	2	5.8	Dupl of 27

Laboratory Analysis Results		GRO	0.02 Benzene	5.4 Toluene	5.5 Ethyl-benzene	78 Total xylenes	1,000 DRO	2,000 RRO
Sample ID	Depth							
1-14	0.5	78.5	0.118	2.5	1.04	18.08	75.3	28
1-16	0.5	ND	0.0166	0.0917	ND	0.277	ND	29.6
1-20	0.5	ND	ND	ND	ND	0.104	ND	55.5
1-22	0.5	ND	ND	ND	ND	ND	ND	26.6
1-25	2.0	ND	ND	ND	ND	ND	ND	33.9
1-26	2.5	ND	ND	ND	ND	ND	69.9	326
1-27	3.0	ND	ND	ND	ND	ND	61.1	72.7
1-30	0.5	ND	ND	ND	ND	0.0907	ND	23.5
1-31	3.0	ND	ND	ND	ND	ND	43.8	69.8

Duplicate of 1-16  
Duplicate of 1-27

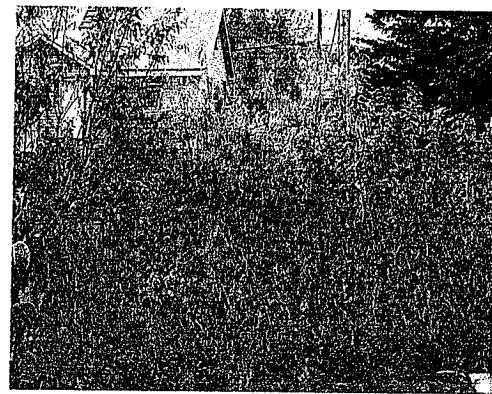
## Area 3 – Surface Lines – Ten field screening samples, four laboratory samples.

Field screening samples were taken from shallow soils roughly evenly spaced along the former line location. Ten field screening locations were analyzed. Four laboratory samples were submitted for analysis.

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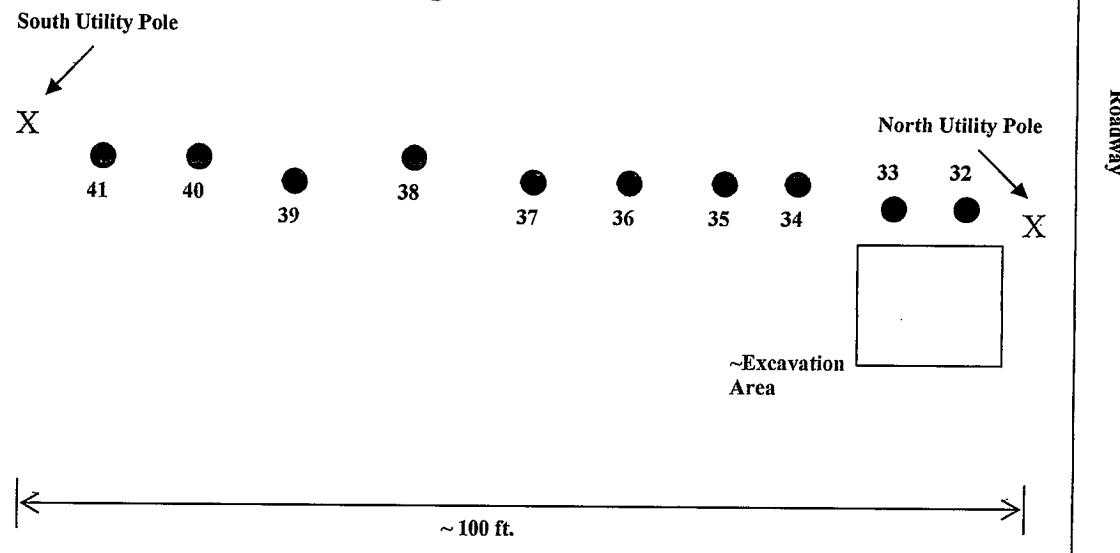


Area 3 Looking North



Area 3 Looking South

**Figure 4 – Area 3**



## Headspace Screening

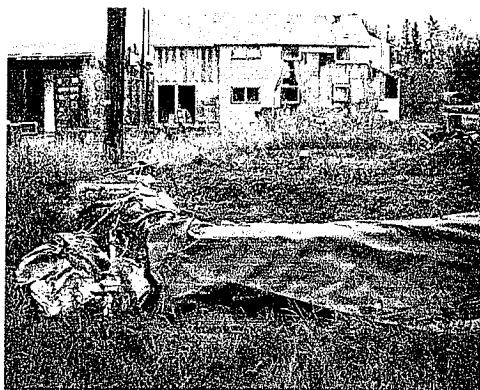
Location	Area	Depth BGS ft	PID ppm	FID ppm	Background FID
1-32	3	0.5	3.6	8.1	
1-33	3	0.5	2.8	7.7	5.1
1-34	3	0.5	6	14	
1-35	3	0.5	2.1	5.2	
1-36	3	0.5	2.8	7.2	
1-37	3	0.5	1.7	4.8	
1-38	3	0.5	5.4	15	
1-39	3	0.5	3.2	6.7	3.7
1-40	3	0.5	1.9	3.8	
1-41	3	0.5	5	11	

# MTNT Development, Inc.

Laboratory Analysis Results						Ethyl-benzene	Total xylenes	DRO	RRO
Sample ID	Depth	GRO	Benzene	Toluene					
1-32	0.5	ND	ND	ND	ND	ND	ND	ND	122
1-34	0.5	ND	ND	ND	ND	ND	ND	30.5	115
1-37	0.5	ND	ND	ND	ND	ND	ND	ND	47.1
1-41	0.5	ND	ND	ND	ND	ND	ND	ND	53.1

## Area 4 – Former AST location – Ten field screening samples and three laboratory samples.

This location was not sampled as the berm and soil storage completely covered the location.



Former AST Location, Looking East

## Area 5 - Soil Stockpile – Ten field screening samples and three laboratory samples.

Ten field screening locations were analyzed. Three grab samples from the stockpile were submitted to the laboratory for analysis.

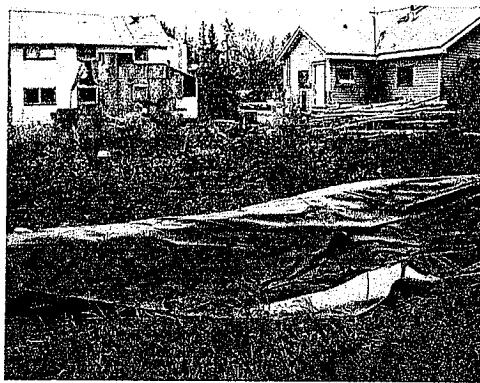


Berm looking northeast

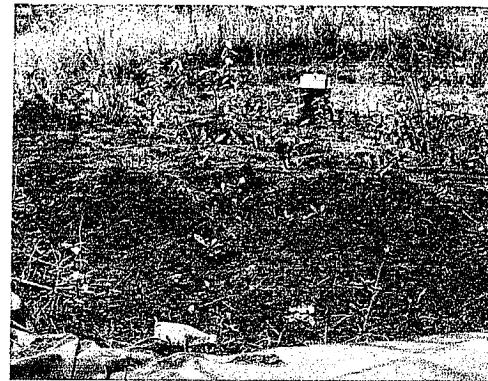


Berm SW corner showing vegetation

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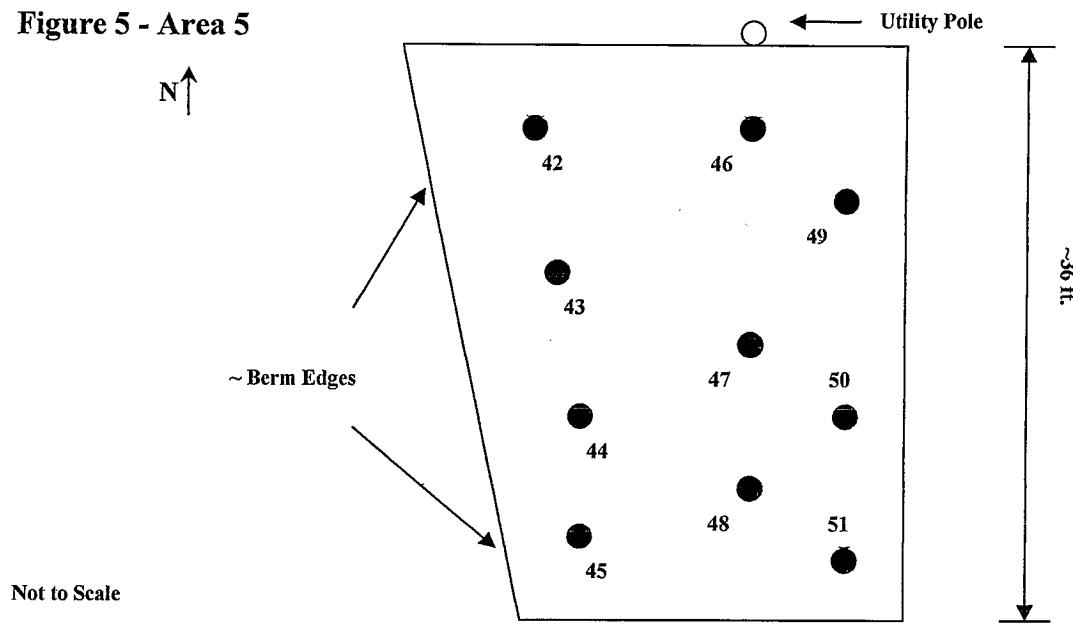


Berm looking east



Central Stockpile berm showing vegetation

**Figure 5 - Area 5**



## Headspace Screening

Location	Area	Depth BGS ft	PID	FID	Background
			ppm	ppm	FID
1-42	5	1	26.6	41	
1-43	5	1	7.9	22	
1-44	5	1	5.5	13	
1-45	5	1	6.9	17	3.9
1-46	5	1	16.9	25	
1-47	5	1	4.4	6.6	
1-48	5	1	7.2	13	
1-49	5	1	5.3	13	
1-50	5	1	3.6	4.8	
1-51	5	1	1.7	4.8	3.9

# MTNT Development, Inc.

Sample ID	Depth	Laboratory Analysis Results			Ethyl-benzene	Total xylenes	DRO	RRO
		GRO	Benzene	Toluene				
1-42	1.0	ND	ND	ND	ND	ND	ND	133
1-46	1.0	ND	ND	ND	ND	ND	ND	186
1-51	1.0	ND	ND	ND	ND	0.259	153	193

## Interpretation of Results

Method One Scoring. Method One scoring (attached) results in a conservative score of 25. Depth to Groundwater in water wells is recorded in the State database as at least 40 feet (score of 4). Mean Annual precipitation is just over 17 inches (score of 3). Soil type is fine grained with considerable organics, but not a peaty soil, so a conservative score of 3 is assigned. Potential receptors include numerous individual water wells in the area, but most of the population is on City water, supplied by run-of-river. A conservative score of 15 is assigned in case an individual desires to use an existing or new private well nearby. The volume of residual contaminated soil appears to be restricted to the area immediately surrounding the utility pole near the main excavation, and is estimated at less than 10 yards. About 35 yards of soil have already been removed. Residual contaminated soil volume is assigned a score of 0.

Scoring results in Category C clean up levels of 500 GRO 1000 DRO and 2000 RRO.

General Summary. Only one sample location, 1-9, had any contamination above Category C (applicable) or even Category B levels of concern. There appears to be no GRO contamination of the base of the excavation, and there may be little or no deep penetration of contamination anywhere from this spill above levels of concern.

The area around the NW corner of the excavation has residual shallow subsurface levels of contamination by GRO and volatile products as evidenced by headspace analysis (locations 5, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17) and the laboratory analysis at locations 5 and 9. There is no evidence of any residual soils at depth that exceed or potentially exceed clean up criteria for Category A.

Known site contamination appears to be limited to a small spill or spills from the pipeline (source of GRO contamination) and the former garage next door (known source of DRO and RRO contamination). Since there are no levels of concern for DRO or RRO, the source or potential sources for those contaminants is moot. There are no known site conditions that could lead to ongoing site contamination at this time.

## Recommendations

Shallow subsurface soils around locations 5, 7, 8, and 9 should be removed to a depth of about 3 feet as long as this does not threaten road use or stability, or the stability of the utility pole or other surface or subsurface utilities in the area. Any contaminated soils removed will probably result in less than 10 cubic yards and can be placed in a small portion of the existing berm.

## MTNT Development, Inc.

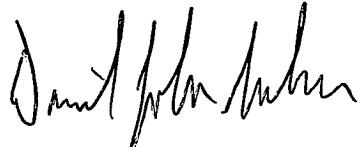
There appears to be little threat to human health or the environment from residual contamination, and no significant threat of contaminated surface runoff. Soils in the berm have met cleanup criteria through either low original contaminant levels or natural attenuation. These soils should be used to fill in the excavation. Proper compaction should be done during fill.

Long term passive ventilation to promote natural attenuation is recommended in the immediate area of the NW corner of the excavation. During fill of the excavation, a passive ventilation system of perforated 4" PVC pipe should be placed along the north edge of the excavation at least twenty feet and along the west edge of the excavation to the south for at least fifteen feet, connected through a three-way connector to a riser at the NW corner of the excavation. This pipe should be placed at a depth of five feet (depth of location 14). Passive ventilation is likely to take a number of years to be effective, but given the relatively low level of concern at the location, seems an appropriate mitigation measure.

After removal of soils from the berm, if there is still concern about the former AST area, it can be sampled. Soils from Area 1 shallow subsurface, if removed, should be placed in the southern end of the existing berm. Sampling of the AST area, if required, should be conducted to coordinate with the remediation and closure sampling of any surface soils from Area 1 noted above. Any soils removed from Area 1 and the AST area (if required) should be turned twice monthly inside the berm to promote natural attenuation.

If you have any questions, or requested modifications, please contact me directly at 223-8088, 345-5112 or via email at [dj2graham@aol.com](mailto:dj2graham@aol.com). My direct fax is 345-9654.

Sincerely,



Daniel J. Graham  
Senior Environmental Scientist  
MTNT Development Inc.

# MTNT Development, Inc.

## DANIEL J. GRAHAM

Environmental Program Management  
Native American Group Relations  
Regulatory compliance and negotiations  
**Legal and financial environmental risk analysis**  
**Real Estate and Financing Due Diligence**  
Construction Program Management

## EDUCATION

B.S. Geology: University of Wisconsin, Madison; 1982.

## PROFESSIONAL EXPERIENCE

**Mercer Environmental, Consultant Feb. 1999 - Current** Permitting and regulatory compliance. Corporate planning, business development. Environmental remediation projects. Local real estate evaluation and support. Strategic Planning and Financing for startup housing manufacturer. M&A support, due diligence. \$320MM international M&A. Projects in Alaska, Texas, California and Venezuela. Two new Native American-owned 8(a) startups.

**Founder, Principal, President and CEO**, Bristol Environmental & Engineering Services Corporation, 1994 – 1999 Responsible for all aspects of corporate operations. Built to \$18,000,000 annual revenues, with diverse environmental, civil design/build and construction practice. Over \$55 million in contract revenue for civil/remediation construction, water and wastewater, and civil design build.

**Independent Environmental Consultant**, Mercer Environmental, 1992—1994 Environmental and management services for Oil Industry, Corps of Engineers, The Economic Group, Inc., Gulfstream Building Systems, and confidential clients.

**Senior Environmental Coordinator**, UNOCAL, Anchorage, Alaska, 1990-1992. Designed and managed environmental remediation, compliance, liability and waste and costs management program. Environmental issues for OBO including Swanson River Field Comprehensive survey (annual budget \$6 million). Extensive knowledge and daily work with oil and gas production operations, Chairman AOGA Solid Waste. Develop, permit and initiation waste injection project; negotiated lawsuit settlements.

**Senior Project Scientist**, Woodward-Clyde Consultants, Anchorage, Alaska, 1986—1990. Responsible Professional for all environmental services. Liaison with regulatory agencies; staff development for hazardous waste practice; peer review for projects nation-wide. First use of new and innovative techniques; Risk assessments to close DoD sites, alternative cleanup levels; presentation of papers and results of projects at seminars and public meetings.

Oil Field Contract Exploration Geologist, 1982 – 1986. Work for ARCO, Shell E&P, others.

Corps of Engineers Construction Quality Management Certified

40 hr HazWoper Certification

24 hr First Responder Certification

OSHA Trenching & Shoring Certification

Lead -Abatement Certification, expired (need refresh)

49 CFR Certification

AHERA Certification Project Design, Inspect, Manage

# MTNT Development, Inc.

Register 156, October 2000

ENVIRONMENTAL CONSERVATION

**TABLE A1. METHOD ONE – PETROLEUM HYDROCARBON SOIL  
CLEANUP LEVELS IN NONARCTIC ZONES  
(See notes to table for further requirements)**

**Part A: Determine score for each item\***

1. Depth to Groundwater		
Less than 5 feet	(10)	
5 feet to 15 feet	(8)	
More than 15 feet to 25 feet	(6)	
More than 25 feet to 50 feet	(4)	
More than 50 feet	(1)	
2. Mean Annual Precipitation		
More than 40 inches	(10)	
More than 25 inches to 40 inches	(5)	
15 inches to 25 inches	(3)	
Less than 15 inches	(1)	
3. Soil Type (Unified Soil Classification)		
Clean, coarse-grained soils	(10)	
Coarse-grained soils with fines	(8)	
Fine-grained soils (low organic carbon)	(3)	
Fine-grained soils (high organic carbon)	(1)	
4. Potential Receptors (Select the most applicable category)		
a. Public water system within 1000 feet, or private water system within 500 feet	(15)	
b. Public/private water system within 1/2 mile	(12)	
c. Public/private water system within one mile	(8)	
d. No water system within one mile	(4)	
e. Nonpotable groundwater	(1)	
5. Volume of Contaminated Soil		
More than 500 cubic yards	(10)	
More than 100 cubic yards to 500 cubic yards	(8)	
More than 25 cubic yards to 100 cubic yards	(5)	
10 cubic yards to 25 cubic yards	(2)	
Less than 10 cubic yards	(0)	

\*The items to be scored are defined in note 1 to this table.

**Part B: Add scores from Part A to determine matrix score and cleanup level**

Matrix Score for Each Category	Cleanup Level in mg/kg		
	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics
Category A: More than 40	50	100	2000
Category B: More than 26 to 40	100	200	2000
Category C: 21-26	500	1000	2000
Category D: Less than 21	1000	2000	2000

Notes to Table A1:

MTNT Development, Inc.

SB 33-33-17 BCDA1-S 9151  
625703/55350701

U.S. PUBLIC HEALTH SERVICE, DIVISION OF INDIAN HEALTH

LOCATION	McGrath	DATE STARTED	March 13, 1979				
DATE COMPLETED	March 23, 1979	DRILLER	Archibald				
TOTAL DEPTH OF WELL	64'-6"	FT. CASING INSTALLED	60'-6"	DIAMETER	6"		
GROUT	Bentonite	SCREEN SIZE	15 slot	MFG.	Johnson	LENGTH	5' 7"
STATIC WATER LEVEL	20'	HRS. PUMPED	1 • 5	GPM	DRAWDOWN	20	FT.
DEPTH		HOLE DIAMETER		CASING DIAMETER		FORMATION	
Organic						SOIL DATA TO 15 FT.	
5'						FEET THAWED	6"
6'						BOTTOM OF FROST & MATERIAL	
Permafrost						SEASONAL OR PERMA FROST	
12'							
Black sand to						WATER DATA FIELD TEST	
35'						TASTE	Iron
Silty sand to						APPEARANCE	FRESH
60'						AFTER 24 HOURS	
60'-6" Bottom to casing						IRON	10 ppm
64'-6" Bottom of screen						CHLORIDES	
EVELOP PROCEDURE	None					TDS	
IMITATED MAN HOURS FOR DRILLING				PUMP TEST	40'	STATIC LEVEL	
				PUMPING LEVEL	43	• 5 GPM	
				AFTER	1	HRS.	
				HIGHEST RECOMMENDED PUMP RATE			
				WILL STATIC LEVEL CHANGE WITH TIDES	NO	OR FROST	NO

SB 33-33-17 BCDA1-S

MTNT Development, Inc.

9150

SB 33-33-7 DBCA 1-4  
WELL LOG 425734/55355201

U.S. PUBLIC HEALTH SERVICE, DIVISION OF INDIAN HEALTH

LOCATION McGrath (Near HUB Air Apron) DATE STARTED April 18, 1979  
DATE COMPLETED April 19, 1979 DRILLER Mark Anderson/Henry Horner  
TOTAL DEPTH OF WELL 40' FT. CASING INSTALLED 41' DIAMETER 6"  
GROUT N/A SCREEN SIZE 30 slot MFG. Johnson LENGTH 5 feet  
STATIC WATER LEVEL 14' HRS. PUMPED 20 GPM DRAWDOWN F

DEPTH	HOLE DIAMETER	CASING DIAMETER	FORMATION	Aquifer unsuitable due to water quality
silt and brown				SOIL DATA TO 15 FT. FEET THAWED Frozen soil top 6" BOTTOM OF FROST & MATERIAL SEASONAL OR PERMA FROST None
Grading to coarse brown sand	10'			WATER DATA FIELD TEST TASTE Clear to yellowish appearance APPEARANCE FRESH AFTER 24 HOURS IRON 5 ppm as per Hatch test CHLORIDES TDS
Med. to coarse brown sand, some gravel, loose silt	16'			PUMP TEST Bail test STATIC LEVEL PUMPING LEVEL GPM AFTER HRS.
Grey Med. to coarse sand	30' + 4"			HIGHEST RECOMMENDED PUMP RATE WILL STATIC LEVEL CHANGE WITH TIDES OR FROST Affected by level of Kuskokwim River
Grey Med. to fine sand well sorted	40'			
Some coarse, sand woody organics				

OPERATION PROCEDURE

ESTIMATED MAN HOURS FOR DRILLING HOURS FOR TOTAL JOB

Mark Anderson/Henry Horner

SB 33-33-7 DBCA 1-4

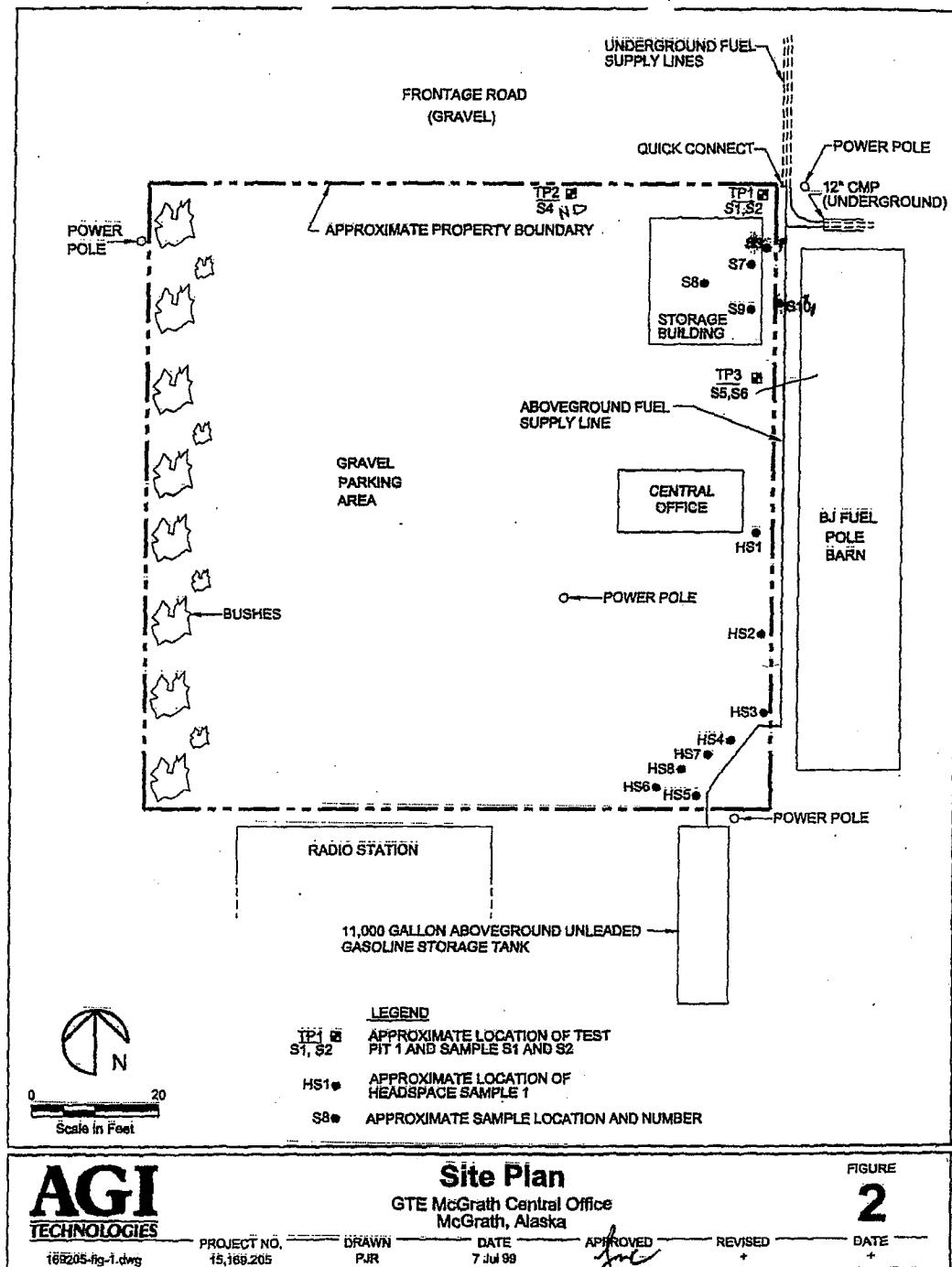
MTNT Development, Inc.

2984

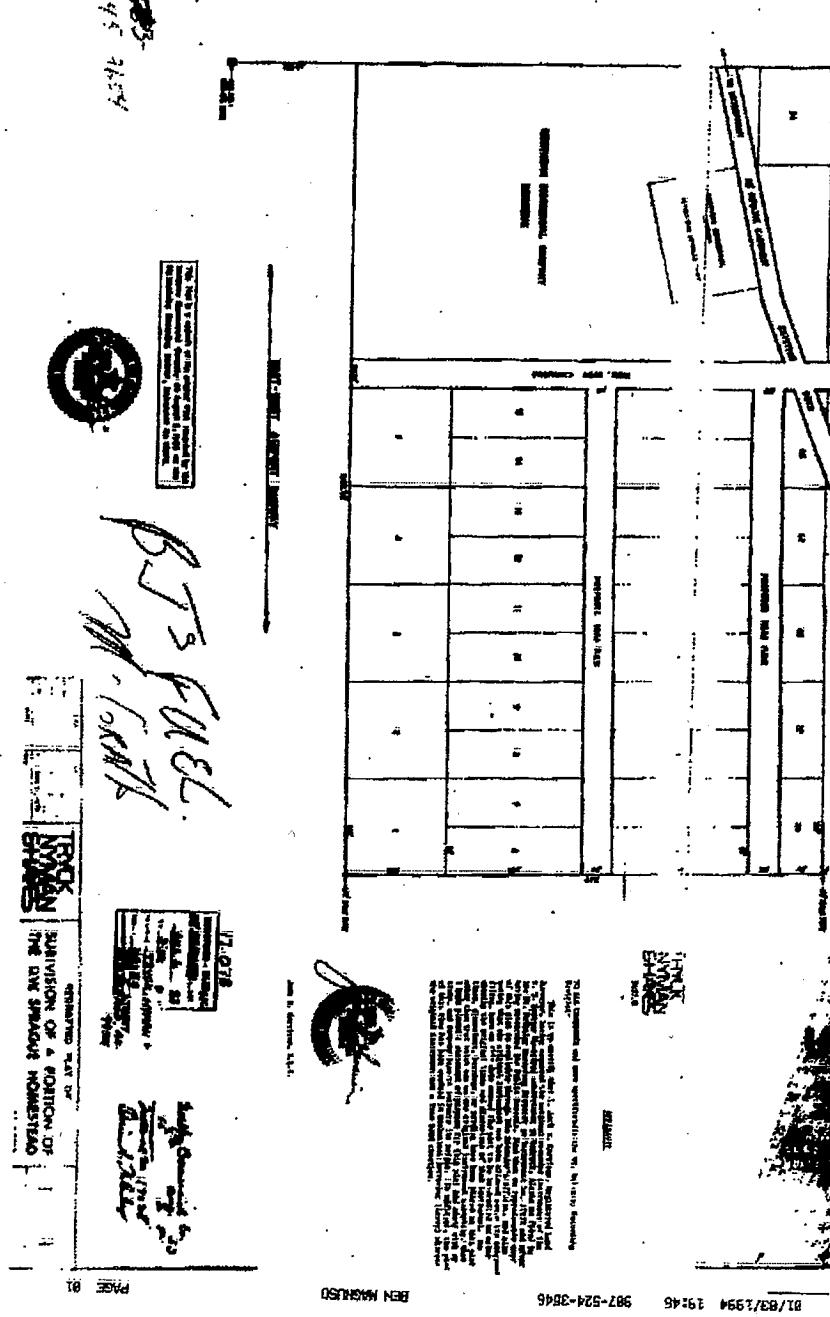
**WATER WELL RECORD  
STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
Division of Geological & Geophysical Surveys**

LOCATION OF WELL				(Please complete either 1a, 1b or 1c.)				Drilling Permit No.: A.D.L. No.:		
1a. Borough	Subdivision	Lot	Block	1b. <input checked="" type="checkbox"/> acre(s).	Section No.	Township No.	RANGE <input checked="" type="checkbox"/>	MERIDIAN <input checked="" type="checkbox"/>	Meridian	
				1/4 acre(s).	26	33	33	W12	Seward	
1c. DISTANCE AND DIRECTION FROM ROAD INTERSECTIONS See attached map by DCGS (page 2 below)								3. OWNER OF WELL: City of Anchorage P.O. Box 57 Anchorage, Ak. 99527 Address:		
Street Address and Area of Well Location								4. WELL DEPTH: (final) 115 ft.		
2. WELL LOG								5. DATE OF COMPLETION: 4-15-83		
				Feet Below Surface	Top	Bottom				
					0	.6"				
Tundra					6	7				
Frozen silty sand "seasonal"					7	101				
Silty sand thawed, dry					101	102.0				
Brown clay					102.6	104				
Dark clay some vegetation					104	105				
Sand with some small gravel					104	105				
								6. CASING: <input type="checkbox"/> Threaded <input type="checkbox"/> Welded dim. 6 in. to 115 ft. Depth Weight 17 lbs./ft. dim. _____ in. to _____ ft. Depth Weight _____ lbs./ft.		
								7. USE: <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Reservoir <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/> Other: _____		
								8. FINISH OF WELL: Type: SCRAPER Diameter: _____ Slot/Screen Size: .010 Length: 5 ft. Set between 110 ft. and 115 ft. Backfilling Gravel pack		
								9. STATIC WATER LEVEL: 93 ft. 4/15/83 <input type="checkbox"/> Above or <input checked="" type="checkbox"/> Below land surface Date: _____ Equipment used: _____		
								10. PUMPING LEVEL below land surface and YIELD 105 ft. after 3 hrs. pumping 42.5 g.p.m. 115 ft. after 24 hrs. pumping 37 g.p.m.		
								11. BROUTING Well treated: <input type="checkbox"/> Yes <input type="checkbox"/> No Material: <input type="checkbox"/> Heat Cured <input type="checkbox"/> Other: _____		
								12. PUMP: (If available) HP _____ Length of Drop Pipe _____ ft. capacity _____ g.p.m. <input type="checkbox"/> Subm. <input type="checkbox"/> Jet <input type="checkbox"/> Centrifugal <input type="checkbox"/> Other		
								13. REMARKS: Hit water at 104 ft. Water rose to 93 ft. Dov. 25 hrs; removed 23 sand; pump lost out enginless last. Dis- infected well with chlorine		
								14. Water Temperature: _____ °F <input type="checkbox"/> F <input type="checkbox"/> C		
15. WATER WELL CONTRACTOR'S CERTIFICATIONS: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief: <u>William R. Magruder</u>								Contract License Number: M 5305		
Authorized Business Name: Registered Business Name: _____								Contract License Number: _____		
Address: P.O. Box 504 Eagle River, Ak. 99577								Date: April 26, 1983		
Signed: <u>William R. Magruder</u> Authorized Representative										

# MTNT Development, Inc.



# MTNT Development, Inc.



# MTNT Development, Inc.



CT&E Environmental Services Inc.

200 W. Potter Drive  
Anchorage, AK 99518-1605  
Tel: (907) 562-2343  
Fax: (907) 561-5301  
Web: <http://www.ctesi.com>

Dan Graham  
MTNT Development Inc.

730 I Street Suite 100  
Anchorage, AK 995013423

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Work Order:	1026161
	BJ Fuels
Client:	MTNT Development Inc.
Report Date:	September 24, 2002

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Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by CT&E. A copy of our Quality Control Manual that outlines this program is available at your request.

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth in our Quality Assurance Program Plan.

If you have any questions regarding this report or if we can be of any other assistance, please call your CT&E Project Manager at (907) 562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

- U Indicates the analyte was analyzed for but not detected.
- F Indicates an estimated value that falls below PQL, but is greater than the MDL.
- J Indicates an estimated value that falls below PQL, but is greater than the MDL.
- B Indicates the analyte is found in the blank associated with the sample.
- \* The analyte has exceeded allowable limits.
- GT Greater Than
- D Secondary Dilution
- LT Less Than
- I Surrogate out of range



Member of the SGS Group (Societe Generale de Surveillance)

F-701

# MTNT Development, Inc.



CT&E Environmental Services Inc.

CT&E Ref.# 1026161001  
 Client Name MTNT Development Inc.  
 Project Name/# BJ Fuels  
 Client Sample ID 1-5  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 10:53  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michael hicks*

#### Sample Remarks:

GRO/BTEX - BFB surrogate recovery is biased high due to hydrocarbon interference. Results are not affected.  
 DRO - The pattern is consistent with a weathered middle distillate.  
 DRO/RRD - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	86.9		%	SM20 2540G			09/19/02	MCM
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	354	26.3	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.355	0.132	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	5.08	0.527	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.761	0.527	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	25.6	0.527	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	47.0	0.527	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	101		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	351		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	269	222	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	249	222	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstane <Sur>	90.5		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triacontane-d62 <Sur>	59.6		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 3/ 22



CT&E Environmental Services Inc.

CT&E Ref.# 1026161002  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID I-6  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 10:56  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michael hicks*

**Sample Remarks:**

DRO/RR0 - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	87.3		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	1.72 U	1.72	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.00858 U	0.00858	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0343 U	0.0343	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0343 U	0.0343	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0572	0.0343	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0916	0.0343	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	94.4		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	51.7		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	168	46.3	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	657	46.3	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstanone <surr>	90.6		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sur>	67.1		%	AK102/103	50-150	09/19/02	09/20/02	DS

F:701

SEP-24-2002 TUE 03:21PM ID:

PAGE:3

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 4/ 22



CT&E Ref.# 1026161003  
 Client Name MTNT Development Inc.  
 Project Name/# BJ Fuels  
 Client Sample ID 1-7  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 10:59  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By: *Michael Kirby*

#### Sample Remarks:

GRO/BTEX - BFB surrogate recovery is biased high due to hydrocarbon interference. Results are not affected.  
 DRO - The pattern is consistent with a weathered middle distillate.  
 RRO - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Allowable Limit	Prep Date	Analysis Date	Unit
<b>Solids</b>								
Total Solids	88.4		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	30.6	2.06	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0103 U	0.0103	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0411 U	0.0411	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0896	0.0411	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M -Xylene	0.321	0.0411	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.382	0.0411	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	96.2		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	203		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	2480	214	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	450	214	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5 $\alpha$ Androstanone <sur>	94.9		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sur>	70.7		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:21PM ID:

PAGE:4

# MTNT Development, Inc.

8-24-02 3:17PM;

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# 5/ 22



CT&E Environmental Services Inc.

CT&E Ref# 1026161004  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-9  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 11:11  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michael binkley*

#### Sample Remarks:

GRO/BTEX - BFB surrogate recovery is biased high due to hydrocarbon interference. Results are not affected.  
 DRO - The pattern is consistent with a weathered middle distillate.  
 RRO - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	84.8		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	1600	42.2	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.505	0.211	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	2.93	0.845	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethybenzene	1.72	0.845	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	152	0.845	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	307	4.22	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	114		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	1270		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	1340	225	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	597	225	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstanone <sum>	82.9		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sum>	53.5		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:21PM ID:

PAGE:5

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 6/ 22



**CT&E Environmental Services Inc.**

CT&E Ref# 1026161005  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-14  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 20:16  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Eds

Released By *Michael Banks*

**Sample Remarks:**

GRO/BTEX - BFB surrogate recovery is biased high due to hydrocarbon interference. Results are not affected.  
 DRO - The pattern is consistent with a weathered middle distillate.  
 RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	84.9		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	78.5	3.44	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.118	0.0172	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	2.50	0.0687	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	1.04	0.0687	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	10.8	0.0687	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	7.28	0.687	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	102		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	185		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	75.3	23.2	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	28.0	23.2	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstan- <sup>14</sup> o-ol <Sur>	115		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triacanamine-d62 <Sur>	94.7		%	AK102/103	50-150	09/19/02	09/20/02	DS

F701

SEP-24-2002 TUE 03:22PM ID:

PAGE:6

# MTNT Development, Inc.

9-24-02; 3:17PM;

:907 5815301

# 7 / 22



CT&E Environmental Services Inc.

CT&E Ref.# 1026161006  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-16  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 12:48  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Edie

Released By *michael edie*

**Sample Remarks:**

RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Unit
<b>Solids</b>								
Total Solids	85.0		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.12 U	3.12	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0166	0.0156	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0917	0.0624	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0624 U	0.0624	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M -Xylene	0.178	0.0624	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0986	0.0624	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	95.9		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	63.6		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	23.8 U	23.8	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	29.6	23.8	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstan-17-one <Sur>	93.2		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triacontane-d62 <Sur>	114		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:22PM ID:

PAGE: 7

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 8 / 22



CT&E Environmental Services Inc.

CT&E Ref.# 1026161007  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-20  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 13:03  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michael kemp*

**Sample Remarks:**

RRÖ - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	86.5		%	SM20 2540G			09/19/02	MCM
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.79 U	3.79	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0190 U	0.0190	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0759 U	0.0759	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0759 U	0.0759	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.104	0.0759	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0759 U	0.0759	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	94.6		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	70.8		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	23.0 U	23.0	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	55.5	23.0	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstan-17-one <sur>	103		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triacanthane-d52 <Sur>	114		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:22PM ID:

PAGE: 8

# MTNT Development, Inc.

9-24-02 3:17PM;

1807 5615301

# 8/ 22



CT&E Environmental Services Inc.

CT&E Ref# 1026161008  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-22  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 13:15  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *Michael R. Ede*

#### Sample Remarks:

RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	77.6		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	2.56 U	2.56	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0128 U	0.0128	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0512 U	0.0512	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0512 U	0.0512	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0512 U	0.0512	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0512 U	0.0512	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	99.2		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	61.3		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	25.5 U	25.5	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	26.6	25.5	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstan-17-one <Sur>	105		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triacanthane-d62 <Sur>	102		%	AK102/103	50-150	09/19/02	09/20/02	DS

F701

SEP-24-2002 TUE 03:23PM ID:

PAGE: 9

# MTNT Development, Inc.

8-24-02; 3:17PM;

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# 10/ 22



CT&E Ref.# 1026161009  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-25  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 13:30  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *Stephan C. Ede*

#### Sample Remarks:

RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	83.2		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.52 U	3.52	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0176 U	0.0176	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0704 U	0.0704	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0704 U	0.0704	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0704 U	0.0704	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0704 U	0.0704	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	96.6		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	63.6		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	23.9 U	23.9	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	33.9	23.9	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstan-17-one <Sur>	115		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triacontane-d62 <Sur>	110		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:23PM ID:

PAGE:10

# MTNT Development, Inc.

9-24-02; 3:17PM;

1907 5515301

# 11 / 22



CT&E Environmental Services Inc.

CT&E Ref#: 1026161010  
 Client Name: MTNT Development Inc.  
 Project Name#: BJ Fuels  
 Client Sample ID: 1-26  
 Matrix: Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time: 09/24/2002 11:40  
 Collected Date/Time: 09/16/2002 13:36  
 Received Date/Time: 09/17/2002 13:17  
 Technical Director: Stephen C. Ede

Released By:

**Sample Remarks:**

DRO/RRO - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	79.3		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	2.30 U	2.30	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0115 U	0.0115	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0460 U	0.0460	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0460 U	0.0460	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0460 U	0.0460	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0460 U	0.0460	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	97.2		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	59.1		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	69.9	47.6	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	326	47.6	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstan-17-one <sur>	85.9		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sur>	59.5		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-7G

SEP-24-2002 TUE 03:23PM ID:

PAGE:11

# MTNT Development, Inc.

9-24-02; 3:17PM;

1907 5815301

# 12 / 22



CT&E Environmental Services Inc.

CT&E Ref.# 1026161011  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-27  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 13:41  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michaelAde*

#### Sample Remarks:

DRO - The pattern is consistent with a weathered middle distillate.  
 RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	80.4		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	2.76 U	2.76	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0138 U	0.0138	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0552 U	0.0552	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0552 U	0.0552	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M -Xylene	0.0552 U	0.0552	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0552 U	0.0552	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	94.5		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	56		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	61.1	25.0	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	72.7	25.0	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstanone <sur>	128		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sur>	124		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:24PM ID:

PAGE:12

# MTNT Development, Inc.

9-24-02; 3:17PM;

:907 5615301

# 13/ 22



CT&E Ref# 1026161012  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-30  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 13:45  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michaelh*

#### Sample Remarks:

RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Unit
<b>Solids</b>								
Total Solids	86.3		%	SM20 2540G			09/19/02	MCM
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.28 U	3.28	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0164 U	0.0164	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0655 U	0.0655	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0655 U	0.0655	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0907	0.0655	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0655 U	0.0655	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sum>	95.7		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sum>	65		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	22.7 U	22.7	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	23.5	22.7	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstanone <surrt>	96		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Surrt>	91.9		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:24PM ID:

PAGE:13

# MTNT Development, Inc.

9-24-02 3:17PM;

1907 5615301

# 14 / 22



**CT&E Environmental Services Inc.**

CT&E Ref# 1026161013  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-31  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 13:49  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michael kirk*

**Sample Remarks:**

DRO - The pattern is consistent with a weathered middle distillate.  
 RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	75.3		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	2.46 U	2.46	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0123 U	0.0123	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0493 U	0.0493	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0493 U	0.0493	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0493 U	0.0493	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0493 U	0.0493	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	93.1		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	56.4		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	43.8	26.3	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	69.8	26.3	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstane <sur>	125		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triacanthane-d62 <Sur>	128		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:24PM ID:

PAGE:14

# MTNT Development, Inc.

9-24-02; 3:17PM;

907 5615301

# 15 / 22



CT&E Environmental Services Inc.

CT&E Ref.# 1026161014  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-32  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 14:26  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michael banks*

**Sample Remarks:**

RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	86.0		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.17 U	3.17	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0158 U	0.0158	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0634 U	0.0634	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0634 U	0.0634	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0634 U	0.0634	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0634 U	0.0634	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	98.5		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	69.4		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	22.8 U	22.8	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	122	22.8	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstanone <sur>	129		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sur>	56.2		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:25PM ID:

PAGE:15

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 16/ 22



CT&E Environmental Services Inc.

CT&E Ref# 1026161015  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID 1-34  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 14:33  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *richard deale*

#### Sample Remarks:

DRO/RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Unit
<b>Solids</b>								
Total Solids	86.6		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.32 U	3.32	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0166 U	0.0166	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0664 U	0.0664	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0664 U	0.0664	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M -Xylene	0.0664 U	0.0664	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0664 U	0.0664	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	92.1		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	68		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	30.5	22.5	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	115	22.5	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstane <sur>	119		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sur>	149		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:25PM ID:

PAGE:16

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 17 / 22



CT&E Ref.# 1026161016  
 Client Name MTNT Development Inc.  
 Project Name/# BJ Fuels  
 Client Sample ID 1-37  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 14:47  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *Michael Burke*

#### Sample Remarks:

RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	83.2		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.51 U	3.51	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0175 U	0.0175	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0702 U	0.0702	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0702 U	0.0702	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0702 U	0.0702	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0702 U	0.0702	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	95.3		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	66		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	23.7 U	23.7	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	47.1	23.7	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5 $\alpha$ Androstan-16-one <sur>	103		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sur>	102		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:25PM ID:

PAGE:17

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 18/ 22



**CT&E Environmental Services Inc.**

CT&E Ref.# 1026161017  
 Client Name MTNT Development Inc.  
 Project Name/# BJ Fuels  
 Client Sample ID 1-41  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 15:01  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Edie

Released By *michael hicks*

**Sample Remarks:**

RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	85.0		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.89 U	3.89	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0194 U	0.0194	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0778 U	0.0778	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0778 U	0.0778	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.0778 U	0.0778	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0778 U	0.0778	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	98.4		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	66.2		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	23.2 U	23.2	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	53.1	23.2	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstanone <sur>	100		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triacanone-d62 <Sur>	114		%	AK102/103	50-150	09/19/02	09/20/02	DS

F701

SEP-24-2002 TUE 03:26PM ID:

PAGE:18

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 19 / 22



**CT&E Environmental Services Inc.**

CT&E Ref.# 1026161018  
 Client Name MTNT Development Inc.  
 Project Name/# BJ Fuels  
 Client Sample ID 1-42  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 15:16  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Eds

Released By *michaela*

**Sample Remarks:**

RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	84.8		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	2.85 U	2.85	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0143 U	0.0143	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0570 U	0.0570	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0570 U	0.0570	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M -Xylene	0.0570 U	0.0570	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0570 U	0.0570	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	96.3		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	68.8		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	113 U	113	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	133	113	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstane <sur>	81.6		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sur>	57.8		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:26PM ID:

PAGE: 19

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 20/ 22



CT&E Ref# 1026161019  
 Client Name MTNT Development Inc.  
 Project Name/# BJ Fuels  
 Client Sample ID 1-46  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 15:31  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michael hanks*

#### Sample Remarks:

DRO - The pattern is consistent with a highly weathered middle distillate.  
 RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	84.1		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.28 U	3.28	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0164 U	0.0164	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0656 U	0.0656	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethylbenzene	0.0656 U	0.0656	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M -Xylene	0.0656 U	0.0656	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.0656 U	0.0656	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sur>	93		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sur>	63.7		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	117 U	117	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	186	117	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstan-17-one <sur>	88.9		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Tricosane-d62 <Sur>	60.5		%	AK102/103	50-150	09/19/02	09/20/02	DS

SEP-24-2002 TUE 03:26PM ID:

PAGE:20

# MTNT Development, Inc.

9-24-02; 3:17PM;

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# 21 / 22



CT&E Environmental Services Inc.

CT&E Ref.# 1026161020  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID I-51  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 15:50  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *michael kirk*

#### Sample Remarks:

DRO - The pattern is consistent with a highly weathered middle distillate.  
 RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Unit
<b>Solids</b>								
Total Solids	84.1		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	3.33 U	3.33	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Benzene	0.0166 U	0.0166	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Toluene	0.0665 U	0.0665	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
Ethybenzene	0.0665 U	0.0665	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
P & M-Xylene	0.123	0.0665	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
o-Xylene	0.134	0.0665	mg/Kg	AK101/8021B		09/16/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sum>	97		%	AK101/8021B	89-118	09/16/02	09/20/02	PFL
4-Bromofluorobenzene <Sum>	80.2		%	AK101/8021B	50-150	09/16/02	09/20/02	PFL
<b>Semivolatile Organic Fuels Department</b>								
Diesel Range Organics	153	119	mg/Kg	AK102/103		09/19/02	09/20/02	DS
Residual Range Organics GC	193	119	mg/Kg	AK102/103		09/19/02	09/20/02	DS
<b>Surrogates</b>								
5a Androstanone <sum>	85.7		%	AK102/103	50-150	09/19/02	09/20/02	DS
n-Triaccontane-d62 <Sum>	61.1		%	AK102/103	50-150	09/19/02	09/20/02	DS

F-701

SEP-24-2002 TUE 03:27PM ID:

PAGE:21

# MTNT Development, Inc.

9-24-02 3:17PM;

1907 5615301

# 22 / 22



CT&E Environmental Services Inc.

CT&E Ref# 1026161021  
 Client Name MTNT Development Inc.  
 Project Name# BJ Fuels  
 Client Sample ID Trip Blank  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 09/24/2002 11:40  
 Collected Date/Time 09/16/2002 0:00  
 Received Date/Time 09/17/2002 13:17  
 Technical Director Stephen C. Ede

Released By *Michael Lunde*

Sample Remarks:

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
<b>Solids</b>								
Total Solids	100		%	SM20 2540G		09/19/02	MCM	
<b>Volatile Fuels Department</b>								
Gasoline Range Organics	2.51 U	2.51	mg/Kg	AK101/8021B		09/19/02	09/20/02	PFL
Benzene	0.0126 U	0.0126	mg/Kg	AK101/8021B		09/19/02	09/20/02	PFL
Toluene	0.0503 U	0.0503	mg/Kg	AK101/8021B		09/19/02	09/20/02	PFL
Ethylbenzene	0.0503 U	0.0503	mg/Kg	AK101/8021B		09/19/02	09/20/02	PFL
P & M-Xylene	0.0503 U	0.0503	mg/Kg	AK101/8021B		09/19/02	09/20/02	PFL
o-Xylene	0.0503 U	0.0503	mg/Kg	AK101/8021B		09/19/02	09/20/02	PFL
<b>Surrogates</b>								
1,4-Difluorobenzene <Sum>	95.9		%	AK101/8021B	89-118	09/19/02	09/20/02	PFL
4-Bromofluorobenzene <Sum>	75.8		%	AK101/8021B	50-150	09/19/02	09/20/02	PFL

F-701

SEP-24-2002 TUE 03:27PM ID:

PAGE:22

**CT&E Environmental Services Inc.**  
Laboratory Division

**1026161**

① Collected/Packaged By: (1)

Dan Graham

Phone No: (907) 223-8088

Project: BJ Fuel

Position:

Reports To: Dan Graham

Via E-mail: dfg29@alaska.com

Fax No: (907) 345-9654 ad. ext.

Invoice To:

Quote# 6170

P.O. Number:

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	REMARKS			
				C	G	X	X
1-5	9-16-07	10:33	S:1				
1-6		10:56				X	X
1-7		10:59				X	X
1-9		11:11				X	X
1-14		20:16				X	X
1-16		12:48				X	X
1-20		13:03				X	X
1-22		12:15				X	X
1-25		13:30				X	X
1-26		13:36	V			X	X
Collected/Packaged By: (1)				Date Received By:			
Purchased By: (2)				Date Received By:			
Purchased By: (3)				Date Received By:			
Purchased By: (4)				Date Received By:			
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Purchased By: (102)				Date Received By:			
Purchased By: (103)				Date Received By:			

② Level II - Level III - EDR Type:

Requested Turnaround Time and Special Instructions:

Start 10/1 - Env. 1 & Hard copy  
Env. 1 H: djl2.graham@aol.com

White - Printed by Lab (Project File) Yellow - Printed with Report

Pink - Printed by Samples

0-720