



June 19, 2018

Reference No. 17926-4

Mr. Tim Noger

Remedial Action Program
New Mexico Environment Department
Petroleum Storage Tank Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, New Mexico 87505

RE: NOTICE OF COMPLETION – NAPL BAILING/DISPOSAL, LOVINGTON 66 (FACILITY #1489)

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 in Lovington, New Mexico. Golder completed this work in accordance with approved with the Work Plan for *Groundwater Monitoring and NAPL Bailing/Disposal, Lovington 66 (Facility #1182), Lovington, New Mexico* (WPID #17926) prepared by Golder to satisfy the requirements in the New Mexico Administrative Code, Title 20, Chapter 5, Section 12 and the New Mexico Environment Department Petroleum Storage Tank Bureau (NMED-PSTB) Guidelines for Corrective Action (GCA). The work plan was submitted to the NMED-PSTB on June 27, 2017 and approved by NMED-PSTB on August 8, 2017. This report (Deliverable ID 17926-4) is the fourth and final deliverable under WPID #17926.

The NAPL bailing and recovery was performed by CMB Environmental and Geological Services, Inc. under subcontract to Golder on May 24, 2018. Four monitoring network 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 6.13 feet in well W-1 to 6.48 in well W-2. Each well was bailed using a stainless steel bailer until NAPL recovery was negligible. The volume of NAPL recovered from each well ranged from approximately 5.44 gallons in well W-2 to 7.68 gallons in well W-1 (Table 1). Approximately 25.84 gallons of NAPL were recovered from the four wells and an additional 38.16 gallons of impacted water was also produced. The produced NAPL and water were containerized for transport to the Gandy Marley facility in Eddy County, New Mexico for disposal (manifest attached).

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.



Emily Clark, CPSS
Project Manager



Jeff Clark, PE
Associate, Senior Consultant

CC: Mr. Bob Murrell, Walstad Oil Company

Attachments: Table 1 Cumulative NAPL Gauging and Recovery Data
Gandy Marley Manifest

<https://golderassociates.sharepoint.com/sites/17549g/deliverables/17926-4/1782919-004-l-rev0-20180619.docx>

Table 1 Cumulative NAPL Gauging and Recovery Data

Table 1
Cumulative NAPL Gauging and Recovery
Lovington 66

Monitor Well	Date Recovered	Prior to NAPL Bailing Event			Post Bailing Event			Total NAPL Recovered ¹	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	6	NAPL Bailing Event
W-1	27-Jan-09	54.69	58.22	3.53	-	56.25	0	6	NAPL Bailing Event
W-1	12-May-09	54.85	57.78	2.93	-	56.62	0	1.9	NAPL Bailing Event
W-1	10-Jul-09	55.33	56.99	1.66	-	56.69	0	1.08	NAPL Bailing Event
W-1	12-Feb-14	57.3	60.08	2.78	-	57.88	0	8.5	NAPL Bailing Event
W-1	9-Jun-14	57.72	64.31	6.59	-	59.85	0	4.18	NAPL Bailing Event
W-1	15-Oct-14	57.91	64.55	6.64	-	60.2	0	20.05	NAPL Bailing Event
W-1	2-Jun-15	58.11	64.89	6.78	60.41	60.51	0.1	5.75	NAPL Bail-Down Recovery Test
W-1	13-Jul-15	57.12	63.96	6.84	-	-	0	47.61	MPE Pilot Test
W-1	15-Jun-16	58.18	64.18	6	61.3	61.31	0.01	4.24	NAPL Bailing Event
W-1	8-Nov-16	58.38	64.68	6.3	60.7	60.75	0.05	12.8	NAPL Bailing Event
W-1	21-Dec-16	58.26	64.42	6.16	61.27	61.28	0.01	6.88	NAPL Bailing Event
W-1	18-Apr-17	58.17	64.02	5.85	-	59.91	0	7.08	NAPL Bailing Event
W-1	11-Sep-17	58.65	65.02	6.37	-	61.63	0	4.14	NAPL Bailing Event
W-1	11-Dec-17	58.69	65	6.31	-	61.86	0	7.68	NAPL Bailing Event
W-1	20-Feb-18	58.46	64.5	6.04	-	61.21	0	7.2	NAPL Bailing Event
W-1	24-May-18	58.68	64.81	6.13	-	61.5	0	7.68	NAPL Bailing Event
W-2	3-Sep-08	54.5	54.94	0.44	-	55.52	0	0.25	NAPL Bailing Event
W-2	27-Jan-09	54.48	54.81	0.33	-	55.55	0	0.25	NAPL Bailing Event
W-2	12-May-09	54.5	54.83	0.33	-	55.64	0	0.21	NAPL Bailing Event
W-2	10-Jul-09	54.68	54.96	0.28	-	55.5	0	0.18	NAPL Bailing Event
W-2	12-Feb-14	56.25	63.26	7.01	-	58.6	0	9.75	NAPL Bailing Event
W-2	9-Jun-14	56.67	63.64	6.97	-	58.87	0	9.15	NAPL Bailing Event
W-2	15-Oct-14	56.87	63.85	6.98	-	59.42	0	15.85	NAPL Bailing Event
W-2	2-Jun-15	57.07	64.26	7.19	59.3	59.32	0.02	6.2	NAPL Bail-Down Recovery Test
W-2	13-Jul-15	58.13	64.67	6.54	-	-	0	25.92	MPE Pilot Test
W-2	15-Jun-16	57.11	63.6	6.49	59.81	59.82	0.01	5.88	NAPL Bailing Event
W-2	8-Nov-16	57.32	64.01	6.69	59.93	59.95	0.02	8.27	NAPL Bailing Event
W-2	21-Dec-16	57.22	63.75	6.53	60.17	60.18	0.01	6.48	NAPL Bailing Event
W-2	18-Apr-17	57.13	63.28	6.15	-	59.63	0	5.08	NAPL Bailing Event
W-2	11-Sep-17	57.61	64.33	6.72	-	60.65	0	4.36	NAPL Bailing Event
W-2	11-Dec-17	57.63	64.26	6.63	-	60.37	0	10.28	NAPL Bailing Event
W-2	20-Feb-18	57.43	63.82	6.39	-	60.1	0	7.2	NAPL Bailing Event
W-2	24-May-18	57.63	64.11	6.48	-	60.35	0	5.44	NAPL Bailing Event

Table 1
Cumulative NAPL Gauging and Recovery
Lovington 66

Monitor Well	Date Recovered	Prior to NAPL Bailing Event			Post Bailing Event			Total NAPL Recovered ¹	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	54.6	54.81	0.21	-	55.57	0	0.25	NAPL Bailing Event
W-3	27-Jan-09	54.56	54.69	0.13	-	55.52	0	0.25	NAPL Bailing Event
W-3	12-May-09	54.58	54.68	0.1	-	55.54	0	0.065	NAPL Bailing Event
W-3	10-Jul-09	54.78	54.85	0.07	-	55.64	0	0.045	NAPL Bailing Event
W-3	12-Feb-14	56.36	63.03	6.67	-	58.05	0	9.75	NAPL Bailing Event
W-3	9-Jun-14	56.78	63.43	6.65	-	59.07	0	9.3	NAPL Bailing Event
W-3	15-Oct-14	56.96	63.7	6.74	-	60.02	0	21.1	NAPL Bailing Event
W-3	2-Jun-15	57.17	64.1	6.93	59.8	59.95	0.15	7	NAPL Bail-Down Recovery Test
W-3	15-Jun-16	57.21	63.53	6.32	-	-	0	8.88	MPE Pilot Test
W-3	8-Nov-16	57.42	63.9	6.48	60.12	60.17	0.05	12	NAPL Bailing Event
W-3	21-Dec-16	57.32	63.68	6.36	-	60.58	0	7.6	NAPL Bailing Event
W-3	18-Apr-17	57.22	63.28	6.06	-	60.06	0	6.88	NAPL Bailing Event
W-3	11-Sep-17	57.75	64.16	6.41	-	60.91	0	4.16	NAPL Bailing Event
W-3	11-Dec-17	57.76	64.17	6.41	-	60.58	0	10.88	NAPL Bailing Event
W-3	20-Feb-18	57.55	63.75	6.20	-	60.16	0	4	NAPL Bailing Event
W-3	24-May-18	57.73	64.05	6.32	-	60.45	0	6.28	NAPL Bailing Event
MPE-1	12-Jul-15	57.4	64.08	6.68	61.61	61.65	0.04	67.1	MPE Pilot Test
MPE-1	15-Jun-16	57.43	63.75	6.32	-	-	0		Not Bailed
MPE-1	8-Nov-16	57.62	64.19	6.57	60.03	60.07	0.04	8.28	NAPL Bailing Event
MPE-1	21-Dec-16	57.51	63.95	6.44	60.22	60.23	0.01	6.88	NAPL Bailing Event
MPE-1	18-Apr-17	57.44	63.58	6.14	-	59.85	0	9.28	NAPL Bailing Event
MPE-1	11-Sep-17	57.9	64.55	6.65	-	67.3	0	4.37	NAPL Bailing Event
MPE-1	11-Dec-17	57.93	64.5	6.57	-	64.7	0	13.08	NAPL Bailing Event
MPE-1	20-Feb-18	57.7	64.05	6.35	-	60.25	0	7.2	NAPL Bailing Event
MPE-1	24-May-18	57.91	64.29	6.38	-	60.39	0	6.44	NAPL Bailing Event
V-1	3-Sep-08	53.92	58.45	4.53	-	55.2	0	1	NAPL Bailing Event, Well Plugged & Abandoned
Cumulative Total NAPL Recovered at the Site (gallons)								511.59	

Notes:

NAPL = Non Aqueous Phase Liquid

¹ Measured in gallons - quantity is estimated based on the amount of NAPL in the purge fluid. Gallons of impacted water not reported on the table.

All NAPL recovered is temporarily stored in a 55-gallon drum on-site.

- = not measured

APPENDIX A

Gandy Marley Manifest

N.M.E.D. - DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM

18475

Date of Receipt:

05/05/10

Time of Receipt

15:07

AM

PM

Cell Placement:

Quantity

T/CY:

Description:

Washed Oil / G. Monitor Well
Type 120, Level 21, NM

Name/Address of Generator:

Subsea Separator 5200 Andrews Ave W Site C
Albuquerque, NM 87113 505.821.3043

Origin of Materials (if different)

Transporter Name:

CMB Environmental

SCC ID No.

Name of Laboratory Performing Sample Analysis

HPAL on File

TCLP (EPA Method 1311)

BTEX

MTBE

TPH

Non-Hazardous

Exempt

Verification of No Free Liquids

Paint Filter Liquids Test Performed

Verification of Property Completed Manifest

Generator Manifest Number

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter:

Print Name

Signature

GMI Employee:

Print Name

Signature