



December 28, 2017

Project No.: 1782919

Mr. Tim Noger
NMED PSTB
2905 Rodeo Park East, Bldg 1
Santa Fe NM 87505

**RE: NOTICE OF COMPLETION OF NAPL BAILING/DISPOSAL, LOVINGTON 66 (LUST ID 1182),
WORKPLAN ID NO., 17926-2 LOVINGTON, NEW MEXICO**

Dear Mr. Noger:

On behalf of Walstad Oil Company, Golder Associates Inc. (Golder) is submitting this Notice of Completion of Non-Aqueous Phase Liquid (NAPL) Bailing at the Lovington 66 site (LUST ID 1182) in Lovington, New Mexico. The work was completed in accordance with approved Workplan Identification No. 17926-2. The NAPL bailing and recovery was performed by CMB Environmental and Geological Services, Inc. on December 11, 2017.

Four, 4-inch groundwater monitoring and pilot testing wells (W-1, W-2, W-3 and MPE-1) were gauged, bailed to remove NAPL, and re-gauged. The pre-bailing measured NAPL thickness ranged from 6.31 feet in well W-1 to 6.63 feet in well W-2. Each well was bailed using new, PVC bailers until NAPL recovery was negligible and NAPL thickness was less than 0.05 foot. Amounts of NAPL recovered from each well ranged from approximately 7.68 gallons in well W-1 to 13.08 gallons in well MPE-1. Approximately 41.92 gallons of NAPL was recovered from the four wells as summarized on the attached Table 1. An additional 50.08 gallons of impacted water was also produced. The produced NAPL and water was containerized for transport to the Gandy Marley facility in Eddy County, NM for disposal.

Please feel free to contact Golder at 505-821-3043 if you need additional information or have any questions on this work.

Sincerely,

GOLDER ASSOCIATES INC.

A handwritten signature in black ink, appearing to read 'Emily Clark'.

Emily Clark, CPSS
Project Manager

A handwritten signature in blue ink, appearing to read 'Jeffrey A. Clark'.

Jeffrey A. Clark, PE
Associate

cc: Mr. Bob Murrell, Walstad Oil Company

Attachments: Table 1 – Summary of NAPL Gauging and Recovery, Lovington 66

https://golderassociates.sharepoint.com/sites/17549g/deliverables/17926-2/1782919_002_I_20171228.docx

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TABLE 1
SUMMARY OF NAPL GAUGING AND RECOVERY
LOVINGTON 66

Table 1: Summary of NAPL Gauging and Recovery
Lovington 66, Lovington, New Mexico

Monitor Well	Date Recovered	Prior to Bailing			Post Bailing			Total NAPL Recovered (gallons)	Sources of Data, Comments
		Depth To NAPL (feet)	Depth to Water (feet)	NAPL Thickness (feet)	Depth to NAPL (feet)	Depth to Water (feet)	NAPL Thickness (feet)		
W-1	3-Sep-08	54.69	58.52	3.83	-	57.22	0.00	6.00	1, NAPL Bailing Event
	27-Jan-09	54.69	58.22	3.53	-	56.25	0.00	6.00	1, NAPL Bailing Event
	12-May-09	54.85	57.78	2.93	-	56.62	0.00	1.90	1, NAPL Bailing Event
	10-Jul-09	55.33	56.99	1.66	-	56.69	0.00	1.08	1, NAPL Bailing Event
	12-Feb-14	57.30	60.08	2.78	-	57.88	0.00	8.50	1, NAPL Bailing Event
	9-Jun-14	57.72	64.31	6.59	-	59.85	0.00	4.18	1, NAPL Bailing Event
	15-Oct-14	57.91	64.55	6.64	-	60.20	0.00	20.05	1, NAPL Bailing Event
	2-Jun-15	58.11	64.89	6.78	60.41	60.51	0.10	5.75	1, NAPL Bail-Down Recovery Test
	13-Jul-15	57.12	63.96	6.84	NM	NM	NM	47.61	2, MPE Pilot Test
	15-Jun-16	58.18	64.18	6.00	61.30	61.31	0.01	4.24	1, NAPL Bailing Event
	8-Nov-16	58.38	64.68	6.30	60.70	60.75	0.05	12.80	1, NAPL Bailing Event
	21-Dec-16	58.26	64.42	6.16	61.27	61.28	0.01	6.88	1, NAPL Bailing Event
	18-Apr-17	58.17	64.02	5.85	-	59.91	0.00	7.08	1, NAPL Bailing Event
	11-Sep-17	58.65	65.02	6.37	-	61.63	0.00	4.14	1, NAPL Bailing Event
	11-Dec-17	58.69	65.00	6.31	-	61.86	0.00	7.68	1, NAPL Bailing Event
W-2	3-Sep-08	54.50	54.94	0.44	-	55.52	0.00	0.25	1, NAPL Bailing Event
	27-Jan-09	54.48	54.81	0.33	-	55.55	0.00	0.25	1, NAPL Bailing Event
	12-May-09	54.50	54.83	0.33	-	55.64	0.00	0.21	1, NAPL Bailing Event
	10-Jul-09	54.68	54.96	0.28	-	55.50	0.00	0.18	1, NAPL Bailing Event
	12-Feb-14	56.25	63.26	7.01	-	58.60	0.00	9.75	1, NAPL Bailing Event
	9-Jun-14	56.67	63.64	6.97	-	58.87	0.00	9.15	1, NAPL Bailing Event
	15-Oct-14	56.87	63.85	6.98	-	59.42	0.00	15.85	1, NAPL Bailing Event
	2-Jun-15	57.07	64.26	7.19	59.30	59.32	0.02	6.20	1, NAPL Bail-Down Recovery Test
	13-Jul-15	58.13	64.67	6.54	NM	NM	NM	25.92	2, MPE Pilot Test
	15-Jun-16	57.11	63.60	6.49	59.81	59.82	0.01	5.88	1, NAPL Bailing Event
	8-Nov-16	57.32	64.01	6.69	59.93	59.95	0.02	8.27	1, NAPL Bailing Event
	21-Dec-16	57.22	63.75	6.53	60.17	60.18	0.01	6.48	1, NAPL Bailing Event
	18-Apr-17	57.13	63.28	6.15	-	59.63	0.00	5.08	1, NAPL Bailing Event
	11-Sep-17	57.61	64.33	6.72	-	60.65	0.00	4.36	1, NAPL Bailing Event
	11-Dec-17	57.63	64.26	6.63	-	60.37	0.00	10.28	1, NAPL Bailing Event

Table 1: Summary of NAPL Gauging and Recovery
Lovington 66, Lovington, New Mexico

Monitor Well	Date Recovered	Prior to Bailing			Post Bailing			Total NAPL Recovered (gallons)	Sources of Data, Comments
		Depth To NAPL (feet)	Depth to Water (feet)	NAPL Thickness (feet)	Depth to NAPL (feet)	Depth to Water (feet)	NAPL Thickness (feet)		
W-3	3-Sep-08	54.60	54.81	0.21	-	55.57	0.00	0.25	1, NAPL Bailing Event
	27-Jan-09	54.56	54.69	0.13	-	55.52	0.00	0.25	1, NAPL Bailing Event
	12-May-09	54.58	54.68	0.10	-	55.54	0.00	0.07	1, NAPL Bailing Event
	10-Jul-09	54.78	54.85	0.07	-	55.64	0.00	0.05	1, NAPL Bailing Event
	12-Feb-14	56.36	63.03	6.67	-	58.05	0.00	9.75	1, NAPL Bailing Event
	9-Jun-14	56.78	63.43	6.65	-	59.07	0.00	9.30	1, NAPL Bailing Event
	15-Oct-14	56.96	63.70	6.74	-	60.02	0.00	21.10	1, NAPL Bailing Event
	2-Jun-15	57.17	64.10	6.93	59.80	59.95	0.15	7.00	1, NAPL Bail-Down Recovery Test
	15-Jun-16	57.21	63.53	6.32	NM	NM	NM	8.88	1, NAPL Bailing Event
	8-Nov-16	57.42	63.90	6.48	60.12	60.17	0.05	12.00	1, NAPL Bailing Event
	21-Dec-16	57.32	63.68	6.36	-	60.58	0.00	7.60	1, NAPL Bailing Event
	18-Apr-17	57.22	63.28	6.06	-	60.06	0.00	6.88	1, NAPL Bailing Event
	11-Sep-17	57.75	64.16	6.41	-	60.91	0.00	4.16	1, NAPL Bailing Event
	11-Dec-17	57.76	64.17	6.41	-	60.58	0.00	10.88	1, NAPL Bailing Event
MPE-1	12-Jul-15	57.40	64.08	6.68	61.61	61.65	0.04	67.10	2, MPE Pilot Test
	15-Jun-16	57.43	63.75	6.32	NAPL not bailed				1, NAPL Bailing Event
	8-Nov-16	57.62	64.19	6.57	60.03	60.07	0.04	8.28	1, NAPL Bailing Event
	21-Dec-16	57.51	63.95	6.44	60.22	60.23	0.01	6.88	1, NAPL Bailing Event
	18-Apr-17	57.44	63.58	6.14	-	59.85	0.00	9.28	1, NAPL Bailing Event
	11-Sep-17	57.90	64.55	6.65	-	67.30	0.00	4.37	1, NAPL Bailing Event
	11-Dec-17	57.93	64.50	6.57	-	64.70	0.00	13.08	1, NAPL Bailing Event
V-1	3-Sep-08	53.92	58.45	4.53	-	55.20	0.00	1.00	1
Well Plugged & Abandoned									

Notes:

NAPL - Non Aqueous Phase Liquid

NAPL and water disposed of at Gandy-Marley

NM - not measured

Sources of Data

1: CMB Environmental and Geological Services, Inc.

2: AcuVac Remediation, Inc. Houston, TX

Cumulative Total NAPL Recovered at the Site (gallons)**460.15**