

October 15, 2020 Project No. 108788003

Ms. Monica Friedl Hofman Planning and Engineering 3152 Lionshead Avenue Carlsbad, California 92010

Subject: Limited Phase II Environmental Site Assessment Good Shepherd Catholic Cemetery 1505 Buena Vista Drive County of San Diego, California

Dear Ms. Friedl:

Ninyo & Moore performed a Limited Phase II Environmental Site Assessment (ESA) for the proposed Good Shepherd Catholic Cemetery, located at 1505 Buena Vista Drive in an unincorporated area of the County of San Diego, California (site; Figure 1). The site consists of four parcels totaling approximately 14.5 acres (Figure 2). The site was generally undeveloped until orchards were present on the south portion of the site in 1939. The eastern portion of site was developed as a nursery since as early as 1985 and the western portion of the site was developed as a nursery since approximately 1989 (Ninyo & Moore, 2019).

According to the Hazard Memo, the County of San Diego, Planning and Development Services (PDS) requested a Limited Phase II ESA to investigate the former agricultural use of the site, which was identified as a recognized environmental condition (REC) in a 2019 Phase I ESA (Ninyo & Moore, 2019).

# **SCOPE OF SERVICES**

The Phase II ESA was conducted in general accordance with the County of San Diego, Department of Environmental Health, Site Assessment and Mitigation (SAM) Manual and the 2008 Department of Toxic Substances Control (DTSC) Interim Guidance for Sampling Agricultural Properties (Interim Guidance). The recommended sample frequency specified in the DTSC Interim Guidance was followed, which consisted of 27 shallow borings, 7 composited organochlorine pesticides (OCPs) analyses, and 7 discrete analyses for arsenic. The sampling frequency is sufficient to characterize a property up to 17 acres. The scope of services SDC CDS ROWD 10-20-23 LP23-060

- Prepared and implemented a site-specific health and safety plan in general accordance with Federal Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard (29 Code of Federal Regulations [CFR] 1910.120) and Title 8 California Code of Regulations (CCR) Section 5192.
- Created a sample grid with randomized sampling locations using ArcGIS.
- Contacted Underground Service Alert prior to the initiation of field activities to clear the locations of utilities.
- Advanced 27 hand auger borings and collected soil samples at depths of 0.5 and 1.5 feet below ground surface (bgs).
- Submitted soil samples to a California-certified analytical laboratory. The 0.5-foot samples were composited into 7 samples by the laboratory following DTSC composite guidance.
- Analyzed the composited samples for OCPs by United States Environmental Protection Agency (EPA) Method 8081A.
- Analyzed seven discrete 0.5-foot soil samples for total arsenic by EPA Method 6010B.
- For quality control purposes, one duplicate composite sample and one co-located discrete arsenic sample were collected and submitted blind to the laboratory for analysis.
- Prepared this letter report that documents field activities, including the sampling data, tabulated analytical data, analytical report accompanied with chain of custody and quality assurance/quality control documentation, and figures and tables.

# **PHASE II ESA**

# **Soil Sampling**

On September 16 and 17, 2020, Ninyo & Moore personnel advanced 27 hand auger borings (B1 to B27) at the locations shown on Figure 2. Soil samples were collected at depths of 0.5 and 1.5 feet below ground surface (bgs). Each sample was placed directly into a glass, laboratory-supplied jar. Each sample jar was immediately labeled to ensure proper identification for tracking by the analytical testing laboratory. The labeling included project number, hand auger boring unique identifier, sample depth, date, and time the sample was collected, and project location. Samples were placed into coolers containing ice and the chain-of-custody forms were maintained through sample pick up by Orange Coast Analytical, Inc.

# **Sample Compositing and Analytical Testing**

In accordance with the DTSC Interim Guidance, the analytical laboratory composited groups of 3 or 4 discrete samples together (0.5-foot samples only) and assigned a new, unique sample identification based on the group of samples and depth [e.g., B(1-4)-0.5]. Prior to compositing, the discrete samples were homogenized and an aliquot from each discrete sample was used for the composite sample. The composite samples were analyzed for OCPs by EPA Method 8081A.

For the arsenic analysis, a discrete 0.5-foot sample was randomly selected from each group of the 0.5 foot samples for a total of 7 samples. The samples were analyzed for arsenic by EPA Method 6010B. The deeper samples were placed on hold at the laboratory.

# **Decontamination Procedures**

Re-usable sampling equipment was decontaminated before and after each use. Decontamination procedures included a non-phosphate detergent and potable water wash followed by potable and distilled water rinses. A new pair of disposable nitrile gloves was worn by the sampling personnel each time a different sample was collected, reducing the potential for cross-contamination.

# Backfill, Site Restoration, and Investigation-Derived Waste

Investigation-derived waste was not generated during the environmental sampling. The small amounts of decontamination fluid generated were allowed to percolate into the soil at each boing location. Each boring was backfilled with soil cuttings removed from that location and additional soil from the immediate vicinity of the borehole was used, as necessary, as backfill. The surface area at each location was generally restored to match the surrounding grade.

# **ANALYTICAL RESULTS**

The analytical results are summarized on Tables 1 and 2 and the laboratory analytical report is provided as an attachment. Sample locations are shown on Figure 2.

# **Organochlorine Pesticides**

The composite OCP soil sample results are summarized below and on Table 1.

 OCPs were not detected above their respective laboratory reporting limits in the 7 soil samples analyzed.

- The QA/QC duplicate sample (DUP1-0.5) contained 4,4'- Dichlorodiphenyldichloroethylene (DDE) at a concentration of 6.0 micrograms per kilogram (μg /kg), while the original sample (B20-23)-0.5 did not contain 4,4'-DDE above the laboratory reporting limit of 5.0 μg/kg.
- Relative percent differences in analytical results reported between the primary sample and its duplicate are likely due to sample heterogeneity or laboratory margin of error and are not anticipated to affect data quality or the results of the sampling. The sample results are considered acceptable for their intended use.
- The OCPs were less than their respective United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) for commercial / industrial soil.

Table 1 – Organoc	Table 1 – Organochlorine Pesticides Analytical Results in Composite Soil Samples									
Boring IDs	Sample Depth (feet bgs)	Sample ID	Sample Date	4,4'-DDE (ug/kg)	Other OCPs (ug/kg)					
B1, B2, B3, B4	0.5	B(1-4)-0.5	9/16/2020	<10	ND					
B5, B6, B7, B8	0.5	B(5-8)-0.5	9/16/2020	<10	ND					
B9, B10, B11, B12	0.5	B(9-12)-0.5	9/16/2020	<10	ND					
B13, B14, B15	0.5	B(13-15)-0.5	9/16/2020	<10	ND					
B16, B17, B18, B19	0.5	B(16-19)-0.5	9/17/2020	<5.0	ND					
	0.5	B(20-23)-0.5	9/17/2020	<5.0	ND					
B20, B21, B22, B23	0.5	DUP1-0.5	9/17/2020	6.0	ND					
B24, B25, B26, B27	0.5	B(24-27)-0.5	9/17/2020	<5.0	ND					
United States EPA R Industrial Soil	United States EPA Regional Screening Level – Commercial / 9 300 Various									
Notes:										
bgs – below ground surfa										
ug/kg – micrograms/kilog	gram									

# Arsenic

The discrete soil sample arsenic results are summarized below and on Table 2.

- Arsenic was detected in the 7 samples at concentrations ranging from 2.0 to 3.5 milligrams per kilogram (mg/kg).
- The QA/QC duplicate sample (A-0.5) contained arsenic at a similar concentration (2.5 mg/kg) as the original sample, B20-0.5 (2.3 mg/kg). Relative percent differences in analytical results reported between the primary sample and its duplicate are likely due to sample heterogeneity or laboratory margin of error and are not anticipated to affect data quality or the results of the sampling. The sample results are considered acceptable for their intended use.
- The arsenic concentrations were less than the DTSC's screening level of 12 mg/kg (DTSC, 2008).

Table 2 – Arsenic	le 2 – Arsenic Results in Discrete Soil Samples									
Boring ID	Sample Depth (feet bgs)	Sample ID	Sample Date	Arsenic (mg/kg)						
B1	0.5	B1-0.5	9/16/2020	3.0						
B6	0.5	B6-0.5	9/16/2020	2.0						
B11	0.5	B11-0.5	9/16/2020	2.6						
B15	0.5	B15-0.5	9/16/2020	2.3						
B19	0.5	B19-0.5	9/17/2020	3.5						

Boring ID	Sample Depth (feet bgs)	Sample ID	Sample Date	Arsenic (mg/kg)
D00	0.5	B20-0.5	9/17/2020	2.3
B20	0.5	A-0.5	9/17/2020	2.5
B25	0.5	B25-0.5	9/17/2020	2.8
DTSC Screening Level	· · · · ·			12

# CONCLUSIONS

The following conclusions are provided:

- The OCP, 4,4-DDE, was detected in a duplicate sample at a concentration below the EPA RSL value for commercial / industrial soil. The remaining samples did not contain OCPs above their respective laboratory reporting limit. Based on the sampling and testing conducted, OCPs do not appear to be a significant human health risk to future site occupants or construction workers.
- Arsenic, which is a naturally-occurring metal, was detected in all the samples at concentrations below the DTSC's screening level. Based on the sampling and testing conducted, arsenic does not appear to be a significant human health risk to future site occupants or construction workers.

# RECOMMENDATIONS

Based on the Phase II ESA results, the following is recommended at this time:

- During construction activities, visible dust should be kept to a minimum.
- If, during construction activities, contamination is discovered or suspected, notification to regulatory agencies may be required and exposed/excavated contaminated materials or wastes should be properly managed, particularly if there is the potential to affect worker or public health and safety and/or the environment.

# LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past onsite and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the site. The testing and analyses have been conducted by an independent laboratory that is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

We appreciate the opportunity to assist you with the project.

Respectfully submitted, **NINYO & MOORE** 

Adrian Olivares Senior Environmental Scientist

AO/SB/gg

Attachments: References Figure 1 – Site Location Figure 2 – Site Plan with Boring Locations Laboratory Analytical Report

Distribution: (1) Addressee (via e-mail)

Stephan A. Beck, PG 4375 Manager, Environmental Sciences Division

# REFERENCES

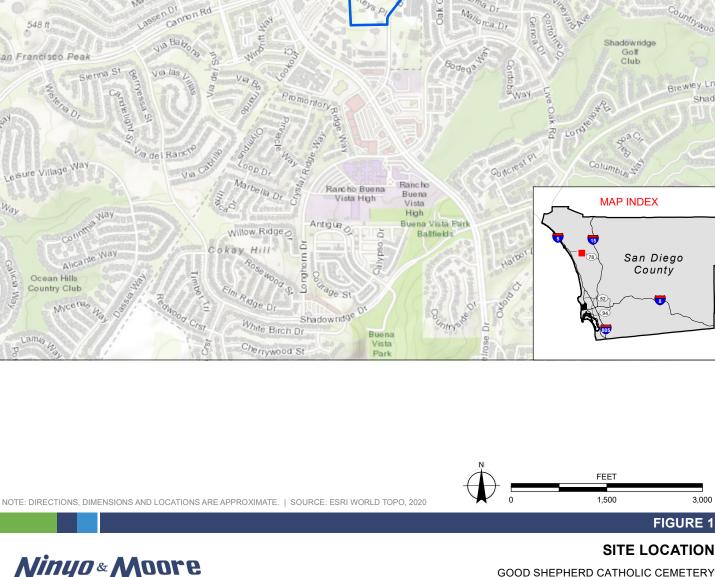
- California Department of Toxic Substances Control, 2008, Interim Guidance for Sampling Agricultural Properties (Third Revision): dated August 7.
- County of San Diego, Department of Environmental Health, 2004, Site Assessment and Mitigation Manual: updated August 2011.
- County of San Diego, Planning and Development Services, Project Planning Division, 2020, [Hazard Memo] PDS2020-MUP-20-004, Good Shepherd Catholic Cemetery: dated June 11.
- Ninyo & Moore, 2019, Phase I Environmental Site Assessment, Proposed Catholic Cemetery, County of San Diego, California, APNs: 169-210-02-00 and 169-220-01, -02, and -03: dated April 26.
- United States Environmental Protection Agency, 2020, Regional Screening Levels (RSLs) Generic Tables: Updated May.

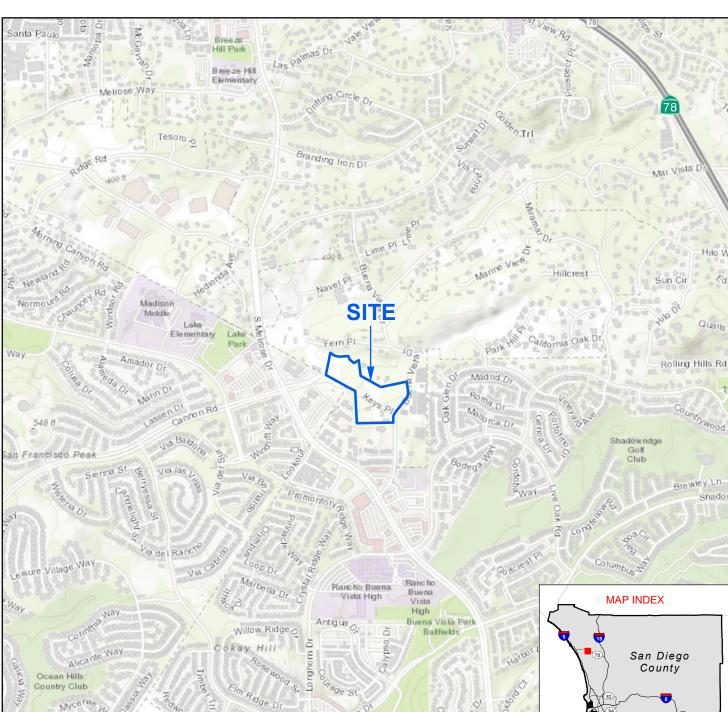
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GOOD SHEPHERD CATHOLIC CEMETERY

1505 BUENA VISTA DRIVE, COUNTY OF SAN DIEGO, CALIFORNIA

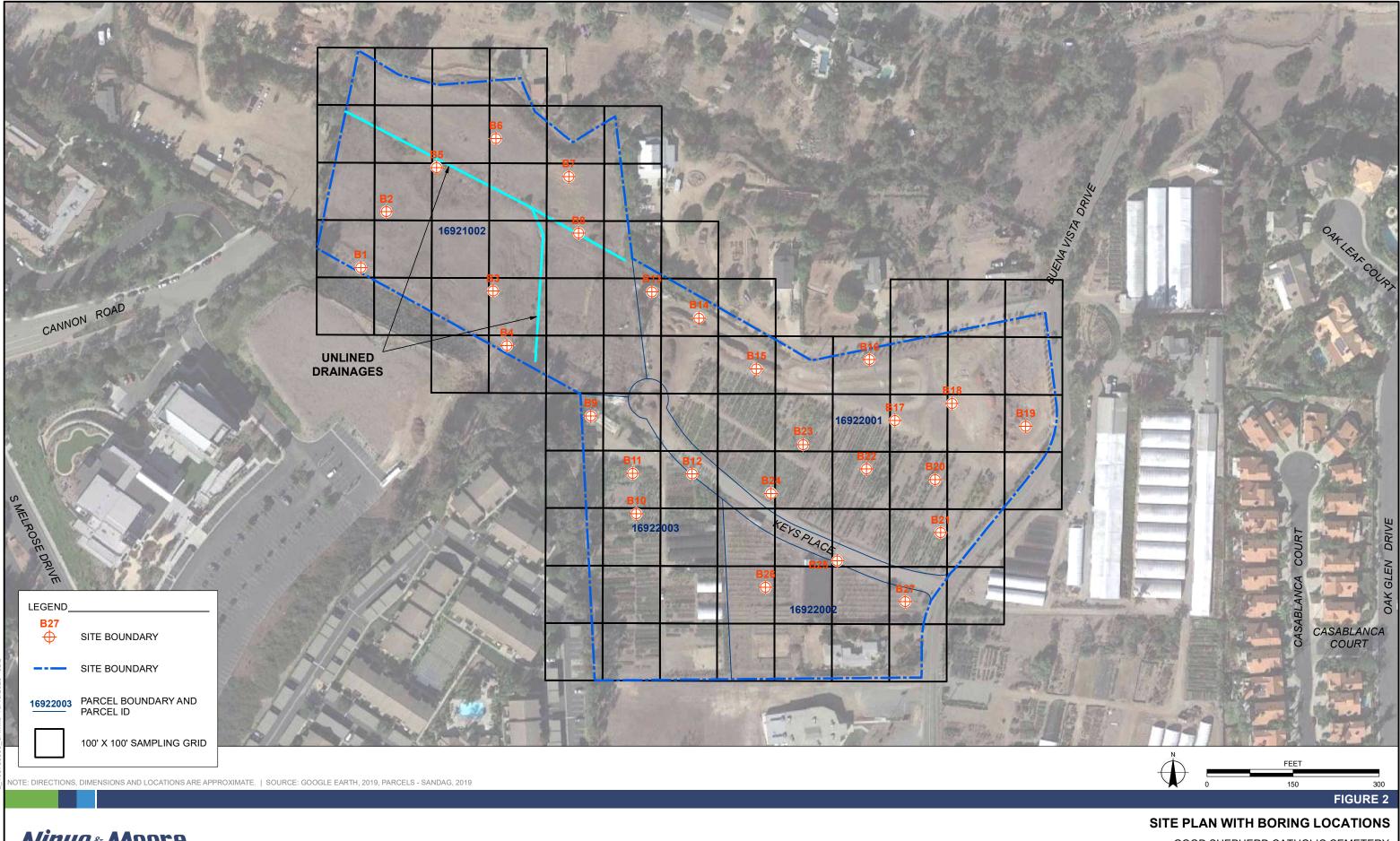




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GOOD SHEPHERD CATHOLIC CEMETERY 1505 BUENA VISTA DRIVE, COUNTY OF SAN DIEGO, CALIFORNIA

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**Orange Coast Analytical, Inc.** 3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

# LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2021 Los Angeles County Sanitation District Lab ID# 10206

> Laboratory Director's Name: <u>Mark Noorani</u>

Client:	Ninyo & Moore
Laboratory Reference:	NAM 25442
Project Name:	Good Shepherd
Project Number:	108788003
Date Received:	9/18/2020
Date Reported:	9/29/2020
Chain of Custody Received:	
Analytical Method:	8081A, 6010B,

Inte

Mark Noorani, Laboratory Director

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Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

### Case Narrative

### Sample Receipt:

All samples on the Chain of Custody were received by OCA at 1ºC, on ice.

### Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

### **Analytical Methods:**

Sample analysis was performed following the analytical methods listed on the cover page.

### **Data Qualifiers:**

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

### **Definition of Terms:**

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

### Comments:

None

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

## Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B1-0.5	25442-001	9/18/2020	9/16/2020	Soil
B2-0.5	25442-002	9/18/2020	9/16/2020	Soil
B3-0.5	25442-003	9/18/2020	9/16/2020	Soil
B4-0.5	25442-004	9/18/2020	9/16/2020	Soil
B5-0.5	25442-005	9/18/2020	9/16/2020	Soil
B6-0.5	25442-006	9/18/2020	9/16/2020	Soil
B7-0.5	25442-007	9/18/2020	9/16/2020	Soil
B8-0.5	25442-008	9/18/2020	9/16/2020	Soil
B9-0.5	25442-009	9/18/2020	9/16/2020	Soil
B10-0.5	25442-010	9/18/2020	9/16/2020	Soil
B11-0.5	25442-011	9/18/2020	9/16/2020	Soil
B12-0.5	25442-012	9/18/2020	9/16/2020	Soil
B13-0.5	25442-013	9/18/2020	9/16/2020	Soil
B14-0.5	25442-014	9/18/2020	9/16/2020	Soil
B15-0.5	25442-015	9/18/2020	9/16/2020	Soil
B16-0.5	25442-016	9/18/2020	9/17/2020	Soil
B17-0.5	25442-017	9/18/2020	9/17/2020	Soil
B18-0.5	25442-018	9/18/2020	9/17/2020	Soil
B19-0.5	25442-019	9/18/2020	9/17/2020	Soil
B20-0.5	25442-020	9/18/2020	9/17/2020	Soil
B21-0.5	25442-021	9/18/2020	9/17/2020	Soil
B22-0.5	25442-022	9/18/2020	9/17/2020	Soil
B23-0.5	25442-023	9/18/2020	9/17/2020	Soil
B24-0.5	25442-024	9/18/2020	9/17/2020	Soil
B25-0.5	25442-025	9/18/2020	9/17/2020	Soil
B26-0.5	25442-026	9/18/2020	9/17/2020	Soil
B27-0.5	25442-027	9/18/2020	9/17/2020	Soil
A-0.5	25442-028	9/18/2020	9/17/2020	Soil
B-0.5	25442-029	9/18/2020	9/17/2020	Soil
C-0.5	25442-030	9/18/2020	9/17/2020	Soil
D-0.5	25442-031	9/18/2020	9/17/2020	Soil
B1-1.5	25442-032	9/18/2020	9/16/2020	Soil
B2-1.5	25442-033	9/18/2020	9/16/2020	Soil
B3-1.5	25442-034	9/18/2020	9/16/2020	Soil
B4-1.5	25442-035	9/18/2020	9/16/2020	Soil
B5-1.5	25442-036	9/18/2020	9/16/2020	Soil
B6-1.5	25442-037	9/18/2020	9/16/2020	Soil
B7-1.5	25442-038	9/18/2020	9/16/2020	Soil

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# Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B8-1.5	25442-039	9/18/2020	9/16/2020	Soil
B9-1.5	25442-040	9/18/2020	9/16/2020	Soil
B10-1.5	25442-041	9/18/2020	9/16/2020	Soil
B11-1.5	25442-042	9/18/2020	9/16/2020	Soil
B12-1.5	25442-043	9/18/2020	9/16/2020	Soil
B13-1.5	25442-044	9/18/2020	9/16/2020	Soil
B14-1.5	25442-045	9/18/2020	9/16/2020	Soil
B15-1.5	25442-046	9/18/2020	9/16/2020	Soil
B16-1.5	25442-047	9/18/2020	9/17/2020	Soil
B17-1.5	25442-048	9/18/2020	9/17/2020	Soil
B18-1.5	25442-049	9/18/2020	9/17/2020	Soil
B19-1.5	25442-050	9/18/2020	9/17/2020	Soil
B20-1.5	25442-051	9/18/2020	9/17/2020	Soil
B21-1.5	25442-052	9/18/2020	9/17/2020	Soil
B22-1.5	25442-053	9/18/2020	9/17/2020	Soil
B23-1.5	25442-054	9/18/2020	9/17/2020	Soil
B24-1.5	25442-055	9/18/2020	9/17/2020	Soil
B25-1.5	25442-056	9/18/2020	9/17/2020	Soil
B26-1.5	25442-057	9/18/2020	9/17/2020	Soil
B27-1.5	25442-058	9/18/2020	9/17/2020	Soil
B(1-4)-0.5	25442-059	9/18/2020	9/16/2020	Soil
B(5-8)-0.5	25442-060	9/18/2020	9/16/2020	Soil
B(9-12)-0.5	25442-061	9/18/2020	9/16/2020	Soil
B(13-15)-0.5	25442-062	9/18/2020	9/16/2020	Soil
B(16-19)-0.5	25442-063	9/18/2020	9/17/2020	Soil
B(20-23)-0.5	25442-064	9/18/2020	9/17/2020	Soil
B(24-27)-0.5	25442-065	9/18/2020	9/17/2020	Soil
DUP1-0.5	25442-066	9/18/2020	9/17/2020	Soil

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

		Organoc	hlorine Pesti	cides (EPA &	8081A)		
Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B(1-4)-0.5	254	42-059	9/18/2020	9/16/2020	9/23/2020	9/28/2020	Soil
			11:52	7:35	10:04	20:19	
ANALYTE	<u>CAS #</u>	<u>µg/kg</u>		<u>.</u>	Surrogate:	<u>% RC</u>	\ <u>*</u>
Aldrin	309-00-2	<2.0			Doocoblorobio	henvl 84	
alpha-BHC	319-84-6	<5.0		I	Decachlorobip	onenyi o4	
beta-BHC	319-85-7	<5.0			* Acceptable F	Recovery: 53-1	135 %
gamma-BHC (Lindane)	58-89-9	<5.0				lecovery. So	00 /0
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30		<u> </u>	Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	s: None	
4,4'-DDE	72-55-9	<5.0		-		<u>.</u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	<5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	<5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

		Organoc	hlorine Pesti	cides (EPA &	8081A)		
Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B(5-8)-0.5	254	42-060	9/18/2020	9/16/2020	9/23/2020	9/28/2020	Soil
			11:52	9:25	10:04	20:34	
ANALYTE	<u>CAS #</u>	<u>µg/kg</u>		<u>(</u>	Surrogate:	<u>% RC*</u>	
Aldrin	309-00-2	<4.0			Deceblerabie	henvl 85	
alpha-BHC	319-84-6	<10		I	Decachlorobip	nenyi 65	
beta-BHC	319-85-7	<10		ł	* Accentable F	Recovery: 53-13	25 %
gamma-BHC (Lindane)	58-89-9	<10			Acceptable	lecovery. 55-10	10 70
delta-BHC	319-86-8	<20					
Chlordane	57-74-9	<60		<u> </u>	Dilution Factor	<u>.</u> 2	
4,4'-DDD	72-54-8	<20			Data Qualifiers	e: D1.	
4,4'-DDE	72-55-9	<10		-		<u>.                                    </u>	
4,4'-DDT	50-29-3	<20					
Dieldrin	60-57-1	<4.0					
Endosulfan I	959-98-8	<20					
Endosulfan II	33213-65-9	<10					
Endosulfan sulfate	1031-07-8	<20					
Endrin	72-20-8	<20					
Endrin aldehyde	7421-93-4	<20					
Endrin ketone	53494-70-5	<10					
Heptachlor	76-44-8	<4.0					
Heptachlor epoxide	1024-57-3	<10					
Methoxychlor	72-43-5	<20					
Toxaphene	8001-35-2	<80					

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

		Organoc	morme Pesu	cides (EPA	000TA)		
Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B(9-12)-0.5	254	42-061	9/18/2020	9/16/2020	9/23/2020	9/28/2020	Soil
			11:52	11:20	10:04	20:49	
ANALYTE	<u>CAS #</u>	<u>µg/kg</u>			Surrogate:	<u>% RC*</u>	
Aldrin	309-00-2	<4.0			Decachlorobip	henvl 77	
alpha-BHC	319-84-6	<10			Decacilioropip		
beta-BHC	319-85-7	<10			* Accentable F	Recovery: 53-13	5%
gamma-BHC (Lindane)	58-89-9	<10			/ 000010010	10001019.0010	0 /0
delta-BHC	319-86-8	<20					
Chlordane	57-74-9	<60			Dilution Factor	<u>:</u> 2	
4,4'-DDD	72-54-8	<20			Data Qualifiers	s <sup>.</sup> D1.	
4,4'-DDE	72-55-9	<10				<u>7.</u> – .,	
4,4'-DDT	50-29-3	<20					
Dieldrin	60-57-1	<4.0					
Endosulfan I	959-98-8	<20					
Endosulfan II	33213-65-9	<10					
Endosulfan sulfate	1031-07-8	<20					
Endrin	72-20-8	<20					
Endrin aldehyde	7421-93-4	<20					
Endrin ketone	53494-70-5	<10					
Heptachlor	76-44-8	<4.0					
Heptachlor epoxide	1024-57-3	<10					
Methoxychlor	72-43-5	<20					
Toxaphene	8001-35-2	<80					

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

		Organoc	hlorine Pesti	cides (EPA &	8081A)		
Client Sample ID		Sample umber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B(13-15)-0.5	254	42-062	9/18/2020	9/16/2020	9/23/2020	9/28/2020	Soil
			11:52	13:55	10:04	21:04	
ANALYTE	<u>CAS #</u>	<u>µg/kg</u>			Surrogate:	<u>% RC</u>	<del>.</del>
Aldrin	309-00-2	<4.0			Decachlorobip	henvl 80	
alpha-BHC	319-84-6	<10			Decacillolopip	nenyi oo	
beta-BHC	319-85-7	<10			* Accentable F	Recovery: 53-1	35 %
gamma-BHC (Lindane)	58-89-9	<10				lecovery. So h	50 /0
delta-BHC	319-86-8	<20					
Chlordane	57-74-9	<60		<u> </u>	Dilution Factor	<u>:</u> 2	
4,4'-DDD	72-54-8	<20			Data Qualifiers	s D1.	
4,4'-DDE	72-55-9	<10		<u>-</u>		<u>.</u> ,	
4,4'-DDT	50-29-3	<20					
Dieldrin	60-57-1	<4.0					
Endosulfan I	959-98-8	<20					
Endosulfan II	33213-65-9	<10					
Endosulfan sulfate	1031-07-8	<20					
Endrin	72-20-8	<20					
Endrin aldehyde	7421-93-4	<20					
Endrin ketone	53494-70-5	<10					
Heptachlor	76-44-8	<4.0					
Heptachlor epoxide	1024-57-3	<10					
Methoxychlor	72-43-5	<20					
Toxaphene	8001-35-2	<80					

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

		Organoc	hlorine Pesti	cides (EPA &	8081A)		
Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B(16-19)-0.5	254	42-063	9/18/2020	9/17/2020	9/23/2020	9/24/2020	Soil
			11:52	7:20	10:04	14:23	
ANALYTE	<u>CAS #</u>	<u>µg/kg</u>			Surrogate:	<u>% RC</u>	**
Aldrin	309-00-2	<2.0			Doogoblorobin	henvl 87	
alpha-BHC	319-84-6	<5.0			Decachlorobip	nenyi o <i>r</i>	
beta-BHC	319-85-7	<5.0			* Acceptable F	ecovery: 53-1	35 %
gamma-BHC (Lindane)	58-89-9	<5.0				1000very. 00 1	00 /0
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30		<u> </u>	Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	: None	
4,4'-DDE	72-55-9	<5.0		-		<u>.</u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	<5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	<5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

#### Lab Sample Date Date Date Date Number Received Sampled Extracted Analyzed **Client Sample ID** Matrix B(20-23)-0.5 25442-064 9/18/2020 9/17/2020 9/23/2020 9/28/2020 Soil 11:52 9:30 10:04 21:20 % RC\* **ANALYTE** CAS # <u>µg/kg</u> Surrogate: Aldrin 309-00-2 <2.0 Decachlorobiphenyl 99 alpha-BHC 319-84-6 <5.0 beta-BHC 319-85-7 <5.0 \* Acceptable Recovery: 53-135 % gamma-BHC (Lindane) 58-89-9 <5.0 delta-BHC 319-86-8 <10 Dilution Factor: 1 57-74-9 <30 Chlordane 4,4'-DDD 72-54-8 <10 Data Qualifiers: None <5.0 4,4'-DDE 72-55-9 4,4'-DDT 50-29-3 <10 Dieldrin 60-57-1 <2.0 Endosulfan I 959-98-8 <10 Endosulfan II <5.0 33213-65-9 Endosulfan sulfate 1031-07-8 <10 Endrin 72-20-8 <10 Endrin aldehyde 7421-93-4 <10 Endrin ketone 53494-70-5 <5.0 Heptachlor 76-44-8 <2.0 Heptachlor epoxide 1024-57-3 <5.0 Methoxychlor 72-43-5 <10 Toxaphene 8001-35-2 <40

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

#### Organochlorine Pesticides (EPA 8081A) Lab Sample Date Date Date Date Number Received Sampled Extracted Analyzed **Client Sample ID** Matrix B(24-27)-0.5 25442-065 9/18/2020 9/17/2020 9/23/2020 9/28/2020 Soil 11:52 12:20 10:04 21:35 % RC\* **ANALYTE** CAS # <u>µg/kg</u> Surrogate: Aldrin 309-00-2 <2.0 Decachlorobiphenyl 91 alpha-BHC 319-84-6 <5.0 beta-BHC 319-85-7 <5.0 \* Acceptable Recovery: 53-135 % gamma-BHC (Lindane) 58-89-9 <5.0 delta-BHC 319-86-8 <10 Dilution Factor: 1 57-74-9 <30 Chlordane 4,4'-DDD 72-54-8 <10 Data Qualifiers: None <5.0 4,4'-DDE 72-55-9 4,4'-DDT 50-29-3 <10 Dieldrin 60-57-1 <2.0 Endosulfan I 959-98-8 <10 Endosulfan II <5.0 33213-65-9 Endosulfan sulfate 1031-07-8 <10 Endrin 72-20-8 <10 Endrin aldehyde 7421-93-4 <10 Endrin ketone 53494-70-5 <5.0 Heptachlor 76-44-8 <2.0 Heptachlor epoxide 1024-57-3 <5.0 Methoxychlor 72-43-5 <10 Toxaphene 8001-35-2 <40

Methoxychlor

Toxaphene

72-43-5

8001-35-2

<10

<40

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

#### Organochlorine Pesticides (EPA 8081A) Lab Sample Date Date Date Date Number Received Sampled Extracted Analyzed **Client Sample ID** Matrix DUP1-0.5 25442-066 9/18/2020 9/17/2020 9/25/2020 9/29/2020 Soil 11:52 9:30 18:05 11:56 % RC\* **ANALYTE** CAS # <u>µg/kg</u> Surrogate: Aldrin 309-00-2 <2.0 Decachlorobiphenyl 98 alpha-BHC 319-84-6 <5.0 beta-BHC 319-85-7 <5.0 \* Acceptable Recovery: 53-135 % gamma-BHC (Lindane) 58-89-9 <5.0 delta-BHC 319-86-8 <10 Dilution Factor: 1 57-74-9 <30 Chlordane 4,4'-DDD <10 72-54-8 Data Qualifiers: None 6.0 4,4'-DDE 72-55-9 4,4'-DDT 50-29-3 <10 Dieldrin 60-57-1 <2.0 Endosulfan I 959-98-8 <10 Endosulfan II <5.0 33213-65-9 Endosulfan sulfate 1031-07-8 <10 Endrin 72-20-8 <10 Endrin aldehyde 7421-93-4 <10 Endrin ketone 53494-70-5 <5.0 Heptachlor 76-44-8 <2.0 Heptachlor epoxide 1024-57-3 <5.0

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

Client Sample ID		Sample mber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBBL	.0923201			9/23/2020	9/24/2020	Soil
					10:04	10:19	
ANALYTE	<u>CAS #</u>	<u>µg/kg</u>			Surrogate:	<u>% RC*</u>	-
Aldrin	309-00-2	<2.0			Doopoblorobin	henyl 91	
alpha-BHC	319-84-6	<5.0			Decachlorobip	inenyi 91	
beta-BHC	319-85-7	<5.0			* Acceptable F	Recovery: 53-13	35 %
gamma-BHC (Lindane)	58-89-9	<5.0					
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	s: None	
4,4'-DDE	72-55-9	<5.0				<u></u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	<5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	<5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

Client Sample ID		Sample mber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBBL	.0925202			9/25/2020	9/28/2020	Soil
					18:05	18:32	
ANALYTE	<u>CAS #</u>	<u>µg/kg</u>			Surrogate:	<u>% RC*</u>	• -
Aldrin	309-00-2	<2.0			Deseeblorabin	henyl 89	
alpha-BHC	319-84-6	<5.0			Decachlorobip	nenyi og	
beta-BHC	319-85-7	<5.0			* Acceptable F	Recovery: 53-13	35 %
gamma-BHC (Lindane)	58-89-9	<5.0					
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	: None	
4,4'-DDE	72-55-9	<5.0				<u></u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	<5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	<5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

# Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

### Metals

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B1-0.5			25442-001	9/18/2020 11:	52 9/16/20	)20 7:35	Soil		
	<u>ANALYTE</u>	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.0	mg/kg	09/21/20 16:00	09/24/20 15:53		1	
B6-0.5			25442-006	9/18/2020 11:	52 9/16/20	)20 9:50	Soil		
	ANALYTE	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.0	mg/kg	09/21/20 16:00	09/24/20 15:55		1	
B11-0.5			25442-011	9/18/2020 11:	52 9/16/20	)20 12:50	Soil		
	ANALYTE	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.6	mg/kg	09/21/20 16:00	09/24/20 15:57		1	
B15-0.5			25442-015	9/18/2020 11:	52 9/16/20	)20 14:50	Soil		
	ANALYTE	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.3	mg/kg	09/21/20 16:00	09/24/20 15:59		1	
B19-0.5			25442-019	9/18/2020 11:	52 9/17/20	)20 8:55	Soil		
	ANALYTE	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.5	mg/kg	09/21/20 16:00	09/24/20 16:01		1	
B20-0.5			25442-020	9/18/2020 11:	52 9/17/20	)20 9:30	Soil		
	ANALYTE	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.3	mg/kg	09/21/20 16:00	09/24/20 16:03		1	

# Lab Reference #: NAM 25442 Project Name: Good Shepherd Project #: 108788003

### Metals

			Lab Sample	Date	Date				
Client Sample	D		Number	Received	Sampl	ea	Matrix		
B25-0.5			25442-025	9/18/2020 11:	52 9/17/20	020 12:55	Soil		
	<u>ANALYTE</u>	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.8	mg/kg	09/21/20 16:00	09/24/20 16:04		1	
A-0.5			25442-028	9/18/2020 11:	52 9/17/20	020 9:30	Soil		
	<u>ANALYTE</u>	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.5	mg/kg	09/21/20 16:00	09/24/20 16:06		1	
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBSR0921201	Arsenic	6010B	<2.0	mg/kg	09/21/20 16:00	09/22/20 15:34		1	

# QA/QC Report for Organochlorine Pesticides (EPA 8081A) Reporting units: ppb

# Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction:	9/23/2020	10:04
Date of Analysis:	9/24/2020	11:50
Dup Date of Analysis:	9/24/2020	12:06
Laboratory Sample #:	25442-063	
MS/MSD Qualifiers:	None	
Reference #:	NAM 25442	

	D4	SPC			~~~~			ACP	ACP	
Analyte	R1	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
Gamma-BHC	0.00	20.0	13.2	14.1	66	71	7	45-130	24	
Heptachlor	0.00	20.0	13.4	14.4	67	72	7	41-130	25	
Aldrin	0.00	20.0	13.3	13.9	67	69	4	44-130	26	
Dieldrin	0.00	40.0	31.0	32.7	77	82	5	41-139	21	
Endrin	0.00	40.0	31.8	32.1	79	80	1	45-145	21	
DDT	0.00	40.0	33.9	36.5	85	91	7	48-151	20	

# Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	76	84		88	91		53-135

# Laboratory Control Sample

Date of Extraction:	9/23/2020	10:04
Date of Analysis:	9/24/2020	10:34
Dup Date of Analysis:	9/24/2020	10:49
Laboratory Sample #:	BL0923201	A
LCS Qualifiers:	None	

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Gamma-BHC	20.0	12.9	13.4	64	67	4	42-130	26	
Heptachlor	20.0	11.8	11.7	59	58	1	35-130	28	
Aldrin	20.0	12.6	12.3	63	62	2	43-130	28	
Dieldrin	40.0	29.6	30.1	74	75	2	41-134	20	
Endrin	40.0	30.2	30.8	75	77	2	48-136	20	
DDT	40.0	31.6	32.7	79	82	3	47-152	20	

# QA/QC Report for Organochlorine Pesticides (EPA 8081A) Reporting units: ppb

# Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction:	9/25/2020	18:05
Date of Analysis:	9/29/2020	11:25
Dup Date of Analysis:	9/29/2020	11:40
Laboratory Sample #:	25450-001	
MS/MSD Qualifiers:	None	
Reference #:	NAM 25442	

		SPC						ACP	ACP	
Analyte	R1	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
Gamma-BHC	0.00	20.0	13.0	13.2	65	66	2	45-130	24	
Heptachlor	0.00	20.0	12.5	12.7	63	63	2	41-130	25	
Aldrin	0.00	20.0	13.0	13.2	65	66	2	44-130	26	
Dieldrin	0.00	40.0	32.9	33.3	82	83	1	41-139	21	
Endrin	0.00	40.0	32.6	32.8	81	82	1	45-145	21	
DDT	0.00	40.0	35.8	36.5	89	91	2	48-151	20	

# Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	91	85		91	91		53-135

# Laboratory Control Sample

Date of Extraction:	9/25/2020	18:05
Date of Analysis:	9/29/2020	10:54
Dup Date of Analysis:	9/29/2020	11:10
Laboratory Sample #:	BL0925202	A
LCS Qualifiers:	None	

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Gamma-BHC	20.0	15.2	15.2	76	76	0	42-130	26	
Heptachlor	20.0	13.8	14.3	69	72	4	35-130	28	
Aldrin	20.0	15.2	15.2	76	76	0	43-130	28	
Dieldrin	40.0	33.0	33.0	82	82	0	41-134	20	
Endrin	40.0	32.3	32.6	81	81	1	48-136	20	
DDT	40.0	34.4	34.1	86	85	1	47-152	20	

# QA/QC Report for Metals

	NAM 25442 (MS) / Matrix Sp	ike Duplicate (N	•	orting ur	nits: pp	n						6010
-	mple #: 25444-00	• •		of Extrac	tion: 0	9/21/20	16:00					
Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	09/22/20 15:48	09/22/20 15:53	2.70	20.0	19.7	20.8	85	90	5	75-125	20	
-	control Spike (LC mple #: SR09212	•		ol Spike	•	•						6010
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers

19.3

19.2

96

96

1

80-120

20

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20.0

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09/22/20 15:41

09/22/20 15:37

Arsenic

# Data Qualifier Definitions

# **Qualifier**

D1 = Sample required dilution due to matrix.

# Definition of terms:

R1 SP CONC (or Spike Conc.) MS	Result of unspiked laboratory sample used for matrix spike determination. Spike concentration added to sample or blank Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

# Miriam Molina

From:	Adrian Olivares <aolivares@ninyoandmoore.com></aolivares@ninyoandmoore.com>
Sent:	Monday, September 21, 2020 4:35 PM
To:	Mark Noorani
Cc:	Tracy Thompson; Stephan Beck; Miriamm; Orange Coast Analytical
Subject:	RE: 108788003 COC

Mark,

Please run the following eight (8) discrete samples for arsenic $25442$	: ,
B1-0.5 - \	
B6-0.5 - 6	
B11-0.5 -1(	
B15-0.5-15	
B19-0.5-19	
B20-0.5-20	
B25-0.5 -25	
A-0.5 - 28	

We don't need any of the composite samples analyzed for arsenic at this time.

Thanks,

Adrian Olivares Senior Environmental Scientist Ninyo & Moore 858.576.1000 (x11257)

From: Mark Noorani [mailto:markn@ocalab.com] Sent: Monday, September 21, 2020 1:20 PM To: Adrian Olivares <aolivares@ninyoandmoore.com> Cc: Tracy Thompson <tthompson@ninyoandmoore.com>; Stephan Beck <sbeck@ninyoandmoore.com>; Miriamm <miriamm@ocalab.com>; Orange Coast Analytical <ocalab@sbcglobal.net> Subject: Re: 108788003 COC Importance: High

No problem Adrian. Thank you, Mark

On 2020-09-21 13:09, Adrian Olivares wrote:

Mark,

Can you please put the arsenic analyses on hold? The arsenic test should be done on discrete samples as oppose to composites. I'll send you a revised COC later today.

	Analysis Re	equest & Chain of	Custody Re	ecord	1.		Lever 1	
	C	www.ocalab.	com	Lab Job No	: 20	142	Page:	/ of <u>5</u>
ORANGE COAST ANALYTICAL, IN		vood Street, Suite 4	com	AN	ALYSIS RE	QUEST / PRESE	RVATION	
3002 Dow Avenue, Suite 532 Tustin, CA 92780	Phoenix, AZ							
Phone: (714) 832-0064 Fax: (714) 832-0067		6-0960 Fax: (480) 736-0970						REQUESTED TURN-AROUND-TIME
CUSTOMER INFORMATION	PR	OJECT INFORMATION		Organochlorine Pesticides (OCP's) EPA Method 8081A	m			Standard: X
				DCP's	5010			
Company: Ninyo & Moore Send Report To: Adrian Olivares	Project Name: Goo Project Number/PO: 1087	od Shepherd		les (C	poq			72 Hour:
Send Report To: Adrian Olivares Email: aolivares@ninyoandmoore.com	Site Address: 1505 Buena			sticio	Method		· ·	<i>0</i> ,
Address: 5710 Ruffin Rd.	Address (City / State):	San Diego, CA		A	EPSA			48 Hour:
San Diego, CA 92123	EDD Required: No			sos1.	enic			
Phone: 858.576.1000 Fax: 858.576.9600	Sampled By: Tracy Th			hod	al Ars			24 Hour:
Customer Sample IDs	No. of Containers Sample Date	Sample Time Sample Matrix	Container Type	Org	Total			REMARKS / INSTRUCTIONS
B1-0.5 B2-0.5 B3-0.5 B4-0.5 B4-0.5 B(1-4)	1 9/16/20	0735 Soil	Jor					
R2-0.5 Company 5	7	0805 1						
B3-0.5 10 H H)-01	1	0830		$\succ$	X			-059
B4-0.5 B	1	0855 1	1/					
		A CASE OF THE OWNER WATER OF THE OWNER OWNER OF THE OWNER OWNE				States and states		
85-0,5 B6-0.5 Composite#	1 9/16/20	0 0925 Soil	Jari					
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							Contraction of the local	
89-0,5	1 9/15120	1120 Soil	Jary					
BID-DE COMP. as 0.5	1 1	1155 1						
B11-0.5 100-12)	1	1250		$\times$	X			-061
B12-0.5 B19-1		1320 1	1/					
No. of Samples: Method of Shipment:		in t	Preservative:	1 = lce	2 = HC	3 = HNO <sub>3</sub>	$4 = H_2SO_4$	5 = NaOH 6 = Other
Relinquished By: Date: 9//	2/20 Received By:	*	Date	e: 9/18	120	Sample Mat	rix:	DW - Drinking Water
Jaco Stor Time: 115		KI MA		e: 11.50		2500 500005501 (5000		e i e e e e e e e e e e e e e e e e e e
Company: N: Ayo + Moora	Company:	Afora		11.20		GW - Grou	indwater	AQ - Aqueous
Relinquished By: Date:	. Received By:		Date	e: .		WW - Was	stewater	SS - Soil / Solid
Time:	-		Tim			CIM Char	nuator	
Company:	Company:			*		SW - Storr	nwater	OT-Other TP=====
Relinquished By: Date:	Received For	OCA By:	Date	e:		Sample Inte	grity:	1-0=
Time:			Tim				(	
Company:	Company:					Intact: V	On Ice:	Yes/No @ <u>°C</u>
		form and any additional services	and ded in support of	f this project De	umont is due	within 30 days of	invoice date unless of	henvise agreed upon in writing by

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, by Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup samples upon completion of all analyses. Please hold remaining Sample material from Each individual Sample Container for Potential further analyses.

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				Mannu	ocalab.c	om	Lab Job No.	: <u>{</u>	2441	/ Pag	e:	of <u>5</u>
	ORANGE COAST ANALYTICAL, INC		4620 Feet Flux			om	AN	ALYSIS RE	QUEST / PRESE	RVATION		
	3002 Dow Avenue, Suite 532			ood Street, Suit	.e 4		1	1				
	Tustin, CA 92780		Phoenix, AZ 8	-0960 Fax: (480)	736-0970							REQUESTED
r	Phone: (714) 832-0064 Fax: (714) 832-0067						EPA					TURN-AROUND-TIME
	CUSTOMER INFORMATION		PRO	JECT INFORMA	TION		(s's)	6010B			S	Standard: X
	Company: Ninyo & Moore	Project Na	me: Goo	d Shepherd			Pesticides (OCP's)	od 6(				
	Send Report To: Adrian Olivares	Project Nu	mber/PO: 10878	38003			icide	Method			•	72 Hour:
	Email: <u>aolivares@ninyoandmoore.com</u>		ss: 1505 Buena	in the second second			Pest	EPSA N				
	Address: 5710 Ruffin Rd.		-: 7.6	San Diego, CA			s1A	ic EP				48 Hour:
	San Diego, CA 92123	EDD Requ		No				Arsenic				24.0
- 1	Phone: 858.576.1000 Fax: 858.576.9600	Sampled E No. of			Sample	C. Minutary	Organochlorine F Method 8081A	Total A				24 Hour:
	Customer Sample IDs	Containers	Sample Date	Sample Time	Matrix	Container Type	δΣ	P P		+ + +		REMARKS / INSTRUCTIONS
13	Phone:       858.576.1000       Fax:       858.576.9600         Customer Sample IDs $B/3 - 0.5$ $O \cdot 5' \cdot c \cdot s = 0.5$ B13 - 0.5 $O \cdot f \cdot c \cdot s = 0.5$ $O \cdot f \cdot s = 0.5$ B15 - 0.5 $A = B[13]$ $B[13]$	1	9/10/20	1355	So: 1	Jer						AL 1
14	B14-0.5 100 m2 13-131		9/10/20	1420		$\parallel$	$\times$				-	-062
19	B15-0.5 / BUS	1	91,6120	1450	A	7 1		_				
-				A REAL PROPERTY AND A								
6	B16-0.5 ¥ 10.5	1	9/17/20	0720	Soil	Jar \						
5		1	1	0755	1							
18	B12-0.5 100 1t (16	1 .		0825			$\leq$	X			-	-063
19	R19-0.5 10 na B	1	1	0855	+	+ /						
C1	817-0.5	and the second second		0000							-	
20	Right # 15	1	9/13/20	0930	Soil	Jar		_				
1	B20-0.5 # 10.5	J	1113100	A REAL PROPERTY OF THE PARTY OF	1	Var						
n	B21-0.5 11 1 23			1005								GCOY
20	\$22-0.5 (0m an 3/2°	,		1035		6/	~					
2	823-0.5/ 1 15	1	1	1100	1	0/						
•						1						
F	No. of Samples: Method of Shipment:					Preservative:	1 = Ice	2 = HC		$4 = H_2SO_4$	5 =	= NaOH 6 = Other
	Relinquished By: Date: 9/1	8/20	Received By:	60100	17	Date	: 9/18	120	Sample Mat	rix:	DV	V - Drinking Water
	Pan. Mar Time: 115	0		geve		Time		7,	GW - Grou	Indwater		
	Company: Ninyo - Mouna		Company:				" IĽ.Ś	0			AC	2 - Aqueous
	Relinquished By: Date:		Received By:			Date			WW - Was	stewater	SS	- Soil / Solid
	Timot					Time	e:		CIM Cherry	nunter	50	
	Company:		Company:				*		SW - Storn	nwater	ОТ	「-Other エアポン
	Relinquished By: Date:		Received For (	ОСА Ву:		Date	ate: Samp			grity:		1=0=
	butch		Date.		Time:			./ ./		1-0		
	Time:		Company:			1110	Intact: <u>N</u> On I			On lo	e: (Yes)	/No @C
1	Company:								1111 20 June of	laureles determine	a ath an ed	se agreed upon, in writing, by

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, by Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup samples upon completion of all analyses. A place hold rome in any Sample material formation of all services and the client. A disposal fee may be imposed if client fails to pickup samples upon completion of all analyses. For Potential farther analyses.

	Custody Re	ecord									
ORANGE COAST ANALYTICAL, IN	r	www.ocalab.com				: 19	2441	/	Page:	3 of	5
3002 Dow Avenue, Suite 532		t Elwood Street, Sui					QUEST / PRESI	RVATIO	DN .		
Tustin, CA 92780	Phoenix,	AZ 85040								REQU	ESTED
Phone: (714) 832-0064 Fax: (714) 832-0067	Phone: (48	0) 736-0960 Fax: (480)	736-0970		EPA					TURN-ARO	
CUSTOMER INFORMATION		PROJECT INFORMA	TION		P's) El	6010B				Standard:	X
Company: Ninyo & Moore	Project Name:	Good Shepherd			00)	09 P0					
Send Report To: Adrian Olivares	Project Number/PO:	108788003			Pesticides (OCP's)	Method				72 Hour:	
Email: <u>aolivares@ninyoandmoore.com</u>	Site Address: 1505 B	uena Vista Drive			esti	AM				~	
Address: 5710 Ruffin Rd.	Address (City / State)	: San Diego, CA			ine F 1A	c EPSA				48 Hour:	. <u> </u>
San Diego, CA 92123	EDD Required:	No			s08	senic					
Phone: 858.576.1000 Fax: 858.576.9600	Sampled By: Trac	y Thompson			anoc	Total Arsenic				24 Hour:	
Customer Sample IDs	No. of Containers Sample I	Date Sample Time	Sample Matrix	Container Type	Organochlorine F Method 8081A	Tota				REMARKS / IN	ISTRUCTIONS
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4B26-0.5 /or name 2024	1	1335			$\times$	X				-065	
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		THE REAL PROPERTY.		A CONTRACTOR						Section Section 1	
A-0.5 X:15 10.5	1 9/17/2	20 0930	Soil	Jon							
	1	1605	1								
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0-0.5 00 D		1105									Υ
	1 4	1103	-	A /							
						-					
				7				-			
	ļ										
No. of Samples: Method of Shipment:				Preservative:		2 = HC	$1  3 = HNO_3$	4 =	H <sub>2</sub> SO <sub>4</sub>	5 = NaOH	6 = Other
Relinquished By: Date: 9/1	8/20 Received	BV:		Date	: 9/1	8/20	Sample Mat	rix:		DW - Drinking	g Water
1. 1. 1. 1. 1 me: 11-	1 1	Miloro		Time	»: // ( )	-	GW - Grou	indwate	۲		
Company: N: nyo - Moore	Company		~		" <i>(</i> l', !	50				AQ - Aqueous	S
Relinquished By: Date:	Received	By:		Date	:		WW - Was	stewate	r	SS - Soil / Soli	d
Time:	Company	r.		Time	:		SW - Storn	nwater		OT - Other	T Otha
Company:										or - other	1KH
Relinquished By: Date:	Received	Received For OCA By:			Date:			Sample Integrity:			1-0=
Time:			Tim			Time:			Intact: V On Ice: Ne		°c
Company:	Company	/:					within 20 days of		C		<u> </u>

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					aalah a	-	Lab Job No.	: 10	2442	Page:	4 of 5
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¥.	Tustin, CA 92780		Phoenix, AZ 85		726 0070					21.72	REQUESTED
	Phone: (714) 832-0064 Fax: (714) 832-0067		Phone: (480) 736-	0960 Fax: (480)	/36-0970		EPA			63	TURN-AROUND-TIME
	CUSTOMER INFORMATION	100	PROJECT INFORMATION					6010B		5.6	Standard: X
	Company: 🔨 Ninyo & Moore	Project Na	me: Good	d Shepherd	2°		Organochlorine Pesticides (OCP's) Method 8081A	od 6(		20	
	Send Report To: Adrian Olivares	Project Nu	mber/PO: 10878	8003			icide	Aeth		00	72 Hour:
	Email: aolivares@ninyoandmoore.com		ss: 1505 Buena V				Pest	EPSA Method			10.11
	Address: 5710 Ruffin Rd.			San Diego, CA			s1A			120	48 Hour:
	San Diego, CA 92123	EDD Requi					d 80	rsen		1.10	
	Phone: 858.576.1000 Fax: 858.576.9600	Sampled B No. of			Sample		gand	Total Arsenic		50	24 Hour:
	Customer Sample IDs	Containers	Sample Date	Sample Time	Matrix	Container Type	δ¥	4		6	REMARKS / INSTRUCTIONS
32	B1-1.5	1	9/16/20		So: 1	Jar				$\sim$	
3	B2-1.5			0820	1					$\mathbf{X}$	
3	R3-1.5			0845						X	
39	84-1.5			0910						X—	
H	85-1.5			0945						X	
3	86-1.5			1015			4			X	
350				1040						X	
30	B8-1.5			1110	1.1					$\lambda$	
4	39-1.5			1140				-		$\Delta$	
41	310-1.5			1210						X -	
41				1310						X	
4	812-1.5			1340						Χ.	
40	B13-1.5			1410						X	
49		4	+	1435	*	8				X	
	No. of Samples: Method of Shipment:			-		Preservative:	1 = lce		CI 3 = HNO <sub>3</sub>	$4 = H_2SO_4$	5 = NaOH 6 = Other
	Relinquished By: Date: 9//	8/20	Received By;			Dat	e: 9/1	812	Sample Matr	ix:	DW - Drinking Water
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	Company: Ningo + Laoure			1.000	n		11:14	50			AQ - Aqueous
	Relinquished By: Date:		Received By:			Dat	e:		WW - Wast	tewater	SS - Soil / Solid
	Time:		Company:			Tim	ie:		SW - Storm	iwater	OT-Other IP+3
	Company:		Received For C	CA By:			. <u>.</u>		Canada Lat	-	1 10-
	Relinquished By: Date:		neceived i of c	, ch by		Dat			Sample Integ	/	1-0-
	Time:		Company			Tim	ie:		Intact: 🚺	On Ice:	Ye)/No @ C
	Company:		Company:							(	

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	ORANGE COAST ANALYTICAL, INC	•			-	www.	202	ah c	am	1	Lab Job No	.: <u>`</u> l	500	14	L	Page:	5	of <u>5</u>
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	Tustin, CA 92780			Phoenix			C 4				1	1		1	1		_	
	Phone: (714) 832-0064 Fax: (714) 832-0067					0960 Fax: (480)	736-0	0970								colos		QUESTED AROUND-TIME
				1.1.5	PROI	ECT INFORMA	TION	,			Pesticides (OCP's) EPA				1	L V	Standar	
	CUSTOMER INFORMATION						nor	•	and the second	-	CP's	6010B				4	Stanuar	u:
	Company: Vinyo & Moore	Proje				I Shepherd	_			-	es (C	bor				20,	72 Ho	ur
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	Customer Sample IDs	No. Conta	. of	Sample		Sample Time		mple atrix	Container Typ	e	Organochlorine F Method 8081A	Total Arsenic			7		REMAR	s / INSTRUCTIONS
41		1		9/16	120	1505	-	27	340						X			
पत्र			1	9/17				1	1						X			
49						0810									X			
ye						0850									X			
50						0925									X			
3	B20-1.5					1000					2				X			
57						1030									X			
52						1100		1							X	5		
						1130									X	2		
5	824-1.5	1				1250									Z			
51						1325									X	>	_	
6	826-1.5					1405									X			
6	827-1.5	1		L.		1430	1		1						X			
	No. of Samples: Method of Shipment:								Preservativ	e:	1 = lce	2 = H0	3	= HNO <sub>3</sub>	4	$= H_2SO_4$	5 = NaOł	I 6 = Other
	Relinquished By: Date: 911	212	20	Receive	d By:	1 -			D	ate:	9/18	sho	Sam	ple Ma	rix:		DW - Dri	nking Water
	Tom. The Time: 115				$\mathbb{C}$	Con	-		Т	ime	:		G	N - Grou	undwa	ater	AQ - Aqu	00115
	Company: Micro + Moore			Compan	9993						$\mu$	SU	-			-	AQ - Aqu	2003
	Relinquished By: Date:			Receive	а ву:					ate:			W	W - Wa	stewa	ter	SS - Soil /	Solid
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	bute.									ate:			Sample Integrity:			2	1-0=	
	Time:			Compar	w.				1	ime	ι.		Inta	ct:	/	On Ice:	Yes No @	<u>⊃ \°c</u>
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# Sample Receipt Report

Laboratory Reference	CANAM 25442		Logged in by	MM
Received:	09/18/20 11:52	Company Name:	Ninvo & Moore	
Method of Shipment:	Hand Delivered	Project Manager:	Mr. Adrian Olivares	
Shipping Container:	Cooler	Project Name:	Good Shepherd	
# Shipping Containers:	1	Project #:	108788003	
Sample Quantity 66 Soil		<u>.</u>		
Chain of Custody		Complete 🖌	Incomplete	None
Samples On Ice		Yes, Wet 🗹	Yes, Blue	No 🗌
Observed Temp. (°C)	: <u>1</u> Thermometer	er ID: IR#3	Adjusted Temp.:	1+(-0)=1
Shipping Intact		Yes 🖌	N/A 🗌	No 🗌
Shipping Custody Sea	als Intact	Yes 🗌	N/A 🔽	No 🗌
Samples Intact		Yes 🖌		No 🗌
Sample Custody Sea	Is Intact	Yes 🗌	N/A 🔽	No 🗌
Custody Seals Signed	d & Dated	Yes 🗌	N/A 🗹	No 🗌
Proper Test Containe	rs	Yes 🖌		No 🗌
Proper Test Preserva	tions	Yes 🖌		No 🗌
Samples Within Hold	Times	Yes 🖌		No 🗌
VOAs Have Zero Hea	dspace	Yes	N/A 🔽	No 🗌
Sample Labels		Complete 🖌	Incomplete	None
Sample Information M	latches COC	Yes 🖌	N/A 🗌	No 🗌

Notes