District I Hobbs, NM District II P.O. Drawer DD, Artesia, NM 88211 District III 1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico P.O. Box 1980, Energy, Minerals and Natural Resources Department APPROPRIATE

SUBMIT 1 COPY TO

DISTRICT OFFICE AND 1 COPY TO

SANTA FE OFFICE

(Revised 3/9/94)

Telephone: 1-800-839-5506

oil conservation division

1220 St. Francis Drive

Sep #1

Santa Fe, New Mexico 87505

Sep #2

### PIT REMEDIATION AND CLOSURE REPORT

Operator: Hallador Petroleum, LLP

Address: 1660 Lincoln Street, Denver CO. 80264\_

Well Name: Horton 3A

Location: Unit E, Sec.13 T32N R12W, County: San Juan, NM

Pit Type: Separator x Dehydrator Other Production Pit #1

Land Type: BLM

Pit Location: Pit dimensions: length 25' width 20' depth 21'

(Attach diagram)

Reference: wellhead  $\underline{x}$ 

Footage from reference: 40'

Direction from reference: 70° Degrees East of North

Less than 50 feet (20 points) Depth To Ground Water: (10 points) 50 feet to 99 feet (Vertical distance from Greater than 100 feet (0 points) contaminants to seasonal high water elevation of

ground water)

(20 points) Wellhead Protection Area: Yes (0 points) No (Less than 200 feet from a private

domestic water source, or; less than

1000 feet from all other water sources)

Less than 200 feet (20 ponts) Distance To Surface Water:

200 feet to 1000 feet (10 points) <u>10</u> (Horizontal distance to perennial

0

Greater than 1000 feet (10 points) lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 10

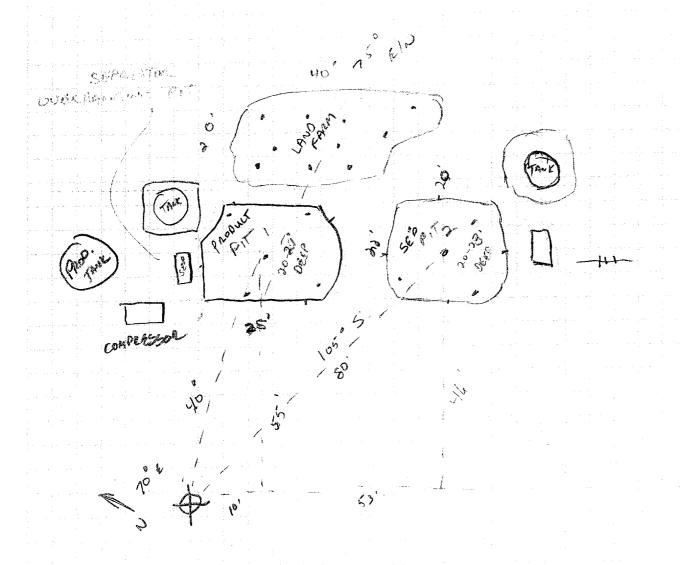
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Date Remediation Started:	10/1999	Date Completed: 10/30/2000
Remediation Method: Excav	ration <u>x</u>	Approx. cubic yards 389
sections) L	andfarmed $\underline{x}$	Insitu Bioremediation
Remediation Location: Ons	ite landfarmed	
were turned ten (10) times land farm remediation trea limited on the north side	in a seven-month per ted soils were backfi due to existing surfa	
Ground Water Encountered:	No x_ Yes	Depth
Closure Sampling:		
	Sample depth 1' bel Lab ID Product Pit Sample date 10/30/0 Sample Results  Benzene (ppm) Total BTEX (ppm Field Headspace TPH 26mq/Kq  Sample Location Side Sample depth 3-4' Bo Lab ID Product Pit Se	excavation bottom 5 point composite ow pit bottom approximately 21' B3S  CPC 0 Sample time 10:20 AM  NA m) NA e (ppm) 0.0  e wall four point composite GS SWC 0 Sample time 10:30 AM
Ground Water Sample: Yes	NO X	
. ,	TROLEUM, I HEREBY CEI KNOWLEDGE AND BELIEF	RTIFY THAT THE INFORMATION ABOVE ::S TRUE AND
SIGNATURE SIGNATURE		NAME <u>John Hagstrom</u> TITLE <u>Environmental Technician</u>
(OCD DOC)		



DATE (0/30/00 BY 194-

SUBJECT HORTON 3A

NW /4 SEC 13 T32N RIZW SJ COUNTY SF 0761474





LAB: (505) 325-1556 FAX: (505) 327-1496

November 20, 2000

John Hagstrom On Site Technologies Limited 612 E. Murray Drive P.O. Box 2606 Farmington, NM 87499 TEL: (505) 325-5667 FAX (505) 327-1496

RE: 4-1771; Hallador Pits

Order No.: 0010049

Dear John Hagstrom,

On Site Technologies, LTD. received 5 samples on 10/30/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

SOPREP SONICATION: TPH 418.1 (SW3550A)

TPH, T/R Soil (E418.1)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Cox

LAB: (505) 325-1556 FAX: (505) 327-1496

### On Site Technologies, LTD.

**Date:** 20-Nov-00

CLIENT:

On Site Technologies Limited

Project:

4-1771; Hallador Pits

Lab Order:

0010049

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).



LAB: (505) 325-1556 FAX: (505) 327-1496

### ANALYTICAL REPORT

**Date:** 20-Nov-00

Client:

On Site Technologies Limited

Work Order:

0010049

0010049-01A

Matrix: SOIL

Lab ID: Project:

4-1771; Hallador Pits

Client Sample Info: Hallador Pits

Client Sample ID: Horton 3A Product Pit CPC

Collection Date: 10/30/2000 10:20:00 AM

COC Record: 10990

Parameter	Result	PQL Qu	al Units	DF	Date Analyzed
TPH, T/R SOIL	E	418.1			Analyst: <b>DM</b>
Petroleum Hydrocarbons, T/R	26	25	mg/Kg	1	11/16/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

E - Value above qualititation range

Surr: - Surrogate

1 of 5

P.O. BOX 2606 • FARMINGTON, NM 87499 EMAIL: ONSITE@ONSITELTD.COM



LAB: (505) 325-1556 FAX: (505) 327-1496

### ANALYTICAL REPORT

**Date:** 20-Nov-00

Client:

On Site Technologies Limited

Work Order:

0010049

0010049-02A

Matrix: SOIL

Lab ID: Project:

4-1771; Hallador Pits

Client Sample Info: Hallador Pits

Client Sample ID: Horton 3A Product Pit SWC

Collection Date: 10/30/2000 10:30:00 AM

COC Record: 10990

Parameter	Result	PQL Qu	al Units	DF	Date Analyzed
TPH, T/R SOIL Petroleum Hydrocarbons, T/R	<b>E</b> -	<b>418.1</b> 25	mg/Kg	1	Analyst: <b>DM</b>

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

2 of 5

### ON SITE TECHNOLOGIES, LTD.

# CHAIN OF CUSTODY RECORD

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499 LAB: (505) 325-5667 • FAX: (505) 327-1496

Date: of

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P.O. Drawer DD,

1220 St Francis Drive

Santa Fe, New Mexico 87505

(Revised 3/9/94)

### PIT REMEDIATION AND CLOSURE REPORT

Telephone: 1-800-839-5506 Operator: Hallador Petroleum, LLP

Address: 1660 Lincoln Street, Denver CO. 80264

Well Name: Horton 3A

Location: Unit E, Sec.13 T32N R12W, County:San Juan, NM

Pit Type: Separator  $\underline{x}$  Dehydrator Other Sep Pit #2

Land Type: BLM

Pit Location: Pit dimensions: length 22' width 20' depth 23'

(Attach diagram)

Reference: wellhead  $\underline{x}$ 

Footage from reference: 80'

Direction from reference: 15 Degrees South of East

Less than 50 feet (20 points) Depth To Ground Water: (10 points) 50 feet to 99 feet (Vertical distance from Greater than 100 feet (0 points) contaminants to seasonal high water elevation of

ground water)

Wellhead Protection Area:

(20 points) Yes (Less than 200 feet from a private (0 points) domestic water source, or; less than No

1000 feet from all other water sources) 0

Less than 200 feet (20 points) Distance To Surface Water: 200 feet to 1,000 feet (10 points) (Horizontal distance to perennial

10

Greater than 1,000 feet (0 points) lakes, ponds, rivers, streams, creeks,

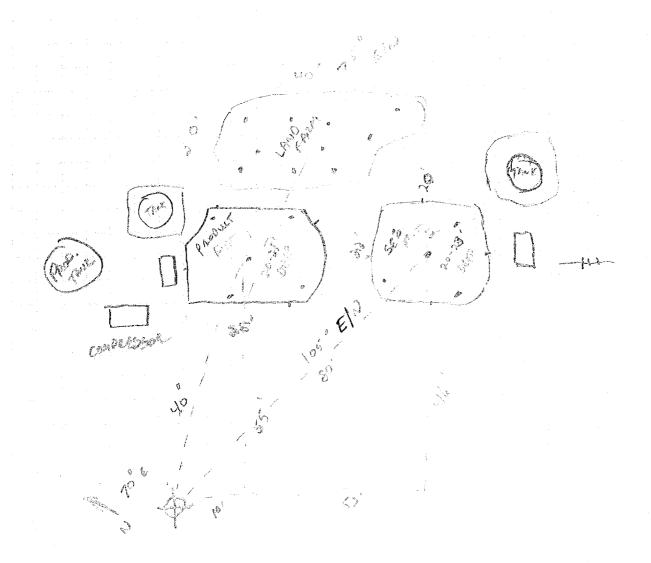
irrigation canals and ditches) RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 10/1999 Date Completed: 10/30/2000 Remediation Method: Excavation  $\underline{\mathbf{x}}$ Approx. cubic yards 375 (Check all appropriate sections) Landfarmed  $\underline{x}$ Insitu Bioremediation Remediation Location: Onsite landfarmed General Description Of Remedial Action: Contaminated soils were excavated from the pit area to bedrock of shale at approx. 23 feet. Recovered soil was distributed on the location and plowed/tilled ten (10) times over a seven-month period. Following clearance sampling and landfarm remediation, treated soils were backfilled in the original pit area. Ground Water Encountered: No <u>x</u> Yes \_\_\_ Closure Sampling Sample Horton 3A Sep Pit #2 5 point composite Sample location Pit excavation bottom Sample depth 1' below pit bottom approximately 23' BGS Lab ID Sep Pit CPC Sample date 10/30/00 Sample time 10:50 AM Sample Results Benzene (ppm) NA Total BTEX (ppm) NA Field Headspace (ppm) 0.0 TPH ND Sample location Side wall 4 point composite Sample depth 3-4' BGS Lab ID Sep Pit SWC Sample Date 10/30/00 Sample time 11:00 AM Sample Results Benzene (ppm) NA Total BTEX (ppm) NA Field Headspace (ppm) 0.0 TPH ND AS AN AUTHORIZED AGENT FOR HALLADOR PETROLEUM, I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE 4/4/01 NAME John Hagstrom SIGNATURE TITLE Environmental Technician



DATE	19/30/00
BY	Mi
DI/	7

SUBJECT HORTOS) 38 WW / BEC 13 T3243 R 1000 SJE0227 SF 0761476





LAB: (505) 325-1556

FAX: (505) 327-1496

Order No.: 0010049

OFF: (505) 325-5667 FAX: (505) 327-1496

November 20, 2000

John Hagstrom On Site Technologies Limited 612 E. Murray Drive P.O. Box 2606 Farmington, NM 87499 TEL: (505) 325-5667 FAX (505) 327-1496

RE: 4-1771; Hallador Pits

Dear John Hagstrom,

On Site Technologies, LTD. received 5 samples on 10/30/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests: SOPREP SONICATION: TPH 418.1 (SW3550A) TPH, T/R Soil (E418.1)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Cox



LAB: (505) 325-1556 FAX: (505) 327-1496

### On Site Technologies, LTD.

**Date:** 20-Nov-00

**CLIENT:** 

On Site Technologies Limited

Project:

4-1771; Hallador Pits

Lab Order:

0010049

**CASE NARRATIVE** 

Samples were analyzed using the methods outlined in the following references:

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).



LAB: (505) 325-1556 FAX: (505) 327-1496

### ANALYTICAL REPORT

**Date:** 20-Nov-00

Client:

On Site Technologies Limited

Work Order:

0010049

Lab ID: Project:

0010049-03A

Matrix: SOIL

4-1771; Hallador Pits

Client Sample Info: Hallador Pits

Client Sample ID: Horton 3A Sep. Pit CPC

Collection Date: 10/30/2000 10:50:00 AM.

COC Record: 10990

Parameter	Result	PQL Qu	al Units	DF	Date Analyzed
TPH, T/R SOIL	E	418.1			Analyst: <b>DM</b>
Petroleum Hydrocarbons, T/R	ND	25	mg/Kg	1	11/16/2000

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

3 of 5



LAB: (505) 325-1556 FAX: (505) 327-1496

ANALYTICAL REPORT

**Date:** 20-Nov-00

Client:

On Site Technologies Limited

Work Order:

0010049

Lab ID:

0010049-04A

Matrix: SOIL

Project:

4-1771; Hallador Pits

Client Sample Info: Hallador Pits

Client Sample ID: Horton 3A Sep. Pit SWC
Collection Date: 10/30/2000 11:00:00 AM

COC Record: 10990

Parameter	Result	PQL Qu	al Units	DF	Date Analyzed
TPH, T/R SOIL Petroleum Hydrocarbons, T/R	E.	<b>418</b> .1 25	mg/Kg	1	Analyst: <b>DM</b> 11/16/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

4 of 5



## CHAIN OF CUSTODY RECORD

Date: 🔼 🛸 👉

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499 LAB: (505) 325-5667 • FAX: (505) 327-1496

TECHNOLOGIES, LTD.

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District III

OIL CONSERVATION DIVISION

SANTA FE OFFICE

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1220 St. Francis Drive Santa, Fe NM 87505

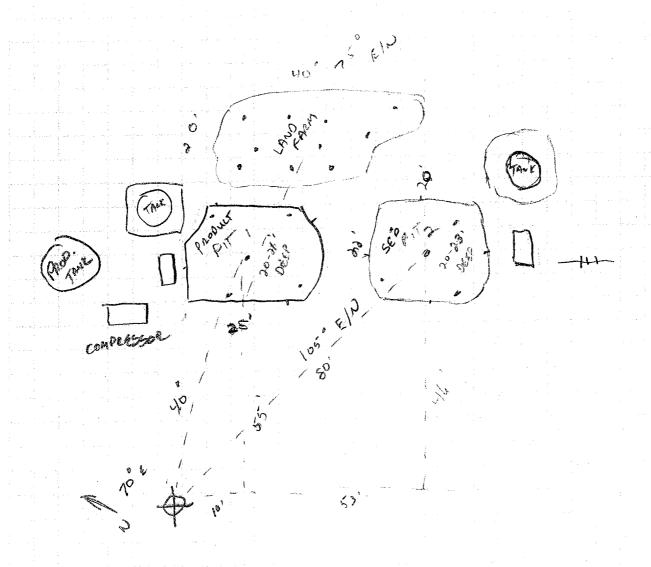
### Landfarm Remediation and Closure Report

Owner/Operator: Hallador Petroleum, LLP Telephone:1-800-839-5506
Address: 1660 Lincoln Street Denver, CO 80264
Facility or Well Name: Horton 3A
Location: Unit E, Section: 13 T32N R12W County: San Juan, NM
Land Type BLM X, State, Fee, Other
Landfarm location Length: 40' Width: 20'
Reference: Wellhead: X Other:
Footage from reference: 60'
Direction from reference: 75°East of North
Refer to attached map for land farm location
and a supra
GENERAL DISCRIPTION of LANDFARM ACTIVITIES: Contaminated soils from pits 1 and 2 were
excavated to bedrock. Soils from both pits were distributed on location and turned ten
(10) times in a seven (7) month period. Following landfarm remediation, soils were
sampled for clearance and backfilled in the original pit areas.
CAMBITMC INFORMATION
SAMPLING INFORMATION  Type of sample: Grab: Composite: 10 points
Cample Depth · 0-12"
Sample Depth: 0-12"
Sample Date: <u>10/30/00</u>
Sample Date: <u>10/30/00</u> Sample Time: <u>10:40</u> Laboratory Analysis: BTEX (ppm) TPH ND(ppm)
Sample Date: 10/30/00 Sample Time: 10:40 Laboratory Analysis: BTEX (ppm) TPH ND(ppm) OVM/PID 0.0 units
Sample Date: <u>10/30/00</u> Sample Time: <u>10:40</u> Laboratory Analysis: BTEX (ppm) TPH ND(ppm)
Sample Date: $10/30/00$ Sample Time: $10:40$ Laboratory Analysis: BTEX (ppm) TPH ND(ppm) OVM/PID $0.0$ units Refer to attached map for sample location. Laboratory results attached
Sample Date: 10/30/00 Sample Time: 10:40 Laboratory Analysis: BTEX (ppm) TPH ND (ppm)  OVM/PID 0.0 units  Refer to attached map for sample location. Laboratory results attached  AS AN AUTHORIZED AGENT FOR HALLADOR PETROLEUMI HEREBY CERTIFY THAT THE INFORMATION ABOVE
Sample Date: $10/30/00$ Sample Time: $10:40$ Laboratory Analysis: BTEX (ppm) TPH ND(ppm) OVM/PID $0.0$ units Refer to attached map for sample location. Laboratory results attached
Sample Date: 10/30/00   Sample Time: 10:40   Laboratory Analysis: BTEX (ppm)   TPH ND (ppm)   OVM/PID 0.0 units   Refer to attached map for sample location. Laboratory results attached    AS AN AUTHORIZED AGENT FOR HALLADOR PETROLEUMI HEREBY CERTIFY THAT THE INFORMATION ABOVE
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Sample Date: 10/30/00 Sample Time: 10:40 Laboratory Analysis: BTEX (ppm) TPH ND(ppm)  OVM/PID 0.0 units Refer to attached map for sample location. Laboratory results attached  AS AN AUTHORIZED AGENT FOR HALLADOR PETROLEUMI HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF  Date:
Sample Date: 10/30/00 Sample Time: 10:40 Laboratory Analysis: BTEX (ppm) TPH ND(ppm)  OVM/PID 0.0 units  Refer to attached map for sample location. Laboratory results attached
Sample Date: 10/30/00 Sample Time: 10:40  Laboratory Analysis: BTEX (ppm) TPH ND (ppm)  OVM/PID 0.0 units  Refer to attached map for sample location. Laboratory results attached  AS AN AUTHORIZED AGENT FOR HALLADOR PETROLEUMI HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF  Date:



DATE 10/30/00
BY 1914

SUBJECT HORTON 3A WW'/4 SEC 13 T32N RIZW SJCONNTY SF0781474





November 20, 2000

LAB: (505) 325-1556 FAX: (505) 327-1496

Order No.: 0010049

John Hagstrom
On Site Technologies Limited
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87499
TEL: (505) 325-5667
FAX (505) 327-1496

RE: 4-1771; Hallador Pits

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Sincerely,

David Cox



LAB: (505) 325-1556 FAX: (505) 327-1496

### On Site Technologies, LTD.

**Date:** 20-Nov-00

**CLIENT:** 

On Site Technologies Limited

Project:

4-1771; Hallador Pits

Lab Order:

0010049

**CASE NARRATIVE** 

Samples were analyzed using the methods outlined in the following references:

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).



LAB: (505) 325-1556 FAX: (505) 327-1496

### ANALYTICAL REPORT

**Date:** 20-Nov-00

Client:

On Site Technologies Limited

Work Order:

0010049

Lab ID:

0010049-05A

Matrix: SOIL

Project:

4-1771; Hallador Pits

Client Sample Info: Hallador Pits

Client Sample ID: Horton 3A Landfarm

Collection Date: 10/30/2000 10:40:00 AM

COC Record: 10990

Parameter	Result	PQL Qu	al Units	DF	Date Analyzed
<b>TPH, T/R SOIL</b> Petroleum Hydrocarbons, T/R	E. ND	<b>418.1</b> 25	mg/Kg	1	Analyst: <b>DM</b>

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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Date: 15/3/20

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Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

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