



Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

November 15, 2024

Project Name - Noble Pad PW Dumpline Release Project Number - [none]

Attached are your analytical results for Noble Pad PW Dumpline Release received by Origins Laboratory November 13, 2024. This project is associated with Origins project number E4K0340-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-FS-01@11'	E4K0340-01	Soil	November 13, 2024 10:26	11/13/2024 12:40

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

ORIGINS LABORATORY

ORIGINS WORK ORDER # **E46034D** Page 1 of 1

Client: Eagle Environmental Consulting
 Address: 4000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-493-0479
 Email Address: dcastro@eagle-consult.com

Project Manager: David Castro
 Project Name: Noble Pad PW Dumpline Release
 Project Number:
 Collected By: RS
 Invoice/Billing Info: Bill to Prairie Operations

Key: W=Water
GM=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid

S=Soil | SO=Soil | O=Oil | A=Air | G=Gas | UWP=Impress | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						EC	pH	
1	E4-5-01e11	11/13/24	1026	3	UWP	X		EC, SAR, pH = Saturated Paste pad
2								
3								
4								
5								MNDs needed
6								
7								
8								
9								
10								

Requisitioned By: [Signature] Date: 11/13/24 Time: 1240
 Received By: [Signature] Date: 11/13/24 Time: 240

Temp Received: 3.9 Received On Ice? Yes No

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Standard

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | For Lab Sample Receiving Only

Origins Laboratory

Jefe Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: E440340

Client: Eagle

Checklist Completed by: SHO

Client Project ID: Noble Pad

Date/time completed: 11/13/12

Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix(s) Received: (Check all that apply): Soil/Solid

Water _____ Other: _____

Cooler Number/Temperature: 13.9 °C / _____ °C / _____ °C (Describe) °C

Thermometer ID: 7009

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (≥ ¼ inch bubbles) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) SHO

11/13/12
 Date/Time Reviewed

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-FS-01@11'
11/13/2024 10:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0340-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K1338	11/13/2024	11/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K1337	"	11/14/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	0.00678		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00374		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	79.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	81.4 %		70-130			"	"	"	

Table 915 metals by EPA 6020B

Origins Laboratory



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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-FS-01@11'
11/13/2024 10:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0340-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.25		0.258	mg/kg	10	B4K1341	11/13/2024	11/14/2024	
Barium	26.5		8.89	"	"	"	"	"	
Cadmium	ND		0.0889	"	"	"	"	"	U
Copper	ND		8.89	"	"	"	"	"	U
Lead	7.68		0.889	"	"	"	"	"	
Nickel	7.70		0.889	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	U
Silver	ND		0.0889	"	"	"	"	"	U
Zinc	ND		32.9	"	"	"	"	"	U

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1337 - EPA 5030 (soil)

Blank (B4K1337-BLK1)

Prepared: 11/13/2024 Analyzed: 11/14/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125	74.8		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	82.8		70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1337 - EPA 5030 (soil)

LCS (B4K1337-BS1)

Prepared: 11/13/2024 Analyzed: 11/14/2024

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.229	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.091		"	0.125		72.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.5	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1337 - EPA 5030 (soil)

Matrix Spike (B4K1337-MS1)	Source: E4K0340-01		Prepared: 11/13/2024 Analyzed: 11/14/2024							
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.112	0.00200	"	0.100	0.00678	106	70-130			
Ethylbenzene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.104	0.00200	"	0.100	0.00374	101	70-130			
o-Xylene	0.0993	0.00200	"	0.100	ND	99.3	70-130			
m,p-Xylene	0.213	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125		74.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.5	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1337 - EPA 5030 (soil)

Matrix Spike Dup (B4K1337-MSD1)	Source: E4K0340-01		Prepared: 11/13/2024 Analyzed: 11/14/2024							
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	2.38	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	1.73	20	
Benzene	0.114	0.00200	"	0.100	0.00678	107	70-130	1.13	20	
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	1.65	20	
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130	5.46	20	
Toluene	0.105	0.00200	"	0.100	0.00374	101	70-130	0.668	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	1.32	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	1.72	20	
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125		74.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.3	70-130			

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David Castro
 Project Number: [none]
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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
 Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K1338 - EPA 3550B										
Blank (B4K1338-BLK1)										
					Prepared: 11/13/2024 Analyzed: 11/14/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		76.4	50-150			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1338 - EPA 3550B

LCS (B4K1338-BS1)

Prepared: 11/13/2024 Analyzed: 11/14/2024

Diesel (C10-C28)	934	50.0	mg/kg	1000		93.4	70-130			
Residual Range Organics (C28-C40)	969	200	"	1000		96.9	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.9	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1338 - EPA 3550B

Matrix Spike (B4K1338-MS1)	Source: E4K0340-01			Prepared: 11/13/2024 Analyzed: 11/14/2024						
Diesel (C10-C28)	930	50.0	mg/kg	1000	ND	93.0	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000	ND	97.7	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.4	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1338 - EPA 3550B

Matrix Spike Dup (B4K1338-MSD1)	Source: E4K0340-01		Prepared: 11/13/2024 Analyzed: 11/14/2024							
Diesel (C10-C28)	987	50.0	mg/kg	1000	ND	98.7	70-130	5.90	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	8.39	35	
<i>Surrogate: o-Terphenyl</i>	52		"	49.8		104	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1341 - EPA 3050B

Blank (B4K1341-BLK1)

Prepared: 11/13/2024 Analyzed: 11/14/2024

Arsenic	ND	0.290	mg/kg							U
Barium	ND	10.0	"							U
Cadmium	ND	0.100	"							U
Copper	ND	10.0	"							U
Lead	ND	1.00	"							U
Nickel	ND	1.00	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.100	"							U
Zinc	ND	37.0	"							U

LCS (B4K1341-BS1)

Prepared: 11/13/2024 Analyzed: 11/14/2024

Arsenic	5.60	0.290	mg/kg	5.00		112	80-120
Barium	557	10.0	"	500		111	80-120
Cadmium	5.90	0.100	"	5.00		118	80-120
Copper	59.9	10.0	"	50.0		120	80-120
Lead	5.57	1.00	"	5.00		111	80-120
Nickel	5.84	1.00	"	5.00		117	80-120
Selenium	5.53	0.260	"	5.00		111	80-120
Silver	4.92	0.100	"	5.00		98.4	80-120
Zinc	57.8	37.0	"	50.0		116	80-120

Matrix Spike (B4K1341-MS1)

Source: E4K0340-01

Prepared: 11/13/2024 Analyzed: 11/14/2024

Origins Laboratory

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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1341 - EPA 3050B

Matrix Spike (B4K1341-MS1)		Source: E4K0340-01			Prepared: 11/13/2024 Analyzed: 11/14/2024					
Arsenic	9.06	0.260	mg/kg	4.48	4.25	107	75-125			
Barium	483	8.96	"	448	26.5	102	75-125			
Cadmium	4.92	0.0896	"	4.48	0.0320	109	75-125			
Copper	52.9	8.96	"	44.8	3.33	111	75-125			
Lead	12.8	0.896	"	4.48	7.68	114	75-125			
Nickel	12.6	0.896	"	4.48	7.70	109	75-125			
Selenium	4.77	0.233	"	4.48	0.196	102	75-125			
Silver	5.08	0.0896	"	4.48	0.0142	113	75-125			
Zinc	79.7	33.1	"	44.8	31.5	107	75-125			

Matrix Spike Dup (B4K1341-MSD1)		Source: E4K0340-01			Prepared: 11/13/2024 Analyzed: 11/14/2024					
Arsenic	9.35	0.281	mg/kg	4.84	4.25	105	75-125	3.20	20	
Barium	545	9.69	"	484	26.5	107	75-125	12.1	20	
Cadmium	5.59	0.0969	"	4.84	0.0320	115	75-125	12.8	20	
Copper	57.9	9.69	"	48.4	3.33	113	75-125	9.05	20	
Lead	13.2	0.969	"	4.84	7.68	115	75-125	3.59	20	
Nickel	13.1	0.969	"	4.84	7.70	112	75-125	3.99	20	
Selenium	5.35	0.252	"	4.84	0.196	106	75-125	11.4	20	
Silver	4.69	0.0969	"	4.84	0.0142	96.6	75-125	7.86	20	
Zinc	83.1	35.8	"	48.4	31.5	106	75-125	4.19	20	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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