



Circle K Station #1461  
Release ID: 1548  
Seattle

**Letter of Transmittal**

To: Department of Ecology  
Northwest Region Office  
3190 160th Avenue SE  
Bellevue, WA 98008

Date: April 25, 2001

Job No. 01-021

Attn: Mr. Joe Hickey  
Re: Jays Cleaner/Former Circle K

We are sending you the following items:

Date	Number of Copies	Description
April 25, 2001	1	Field Notes, Table of Analytical Results, Laboratory Data

These are transmitted:

- For Your Information
- For action specified below
- For review and comment
- For your use
- As requested

**Remarks**

Dear Mr. Hickey,

This transmits one copy of the laboratory report, field notes and a table summarizing analytical results for the recent groundwater sampling at the former Circle K (Jays Cleaners), 2350 24<sup>th</sup> Avenue East, Seattle, Washington. The work was completed as authorized by Field Order Number PF 229105.

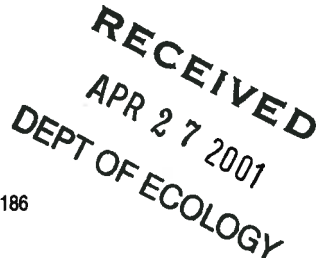
Glacier Environmental has also packaged and shipped four spent drums of activated carbon for regeneration. All carbon has been removed from the site and equipment is secured.

If you have question or we can be of further assistance at this site, please do not hesitate to call me. My toll free number is 1-800-275-1701, extension 3.

Copies to: File



By: *Steve Miles*  
Steve Miles  
Title: PRESIDENT



**TABLE 2 (page 1 of 3)**  
**SUMMARY OF GROUND WATER SAMPLE ANALYTICAL DATA <sup>1</sup>**  
**MONTLAKE CIRCLE K**  
**SEATTLE, WASHINGTON**

Monitoring Well Number	Date	Benzene <sup>2</sup> (µg/L)	Toluene <sup>2</sup> (µg/L)	Ethylbenzene <sup>2</sup> (µg/L)	Xylenes <sup>2</sup> (µg/L)	GRH <sup>3</sup> (mg/L)	Product Present?
MW-1	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
MW-4	11-Apr-01	7,370	28,000	2,680	17,100	117	Yes
MW-5	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
MW-6	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
MW-7	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
MW-8	11-Apr-01	802	9,770	1,520	7,030	46.4	Yes
MW-9	11-Apr-01	420	2,310	1,500	7,350	35.4	Yes
Cleanup Level <sup>4</sup>		5	40	30	20	1.0 <sup>5</sup>	NA

**TABLE 2 (page 2 of 3)**  
**SUMMARY OF GROUND WATER SAMPLE ANALYTICAL DATA <sup>1</sup>**  
**MONTLAKE CIRCLE K**  
**SEATTLE, WASHINGTON**

Monitoring Well Number	Date	Benzene <sup>2</sup> (µg/L)	Toluene <sup>2</sup> (µg/L)	Ethyl-benzene <sup>2</sup> (µg/L)	Xylenes <sup>2</sup> (µg/L)	GRH <sup>3</sup> (mg/L)	Product Present?
MW-10	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
MW-11	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
MW-12	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
MW-13	11-Apr-01	--	--	--	--	--	No
MW-14	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
MW-15	11-Apr-01	58.4	310	526	2,920	23.8	Yes
MW-16	11-Apr-01	0.500 U	0.500 U	0.500 U	1.00 U	0.0500 U	No
Cleanup Level <sup>4</sup>		5	40	30	20	1.0 <sup>5</sup>	NA

TABLE 2 (page 3 of 3)  
SUMMARY OF GROUND WATER SAMPLE ANALYTICAL DATA<sup>1</sup>  
MONTLAKE CIRCLE K  
SEATTLE, WASHINGTON

Notes:

<sup>1</sup> Samples analyzed by North Creek Analytical, Inc. of Bothell, Washington.

<sup>2</sup> By EPA Method 8021B.

<sup>3</sup> Gasoline-range hydrocarbons by Ecology Method NWTPH-G.

<sup>4</sup> MTCA Method A Ground Water Cleanup Level.

<sup>5</sup> TPH is regulated as the sum of gasoline-, diesel- and heavy oil-range hydrocarbons.

µg/L = micrograms per liter

mg/L = milligrams per liter

"-" = not tested

DQ = data qualifier

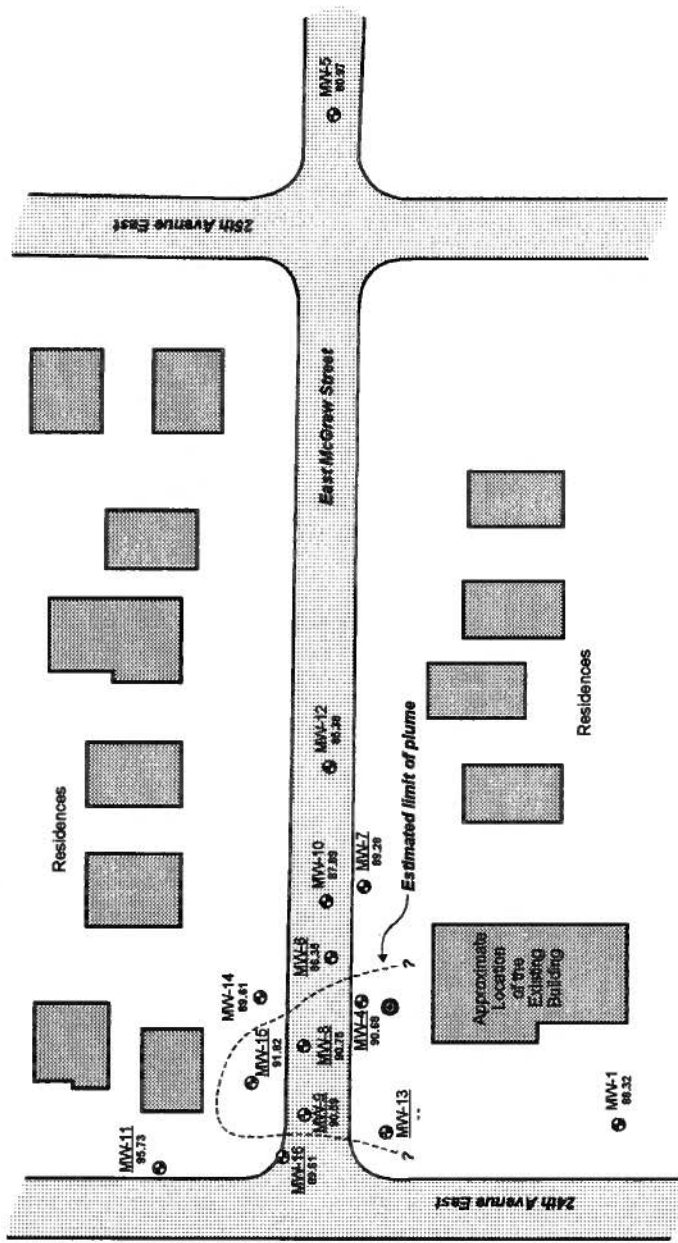
U = not detected at or above the specified concentration

NA = not applicable

Stippled concentrations exceed the MTCA Method A ground water cleanup levels.

**Explanation**

- ⊕ Monitor well location and designation  
 MW-1  
 88.32
- ⊕ Recovery Well
- Estimated limit of plume of contaminated ground water. MW-13 was not tested on 04/11/2001 and is included within the estimated limits of the plume based on historic testing performed by another consultant.



**Figure 1**  
 Ground Water Elevations  
 April 11, 2001  
 Former Circle K  
 Montlake Area  
 Seattle, Washington  
 Pinnacle GeoSciences

N

0 50 100 feet

Scale: 1 inch = 50 feet

Locations of All Features Shown Are Approximate

Pinnacle GeoSciences, Inc.

13620 NE 20th Street, Suite J  
 Bellevue, Washington 98005-4901  
 tel: 425.649.7535 fax: 425.649.7537

Field Report

Project: Mantlake Circle K		File No: 083-001
Owner: Ecology		Date: 4/11/01
Location: Smalle		Report No: _____
Prepared By: NIP	Arrival Time: 0700	Reviewed By: _____
Purpose of Visit: Ground water sampling	Departure Time: 1415	Weather: Clear
Pages: 1 of 2		

I visit site to obtain ground water samples from 14 wells on and in the vicinity of the site. Samples will be tested for BTEX and TPH-G.

On arrival, I unbed purge water drums and set them at the northwest corner of the building. I will treat purge water with an aeration pump as it is being generated. My general plan is to open a well, give it 5 minutes for the water level to equilibrate, measure water level and product it, present, purge three well volumes w/ a stainless steel bailer, sample w/ a disposable bailer, and move on to the next well. Field data is presented in the attached table. Field procedures are described in the attached checklist.

- 0800 - Open MW-5.
- 0855 - Purge MW-5. Very silty
- 0910 - Sample MW-5.
- 0930 - Open MW-12
- 0955 - Purge MW-12 Very silty
- 0950 - Sample MW-12
- 0900 - Move to MW-10. Open
- 0905 - Purge MW-10. Very silty
- 0910 - Sample MW-10.
- 0930 - Open MW-11
- 0935 - Purge MW-11. Moderately silty.
- 0945 - Sample MW-11
- 1000 - Open MW-6. Manometer is completely full of road grime. I dig it out. Same in well
- 1005 - Purge MW-6.
- 1020 - Sample MW-6.
- 1025 - Open MW-14
- 1030 - Purge MW-14.
- 1045 - Sample MW-14

Attachments:

Distribution:

Signed: \_\_\_\_\_

Pinnacle GeoSciences, Inc.

13620 NE 20th Street, Suite J  
 Bellevue, Washington 98005-4901  
 tel: 425.649.7535 fax: 425.649.7537

Field Report

Project: <b>Montlake Creek K</b>	File No: <b>0183-001</b>
	Date: <b>4/11/01</b>
Owner: <b>Ecology</b>	Report No:
Location: <b>Seattle</b>	Page: <b>2 of 2</b>
Arrival Time: <b>0700</b>	Reviewed By:
Departure Time: <b>1415</b>	Weather: <b>Clear</b>
Prepared By: <b>NLP</b>	
Purpose of Visit: <b>G.W. sampling</b>	

- 1050 - Open MW-15
- 1055 - Purge MW-15. Slag odor. Moderately silty, Sheen on purge water.
- 1105 - Sample MW-15.
- 1110 - Open MW-7.
- 1115 - Purge MW-7. Very silty.
- 1130 - Sample MW-7.
- 1155 - Open MW-6.
- 1140 - Purge MW-6. Much iron bacteria. Slow producer. Pails dry several times.
- 1155 - Sample MW-6.
- 1215 - Open MW-8.
- 1220 - Purge MW-8. Petroleum odor. Heavy sheen.
- 1235 - Sample MW-8.
- 1240 - Open MW-9.
- 1245 - Purge MW-9. Petroleum odor, sheen on purge water.
- 1300 - Sample MW-9.
- 1305 - Open MW-9. Well is significantly off-plumb.
- 1310 - Purge MW-9. Petroleum odor, heavy sheen.
- 1305 - Sample MW-9.
- 1330 - Open MW-1.
- 1335 - Purge MW-1.
- 1345 - Sample MW-1.

MW-13 appears to be paved over, but its location is evident by circular cracking of the asphalt-concrete.

- Myeration pump has little effect on the free product on the purge water. Will return later this week to treat w/a sparging blanket.

General note: Most of the well heads are in very poor condition. The manholes do not seal nor do the well caps. In many of the wells there is evidence that surface water is draining into the wells themselves.

1410 - Leave site.

Attachment:

Distribution:

Signed: \_\_\_\_\_



Well Number	Date Time	Casing Elevation	Tape Top	Tape Water	Tape Product	Depth to Water	Water Elevation	Product Thickness	Corrected Elevation	Depth of Casing	Saturated Length	Casing Vapors	Gallons Bailed	Comments
MW-1	3/31/01	10.62	0	-	-	10.23	10.62			2.9	9.3		5	
MW-4	3/31/01	9.97	0	10.20	10.20	10.23	10.23			17.7	7.5		9	
MW-5	3/31/01	11.57	0	-	-	11.57	9.97			25.0	15		8	Very silty
MW-6	4/10/01	8.15	0	-	-	8.15	11.57			20.1	8.5		3	Don't drink casing slt.
MW-7	4/15/01	10.17	0	-	10.17	10.17	11.57			20.2	12.0		6	Casing slt.
MW-8	4/20/01	10.33	0	10.33	10.33	10.33	10.17			18.8	8.6		5	Casing slt.
MW-9	4/25/01	9.66	0	-	-	9.66	10.33			20.1	9.8		5	Casing slt.
MW-10	4/25/01	2.89	0	-	-	2.89	9.66			20.1	10.9		6	Same as MW-12. slt. water. silty.
MW-11	4/25/01	11.19	0	-	-	11.19	2.89			17.9	17.0		8.5	slt. in casing.
MW-12	4/25/01	9.53	0	-	-	9.53	11.19			20.2	9		5	Very silty. slt. in casing about drainage pipe well.
MW-13														
MW-14	4/25/01	8.4	0	-	-	8.4	9.53			10.2	1.7		1	Very silty casing. Petroleum in it.
MW-15	4/25/01	9.11	0	9.11	9.11	9.11	9.11			16.8	7.7		4	
MW-16	4/25/01	9.53				9.53	9.53			18.6	9.2		5	See field report
MW-17														

MW-1  
Time

Date 4/11/01  
Sampler NBP

Location Seattle  
Job # 0183-001

Project Mantle Circle X  
Owner Ecology

GROUND WATER MONITORING/SAMPLING DATA

Pinnacle GeoSciences, Inc.





mca™  
North Creek Analytical, Inc.  
Environmental Laboratory Network  
www.mca-labs.com

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132  
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9210  
(509) 924-9200 FAX 924-9290  
(503) 906-9200 FAX 906-9210  
(541) 383-9310 FAX 382-7588

# CHAIN OF CUSTODY REPORT Work Order #:

CLIENT: Pinnacle GeoSciences REPORT TO: Norm Puri/Steve Miles (Glacier Environmental Services) ADDRESS: PHONE: PROJECT NAME: Montlake Circle K PROJECT NUMBER: SAMPLED BY: NLP	INVOICE TO: Glacier Environmental Services Attn: Mr. Steve Miles P.O. NUMBER: REQUESTED ANALYSES	TURNAROUND REQUEST in Business Days* Organic & Inorganic Analytes: <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petrochem Hydrocarbon Analytes: <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER: Please Specify	NCA NO ID COMMENTS # OF CONT. MATRIX (W, S, O) W 3 (Empty grid with handwritten 'W' and '3' in the first cell)																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CLIENT SAMPLE IDENTIFICATION</th> <th>SAMPLING DATE/TIME</th> <th>RECEIVED BY:</th> <th>DATE:</th> <th>PRINT NAME:</th> <th>DATE:</th> <th>PRINT NAME:</th> </tr> </thead> <tbody> <tr> <td>1. MW-1</td> <td>4/11/01 1345</td> <td rowspan="15" style="vertical-align: middle; text-align: center;">           RECEIVED BY: <i>Karla Kucorowski</i>            PRINT NAME: <i>Karla Kucorowski</i>            RECEIVED BY:            PRINT NAME:         </td> <td>DATE: 4/11/01</td> <td>NCA</td> <td>DATE: 4/11/01</td> <td>DATE: 4/11/01</td> </tr> <tr><td>2. MW-4</td><td>1305</td></tr> <tr><td>3. MW-5</td><td>0820</td></tr> <tr><td>4. MW-6</td><td>1155</td></tr> <tr><td>5. MW-7</td><td>1130</td></tr> <tr><td>6. MW-8</td><td>1235</td></tr> <tr><td>7. MW-9</td><td>1300</td></tr> <tr><td>8. MW-10</td><td>0920</td></tr> <tr><td>9. MW-11</td><td>0945</td></tr> <tr><td>10. MW-12</td><td>0830</td></tr> <tr><td>11. MW-14</td><td>1245</td></tr> <tr><td>12. MW-15</td><td>1105</td></tr> <tr><td>13. MW-16</td><td>1000</td></tr> <tr><td>14.</td><td></td></tr> <tr><td>15.</td><td></td></tr> </tbody> </table>				CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	RECEIVED BY:	DATE:	PRINT NAME:	DATE:	PRINT NAME:	1. MW-1	4/11/01 1345	RECEIVED BY: <i>Karla Kucorowski</i> PRINT NAME: <i>Karla Kucorowski</i> RECEIVED BY: PRINT NAME:	DATE: 4/11/01	NCA	DATE: 4/11/01	DATE: 4/11/01	2. MW-4	1305	3. MW-5	0820	4. MW-6	1155	5. MW-7	1130	6. MW-8	1235	7. MW-9	1300	8. MW-10	0920	9. MW-11	0945	10. MW-12	0830	11. MW-14	1245	12. MW-15	1105	13. MW-16	1000	14.		15.	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	RECEIVED BY:	DATE:	PRINT NAME:	DATE:	PRINT NAME:																																							
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15.																																													
RELINQUISHED BY: <i>[Signature]</i> DATE: 4/11/01 TIME: 11:10 PRINT NAME: Pinnacle GeoSciences FIRM: NCA RELINQUISHED BY: DATE: TIME: PRINT NAME: FIRM:																																													
ADDITIONAL REMARKS: P.M. Scott Wierman COC REV.099																																													

# PINNACLE GEOSCIENCES, INC. FIELD PROCEDURES GROUND WATER CHECKLIST

PROJECT NAME: Montlake Circle K  
PROJECT LOCATION: Seattle  
JOB NUMBER: 0183-001

## 1.0 GROUND WATER SAMPLING

### 1.1 SAMPLE POINT DESCRIPTION

- Excavation or testpit
- GeoProbe
- Temporary wellpoint (specify) \_\_\_\_\_
- Monitoring well, 2-inch
- Monitoring well, 4-inch
- Other (specify) \_\_\_\_\_

### 1.2 PURGE METHOD

- None
- Low flow with physical parameter measurement
- Hand bail stainless steel bailer
- Submersible pump (specify) \_\_\_\_\_
- Suction pump (specify) \_\_\_\_\_
- Peristaltic pump
- Other (specify) \_\_\_\_\_

1.3 SAMPLING METHOD

- Pump (specify) \_\_\_\_\_
- Disposable bailer
- Disposable pressure bailer
- Disposable VOA dispenser
- 0.45 micron filter (dissolved metals only unless specified)
- Non-disposable bailer (specify) \_\_\_\_\_

2.0 MEASUREMENTS

2.1 ITEM MEASURED

- Depth to water
- Depth to water/product
- Wellhead elevation
- Water physical parameters (specify) \_\_\_\_\_

2.2 MEASUREMENT METHOD

- Tape and paste
- Electric water level indicator (specify) \_\_\_\_\_
- Electric water/product level indicator (specify) *Suspected product wells only*
- Meters (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

3.0 DECONTAMINATION

3.1 EQUIPMENT DECONTAMINATED

- Power drilling equipment
- Hand drilling or soil sampling
- Ground water measurement
- Ground water sampling
- Other (specify) \_\_\_\_\_

3.2 METHOD

- Power steam cleaner
- Liquinox-solution wash with distilled water rinse
- Other (specify) \_\_\_\_\_

4.0 SAMPLE HANDLING AND TRANSPORTATION

4.1 TRANSPORTATION AND DELIVERY

- Direct delivery to lab by Pinnacle GeoSciences
- Pickup by lab courier
- Ship to lab (specify shipper) \_\_\_\_\_
- Stop over at Pinnacle GeoSciences
- Other (specify) \_\_\_\_\_

4.2 COOLING AND PACKAGING

- Cooler with ice
- Hold over in Pinnacle GeoSciences refrigerator
- Packaging material used (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

4.3 CHAIN-OF-CUSTODY PROCEDURE

- Chain-of-custody direct to lab
- Chain-of-custody with intermediary (specify) \_\_\_\_\_
- \_\_\_\_\_
- Other (specify) \_\_\_\_\_



# CHAIN OF CUSTODY REPORT

## Work Order #:

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 (509) 924-9200 FAX 924-9290  
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210  
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (541) 383-9310 FAX 382-7588

CLIENT: Pinnacle GeoSciences  
 REPORT TO: Norm Puri / Steve Miles (Glacier Environmental Services)  
 ADDRESS: Attn. Mr. Steve Miles  
 PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: Montlake Circle K  
 PROJECT NUMBER: \_\_\_\_\_  
 SAMPLED BY: NLP

INVOICE TO: Glacier Environmental Services  
Attn. Mr. Steve Miles

TURNAROUND REQUEST in Business Days\*

Organic & Inorganic Analyses: 10 [ ] 7 [ ] 5 [ ] 4 [ ] 3 [ ] 2 [ ] 1 [ ] <1 [ ]  
 Petroleum Hydrocarbon Analyses: 8 [ ] 4 [ ] 3 [ ] 2 [ ] 1 [ ] <1 [ ]  
 STD. [ ] OTHER [ ] Please Specify \_\_\_\_\_

P.O. NUMBER: \_\_\_\_\_ REQUESTED ANALYSES: \_\_\_\_\_

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WC ID
1. MW-1	4/11/01 1345	X															W	3		
2. MW-4	1305	X																		
3. MW-5	0820	X																		
4. MW-6	1155	X																		
5. MW-7	1130	X																		
6. MW-8	1235	X																		
7. MW-9	1300	X																		
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10. MW-12	0830	X																		
11. MW-14	1415	X																		
12. MW-15	1105	X																		
13. MW-16	1020	X																		
14.																				
15.																				

\*Turnaround Requests less than standard may incur Rush Charges.

RELINQUISHED BY: [Signature] DATE: 4/11/01  
 PRINT NAME: Pinnacle GeoSciences FIRM: Norman Puri  
 RECEIVED BY: [Signature] DATE: 4/11/01  
 PRINT NAME: YARLA KACORINSKI FIRM: NCA  
 RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINT NAME: \_\_\_\_\_ FIRM: \_\_\_\_\_  
 ADDITIONAL REMARKS: P.M. Scott Weberman  
 SAMPLES WERE NOT @ 2-6C UPON RECEIPT



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Glacier Environmental  
12521 Evergreen Dr., Ste A  
Mukilteo WA, 98275

Project: Montlake Circle K  
Project Number: not provided  
Project Manager: Steve Miles

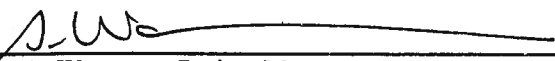
**Reported:**  
04/18/01 13:58

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	B1D0256-01	Water	04/11/01 13:45	04/11/01 16:00
MW-4	B1D0256-02	Water	04/11/01 13:25	04/11/01 16:00
MW-5	B1D0256-03	Water	04/11/01 08:20	04/11/01 16:00
MW-6	B1D0256-04	Water	04/11/01 11:55	04/11/01 16:00
MW-7	B1D0256-05	Water	04/11/01 11:30	04/11/01 16:00
MW-8	B1D0256-06	Water	04/11/01 12:35	04/11/01 16:00
MW-9	B1D0256-07	Water	04/11/01 13:00	04/11/01 16:00
MW-10	B1D0256-08	Water	04/11/01 09:20	04/11/01 16:00
MW-11	B1D0256-09	Water	04/11/01 09:45	04/11/01 16:00
MW-12	B1D0256-10	Water	04/11/01 08:50	04/11/01 16:00
MW-14	B1D0256-11	Water	04/11/01 10:45	04/11/01 16:00
MW-15	B1D0256-12	Water	04/11/01 11:05	04/11/01 16:00
MW-16	B1D0256-13	Water	04/11/01 10:20	04/11/01 16:00

North Creek Analytical - Bothell

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

  
Scott A. Woerman, Project Manager

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
 425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
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Glacier Environmental  
 12521 Evergreen Dr., Ste A  
 Mukilteo WA, 98275

Project: Montlake Circle K  
 Project Number: not provided  
 Project Manager: Steve Miles

**Reported:**  
 04/18/01 13:58

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (B1D0256-01) Water</b> Sampled: 04/11/01 13:45 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/13/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	104 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	95.4 %	50-150			"	"	"	"	
<b>MW-4 (B1D0256-02) Water</b> Sampled: 04/11/01 13:25 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	117000	25000	ug/l	500	1D13003	04/13/01	04/14/01	NWTPH-Gx/8021B	
Benzene	7370	250	"	"	"	"	"	"	
Toluene	28000	250	"	"	"	"	"	"	
Ethylbenzene	2680	250	"	"	"	"	"	"	
Xylenes (total)	17100	500	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	104 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	98.1 %	50-150			"	"	"	"	
<b>MW-5 (B1D0256-03) Water</b> Sampled: 04/11/01 08:20 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/13/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	102 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	98.1 %	50-150			"	"	"	"	





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Glacier Environmental  
 12521 Evergreen Dr., Ste A  
 Mukilteo WA, 98275

Project: Montlake Circle K  
 Project Number: not provided  
 Project Manager: Steve Miles

Reported:  
 04/18/01 13:58

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (B1D0256-04) Water</b> Sampled: 04/11/01 11:55 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/13/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	102 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	97.7 %	50-150			"	"	"	"	
<b>MW-7 (B1D0256-05) Water</b> Sampled: 04/11/01 11:30 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/13/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	100 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	97.7 %	50-150			"	"	"	"	
<b>MW-8 (B1D0256-06) Water</b> Sampled: 04/11/01 12:35 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	46400	10000	ug/l	200	1D13003	04/13/01	04/14/01	NWTPH-Gx/8021B	
Benzene	802	100	"	"	"	"	"	"	
Toluene	9770	100	"	"	"	"	"	"	
Ethylbenzene	1520	100	"	"	"	"	"	"	
Xylenes (total)	7030	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	105 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	95.8 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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 Scott A. Woerman, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



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Glacier Environmental  
 12521 Evergreen Dr., Ste A  
 Mukilteo WA, 98275

Project: Montlake Circle K  
 Project Number: not provided  
 Project Manager: Steve Miles

Reported:  
 04/18/01 13:58

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-9 (B1D0256-07) Water</b> Sampled: 04/11/01 13:00 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	35400	2500	ug/l	50	1D13003	04/13/01	04/14/01	NWTPH-Gx/8021B	
Benzene	420	25.0	"	"	"	"	"	"	
Toluene	2310	25.0	"	"	"	"	"	"	
Ethylbenzene	1500	25.0	"	"	"	"	"	"	
Xylenes (total)	7350	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	110 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	50-150			"	"	"	"	
<b>MW-10 (B1D0256-08) Water</b> Sampled: 04/11/01 09:20 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/13/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	102 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	97.3 %	50-150			"	"	"	"	
<b>MW-11 (B1D0256-09) Water</b> Sampled: 04/11/01 09:45 Received: 04/11/01 16:00									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/13/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	102 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	98.3 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Glacier Environmental  
 12521 Evergreen Dr., Ste A  
 Mukilteo WA, 98275

Project: Montlake Circle K  
 Project Number: not provided  
 Project Manager: Steve Miles

Reported:  
 04/18/01 13:58

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-12 (B1D0256-10) Water</b> <b>Sampled: 04/11/01 08:50</b> <b>Received: 04/11/01 16:00</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/14/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	109 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	96.2 %	50-150			"	"	"	"	
<b>MW-14 (B1D0256-11) Water</b> <b>Sampled: 04/11/01 10:45</b> <b>Received: 04/11/01 16:00</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/14/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	106 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	98.3 %	50-150			"	"	"	"	
<b>MW-15 (B1D0256-12) Water</b> <b>Sampled: 04/11/01 11:05</b> <b>Received: 04/11/01 16:00</b>									
Gasoline Range Hydrocarbons	23800	2500	ug/l	50	1D13003	04/13/01	04/14/01	NWTPH-Gx/8021B	
Benzene	58.4	25.0	"	"	"	"	"	"	I-06
Toluene	310	25.0	"	"	"	"	"	"	
Ethylbenzene	526	25.0	"	"	"	"	"	"	
Xylenes (total)	2920	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	115 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	95.4 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Glacier Environmental  
 12521 Evergreen Dr., Ste A  
 Mukilteo WA, 98275

Project: Montlake Circle K  
 Project Number: not provided  
 Project Manager: Steve Miles

Reported:  
 04/18/01 13:58

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-16 (B1D0256-13) Water    Sampled: 04/11/01 10:20    Received: 04/11/01 16:00</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1D13003	04/13/01	04/14/01	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	103 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	100 %	50-150			"	"	"	"	



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Glacier Environmental  
 12521 Evergreen Dr., Ste A  
 Mukilteo WA, 98275

Project: Montlake Circle K  
 Project Number: not provided  
 Project Manager: Steve Miles

**Reported:**  
 04/18/01 13:58

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1D13003: Prepared 04/13/01 Using EPA 5030B (P/T)**

**Blank (1D13003-BLK1)**

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	48.9		"	48.0		102	50-150			
Surrogate: 4-BFB (PID)	46.7		"	48.0		97.3	50-150			

**Blank (1D13003-BLK2)**

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	51.3		"	48.0		107	50-150			
Surrogate: 4-BFB (PID)	47.8		"	48.0		99.6	50-150			

**LCS (1D13003-BS1)**

Gasoline Range Hydrocarbons	488	50.0	ug/l	500		97.6	70-130			
Surrogate: 4-BFB (FID)	54.5		"	48.0		114	50-150			

**LCS (1D13003-BS3)**

Gasoline Range Hydrocarbons	465	50.0	ug/l	500		93.0	70-130			
Surrogate: 4-BFB (FID)	52.7		"	48.0		110	50-150			

**Duplicate (1D13003-DUP1)**

**Source: B1D0256-02**

Gasoline Range Hydrocarbons	113000	2500	ug/l		117000			3.48	25	
Surrogate: 4-BFB (FID)	54.2		"	48.0		113	50-150			

North Creek Analytical - Bothell

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North Creek Analytical, Inc.  
 Environmental Laboratory Network

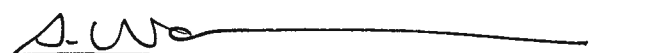


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Glacier Environmental 12521 Evergreen Dr., Ste A Mukilteo WA, 98275	Project: Montlake Circle K Project Number: not provided Project Manager: Steve Miles	Reported: 04/18/01 13:58
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**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1D13003: Prepared 04/13/01 Using EPA 5030B (P/T)</b>										
<b>Duplicate (1D13003-DUP2)</b>					<b>Source: B1D0256-07</b>					
Gasoline Range Hydrocarbons	33600	10000	ug/l		35400			5.22	25	
Surrogate: 4-BFB (FID)	48.8		"	48.0		102	50-150			
<b>Matrix Spike (1D13003-MS1)</b>					<b>Source: B1D0256-01</b>					
Benzene	9.73	0.500	ug/l	10.0	ND	96.2	70-130			
Toluene	9.97	0.500	"	10.0	ND	98.7	70-130			
Ethylbenzene	9.83	0.500	"	10.0	ND	98.3	70-130			
Xylenes (total)	29.3	1.00	"	30.0	ND	96.7	70-130			
Surrogate: 4-BFB (PID)	47.9		"	48.0		99.8	50-150			
<b>Matrix Spike Dup (1D13003-MSD1)</b>					<b>Source: B1D0256-01</b>					
Benzene	9.68	0.500	ug/l	10.0	ND	95.7	70-130	0.515	15	
Toluene	9.94	0.500	"	10.0	ND	98.4	70-130	0.301	15	
Ethylbenzene	9.82	0.500	"	10.0	ND	98.2	70-130	0.102	15	
Xylenes (total)	29.3	1.00	"	30.0	ND	96.7	70-130	0.00	15	
Surrogate: 4-BFB (PID)	47.6		"	48.0		99.2	50-150			

  
 Scott A. Woerman, Project Manager



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Glacier Environmental  
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 Mukilteo WA, 98275

Project: Montlake Circle K  
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 Project Manager: Steve Miles

**Reported:**  
 04/18/01 13:58

**Notes and Definitions**

- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





# CHAIN OF CUSTODY REPORT

## Work Order #:

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 (509) 924-9200 FAX 924-9290  
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210  
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (541) 383-9310 FAX 382-7588

TURNAROUND REQUEST in Business Days\*

Organic & Inorganic Analyses: 10 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 4 3 2 1 <1

STD.  5  4  3  2  1  <1

STD.  7  5  4  3  2  1  <1

OTHER:  Please Specify \_\_\_\_\_

\*Turnaround Requests less than standard may incur Rush Charges.

INVOICE TO: *Glacier Environmental Services*  
 Attn: Mr. Steve Miles

P.O. NUMBER: \_\_\_\_\_

CLIENT: *Pinnacle Geosciences*  
 REPORT TO: *Norm Puri / Steve Miles (Glacier Environmental Services)*  
 ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES										MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WC ID			
1. MW-1	4/11/01 1345	X	X	X	X	X	X	X	X	X	X	X	X	X	W	3		
2. MW-4	1325	X	X	X	X	X	X	X	X	X	X	X	X					
3. MW-5	0820	X	X	X	X	X	X	X	X	X	X	X	X					
4. MW-6	1155	X	X	X	X	X	X	X	X	X	X	X	X					
5. MW-7	1130	X	X	X	X	X	X	X	X	X	X	X	X					
6. MW-8	1235	X	X	X	X	X	X	X	X	X	X	X	X					
7. MW-9	1300	X	X	X	X	X	X	X	X	X	X	X	X					
8. MW-10	0920	X	X	X	X	X	X	X	X	X	X	X	X					
9. MW-11	0945	X	X	X	X	X	X	X	X	X	X	X	X					
10. MW-12	0850	X	X	X	X	X	X	X	X	X	X	X	X					
11. MW-14	1415	X	X	X	X	X	X	X	X	X	X	X	X					
12. MW-15	1105	X	X	X	X	X	X	X	X	X	X	X	X					
13. MW-16	1020	X	X	X	X	X	X	X	X	X	X	X	X					
14.																		
15.																		

RELIQUISHED BY: *[Signature]* DATE: 4/11/01

PRINT NAME: *Pinnacle Geosciences* FIRM: *Norman Per*

RECEIVED BY: *[Signature]* DATE: 4/11/01

PRINT NAME: *YARLA KACORANSKI* FIRM: *NCA*

RELIQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_ FIRM: \_\_\_\_\_

ADDITIONAL REMARKS: *P.M. Scott Weberman*

DATE: 4/11/01

TIME: 10:10

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

TEMP: *10.7.2*

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